

**BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION, NEW  
DELHI**

**DIARY NO.  
PETITION NO. /TL/2025**

**IN THE MATTER OF**

Ratle Kiru Power Transmission Limited

...PETITIONER

**Versus**

Central Transmission Utility  
of India Ltd. and Anr.

...RESPONDENTS

**INDEX**

<b>S. No.</b>	<b>Particulars</b>	<b>Page No.</b>
1.	Memo of Parties	<b>A</b>
2.	Application under Sections 14, 15, 79(1)(e) of the Electricity Act, 2003 read with Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2009 seeking Transmission License for Ratle Kiru Power Transmission Limited.	<b>1-15</b>
3.	<b>Annexure P-1:</b> A copy of the Certificate of Incorporation of the Petitioner Company.	<b>16</b>
4.	<b>Annexure P-2 (Colly.):</b> Copies of the Memorandum of Association & Articles of Association of the Petitioner/Applicant Company	<b>17-48</b>
5.	<b>Annexure P-3:</b> A copy of the Minutes of Meeting of 20 <sup>th</sup> NCT meeting	<b>49-113</b>
6.	<b>Annexure P-4:</b> A copy of the Gazette Notification dated 21.08.2024 issued by MoP, GoI.	<b>114-131</b>
7.	<b>Annexure P-5:</b> A copy of the RfP dated 26.09.2024	<b>132-298</b>
8.	<b>Annexure P-6 (Colly.):</b> Copies of the Amendments to the RFP dated 30.10.2024, 28.11.2024, 05.12.2024, 09.12.2024, 13.12.2024, 19.12.2024, 21.12.2024, 27.12.2024 and 01.01.2025	<b>299-320</b>
9.	<b>Annexure P-7 (Colly.):</b> Copies of the clarifications dated 07.11.2024, 09.12.2024, 14.12.2024, 17.12.2024, 21.12.2024, 23.12.2024, and 02.01.2025	<b>321-464</b>



<b>S. No.</b>	<b>Particulars</b>	<b>Page No.</b>
10.	<b>Annexure P-8 (Colly.):</b> A copy of email dated 14.11.2024 issued by RECPDCL to IGL2 along with finalised TSA.	<b>465-466</b>
11.	<b>Annexure P-9:</b> A copy of the Letter of Intent dated 28.02.2025	<b>467-474</b>
12.	<b>Annexure P-10:</b> A copy of the email dated 07.03.2025 issued by IGL2 to RECPDCL	<b>475</b>
13.	<b>Annexure P-11:</b> A copy of RECDCL's letter dated 24.03.2025	<b>476</b>
14.	<b>Annexure P-12:</b> A copy of MoP's letter dated 18.03.2025	<b>477</b>
15.	<b>Annexure P-13:</b> A copy of the signed TSA dated 24.03.2025	<b>478-625</b>
16.	<b>Annexure P-14:</b> A copy of the signed Share Purchase Agreement dated 24.03.2025	<b>626-645</b>
17.	<b>Annexure P-15:</b> A copy of duly filled Form-1	<b>646-650</b>
18.	<b>Annexure P-16:</b> A of Board Resolution dated 25.03.2025	<b>651-653</b>
19.	Vakalatnama	<b>654</b>
20.	Filing Fee Form	<b>655-656</b>


  
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**PETITIONER/ Ratle Kiru Power Transmission Limited**

**Place: Noida, U.P.**

**Date: 28.03.2025**



**A**

**BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION, NEW  
DELHI**

**PETITION NO. \_\_/TL/2025**

**MEMO OF PARTIES**

**IN THE MATTER OF:**

Ratle Kiru Power Transmission Limited  
Shop No-28A, Ground Floor,  
Omaxe Square,  
Jasola, New Delhi- 110025

**...PETITIONER**

**VERSUS**

1. Central Transmission Utility of India Ltd.  
CTU-Planning (1st Floor-A Wing), Saudamini,  
Plot No. - 2, Sector- 29,  
Near IFFCO Chowk Metro Station,  
Gurgaon-122 001

**...RESPONDENT NO. 1**

2. REC Power Development and Consultancy Limited  
D-Block, REC Headquarter, Plot No. I-4, Sector 29,  
Gurgaon-122001

**...RESPONDENT NO. 2**

**PETITIONER/ Ratle Kiru Power Transmission Limited**



Place: Noida

Date: 28.03.2025

**BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION,  
NEW DELHI  
PETITION NO. \_\_\_\_/TL/2025**

**IN THE MATTER OF:**

*Petition under Sections 14, 15 and 79(1)(e) of Electricity Act, 2003 read with the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2009 seeking grant of Transmission License for Ratle Kiru Power Transmission Limited.*

**AND IN THE MATTER OF:**

Ratle Kiru Power Transmission Limited

...PETITIONER

*Versus*

Central Transmission Utility of India Ltd. and Anr.

...RESPONDENTS

**PETITION UNDER SECTION UNDER SECTIONS 14, 15, 79 (1) (e) OF THE  
ELECTRICITY ACT, 2003 FOR GRANT OF TRANSMISSION LICENSE**

**MOST RESPECTFULLY SHOWETH:**

**I. CONSPECTUS**

1. The Petitioner, Ratle Kiru Power Transmission Limited has approached this Hon'ble Commission by way of the present Petition filed under Sections 14, 15 and 79 (1) (e) of the Electricity Act, 2003 (hereinafter "**Electricity Act**") read with Central Electricity Regulatory Commission (Procedure, Terms and Conditions for grant of Transmission Licence and other related matters) Regulations, 2024. (hereinafter referred to as "**CERC Transmission Licence Regulations**") for grant of Transmission Licence in order to implement the



transmission project viz. "Transmission scheme for evacuation of power from Ratle HEP (850MW) & Kiru HEP(624) MW: Part-A" ("**Project**").

2. The Petitioner is a Special Purpose Vehicle which was acquired by of IndiGrid 2 Private Ltd. ("**IGL2**") which was selected as the Successful Bidder in the Tariff-Based Competitive Bidding process ("**TBCB**") conducted by REC Power Development and Consultancy Limited. ("**Respondent No. 2**" / "**RECPDCL**") i.e., Bid Process Co-ordinator ("**BPC**"), to establish the Inter-State Transmission Project on the basis of International competitive bidding in accordance with the "Tariff Based Competitive Bidding Guidelines for Transmission Service" ("**TBCB Guidelines**") and "Guidelines for Encouraging Competition in Development of Transmission Projects" issued by Ministry of Power, Government of India ("**MoP**") under Section 63 of the Electricity Act and as amended from time to time.
3. The need for implementation of the Project was discussed in the 20<sup>th</sup> Meeting of the National Commission on Transmission ("**NCT**") (as held on 25.06.2024), wherein construction of New Transmission Schemes was submitted by CTUIL for consideration of the NCT which *inter-alia* included the present Project.
4. In view thereof, RECPDCL, being the BPC, issued the Request for Proposal dated 26.09.2024 ("**RfP**") for selection of a Transmission Service Provider ("**TSP**") for the establishment of the Project on a build, own, operate & transfer ("**BOOT**") basis. As per the RfP and the Transmission System Agreement ("**TSA**"), the Project comprises of the following elements:



Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
1.	<p><i>LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s along with associated bays at Kishtwar S/s</i></p> <ul style="list-style-type: none"> <li>• <i>400 kV Kishenpur -Kishtwar (LILLO section) shall be on Twin HTLS (with minimum 2100 MVA capacity) configuration</i></li> <li>• <i>400 kV Dulhasti -Kishtwar (LILLO section) shall be on Twin Zebra configuration</i></li> <li>• <i>400 kV line bays at Kishtwar – 2 Nos. (GIS) (line bays at Kishtwar S/s end shall be rated accordingly)</i></li> </ul>	24 months from SPV transfer
2.	<p><i>400 kV Kishenpur-Samba D/C line (Quad)</i></p> <p><i>(only one circuit is to be terminated at Kishenpur utilizing 1 No. of 400 kV vacated line bay at Kishenpur S/s (formed with bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur) while second circuit would be connected to bypassed circuit of 400 kV Kishtwar – Kishenpur line (Quad))</i></p>	
3.	<p><i>Bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad), thus forming 400 kV Kishtwar - Samba (Quad) direct line (one ckt)</i></p>	
4.	<p><i>1x80 MVar Switchable line reactor at Samba end of 400 kV Kishtwar-Samba 400 kV line-165 km (Quad) [formed after bypassing of 400 kV Kishtwar – Kishenpur line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad)]</i></p> <ul style="list-style-type: none"> <li>• <i>420 kV, 80 MVar switchable line reactors at Samba S/s end– 1 No.</i></li> <li>• <i>Switching equipment for 420kV, 80 MVar switchable line reactors at Samba S/s end – 1 No.</i></li> </ul>	



Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
5.	<p>1x63 MVAR Switchable line reactor on each ckt at Jalandhar end of Kishenpur- Jalandhar D/C direct line - 171 km (Twin) (formed after bypassing both ckts of 400 kV Kishenpur - Samba D/C line (Twin) and 400 kV Samba - Jalandhar D/C line (Twin) at Samba and connecting them together to form Kishenpur- Jalandhar D/C direct line (Twin))</p> <ul style="list-style-type: none"> <li>• 420 kV, 63 MVAR switchable line reactors at Jalandhar S/s end- 2 Nos.</li> <li>• Switching equipment for 420kV, 63 MVAR switchable line reactors at Jalandhar S/s end - 2 Nos.</li> </ul>	
6.	<p>400 kV Samba- Jalandhar D/C line(Quad)</p> <p>(only one circuit is to be terminated at Jalandhar utilizing 1 No. of 400 kV vacated line bay at Jalandhar S/s (formed with bypassing of 400 kV Jalandhar - Nakodar line (Quad) at Jalandhar) while second circuit would be connected to bypassed circuit of Jalandhar -Nakodar 400 kV line (Quad))</p>	
7.	<p>1x80 MVAR Switchable line reactor at Samba end of Samba -Nakodar direct line (Quad) (187km) formed after bypassing of 400 kV Jalandhar - Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line (Quad Moose), thus forming Samba -Nakodar line (Quad)</p> <ul style="list-style-type: none"> <li>• 420 kV, 80 MVAR switchable line reactors at Samba S/s end- 1 No.</li> <li>• Switching equipment for 420 kV, 80 MVAR switchable line reactors at Samba S/s end - 1 No.</li> </ul>	
8.	<p>Bypassing 400 kV Jalandhar - Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of</p>	



<b>Sl. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Scheduled COD in months from Effective Date</b>
	<i>Samba-Jalandhar 400 kV D/C line(Quad Moose), thus forming 400 kV Samba –Nakodar (Quad) direct line</i>	

**Note:**

- *M/s Sterlite shall provide space for 2 Nos. of 400 kV line bays (GIS) at Kishtwar S/s*
- *M/s POWERGRID shall provide space for 1 No. 80 MVar Switchable line reactor (along with switching equipment) at Samba end of 400 kV Kishtwar-Samba 400 kV line*
- *M/s POWERGRID shall provide space for 2 Nos. 63 MVar Switchable line reactor (along with switching equipment) at Jalandhar end of Kishenpur– Jalandhar D/C direct line (on each ckt)*
- *M/s POWERGRID shall provide space for 1 No. 80 MVar Switchable line reactor (along with switching equipment) at Samba end of Samba – Nakodar direct line*

5. The Petitioner was incorporated on 23.10.2024 by RECPDCL as its wholly owned subsidiary to initiate the activities for execution of the Project and subsequently to act as TSP after being acquired by the successful bidder selected through TBCB process. A copy of the Certificate of Incorporation of the Petitioner company is annexed herewith and marked as **ANNEXURE P/1**, and a copy of the Memorandum of Association & Articles of Association of the Petitioner Company is annexed herewith and marked as **ANNEXURE P/2 (Colly)**.
6. Notably, IGL2 i.e., the current holding companies of the Petitioner participated in the aforesaid bidding process and subsequently, on 23.01.2025, the IGL2 was declared as the successful bidder by RECPDCL, in pursuance to the e-reverse



auction (held on 23.01.2025), with the lowest levelized transmission Charges. Accordingly, a letter of intent dated 28.02.2025 ("**LoI**") was issued by RECPDCL to IGL2.

7. It is relevant to note the Clause 2.15.4 of the RfP mandates the TSP to apply to this Hon'ble Commission for grant of Transmission License, under Section 14 and 15 of the Electricity Act within five (5) working days of acquiring of the Petitioner (previously a wholly owned subsidiary of RECPDCL before its acquisition by IGL2), which was incorporated as a Special Purpose Vehicle ("**SPV**") for implementation of the Project.
8. In view thereof, the present Petition is being preferred by the Petitioner seeking grant of the Transmission License for implementation of the Project.

## **II. DESCRIPTION OF THE PARTIES**

9. The Petitioner i.e., Rattle Kiru Power Transmission Limited was a wholly owned subsidiary of RECPDCL and was incorporated as an SPV for implementation of the Project. The Petitioner was acquired by IGL2 after being declared as a successful (i.e., L1) bidder in the bidding process conducted by RECPDCL for selection of a TSP for establishment of the Project.
  - 9.1. Respondent No. 1 i.e., Central Transmission Utility of India Limited ("**CTUIL**") is notified to undertake the functions of Central Transmission Utility as provided under Section 38 of the Electricity Act and discharging, *inter-alia*, functions of planning and co-ordination pertaining to ISTS with all the concerned authorities.
  - 9.2. Respondent No. 2 i.e., RECPDCL is a wholly owned subsidiary of REC Ltd., and is a company incorporated under the Companies Act, 1956. On 21.08.2024, MoP





notified RECPDCL as the BPC for the purpose of selection of Bidder as TSP to establish Inter-State Transmission System for construction of the Project through tariff based competitive bidding process.

### III. JURISDICTION

10. This Hon'ble Commission has the jurisdiction to adjudicate upon the present Petition and grant transmission under Sections 14 of the Electricity Act.

### IV. FACTS AND ISSUES FOR CONSIDERATION

11. The relevant facts and issues for the kind consideration of this Hon'ble Commission are as follows:

- 11.1. The Transmission Project being executed by the Petitioner was agreed in the 26th and 28th CMETS-NR meeting held on 20.12.2023 and 27.03.2024. Thereafter the project was submitted for the review of northern region constituents in the 72nd Northern Regional Power Committee ("NRPC") meeting wherein the timelines and complete project configuration was placed before the constituents which was accepted by all the Northern Region constituents.

- 11.2. Thereafter, on 25.06.2024, the 20<sup>th</sup> Meeting of the NCT was held, wherein construction of New Transmission Schemes was submitted by CTUIL for consideration of the NCT, and the said Schemes *inter-alia* included the present Project. During the said meeting, the NCT approved the implementation of the present Project through TBCB process. A copy of the Minutes of Meeting of 20<sup>th</sup> NCT is annexed hereto and marked as **ANNEXURE P/3**.





- 11.3. On 21.08.2024, MoP *vide* its Gazette Notification no. 3229 [F No. 15/03/2018- Trans- Part(4)] notified RECPDCL to be the BPC for the purpose of selection of Bidder as a TSP to establish an Inter-State transmission system for construction of the Project in accordance with the TBCB Guidelines dated 10.08.2021, issued by MoP under Section 63 of the Electricity Act (Refer Sr. No. 6 of the Gazette Notification). A copy of the Gazette Notification dated 21.08.2024 issued by MoP, GoI is annexed hereto and marked as **ANNEXURE P/4**.
- 11.4. On 26.09.2024, RECPDCL issued the RfP for selection of Bidder as a TSP through TBCB process in order to establish *Transmission scheme for evacuation of power from Ratle HEP (850MW) & Kiru HEP(624) MW: Part-A*. One of the main objectives of the bidding process was to select a successful bidder pursuant to the RfP, who shall acquire one hundred percent (100%) of the equity shares of the Petitioner for construction of the Project. A copy of the RfP dated 26.09.2024 is annexed herewith and marked as **ANNEXURE P/5**.
- 11.5. On 23.10.2024, the Petitioner was incorporated under the provisions of the Companies Act, 2013 by RECPDCL as its 100% wholly owned subsidiary to initiate the activities for undertaking pre-bid obligations in relation to the execution of the Project and subsequently to act as the TSP.
- 11.6. It is relevant to note that RECPDCL issued certain amendments to the RfP *inter alia*, extending the date of bid submission for the Project. As per the Amendment no. VIII dated 27.12.2024 the final due date for submission of



online RfP bids through the electronic bidding platform for the Project was 03.01.2025. Also, the RfP (Technical) Bids were supposed to be opened on 03.01.2025. Copies of the Amendments to the RFP dated 30.10.2024, 28.11.2024, 05.12.2024, 09.12.2024, 13.12.2024, 19.12.2024, 21.12.2024, 27.12.2024 and 01.01.2025 are annexed herewith and marked as **ANNEXURE P/6 (Colly.)**

- 11.7. On 07.11.2024, 09.12.2024, 14.12.2024, 17.12.2024, 21.12.2024, 23.12.2024, and 02.01.2025 RECPDCL issued clarifications (through email) to the RfP documents, (as raised by the bidders). Copies of the clarifications dated 07.11.2024, 09.12.2024, 14.12.2024, 17.12.2024, 21.12.2024, 23.12.2024, and 02.01.2025 issued by RECPDCL to the bidders are annexed herewith and marked as **ANNEXURE P/7(Colly.)**.
- 11.8. On 14.11.2024, RECPDCL *vide* an email to IGL2 shared the copy of the finalised unexecuted Transmission Service Agreement ("**TSA**") (which is an agreement between the CTUIL and the Petitioner) in terms of Clause 1.6.2.1 (6) of the RfP. A copy of the email dated 14.11.2024 issued by RECPDCL to IGL2 providing the finalised TSA is annexed herewith and marked as **ANNEXURE P/8**.
- 11.9. Subsequent to the e-Reverse Auction conducted by RECPDCL, IGL2 emerged as the Successful bidder with lowest quoted Transmission tariff. Accordingly, on 28.02.2025, RECPDCL issued the LoI to IGL2. A copy of the Letter of Intent dated 28.02.2025 issued by RECPDCL to IGL2 is annexed herewith and marked as **ANNEXURE P/9**.



- 11.10. In terms of the LoI, IGL2 was required to unconditionally accept the terms of the LoI within seven (7) days of the issuance of the LoI. Accordingly, the IGL2 *vide* its email dated 07.03.2025 to RECPDCL, issued the unconditional acceptance copy of the LoI. A copy of the email dated 07.03.2025 issued by the IGL2 to RECPDCL is annexed herewith and marked as **ANNEXURE P/10**.
- 11.11. It is pertinent to note that Clauses 2.15.2, 2.15.3 and 2.15.4 of the RfP provide for a timelines after issuance of the LoI, which requires the successful bidder to *inter alia* acquire the SPV i.e., the Petitioner within 10 days from issuance of LoI and further mandates the Petitioner to file petitions before this Hon'ble Commission seeking adoption of tariff and grant of transmission licence, within 5 days of the acquisition of the SPV by the successful bidder i.e., IGL2. On 24.03.2025, RECPDCL issued a letter to IGL2, extending the timeline for completion of activities mentioned in the LOI till 01.04.2025. A copy of RECDCL's letter dated 24.03.2025 is annexed here and marked as **Annexure P/11**.
- 11.12. On 18.03.2025, Ministry of Power, Government of India issued its approval for sale and transfer of Ratle Kiru Power Transmission Limited's shares to IGL2. A copy of the letter dated 18.03.2025 is annexed herewith and marked as **Annexure P/12**.
- 11.13. On 24.03.2025, IGL2 acquired the Petitioner/SPV after executing the Share Purchase Agreement dated 24.03.2025, on payment of the Acquisition Price, along with the execution of the Transmission Service Agreement with Respondent No. 1 on 24.03.2025.



A copy of the signed TSA is annexed herewith as **ANNEXURE P/13** and a copy of the signed Share Purchase Agreement is annexed herewith as **ANNEXURE P/14**.

- 11.14. It is humbly submitted that in terms of Clause 2.15.4 of the RfP, the present Petition is being filed by the Petitioner within 5 working days from the true acquisition of the Petitioner/SPV by the IGL2 i.e., on 28.03.2025.
- 11.15. Further, after complying with all the obligations pertaining to the acquisition of the Petitioner by IGL2, the Petitioner has also preferred a Petition for adoption of transmission charges with respect to the Project under Section 63 of the Electricity Act before this Hon'ble Commission separately, *inter alia* in accordance with the provisions of Clause 2.15.4 of the RfP.

#### V. SUBMISSIONS FOR GRANT OF LICENSE

12. It is submitted that the grant of transmission license is a pre-condition under Section 12 of the Electricity Act, and the Petitioner cannot proceed with the establishment of the Transmission System unless the same is granted to the Petitioner.
13. It is submitted that Regulation 4(1) of the Transmission License Regulations provide the eligibility criteria for grant of transmission license as under:

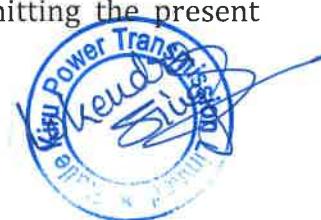
"4. Eligibility for Grant of licence

(1) No person shall be eligible for grant of licence for inter-State transmission of electricity unless it is,

- (a) selected through the process under the competitive bidding guidelines issued under section 63 of the Act; or
- (b) an entity selected by the Central Government or its authorized agency to implement a project under the regulated tariff mechanism. :"



14. As submitted above, the Project has been awarded to IGL2 after selection through competitive bidding process conducted under the bidding guidelines of MoP. And the Petitioner has been duly acquired by IGL2 under the terms of the RfP. Accordingly, the Petitioner is eligible for grant of license under Regulation 4(1)(a) above.
15. It is submitted that Section 14 of the Electricity Act provides that the Appropriate Commission may, on an application made under Section 15 of the Act, grant Licence to any person to transmit electricity as a transmission licensee in any area as may be specified in the Licence. The word 'person' has been defined in Section 2(49) of the Electricity Act to include any company or body corporate or association or body of individuals, whether incorporated or not, artificial or juridical person. Therefore, the Petitioner in terms of Sections 14, 15 & 79 (1) (e) of the Electricity Act is filing the present Petition seeking grant of Transmission Licence for the Project explained above.
16. Further, it is submitted that Section 15(1) of the Electricity Act provides that every application under Section 14 shall be made in such manner and in such form as may be specified by the Appropriate Commission and shall be accompanied with such fees as may be prescribed. Having regard to the provisions of the parent Act, this Hon'ble Commission has enacted the CERC Transmission Licence Regulations and CERC (Payment of Fees) Regulations, 2012. This Hon'ble Commission in the said Regulations has prescribed the form of Application, and also the amount of fee for making an application for grant of Transmission Licence. Accordingly, the Petitioner is submitting the present



- Petition in such prescribed format along with the fees as per Regulation 5(1) of the said Regulations. A copy of duly filled Form-I is enclosed herewith and marked as **Annexure P-15**.
17. Power of Attorney authorising the signatory to commit has also been passed through this board resolution passed on 25.03.2025. A copy of Board Resolution dated 25.03.2025 enclosed herewith and marked as **Annexure P-16**
  18. It is submitted that a copy of the Petition for grant of Transmission Licence is being forwarded to each of the Respondents in terms of Regulation 5(3) of CERC Transmission Licence Regulations.
  19. It is further submitted that the Petitioner is simultaneously submitting/furnishing a copy of the instant Petition to Central Transmission Utility, as required under Section 15 (3) of the Electricity Act seeking appropriate recommendations, if any, in accordance with Section 15 (4) of the Act. In addition, CTUIL is also a party Respondent in the present petition.
  20. The present petition for grant of Transmission Licence is being posted/hosted on its website: <https://www.indigrid.co.in/documents-manager/> as per Regulation 5(4) of CERC Transmission Licence Regulations so as to facilitate the access of the Petition by any person through internet.
  21. The Petitioner further craves leave of this Hon'ble Commission to submit relevant information/ documents as and when required to comply with the obligations under the provisions of law.
  22. The Petitioner undertakes to comply with all the other requirements as provided in the CERC Transmission License Regulations in relation to the



publication of notices, service on the beneficiaries of the Petitioner's Transmission System. Accordingly, the Petitioner shall place on record the compliance reports before the Hon'ble Commission.

23. The present petition is filed *bona fide* and in the interest of justice.

#### PRAYER

24. The Petitioner hereby humbly prays before this Hon'ble Commission to:

- (a) Issue/Grant the Transmission License to the Petitioner, Ratle Kiru Power Transmission Limited for establishing, operating and maintaining the Inter-State transmission system i.e., "*Transmission scheme for evacuation of power from Ratle HEP (850MW) & Kiru HEP(624) MW: Part-A* " comprising of assets elements as detailed in the present petition, in terms of Sections 14, 15 and 79 (1) (e) of the Electricity Act;
- (b) Condone any inadvertent errors omissions/ errors / shortcomings and permit the Petitioner to add/change/modify/alter these pleadings and make further submissions as may be required at a future date;
- (c) Pass any such other order / orders, as may be deemed fit and proper in the facts and circumstances of the case.

**Petitioner/Ratle Kiru Power Transmission Limited**

Date: 28.03.2025

Place: NOIDA, UP





**BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION, AT NEW  
DELHI  
PETITION NO. \_\_\_\_/TL/2025**

**IN THE MATTER OF:**

Ratle Kiru Power Transmission Ltd.

...Petitioner

Versus

Central Transmission Utility of India Ltd.  
& Anr.

...Respondent



**AFFIDAVIT**

I, Lokendra Singh Ranawat, Son of Shri B.S. Ranawat, aged about 40 years, being the authorized representative of Ratle Kiru Power Transmission Ltd., Petitioner herein, having its registered office at Shop No-28A, Ground Floor, Omaxe Square, Jasola, New Delhi- 110025, presently at Noida, U.P., do hereby solemnly affirm and state as under:

1. That I am the authorized signatory of the Petitioner and as such I am fully conversant with the facts and circumstances of the present case and therefore authorised and competent on behalf of the Petitioner to swear and affirm this affidavit.
2. I state that I have read and understood the contents of the accompanying Petition and the same has been drafted under my instructions and after carefully going through the same, I state that the same are true and correct to the best of my knowledge or belief and it is stated that no part of it is false and nothing material has been concealed there from.
3. I state that the annexures annexed to the accompanying Petition, if any, are true copies of their respective originals.

**DEPONENT**

**VERIFICATION**

I, the deponent above named do hereby verify that the contents of the above affidavit are true and correct to the best of my knowledge and belief and nothing material has been concealed there from.

Verified at Noida, Uttar Pradesh on 28 day of March 2024.

**DEPONENT**



**ATTESTED**  
Munendra Kumar Snishodia  
Advocate  
Distt. Court G.B.N.

**28 MAR 2025**





सत्यमेव जयते

**GOVERNMENT OF INDIA  
MINISTRY OF CORPORATE AFFAIRS**

Central Registration Centre

**Certificate of Incorporation**

[Pursuant to sub-section (2) of section 7 and sub-section (1) of section 8 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014]

I hereby certify that RATLE KIRU POWER TRANSMISSION LIMITED is incorporated on this TWENTY THIRD day of OCTOBER TWO THOUSAND TWENTY FOUR under the Companies Act, 2013 (18 of 2013) and that the company is Company limited by shares

The Corporate Identity Number of the company is **U42202DL2024GOI438102**

The Permanent Account Number (PAN) of the company is **AAOCR0409D\***

The Tax Deduction and Collection Account Number (TAN) of the company is **DELR50563C\***

Given under my hand at Manesar this TWENTY THIRD day of OCTOBER TWO THOUSAND TWENTY FOUR

Certification signature by DS MINISTRY OF CORPORATE  
AFFAIRS, CRC MANESAR 1, CRP, CRC@MCA.GOV.IN  
Validity Unknown

Digitally signed by  
DS MINISTRY OF CORPORATE  
AFFAIRS, CRC MANESAR 1  
Date: 2024.10.23 21:05:05 IST

Charan Singh

Assistant Registrar of Companies/ Deputy Registrar of Companies/ Registrar of Companies

For and on behalf of the Jurisdictional Registrar of Companies

Registrar of Companies

Central Registration Centre

**Disclaimer:** This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds from public. Permission of sector regulator is necessary wherever required. Registration status and other details of the company can be verified on [mca.gov.in](http://mca.gov.in)

Mailing Address as per record available in Registrar of Companies office:

RATLE KIRU POWER TRANSMISSION LIMITED

CORE-4, SCOPE COMPLEX, 7, LODHI ROAD, Lodi Road, New Delhi, South Delhi- 110003, Delhi

\*as issued by Income tax Department



remedial measures to improve, undertake development of new and innovative product connected with business of the Company as well as modernize existing EHV, HV lines and Sub-Stations.

3.To act as consultants, technical advisors, surveyors and providers of technical and other services to Public or Private Sector enterprises engaged in the planning, investigation, research, design and preparations of preliminary, feasibility and definite project reports, manufacture of power plant and equipment, construction, generation, operation and maintenance of power transmission system from power generating stations and projects, transmission and distribution of power.

4.To plan, promote, develop, erect and maintain, operate and otherwise deal in Telecommunication networks and services in all its aspects including planning, investigation, research, design and engineering, preparation of preliminary, feasibility and definite project reports: to purchase, sell, import, export, assemble, manufacture, install, commission, maintain, operate commercially whether on own or along with other, on lease or otherwise. These networks and for such purposes to set up and/ or install all requisite communications facilities and other facilities including fibre optic links, digital microwave links, communication cables, other telecommunication means, telephone and other exchanges, co-axial stations, microwave stations, repeater stations, security system databases, billing systems, subscriber management systems and other communication systems whether consisting of sound, visual impulse, or otherwise, existing or that may be developed or invented in the future and to



manufacture, purchase, sell, import, export, assemble, take or give on lease/rental/subscription basis or by similar means or otherwise deal in all components and other support and ancillary hardware and software systems, accessories, parts and equipments etc. used in or in connection with the operation of the above communication systems and networks including to deal with telecommunication operations or directly with the general public, commercial companies or otherwise.

(b) \*Matters which are necessary for furtherance of the objects specified in clause 3(a) are

1. To obtain license, approvals and authorization from Governmental Statutory and Regulatory Authorities, as may be necessary to carry out and achieve the Objects of the Company and connected matters which may seem expedient to develop the business interests of the Company in India and abroad.

2. To enter into any arrangement with the Government of India or with any State Government or with other authorities/ commissions, local bodies or public sector or private sector undertakings, Power Utilities, Financial Institutions, Banks, International Funding Agencies and obtain such charters, subsidies, loans, advances or other money, grants, contracts, rights, sanctions, privileges, licenses or concessions whatsoever (whether statutory or otherwise) which the Company may think it desirable to obtain for carrying its activities in furthering the interests of the Company or its members.

3. To enter into any agreement, contract or any arrangement for the implementation of the power generation, evacuation, transmission and distribution system and network with Power/ Transmission Utilities, State Electricity Boards, Vidhyut Boards,



Companies, Generation Companies, Licensees, Statutory bodies, other organizations (whether in Private, Public or Joint Sector Undertaking) and bulk consumers of power etc.

4.To secure the payments of money, receivables on transmission and distribution of electricity and sale of fuel, as the case may be, to the State Electricity Boards, Vidyut Boards, Transmission Utilities, Generating Companies, Transmission Companies, Distribution Companies, State Governments, Licensees, statutory bodies, other organizations (whether in Private, Public or Joint Sector Undertaking) and bulk consumers of power etc. through Letter of Credits/ESCROW and other security documents.

5.To coordinate with the Central Transmission Utility of electricity generated by it under the relevant provisions of Electricity Act 2003 and any amendments thereto.

6.Subject to provisions of Sections 73, 74, 179, 180 & 186 and other applicable provisions of the Companies Act, 2013 and rules made thereunder and subject to other laws or directives, if any, of SEBI/RBI, to borrow money in Indian rupees or foreign currencies and obtain foreign lines of credits/ grants/ aids etc. or to receive money or deposits from public for the purpose of the Company's business in such manner and on such terms and with such rights, privileges and obligations as the Company may think fit. The Company may issue bonds/ debentures whether secured or unsecured; bills of exchange, promissory notes or other securities, mortgage or charge on all or any of the immovable and movable properties, present or future and all or any of the uncalled capital for the time being of the Company as the



Company may deem fit and  
 To repay, redeem or pay off any such securities or charges.

7. To lend money on property or on mortgage of immovable properties or against Bank guarantee and to make advances of money against future supply of goods and services on such terms as the Directors may consider necessary and to invest money of the Company in such manner as the Directors may think fit and to sell, transfer or to deal with the same.

8. To own, possess, acquire by purchase, lease or otherwise rights, title and interests in and to, exchange or hire real estate, equipment, Transmission lines, lands, buildings, apartments, plants, equipment, machinery, fuel blocks and hereditaments of any tenure or descriptions situated in India or abroad or any estate or interest therein and any right over or connected with land so situated and turn the same to account in any manner as may seem necessary or convenient for the purpose of business of the Company and to hold, improve, exploit, reorganize, manage, lease, sell, exchange or otherwise dispose of the whole or any part thereof.

9. Subject to applicable provisions of Companies Act, 2013, to subscribe for, underwrite, or otherwise acquire, hold, dispose of and deal with the shares, stocks, debentures or other securities and titles of indebtedness or the right to participate in profits or other similar documents issued by any Government authority, Corporation or body or by any company or body of persons and any option or right in respect thereof.

10. To create any depreciation fund, reserve fund, sinking fund, insurance fund, gratuity, provident fund or any other fund, for depreciation or for repairing, improving extending or



maintaining any of the properties of the Company or for any other purposes whatsoever conducive to the interests of the Company.

11.To acquire shares, stocks, debentures or securities of any company carrying on any business which this Company is entitled to carry on or acquisition of undertaking itself which may seem likely or calculated to promote or advance the interests of the Company and to sell or dispose of or transfer any such shares, stocks or securities and the acquired undertaking.

12.To enter into partnership or into any agreement for joint working, sharing or pooling profits, joint venture, amalgamation, union of interests, co-operation, reciprocal concessions or otherwise or amalgamate with any person or company carrying on or engaged in or about to carry on or engaged in any business or transaction in India or abroad which the Company is authorized to carry on or engage in any business undertaking having objects identical or similar to, as are being carried on by this Company.

13.To establish and maintain agencies, branch offices and local agencies, to procure business in any part of India and world and to take such steps as may be necessary to give the Company such rights and privileges in any part of the world as deemed proper in the interest of the Company.

14.To promote and undertake the formation of any institution or Company or subsidiary company or for any aforesaid objects intended to benefit the Company directly or indirectly and to coordinate, control and guide their activities.

15(a).To negotiate and enter into agreements and contracts with domestic and foreign companies,



persons or other organizations, banks and financial institutions, in relation to the business of the Company including that of technical know-how, import, export, purchase or sale of plant, machinery, equipment, tools, accessories and consumables, financial assistance and for carrying out all or any of the objects of the Company.

15(b). To negotiate and enter into agreements and contracts for execution of turnkey jobs, works, supplies and export of plant, machinery, tools and accessories etc.

16. Upon and for the purpose of any issue of shares, debentures or any other securities of the Company, to enter into agreement with intermediaries including brokers, managers of issue/commission agents and underwriters and to provide for the remuneration of such persons for their services by way of payment in cash or issue of shares, debentures or other securities of the Company or by granting options to take the same or in any other manner as permissible under the law.

17. To enter into contracts of indemnity and get guarantee and allocations for the business of the Company.

18. To make arrangements for training of all categories of employees and to employ or otherwise engage experts, advisors, consultants etc. in the interest of achieving the Company's objects.

19. To promote conservation and protection of electricity from theft, safety of life and to protect environments including air, land and water etc.

20. To pay and provide for the remuneration, amelioration and welfare of persons employed or formerly employed by the Company and their families providing for pension, allowances, bonuses, other payments or by creating for the





purpose from time to time the Provident Fund, Gratuity and other Funds or Trusts. Further to undertake building or contributing to the building or houses, dwellings or chawls by grants of money, or by helping persons employed by the Company to effect or maintain insurance on their lives by contributing to the payment of premium or otherwise and by providing or subscribing or contributing towards educational institutions, recreation, hospitals and dispensaries, medical and other assistance as the Company may deem fit.

21. To ensure any rights, properties, undertakings, contracts, guarantees or obligations or profits of the Company of every nature and kind in any manner with any person, firm, association, institution or company.

22. To distribute among members of the Company dividend including bonus shares out of profits, accumulated profits or funds and resources of the Company in any manner permissible under law.

23. To institute, conduct, defend, compound or abandon any legal proceedings by or against the Company or its officers or otherwise concerning the affairs of the Company and also to compound and to allow time for payment or satisfaction of any debts or recovery due, claims or demands by or against the Company and to refer any claims or demands by or against the Company or any differences arising in execution of contracts to conciliation and arbitration and to observe, comply with and/or challenge any awards preliminary, interim or final made in any such arbitration.

24. To pay out of the funds of the Company all costs, charges, expenses and preliminary and





incidental to the promotion, formation, establishment and registration of the Company or other expenses incurred in this regard.

25. Subject to provisions of Sections 181, 182 & 183 of Companies Act, 2013 to contribute money or otherwise assist to charitable, benevolent, religious, scientific national, defense, public or other institutions or objects or purposes.

26. To open an account or accounts with any individual, firm or company or with any bank bankers or shroofs and to pay into and withdraw money from such account or accounts.

27. To accept gifts, bequests, devises and donations from members and others and to make gifts to members and others of money, assets and properties of any kind.

28. To carry out all or any of the objects of the company and do all or any of the above things in any part of the world and either as principal, agent, contractor or trustee or otherwise and either alone or in conjunction with others.

29. To negotiate and/or enter into agreement and contract with individuals, companies, corporations, foreign or Indian, for obtaining or providing technical, financial or any other assistance for carrying on all or any of the objects of the Company and also for the purpose of activating, research, development of projects on the basis of know-how and/or financial participation and for technical collaboration, and to acquire or provide necessary formulate and patent rights for furthering the objects of the company.

30. To aid peculiarly or otherwise, any association, body or movement having for its object the solution, settlement or surmounting of industrial or labour problems or trouble or



the promotion of industry or trade.

31. Subject to the provisions of Companies Act, 2013 or any amendment or re-enactment thereof in the event of winding up to distribute among the members in specie any property of the Company or any proceeds of sale on disposal of any property in accordance with the provisions of the Act.

32. To do all such other things as may be deemed incidental or conducive to the attainment of the above Objects or any of them and to carry on any business which may seem to the Company capable of being conveniently carried in connection with any of the Company's Objects or calculated directly or indirectly to enhance the value of or render profitable any of the Company's property or rights.

33. To establish, provide, maintain and conduct or otherwise subsidies research laboratories and experimental workshops for scientific, technical or researches, experiments and to undertake and carry on directly or in collaboration with other agencies scientific and technical research experiments and tests of all kinds and to process, improve and invent new products and their techniques of manufacture and to promote, encourage, reward in every manner studies and research, scientific and technical investigations and inventions of any kind that may be considered likely to assist, encourage and promote rapid advances in technology, economies, import substitution or any business which the Company is authorized to carry on.

34. Subject to provisions of the Companies Act, 2013, to evolve scheme for restructuring or arrangement, to amalgamate or merge or to enter into partnership or into any consortium or arrangement for



sharing of profits, union of interests, co-operation, joint venture with any Person or Persons, partnership firm/firms, or company or companies carrying on or engaged in any operation capable of being conducted so conveniently in cooperation with the business of the Company or to benefit the Company or to the activities for which the Company has been established.

35.To apply for purchase, or otherwise acquire any trade marks, patents, brevets, inventions, licenses, concessions and the like, conferring any exclusive or nonexclusive or limited rights to use, or any secret or other information as to any invention which may be capable of being used for any of the purposes of the Company, or the acquisition of which may benefit the Company and to use, exercise, develop or grant licenses in respect of or otherwise turn to account the property, rights or information so acquired.

36.To sell, dispose or hive off an undertaking of the Company or any part thereof for such consideration as the Company may think fit and in particular for shares, debentures or securities of any other association, corporation or company.

37.To sell, improve, manage, develop, exchange, loan, lease or let, under-lease, sub - let, mortgage, dispose of, deal with in any manner, turn to account or otherwise deal with any rights or property of the Company.

4 The liability of the member(s) is limited, and this liability is limited to the amount unpaid if any, on the shares held by them.

5 Every member of the company undertakes to contribute:



(i) to the assets of the company in the event of its being wound up while he is a member, or within one year after he ceases to be a member, for payment of the debts and liabilities of the company or of such debts and liabilities as may have been contracted before he ceases to be a member; and

(ii) to the costs, charges and expenses of winding up (and for the adjustment of the rights of the contributories among themselves), such amount as may be required, not exceeding \*  rupees.

(iii) The share capital of the company is  rupees, divided into

50000	Equity Share	Shares of	10	Rupees each	
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6

We, the several persons, whose names and address are subscribed, are desirous of being formed into a company in pursuance of this memorandum of association, and we respectively agree to take the number of shares in the capital of the company set against our respective names:




I, whose name and address is given below, am desirous of forming a company in pursuance of this memorandum of association and agree to take all the shares in the capital of the company:

We, the several persons, whose names and addresses are subscribed, are desirous of being formed into a company in pursuance of this memorandum of association:




Subscriber Details					
S. No.	*Name, Address, Description and Occupation	DIN / PAN / Passport number	No. of shares taken	DSC	Dated
1	MUKUL AGARWAL S/O SHRI RAJESH KUMAR NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O HOUSE NO. 767, SECOND FLOOR, ANSAL C-2 BLOCK, NEAR WATER TANK ANSAL PLAZA, SECTOR-3 PALAM VIHAR, GURGAON-122017, HARYANA OCCUPATION-SERVICE	1*3*2*8*	1 Equity,0 Preference		16/10/2024
2	REC POWER DEVELOPMENT AND CONSULTANCY LIMITED, CORE-4, SCOPE COMPLEX, 7, LODHI ROAD, NEW DELHI- 110003, THROUGH ITS CEO THANGARAJAN SUBASH CHANDIRA BOSH S/O SITHAN THANGARAJAN R/O APARTMENT NO S-2, MIDDLE PORTION 2-B, JANGPURA, MATHURA ROAD, NEW DELHI-110014, OCCUPATION-SERVICE	0*7*2*1*	49994 Equity,0 Preferenc		16/10/2024
3	JASPAL SINGH KUSHWAHA S/O MITHAI LAL KUSHWAHA NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O C-64/FIRST FLOOR, JVTS GARDEN CHATTARPUR EXTENSION South West Delhi 110074 OCCUPATION-SERVICE	1*3*2*3*	1 Equity,0 Preference		16/10/2024
4	SATYABAN SAHOO S/O MAHENDRA NATH SAHOO NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O FLAT NO. B235 VASANT APPARTMENT GURGAON HARYANA-122001 OCCUPATION-SERVICE	A*K*S*0*9*	1 Equity,0 Preference		16/10/2024



5	CHILAKAMARRI VENKATA LAKSHAMANA CHARYULU S/O SHRIMANNARAYAN CHARYULU CHILKAMARRI NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O PLOT NO.1, NORTHSTAR AIRPORT BOULEVARD, TUKKAGUDA, MAHESHRAM MANDAL, RANGAREDDY DISTRICT, ANDRA PRADESH-501359, OCCUPATION-SERVICE	1*7*2*3*	1 Equity,0 Preference		16/10/2024
6	ARVIND KUMAR S/O NAND KISHOR SINGH NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O T4-8A, SAI VATIKA APARTMENT, SECTOR-63, FARIDABAD - 121004, OCCUPATION-SERVICE	1*3*2*3*	1 Equity,0 Preference		16/10/2024
7	ANIL KUMAR PERALA S/O VENKATESHAM NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O A302 TARIKA APPARTMENT, SECTOR-43 GURGAON HARYANA-122001 OCCUPATION-SERVICE	B*V*P*1*2*	1 Equity,0 Preference		16/10/2024
Total shares taken			50000 Equity,0 Preference		

## Signed before me

Membership type of the witness (ACA/FCA/ACS/FCS/ACMA/FCMA)	*Name of the witness	*Address, Description and Occupation	DIN / PAN / Passport number / Membership number	DSC	Dated
FCA	VINAY KUMAR	A-805, NX BYTE T-3 NX ONE, TECH ZONE - IV, GREATER NOIDA WEST -201318	4*2*9*		16/10/2024

7 Shri / Smt   Of  resident of   
 aged  years shall be the nominee in the event of death of the sole member.





## Form No. INC-34

e-AOA (e-Articles of Association)

[Pursuant to Section 5 of the Companies Act, 2013 and rules made thereunder read with Schedule I]



Form language

 English
  Hindi

Refer instruction kit for filing the form

All fields marked in \* are mandatory

Table applicable to company as notified under schedule I of the Companies Act, 2013 (F, G, H)

F

Table F / G / H (basis on the selection of above-mentioned field) as notified under schedule I of the companies Act, 2013 is applicable to

(F - a company limited by shares

G - a company limited by guarantee and having a share capital

H - a company limited by guarantee and not having share capital)

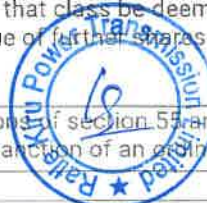
F - A COMPANY LIMITED BY SHARES

The name of the company is

RATTLE KIRU POWER TRANSMISSION LIMITED

Check if not applicable	Check if altered	Article No.	Description
<input type="checkbox"/>	<input checked="" type="checkbox"/>		<b>Interpretation</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	I	<ul style="list-style-type: none"> <li>(1) In these regulations- (a) the Act means the Companies Act 2013 (b) the seal means the common seal of the company. (2) Unless the context otherwise requires words or expressions contained in these regulations shall bear the same meaning as in the Act or any statutory modification thereof in force at the date at which these regulations become binding on the company. (3) Public company means a company which- (a) is not a private company (b) has a minimum paid-up share capital as may be prescribed Provided that a company which is a subsidiary of a company not being a private company shall be deemed to be public company for the purposes of this Act even where such subsidiary company continues to be a private company in its articles.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	II 1	<b>Share Capital and Variation of rights</b>
<input type="checkbox"/>	<input type="checkbox"/>		<ul style="list-style-type: none"> <li>Subject to the provisions of the Act and these Articles the shares in the capital of the company shall be under the control of the Directors who may issue allot or otherwise dispose of the same or any of them to such persons in such proportion and on such terms and conditions and either at a premium or at par and at such time as they may from time to time think fit.</li> </ul>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	2	<ul style="list-style-type: none"> <li>Every person whose name is entered as a member in the register of members shall be entitled to receive within two months after incorporation in case of subscribers to the memorandum or after allotment or within one month after the application for the registration of transfer or transmission or within such other period as the conditions of issue shall be provided one certificate for all his shares without payment of any charges or several certificates each for one or more of his shares upon payment of twenty rupees for each certificate after the first. Every certificate shall be under the seal and shall specify the shares to which it relates and the amount paid - up thereon. In respect of any share or shares held</li> </ul>

		<p>jointly by several persons the company shall not be bound to issue more than one certificate and delivery of certificate for a share to one of several joint holders shall be sufficient delivery to all such holders.</p>
<input type="checkbox"/>	3	<ul style="list-style-type: none"> <li>If any share certificate be worn out defaced mutilated or torn or if there be no further space on the back for endorsement of transfer then upon production and surrender thereof to the company a new certificate may be issued in lieu thereof and if any certificate is lost or destroyed then upon proof thereof to the satisfaction of the company and on execution of such indemnity as the company deem adequate a new certificate in lieu thereof shall be given. Every certificate under this Article shall be issued on payment of twenty rupees for each certificate. The provisions of Articles(2) and(3) shall mutatis mutandis apply to debentures of the company.</li> </ul>
<input type="checkbox"/>	4	<ul style="list-style-type: none"> <li>Except as required by law no person shall be recognised by the company as holding any share upon any trust and the company shall not be bound by or be compelled in any way to recognise (even when having notice thereof) any equitable contingent future or partial interest in any share or any interest in any fractional part of a share or (except only as by these regulations or by law otherwise provided) any other rights in respect of any share except an absolute right to the entirety thereof in the registered holder.</li> </ul>
<input type="checkbox"/>	5	<ul style="list-style-type: none"> <li>The company may exercise the powers of paying commissions conferred by sub-section (6) of section 40 provided that the rate per cent or the amount of the commission paid or agreed to be paid shall be disclosed in the manner required by that section and rules made thereunder. The rate or amount of the commission shall not exceed the rate or amount prescribed in rules made under sub-section (6) of section 40. The commission may be satisfied by the payment of cash or the allotment of fully or partly paid shares or partly in the one way and partly in the other.</li> </ul>
<input type="checkbox"/>	6	<ul style="list-style-type: none"> <li>If at any time the share capital is divided into different classes of shares the rights attached to any class (unless otherwise provided by the terms of issue of the shares of that class) may subject to the provisions of section 48 and whether or not the company is being wound up be varied with the consent in writing of the holders of three-fourths of the issued shares of that class or with the sanction of a special resolution passed at a separate meeting of the holders of the shares of that class. To every such separate meeting the provisions of these regulations relating to general meetings shall mutatis mutandis apply but so that the necessary quorum shall be at least two persons holding at least one-third of the issued shares of the class in question.</li> </ul>
<input type="checkbox"/>	7	<ul style="list-style-type: none"> <li>The rights conferred upon the holders of the shares of any class issued with preferred or other rights shall not unless otherwise expressly provided by the terms of issue of the shares of that class be deemed to be varied by the creation or issue of (if the shares ranking pari passu therewith.</li> </ul>
<input type="checkbox"/>		<ul style="list-style-type: none"> <li>Subject to the provisions of section 55 any preference shares may with the sanction of an ordinary resolution</li> </ul>



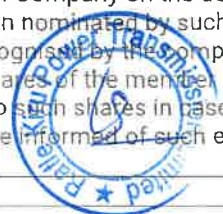


8			be issued on the terms that they are to be redeemed on such terms and in such manner as the company before the issue of the shares may by special resolution determine.
			<b>Lien</b>
<input type="checkbox"/>	<input type="checkbox"/>	9	<ul style="list-style-type: none"> <li>The company shall have a first and paramount lien on every share (not being a fully paid share) for all monies (whether presently payable or not) called or payable at a fixed time in respect of that share and on all shares (not being fully paid shares) standing registered in the name of a single person for all monies presently payable by him or his estate to the company Provided that the Board of directors may at any time declare any share to be wholly or in part exempt from the provisions of this clause. The companys lien if any on a share shall extend to all dividends payable and bonuses declared from time to time in respect of such shares.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	10	<ul style="list-style-type: none"> <li>The company may sell in such manner as the Board thinks fit any shares on which the company has a lien Provided that no sale shall be made unless a sum in respect of which the lien exists is presently payable or until the expiration of fourteen days after a notice in writing stating and demanding payment of such part of the amount in respect of which the lien exists as is presently payable has been given to the registered holder for the time being of the share or the person entitled thereto by reason of his death or insolvency.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	11	<ul style="list-style-type: none"> <li>To give effect to any such sale the Board may authorise some person to transfer the shares sold to the purchaser thereof The purchaser shall be registered as the holder of the shares comprised in any such transfer. The purchaser shall not be bound to see to the application of the purchase money nor shall his title to the shares be affected by any irregularity or invalidity in the proceedings in reference to the sale.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	12	<ul style="list-style-type: none"> <li>The proceeds of the sale shall be received by the company and applied in payment of such part of the amount in respect of which the lien exists as is presently payable. The residue if any shall subject to a like lien for sums not presently payable as existed upon the shares before the sale be paid to the person entitled to the shares at the date of the sale.</li> </ul>
			<b>Calls on shares</b>
<input type="checkbox"/>	<input type="checkbox"/>	13	<ul style="list-style-type: none"> <li>The Board may from time to time make calls upon the members in respect of any monies unpaid on their shares (whether on account of the nominal value of the shares or by way of premium) and not by the conditions of allotment thereof made payable at fixed times Provided that no call shall exceed one-fourth of the nominal value of the share or be payable at less than one month from the date fixed for the payment of the last preceding call. Each member shall subject to receiving at least fourteen days notice specifying the time or times and place of payment pay to the company at the time or times and place so specified the amount called on his shares. A call may be revoked or postponed at the discretion of the Board.</li> </ul>

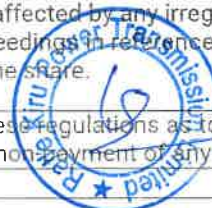


<input type="checkbox"/>	<input type="checkbox"/>	14	<ul style="list-style-type: none"> <li>A call shall be deemed to have been made at the time when the resolution of the Board authorizing the call was passed and may be required to be paid by instalments.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	15	<ul style="list-style-type: none"> <li>The joint holders of a share shall be jointly and severally liable to pay all calls in respect thereof.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	16	<ul style="list-style-type: none"> <li>If a sum called in respect of a share is not paid before or on the day appointed for payment thereof the person from whom the sum is due shall pay interest thereon from the day appointed for payment thereof to the time of actual payment at ten per cent per annum or at such lower rate if any as the Board may determine. The Board shall be at liberty to waive payment of any such interest wholly or in part.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	17	<ul style="list-style-type: none"> <li>Any sum which by the terms of issue of a share becomes payable on allotment or at any fixed date whether on account of the nominal value of the share or by way of premium shall for the purposes of these regulations be deemed to be a call duly made and payable on the date on which by the terms of issue such sum becomes payable. In case of non-payment of such sum all the relevant provisions of these regulations as to payment of interest and expenses forfeiture or otherwise shall apply as if such sum had become payable by virtue of a call duly made and notified.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	18	<ul style="list-style-type: none"> <li>The Board - a. may if it thinks fit receive from any member willing to advance the same all or any part of the monies uncalled and unpaid upon any shares held by him and b. upon all or any of the monies so advanced may (until the same would but for such advance become presently payable) pay interest at such rate not exceeding unless the company in general meeting shall otherwise direct twelve per cent per annum as may be agreed upon between the Board and the member paying the sum in advance.</li> </ul>
			<b>Transfer of shares</b>
<input type="checkbox"/>	<input type="checkbox"/>	19	<ul style="list-style-type: none"> <li>The instrument of transfer of any share in the company shall be executed by or on behalf of both the transferor and transferee. The transferor shall be deemed to remain a holder of the share until the name of the transferee is entered in the register of members in respect thereof.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	20	<ul style="list-style-type: none"> <li>The Board may subject to the right of appeal conferred by section 58 decline to register the transfer of a share not being a fully paid share to a person of whom they do not approve or any transfer of shares on which the company has a lien.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	21	<ul style="list-style-type: none"> <li>The Board may decline to recognise any instrument of transfer unless a. the instrument of transfer is in the form as prescribed in rules made under sub-section (1) of section 56b. the instrument of transfer is accompanied by the certificate of the shares to which it relates and such other evidence as the Board may reasonably require to show the right of the transferor to make the transfer and c. the instrument of transfer is in respect of only one class of shares.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>		<ul style="list-style-type: none"> <li>On giving not less than seven days previous notice in accordance with section 91 and rules made thereunder the registration of transfers may be suspended at such</li> </ul>

22			times and for such periods as the Board may from time to time determine Provided that such registration shall not be suspended for more than thirty days at any one time or for more than forty-five days in the aggregate in any year.
			<b>Transmission of shares</b>
<input type="checkbox"/>	<input type="checkbox"/>	23	<ul style="list-style-type: none"> <li>On the death of a member the survivor or survivors where the member was a joint holder and his nominee or nominees or legal representatives where he was a sole holder shall be the only persons recognised by the company as having any title to his interest in the shares Nothing in clause (i) shall release the estate of a deceased joint holder from any liability in respect of any share which had been jointly held by him with other persons.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	24	<ul style="list-style-type: none"> <li>Any person becoming entitled to a share in consequence of the death or insolvency of a member may upon such evidence being produced as may from time to time hereinafter provided elect either to be registered himself as holder of the share or to make such transfer of the share as the deceased or insolvent member could have made. The Board shall in either case have the same right to decline or suspend registration as it would have had if the deceased or insolvent member had transferred the share before his death or insolvency.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	25	<ul style="list-style-type: none"> <li>If the person so becoming entitled shall elect to be registered as holder of the share himself he shall deliver or send to the company a notice in writing signed by him stating that he so elects. If the person aforesaid shall elect to transfer the share he shall testify his election by executing a transfer of the share. All the limitations restrictions and provisions of these regulations relating to the right to transfer and the registration of transfers of shares shall be applicable to any such notice or transfer as aforesaid as if the death or insolvency of the member had not occurred and the notice or transfer were a transfer signed by that member.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	26	<ul style="list-style-type: none"> <li>A person becoming entitled to a share by reason of the death or insolvency of the holder shall be entitled to the same dividends and other advantages to which he would be entitled if he were the registered holder of the share except that he shall not before being registered as a member in respect of the share be entitled in respect of it to exercise any right conferred by membership in relation to meetings of the company Provided that the Board may at any time give notice requiring any such person to elect either to be registered himself or to transfer the share and if the notice is not complied with within ninety days the Board may thereafter withhold payment of all dividends bonuses or other monies payable in respect of the share until the requirements of the notice have been complied with.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>		
<input checked="" type="checkbox"/>	<input type="checkbox"/>		<ul style="list-style-type: none"> <li>In case of a One Person Company on the death of the sole member the person nominated by such member shall be the person recognised by the company as having title to all the shares of the member the nominee on becoming entitled to such shares in case of the members death shall be informed of such event by the</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>		



			Board of the company such nominee shall be entitled to the same dividends and other rights and liabilities to which such sole member of the company was entitled or liable on becoming member such nominee shall nominate any other person with the prior written consent of such person who shall in the event of the death of the member become the member of the company.
			<b>Forfeiture of shares</b>
<input type="checkbox"/>	<input type="checkbox"/>	28	<ul style="list-style-type: none"> <li>If a member fails to pay any call or instalment of a call on the day appointed for payment thereof the Board may at any time thereafter during such time as any part of the call or instalment remains unpaid serve a notice on him requiring payment of so much of the call or instalment as is unpaid together with any interest which may have accrued.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	29	<ul style="list-style-type: none"> <li>The notice aforesaid shall name a further day (not being earlier than the expiry of fourteen days from the date of service of the notice) on or before which the payment required by the notice is to be made and state that in the event of non-payment on or before the day so named the shares in respect of which the call was made shall be liable to be forfeited.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	30	<ul style="list-style-type: none"> <li>If the requirements of any such notice as aforesaid are not complied with any share in respect of which the notice has been given may at any time thereafter before the payment required by the notice has been made be forfeited by a resolution of the Board to that effect.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	31	<ul style="list-style-type: none"> <li>A forfeited share may be sold or otherwise disposed of on such terms and in such manner as the Board thinks fit. At any time before a sale or disposal as aforesaid the Board may cancel the forfeiture on such terms as it thinks fit.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	32	<ul style="list-style-type: none"> <li>A person whose shares have been forfeited shall cease to be a member in respect of the forfeited shares but shall notwithstanding the forfeiture remain liable to pay to the company all monies which at the date of forfeiture were presently payable by him to the company in respect of the shares. The liability of such person shall cease if and when the company shall have received payment in full of all such monies in respect of the shares.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	33	<ul style="list-style-type: none"> <li>A duly verified declaration in writing that the declarant is a director the manager or the secretary of the company and that a share in the company has been duly forfeited on a date stated in the declaration shall be conclusive evidence of the facts therein stated as against all persons claiming to be entitled to the share. The company may receive the consideration if any given for the share on any sale or disposal thereof and may execute a transfer of the share in favour of the person to whom the share is sold or disposed of. The transferee shall thereupon be registered as the holder of the share and the transferee shall not be bound to see to the application of the purchase money if any nor shall his title to the share be affected by any irregularity or invalidity in the proceedings in reference to the forfeiture sale or disposal of the share.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>		<ul style="list-style-type: none"> <li>The provisions of these regulations as to forfeiture shall apply in the case of non-payment of any sum which by</li> </ul>

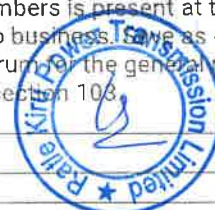




		34	the terms of issue of a share becomes payable at a fixed time whether on account of the nominal value of the share or by way of premium as if the same had been payable by virtue of a call duly made and notified.
			<b>Alteration of capital</b>
<input type="checkbox"/>	<input type="checkbox"/>	35	<ul style="list-style-type: none"> <li>The company may from time to time by ordinary resolution increase the share capital by such sum to be divided into shares of such amount as may be specified in the resolution.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	36	<ul style="list-style-type: none"> <li>Subject to the provisions of section 61 the company may by ordinary resolution consolidate and divide all or any of its share capital into shares of larger amount than its existing shares convert all or any of its fully paid-up shares into stock and reconvert that stock into fully paid-up shares of any denomination sub-divide its existing shares or any of them into shares of smaller amount than is fixed by the memorandum cancel any shares which at the date of the passing of the resolution have not been taken or agreed to be taken by any person.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	37	<ul style="list-style-type: none"> <li>Where shares are converted into stock the holders of stock may transfer the same or any part thereof in the same manner as and subject to the same regulations under which the shares from which the stock arose might before the conversion have been transferred or as near thereto as circumstances admit Provided that the Board may from time to time fix the minimum amount of stock transferable so however that such minimum shall not exceed the nominal amount of the shares from which the stock arose. the holders of stock shall according to the amount of stock held by them have the same rights privileges and advantages as regards dividends voting at meetings of the company and other matters as if they held the shares from which the stock arose but no such privilege or advantage (except participation in the dividends and profits of the company and in the assets on winding up) shall be conferred by an amount of stock which would not if existing in shares have conferred that privilege or advantage. such of the regulations of the company as are applicable to paid-up shares shall apply to stock and the words share and shareholder in those regulations shall include stock and stock-holder respectively.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	38	<ul style="list-style-type: none"> <li>The company may by special resolution reduce in any manner and with and subject to any incident authorised and consent required by law it share capital any capital redemption reserve account or any share premium account.</li> </ul>
			<b>Capitalisation of profits</b>
<input type="checkbox"/>	<input type="checkbox"/>		<ul style="list-style-type: none"> <li>The company in general meeting may upon the recommendation of the Board resolve that it is desirable to capitalise any part of the amount for the time being standing to the credit of any of the companys reserve accounts or to the credit of the profit and loss account or otherwise available for distribution and that such sum be accordingly set free for distribution in the manner specified in clause (ii) amongst the members who would have been entitled thereto if distributed by way of dividend and in the same proportions. The sum aforesaid shall not be paid in cash but shall be applied subject to</li> </ul>

39

			the provision contained in clause (iii) either in or towards paying up any amounts for the time being unpaid on any shares held by such members respectively paying up in full unissued shares of the company to be allotted and distributed credited as fully paid-up to and amongst such members in the proportions aforesaid partly in the way specified in sub-clause (A) and partly in that specified in sub-clause (B) A securities premium account and a capital redemption reserve account may for the purposes of this regulation be applied in the paying up of unissued shares to be issued to members of the company as fully paid bonus shares The Board shall give effect to the resolution passed by the company in pursuance of this regulation.
<input type="checkbox"/>	<input type="checkbox"/>	40	<ul style="list-style-type: none"> <li>Whenever such a resolution as aforesaid shall have been passed the Board shall make all appropriations and applications of the undivided profits resolved to be capitalised thereby and all allotments and issues of fully paid shares if any and generally do all acts and things required to give effect thereto. The Board shall have power to make such provisions by the issue of fractional certificates or by payment in cash or otherwise as it thinks fit for the case of shares becoming distributable in fractions and to authorise any person to enter on behalf of all the members entitled thereto into an agreement with the company providing for the allotment to them respectively credited as fully paid-up of any further shares to which they may be entitled upon such capitalisation or as the case may require for the payment by the company on their behalf by the application thereto of their respective proportions of profits resolved to be capitalised of the amount or any part of the amounts remaining unpaid on their existing shares Any agreement made under such authority shall be effective and binding on such members</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	41	<p><b>Buy-back of shares</b></p> <ul style="list-style-type: none"> <li>Notwithstanding anything contained in these articles but subject to the provisions of sections 68 to 70 and any other applicable provision of the Act or any other law for the time being in force the company may purchase its own shares or other specified securities.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	42	<p><b>General meetings</b></p> <ul style="list-style-type: none"> <li>All general meetings other than annual general meeting shall be called extraordinary general meeting.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	43	<ul style="list-style-type: none"> <li>The Board may whenever it thinks fit call an extraordinary general meeting. If at any time directors capable of acting who are sufficient in number to form a quorum are not within India any director or any two members of the company may call an extraordinary general meeting in the same manner as nearly as possible as that in which such a meeting may be called by the Board.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	44	<p><b>Proceedings at general meetings</b></p> <ul style="list-style-type: none"> <li>No business shall be transacted at any general meeting unless a quorum of members is present at the time when the meeting proceeds to business. Save as otherwise provided herein the quorum of the general meetings shall be as provided in section 103.</li> </ul>



<input type="checkbox"/>	<input type="checkbox"/>	45	<ul style="list-style-type: none"> <li>The chairperson if any of the Board shall preside as Chairperson at every general meeting of the company.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	46	<ul style="list-style-type: none"> <li>If there is no such Chairperson or if he is not present within fifteen minutes after the time appointed for holding the meeting or is unwilling to act as chairperson of the meeting the directors present shall elect one of their members to be Chairperson of the meeting.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	47	<ul style="list-style-type: none"> <li>If at any meeting no director is willing to act as Chairperson or if no director is present within fifteen minutes after the time appointed for holding the meeting the members present shall choose one of their members to be Chairperson of the meeting.</li> </ul>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	48	<ul style="list-style-type: none"> <li>In case of a One Person Company the resolution required to be passed at the general meetings of the company shall be deemed to have been passed if the resolution is agreed upon by the sole member and communicated to the company and entered in the minutes book maintained under section 118 such minutes book shall be signed and dated by the member the resolution shall become effective from the date of signing such minutes by the sole member.</li> </ul>
			<b>Adjournment of meeting</b>
<input type="checkbox"/>	<input type="checkbox"/>	49	<ul style="list-style-type: none"> <li>The Chairperson may with the consent of any meeting at which a quorum is present and shall if so directed by the meeting adjourn the meeting from time to time and from place to place. No business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place. When a meeting is adjourned for thirty days or more notice of the adjourned meeting shall be given as in the case of an original meeting. Save as aforesaid and as provided in section 103 of the Act it shall not be necessary to give any notice of an adjournment or of the business to be transacted at an adjourned meeting.</li> </ul>
			<b>Voting rights</b>
<input type="checkbox"/>	<input type="checkbox"/>	50	<ul style="list-style-type: none"> <li>Subject to any rights or restrictions for the time being attached to any class or classes of shares on a show of hands every member present in person shall have one vote and on a poll the voting rights of members shall be in proportion to his share in the paid-up equity share capital of the company.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	51	<ul style="list-style-type: none"> <li>A member may exercise his vote at a meeting by electronic means in accordance with section 108 and shall vote only once.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	52	<ul style="list-style-type: none"> <li>In the case of joint holders the vote of the senior who tenders a vote whether in person or by proxy shall be accepted to the exclusion of the votes of the other joint holders. For this purpose seniority shall be determined by the order in which the names stand in the register of members.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	53	<ul style="list-style-type: none"> <li>A member of unsound mind or in respect of whom an order has been made by any court having jurisdiction in lunacy may vote whether on a show of hands or on a poll by his committee or other legal guardian and by such committee or guardian may on a poll vote by proxy.</li> </ul>





<input type="checkbox"/>	<input type="checkbox"/>	54	<ul style="list-style-type: none"> <li>Any business other than that upon which a poll has been demanded maybe proceeded with pending the taking of the poll.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	55	<ul style="list-style-type: none"> <li>No member shall be entitled to vote at any general meeting unless all calls or other sums presently payable by him in respect of shares in the company have been paid</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	56	<ul style="list-style-type: none"> <li>No objection shall be raised to the qualification of any voter except at the meeting or adjourned meeting at which the vote objected to is given or tendered and every vote not disallowed at such meeting shall be valid for all purposes. Any such objection made in due time shall be referred to the Chairperson of the meeting whose decision shall be final and conclusive.</li> </ul>
			<b>Proxy</b>
<input type="checkbox"/>	<input type="checkbox"/>	57	<ul style="list-style-type: none"> <li>The instrument appointing a proxy and the power-of-attorney or other authority if any under which it is signed or a notarised copy of that power or authority shall be deposited at the registered office of the company not less than 48 hours before the time for holding the meeting or adjourned meeting at which the person named in the instrument proposes to vote or in the case of a poll not less than 24 hours before the time appointed for the taking of the poll and in default the instrument of proxy shall not be treated as valid.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	58	<ul style="list-style-type: none"> <li>An instrument appointing a proxy shall be in the form as prescribed in the rules made under section 105</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	59	<ul style="list-style-type: none"> <li>A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity of the principal or the revocation of the proxy or of the authority under which the proxy was executed or the transfer of the shares in respect of which the proxy is given Provided that no intimation in writing of such death insanity revocation or transfer shall have been received by the company at its office before the commencement of the meeting or adjourned meeting at which the proxy is used.</li> </ul>
			<b>Board of Directors</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>		<ul style="list-style-type: none"> <li>The day to day management of the business of the Company Shall be vested with the Board of Directors of the Company or Such persons as may be authorized by the Board from time to time The Board may exercise all such powers of the Company and do all such acts deeds and things as are not prohibited by the Act or any other law for the time being in force or by the Memorandum of Association of a Company and without prejudice to the foregoing shall be responsible for all policy matters and the supervision direction and control of the conduct of the business affairs and operations of the Company The first Directors of the Company shall be 1. ALOK SINGH 2. MUKUL AGARWAL 3. NEERAJKUMAR VIJAY SHARMA ii at every annual general meeting One third of such of the directors for the time being as are liable to retire by rotation or if their number is neither three nor a multiple of Three then the number nearest to one third shall retire from Office The directors to retire by rotation at every annual general Meeting shall be those who have been longest in office since their last</li> </ul>



		60	<p>appointment but as between persons who became directors on the sameday those who are to retire shall in default of and subjecttoany subject to any agreement among themselves be date remined by loti at annualgeneral meeting at which a director retires as afore said the company may fillup the vacancy by appointing their tiring director or some other person thereto The Board of Directors of the Company shall consist of not less than but notmore than Directors The appointment of Directors including the ChairmanManaging Director Whole Time Director Part time Director shallbe done in the General Meetings in accordance with the provisions of theCompanies Act and Rules made there under and shall be eligible for appointmentHowever till the Company is a Government Company REC Power Development andConsultancy Limited RECPDCL the holding company shall have the full powers to recommendnominate the name of any Directors to be appointed on the Board of the CompanyFurther RECPDCL shall also have the power to remove any director from office atany time in its absolute discretion RECPDCL shall also have the right to fillany vacancies in the office of director caused by removal resignation death or otherwiseSubject to provisions of the Act the Company may bypassing their solution inGeneral Meeting increased crease the maximum number of Directors and may altertheir qualification Further the Company may subject to the provisions of theAct remove any Director before the expiration of his period of office and appointanother person in place of him The Board may appoint any person to act asalternate director for a Director during the later s absence for a period ofnot less than three months from India and such appointment shall have effectand such appointee whilst he holds office as an alternate director shall beentitled to notice of meetingof the Board and to attend and vote there at accordingly but he shall notrequire any qualification and shall ipso facto vacate office if and when theabsent Director returns to India Casual vacanciesamong Directors may be filled by the Board of Directors at their meeting andany person so appointed shall hold the office as per the provision of sectionof the Act Subject to the provisions ofSectionand other applicable provisions if any of the Act the Board shall have power atany time and from time to time to appoint a person as an Additional Directorbut so that the total number of Directors shall not at any time exceed themaximum number fixed by these Articles The Additional Director so appointedshall retirefromOffice at next annual General Meeting but shall be eligible for election by thecompany at that meeting as a Director</p>
<input type="checkbox"/>	<input type="checkbox"/>	61	<ul style="list-style-type: none"> <li>The remuneration of the directors shall in so far as it consists of a monthly payment be deemed to accrue from day-to-day. In addition to the remuneration payable to them in pursuance of the Act the directors may be paid all travelling hotel and other expenses properly incurred by them in attending and returning from meetings of the Board of Directors or any committee thereof or general meetings of the company or in connection with the business of the company.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	62	<ul style="list-style-type: none"> <li>The Board may pay all expenses incurred in getting the company registered and registering the company.</li> </ul>



<input type="checkbox"/>	<input type="checkbox"/>	63	<ul style="list-style-type: none"> <li>The company may exercise the powers conferred on it by section 88 with regard to the keeping of a foreign register and the Board may (subject to the provisions of that section) make and vary such regulations as it may think fit respecting the keeping of any such register.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	64	<ul style="list-style-type: none"> <li>All cheques promissory notes drafts hundis bills of exchange and other negotiable instruments and all receipts for monies paid to the company shall be signed drawn accepted endorsed or otherwise executed as the case may be by such person and in such manner as the Board shall from time to time by resolution determine</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	65	<ul style="list-style-type: none"> <li>Every director present at any meeting of the Board or of a committee thereof shall sign his name in a book to be kept for that purpose.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	66	<ul style="list-style-type: none"> <li>Subject to the provisions of section 149 the Board shall have power at any time and from time to time to appoint a person as an additional director provided the number of the directors and additional directors together shall not at any time exceed the maximum strength fixed for the Board by the articles. Such person shall hold office only up to the date of the next annual general meeting of the company but shall be eligible for appointment by the company as a director at that meeting subject to the provisions of the Act.</li> </ul>
<b>Proceedings of the Board</b>			
<input type="checkbox"/>	<input type="checkbox"/>	67	<ul style="list-style-type: none"> <li>The Board of Directors may meet for the conduct of business adjourn and otherwise regulate its meetings as it thinks fit. A director may and the manager or secretary on the requisition of a director shall at any time summon a meeting of the Board.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	68	<ul style="list-style-type: none"> <li>Save as otherwise expressly provided in the Act questions arising at any meeting of the Board shall be decided by a majority of votes. In case of an equality of votes the Chairperson of the Board if any shall have a second or casting vote.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	69	<ul style="list-style-type: none"> <li>The continuing directors may act notwithstanding any vacancy in the Board but if and so long as their number is reduced below the quorum fixed by the Act for a meeting of the Board the continuing directors or director may act for the purpose of increasing the number of directors to that fixed for the quorum or of summoning a general meeting of the company but for no other purpose.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	70	<ul style="list-style-type: none"> <li>The Board may elect a Chairperson of its meetings and determine the period for which he is to hold office. If no such Chairperson is elected or if at any meeting the Chairperson is not present within five minutes after the time appointed for holding the meeting the directors present may choose one of their number to be Chairperson of the meeting</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	71	<ul style="list-style-type: none"> <li>The Board may subject to the provisions of the Act delegate any of its powers to committees consisting of such member or members of its body as it thinks fit. Any committee so formed shall in the exercise of the powers so delegated conform to any regulations that may be imposed on it by the Board.</li> </ul>



<input type="checkbox"/>	<input type="checkbox"/>	72	<ul style="list-style-type: none"> <li>A committee may elect a Chairperson of its meetings. If no such Chairperson is elected or if at any meeting the Chairperson is not present within five minutes after the time appointed for holding the meeting the members present may choose one of their members to be Chairperson of the meeting.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	73	<ul style="list-style-type: none"> <li>A committee may meet and adjourn as it thinks fit. Questions arising at any meeting of a committee shall be determined by a majority of votes of the members present and in case of an equality of votes the Chairperson shall have a second or casting vote.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	74	<ul style="list-style-type: none"> <li>All acts done in any meeting of the Board or of a committee thereof or by any person acting as a director shall notwithstanding that it may be afterwards discovered that there was some defect in the appointment of any one or more of such directors or of any person acting as aforesaid or that they or any of them were disqualified be as valid as if every such director or such person had been duly appointed and was qualified to be a director.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	75	<ul style="list-style-type: none"> <li>Save as otherwise expressly provided in the Act a resolution in writing signed by all the members of the Board or of a committee thereof for the time being entitled to receive notice of a meeting of the Board or committee shall be valid and effective as if it had been passed at a meeting of the Board or committee duly convened and held.</li> </ul>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	76	<ul style="list-style-type: none"> <li>In case of a One Person Company where the company is having only one director all the businesses to be transacted at the meeting of the Board shall be entered into minutes book maintained under section 118 such minutes book shall be signed and dated by the director the resolution shall become effective from the date of signing such minutes by the director.</li> </ul>
			<b>Chief Executive Officer, Manager, Company Secretary or Chief Financial Officer</b>
<input type="checkbox"/>	<input type="checkbox"/>	77	<ul style="list-style-type: none"> <li>Subject to the provisions of the Act A chief executive officer manager company secretary or chief financial officer may be appointed by the Board for such term at such remuneration and upon such conditions as it may think fit and any chief executive officer manager company secretary or chief financial officer so appointed may be removed by means of a resolution of the Board A director may be appointed as chief executive officer manager company secretary or chief financial officer</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	78	<ul style="list-style-type: none"> <li>A provision of the Act or these regulations requiring or authorising a thing to be done by or to a director and chief executive officer manager company secretary or chief financial officer shall not be satisfied by its being done by or to the same person acting both as director and as or in place of chief executive officer manager company secretary or chief financial officer.</li> </ul>
			<b>The Seal</b>
<input type="checkbox"/>	<input type="checkbox"/>		<ul style="list-style-type: none"> <li>The Board shall provide for the safe custody of the seal. The seal of the company shall not be affixed to any instrument except by the authority of a resolution of the Board or of a committee of the Board authorised by it in</li> </ul>





79

			that behalf and except in the presence of at least two directors and of the secretary or such other person as the Board may appoint for the purpose and those two directors and the secretary or other person aforesaid shall sign every instrument to which the seal of the company is so affixed in their presence.
			<b>Dividends and Reserve</b>
<input type="checkbox"/>	<input type="checkbox"/>	80	<ul style="list-style-type: none"> <li>The company in general meeting may declare dividends but no dividend shall exceed the amount recommended by the Board.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	81	<ul style="list-style-type: none"> <li>Subject to the provisions of section 123 the Board may from time to time pay to the members such interim dividends as appear to it to be justified by the profits of the company.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	82	<ul style="list-style-type: none"> <li>The Board may before recommending any dividend set aside out of the profits of the company such sums as it thinks fit as a reserve or reserves which shall at the discretion of the Board be applicable for any purpose to which the profits of the company may be properly applied including provision for meeting contingencies or for equalizing dividends and pending such application may at the like discretion either be employed in the business of the company or be invested in such investments (other than shares of the company) as the Board may from time to time think fit. The Board may also carry forward any profits which it may consider necessary not to divide without setting them aside as a reserve</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	83	<ul style="list-style-type: none"> <li>Subject to the rights of persons if any entitled to shares with special rights as to dividends all dividends shall be declared and paid according to the amounts paid or credited as paid on the shares in respect whereof the dividend is paid but if and so long as nothing is paid upon any of the shares in the company dividends may be declared and paid according to the amounts of the shares. No amount paid or credited as paid on a share in advance of calls shall be treated for the purposes of this regulation as paid on the share. All dividends shall be apportioned and paid proportionately to the amounts paid or credited as paid on the shares during any portion or portions of the period in respect of which the dividend is paid but if any share is issued on terms providing that it shall rank for dividend as from a particular date such share shall rank for dividend accordingly.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	84	<ul style="list-style-type: none"> <li>The Board may deduct from any dividend payable to any member all sums of money if any presently payable by him to the company on account of calls or otherwise in relation to the shares of the company.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	85	<ul style="list-style-type: none"> <li>Any dividend interest or other monies payable in cash in respect of shares may be paid by cheque or warrant sent through the post directed to the registered address of the holder or in the case of joint holders to the registered address of that one of the joint holders who is first named on the register of members or to such person and to such address as the holder or joint holders may in writing direct. Every such cheque or warrant shall be made payable to the order of the person to whom it is sent.</li> </ul>



<input type="checkbox"/>	<input type="checkbox"/>	86	<ul style="list-style-type: none"> <li>Any one of two or more joint holders of a share may give effective receipts for any dividends bonuses or other monies payable in respect of such share.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	87	<ul style="list-style-type: none"> <li>Notice of any dividend that may have been declared shall be given to the persons entitled to share therein in the manner mentioned in the Act.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	88	<ul style="list-style-type: none"> <li>No dividend shall bear interest against the company.</li> </ul>
			<b>Accounts</b>
<input type="checkbox"/>	<input type="checkbox"/>	89	<ul style="list-style-type: none"> <li>The Board shall from time to time determine whether and to what extent and at what times and places and under what conditions or regulations the accounts and books of the company or any of them shall be open to the inspection of members not being directors. No member (not being a director) shall have any right of inspecting any account or book or document of the company except as conferred by law or authorised by the Board or by the company in general meeting.</li> </ul>
			<b>Winding up</b>
<input type="checkbox"/>	<input type="checkbox"/>	90	<ul style="list-style-type: none"> <li>Subject to the provisions of Chapter XX of the Act and rules made thereunder If the company shall be wound up the liquidator may with the sanction of a special resolution of the company and any other sanction required by the Act divide amongst the members in specie or kind the whole or any part of the assets of the company whether they shall consist of property of the same kind or not. For the purpose aforesaid the liquidator may set such value as he deems fair upon any property to be divided as aforesaid and may determine how such division shall be carried out as between the members or different classes of members. The liquidator may with the like sanction vest the whole or any part of such assets in trustees upon such trusts for the benefit of the contributories if he considers necessary but so that no member shall be compelled to accept any shares or other securities whereon there is any liability.</li> </ul>
			<b>Indemnity</b>
<input type="checkbox"/>	<input type="checkbox"/>	91	<ul style="list-style-type: none"> <li>Every officer of the company shall be indemnified out of the assets of the company against any liability incurred by him in defending any proceedings whether civil or criminal in which judgment is given in his favour or in which he is acquitted or in which relief is granted to him by the court or the Tribunal.</li> </ul>
			<b>Others</b>
<input type="checkbox"/>	<input type="checkbox"/>	92	<ul style="list-style-type: none"> <li></li> </ul>

**Subscriber Details**

S. No.	Subscriber Details				
	*Name, Address, Description and Occupation	DIN / PAN / Passport number	*Place	DSC	Dated
1	REC POWER DEVELOPMENT AND CONSULTANCY LIMI	0*7*2*1*	NEW DELHI		18/10/2024



	TED, CORE-4, SCOPE COMPLEX, 7, LODHI ROAD, NEW DELHI- 110003, THROUGH ITS CEO THANGARAJAN SUBASH CHANDIRA BOSH S/O SITHAN THANGARAJAN R/O APARTMENT NO S-2, MIDDLE PORTION 2-B, JANGPURA, MATHURA ROAD, NEW DELHI-110014, OCCUPATION-SERVICE				
2	JASPAL SINGH KUSHWAHA S/O MITHAI LAL KUSHWAHA NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O C-64/FIRST FLOOR, JVT'S GARDEN CHATTARPUR EXTENSION South West Delhi 110074 OCCUPATION-SERVICE	1*3*2*3*	NEW DELHI		18/10/2024
3	SATYABAN SAHOO S/O MAHENDRA NATH SAHOO NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O FLAT NO. B235 VASANT APARTMENT GURGAON HARYANA-122001 OCCUPATION-SERVICE	A*K*S*0*9*	NEW DELHI		18/10/2024
4	CHILAKAMARRI VENKATALAKSHMANA CHARYULU S/O SHRIMANNARAYAN CHARYULU CHILKAMARRI NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O PLOT NO. 1, NORTHSTAR AIRPORT BOULEVARD, TUKKAGUDA, MAHESHARAM MANDAL, RANGAREDDY DISTRICT, ANDHRA PRADESH-501359, OCCUPATION-SERVICE	1*7*2*3*	NEW DELHI		18/10/2024
5	ARVIND KUMAR S/O NAND KISHOR SINGH NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O T4-8A, SAI VATIKA APARTMENT, SECTOR-63, FARIDABAD - 121004, OCCUPATION-SERVICE	1*3*2*3*	NEW DELHI		18/10/2024
6	ANIL KUMAR PERALA S/O VENKATESHAM NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O A302 TARIKA APARTMENT, SECTOR-43 GURGAON HARYANA-122001 OCCUPATION-SERVICE	B*V*P*1*2*	NEW DELHI		18/10/2024
7	MUKUL AGARWAL S/O SHRI RAJESH KUMAR NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O HOUSE NO. 767,	1*3*2*8*	NEW DELHI		18/10/2024





SECOND FLOOR, ANSAL 2  
 BLOCK, NEAR WATER TANK  
 ANSAL PLAZA, SECTOR 3 P  
 ALAM VIHAR, GURGAON - 1  
 22017, HARYANA OCCUPAT  
 ION-SERVICE

Signed before me

Name Prefix (ACA/FCA/ACS/ FCS/ACMA/ FCMA)	*Name of the witness	*Address, Description and Occupation	*DIN / PAN / Passport number / Membership	*Place	DSC	Dated
FCA	VINAY KUM AR	A-805, NX BYTE T-3, NX ONE, TE CH ZONE - IV, G REATER NOIDA WEST -201318	4*2*9*	NEW DELH I	Vinay Kumer Kumar	18/10/2024





## Annexure P-3

49



सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केंद्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग- II

Power System Planning &amp; Appraisal Division-II

सेवा में / o

As per list of Addresses

विषय: ट्रांसमिशन पर राष्ट्रीय समिति (एनसीटी) की बीसवीं बैठक के कार्यवृत्त - के सम्बन्ध में ।

Subject: Minutes of the 20<sup>th</sup> Meeting of National Committee on Transmission (NCT) – regarding.

महोदया (Madam) / महोदय (Sir),

The 20<sup>th</sup> meeting of the "National Committee on Transmission" (NCT) was held on 5<sup>th</sup> June, 2024 at CEA, New Delhi. Minutes of the meeting are enclosed herewith.

भवदीय/Yours faithfully,

Signed by Bhagwan Sahay  
Bairwa

Date: 13-07-2024 19:08:07

(बी.एस. बैरवा/ B.S. Bairwa)

मुख्य अभियन्ता (इंचार्ज) एवं सदस्य सचिव, एन.सी.टी./  
Chief Engineer

प्रतिलिपि / Copy to:

Joint Secretary (Trans), Ministry of Power, New Delhi-110001



**List of Addresses:**

1.	Chairperson, Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	2.	Member (Power Systems), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.
3.	Member (Economic & Commercial), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	4.	Director (Trans), Ministry of Power Shram Shakti Bhawan, New Delhi-110001.
5.	Sh. Lalit Bohra, Joint Secretary Room no 602, Atal Akshay Urja Bhawan Opposite CGO Complex gate No. 2, Lodhi Road, New Delhi – 110003	6.	Chief Operating Officer, CTUIL, Saudamini, Plot No. 2, Sector-29, Gurgaon – 122 001.
7.	Sh. Rajnath Ram, Adviser (Energy), NITI Aayog, Parliament Street, New Delhi – 110 001.	8.	CMD, Grid Controller of India, B-9, Qutub Institutional Area,
9.	Sh. Ravinder Gupta Ex. Chief Engineer CEA		

**Special Invitee**

Chief Engineer (PCD), CEA



**Table of Agenda**

1	Confirmation of the minutes of the 19 <sup>th</sup> meeting of National Committee on Transmission.	1
2	Status of the transmission schemes noted/approved/recommended to MoP in the 18 <sup>th</sup> meeting of NCT:	1
3	Modifications in the earlier approved/notified transmission schemes:	3
4	New Transmission and Communications Schemes:	12
5	Transmission System for integration of Nizamabad, Medak and Rangareddy REZs in Telangana	42
6	Status of the bids under process by BPCs	43
	Summary of the deliberations of the 20 <sup>th</sup> meeting of NCT held on 25 <sup>th</sup> June, 2024	44



**Minutes of the 20<sup>th</sup> meeting of National Committee on Transmission (NCT)**

The 20<sup>th</sup> meeting of NCT was held on 25<sup>th</sup> June, 2024 at CEA, New Delhi. List of participants is enclosed at **Annexure-I**. Agenda wise deliberations are given below.

**1 Confirmation of the minutes of the 19<sup>th</sup> meeting of National Committee on Transmission.**

1.1 The minutes of the 19<sup>th</sup> meeting of NCT held on 29.04.2024 were issued vide CEA letter no CEA-PS-12-13/3/2019-PSPA-II dated 28.05.2024. No comments were received on the minutes.

1.2 Members confirmed the minutes.

**2 Status of the transmission schemes noted/approved/recommended to MoP in the 18<sup>th</sup> meeting of NCT:**

**2.1 Status of new transmission schemes approved/recommended:**

Sr. No	Name of the Transmission Scheme	Noted/ Recommended/ Approved	Mode of Implementation	BPC	Award/ Gazette notification
1.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-4 :3.5 GW): Part A	Recommended	TBCB	RECPDCL	Notified in Gazette by Ministry of Power on 14.06.2024
2.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-4 :3.5 GW): Part B	Recommended	TBCB	RECPDCL	
3.	System strengthening at Koppal-II and Gadag-II for integration of RE generation projects	Recommended	TBCB	PFCCCL	
4.	Transmission system strengthening to facilitate evacuation of power from Bhadla/Bikaner complex	Approved	TBCB	PFCCCL	Notified in Gazette by CEA on 18.06.2024
5.	OPGW installation on existing 400 kV Kurukshetra - Malerkotla line	Approved		Not Applicable	CEA intimated to CTUIL on 28.05.2024. CTUIL vide



Sr. No	Name of the Transmission Scheme	Noted/ Recommended/ Approved	Mode of Implementation	BPC	Award/ Gazette notification
	alongwith FOTE at both ends Part – A				letter dated 29.05.2024 informed to respective implementing agencies.
6.	OPGW installation on existing 400 kV Kurukshetra - Malerkotla line alongwith FOTE at both ends – Part-B	Approved	RTM	Not applicable	
7.	OPGW installation on existing 400 kV Kota – Merta line alongwith LILO portion at Shree Cement including FOTE at all 3 locations	Approved	RTM	Not applicable	
8.	OPGW installation on one circuit of existing of 765 kV Fatehpur-Agra D/c (2x S/c) Line which is to be LILOed at new Ghiror S/s (ISTS) including FOTE at Fatehpur & Agra locations (2 Nos.)	Approved	RTM	Not applicable	
9.	Supply and installation of OPGW on 400 kV Fatehgarh-I (Adani) - Fatehgarh-II (PG) line (6.5 kms.) upto LILO portion of Fatehgarh-II (PG).	Approved		Not applicable	
10.	Additional FOTE /Cards in view of resource disjoint and critical locations (12 Nos. of FOTE)	Approved	RTM	Not applicable	
11.	Supply and Installation of 11 Nos. FOTE at Backup SLDCs in Northern Region & Backup NRLDC (Guwahati)	Approved	RTM	Not applicable	





2.2 Status of transmission schemes where modifications was suggested by NCT:

S. No.	Scheme where modifications was suggested	Status
1.	Implementation of Jhatikara – Dwarka 400 kV (Quad) D/c line under Rajasthan REZ Ph-III, Part-D- Ph-II Scheme	CTUIL vide letter dated 29.05.2024 informed to implementing agency, i.e. POWERGRID
2.	Delinking of EHVAC System beyond Kaithal from Transmission system for evacuation of RE power from renewable energy parks in Leh (5 GW Leh-Kaithal transmission corridor)	MoP issued O.M. dated 18.06.2024
3.	Change in Scope of transmission scheme "Eastern Region Expansion Scheme- XXXIV (ERES-XXXIV)"	Informed to PFCCL vide letter dated 28.05.2024
4.	Change in implementation timeframe of Eastern Region Generation Scheme-I (ERGS-I)	Informed to PFCCL vide letter dated 28.05.2024

2.3 Members noted the status.

**3 Modifications in the earlier approved/notified transmission schemes:**

**3.1 Augmentation of transformation capacity at Jam Khambhaliya PS (JKTL) – PART-B**

3.1.1 Augmentation of transformation capacity at Jam Khambhaliya PS (JKTL)- PART B was approved in the 18<sup>th</sup> meeting of the "National Committee on Transmission" (NCT) held on 05<sup>th</sup> March, 2024, with cost estimate of INR 310 Cr. under TBCB route with PFCCL as the BPC as mentioned below

Sl. No.	Scope of the Transmission Scheme	Capacity /km
1.	Creation of New 220 kV Bus Section-II at Jam Khambhaliya PS  Space to be kept for 1 No. 220 kV line bay in the same GIS Hall for RE Interconnection being implemented by the RE developer (in addition to 2 Nos. bays at Sl. 4)	220 kV Bus sectionaliser bay - 1 Set (to be kept normally CLOSED and may be opened based on system requirement) 220 kV BC – 1 No.
2.	Augmentation of transformation capacity at Jam Khambhaliya PS (GIS) by 2x500 MVA, 400/220 kV ICT (5th & 6th)	500 MVA, 400/220 kV ICTs: 2 Nos. 400 kV ICT bays: NIL* 220 kV ICT bays: 2 Nos.



Sl. No.	Scope of the Transmission Scheme	Capacity /km
	(terminated on New 220 kV bus section-II)	
3.	Augmentation of transformation capacity at Jam Khambhaliya PS (GIS) by 1x500 MVA, 400/220 kV ICT (7 <sup>th</sup> ) (terminated on New 220 kV bus section-II)	500 MVA, 400/220 kV ICTs: 1 No. 400 kV ICT bay: NIL (bay being implemented under Jamnagar scheme, which is currently under tendering, with schedule of Apr/May-26). Bus duct outside GIS hall along with termination equipment shall be provided. 220 kV ICT bay: 1 No.
4.	Implementation of 220 kV GIS line bays at Jam Khambhaliya PS for RE Projects on New 220 kV bus section-II	220 kV line bay – 2 No. (GIS) (1 for ACME Sun Power Pvt Ltd and 1 for Juniper Green Energy Pvt Ltd.)
5.	Creation of New 220 kV Bus Section at Jam Khambhaliya PS (Section III)  (with space for 4 Nos. 220 kV line bays: in same GIS hall. Implementation of 2 Nos. GIS bays to be taken up as per Sl.No.8 and space to be kept for future 2 Nos.)	220 kV Bus sectionaliser bay - 1 Set <i>(to be kept normally OPEN and may be closed based on system requirement)</i>  220 kV BC – 1 No.
6.	Augmentation of transformation capacity at Jam Khambhaliya PS (GIS) by 1x500 MVA, 400/220 kV ICT (8 <sup>th</sup> ) (terminated on New 220 kV bus section-III)	500 MVA, 400/220 kV ICT: 1 Nos. 400 kV ICT bay: NIL (bay being implemented under Jamnagar scheme, which is currently under tendering, with schedule of Apr/May-26). Bus duct outside GIS hall along with termination equipment shall be provided. 220 kV ICT bay: 1 No.
7.	Augmentation of transformation capacity at Jam Khambhaliya PS (GIS) by 1x500 MVA, 400/220 kV (9 <sup>th</sup> ) ICT terminated on New 220 kV bus section-III	500 MVA, 400/220 kV ICTs: 1 No. 400 kV ICT bays: 1 No. (TSP to implement complete dia. in all respect with the other 400 kV bay to be utilized by EETFEL (Bulk consumer)) 220 kV ICT bays: 1 No.



Sl. No.	Scope of the Transmission Scheme	Capacity /km
8.	Implementation of 220 kV GIS line bays at Jam Khambhaliya PS for Kuvadadia 220 kV D/c line	220 kV line bay – 2 Nos. (GIS) (on Bus Section-III)
<p><i>Note:</i></p> <p>1. JKTL to provide space for above scope of work.</p> <p>2. GETCO shall implement Jam Khambhaliya PS - Kuvadadia 220 kV D/c line in matching time-frame</p>		
<p><i>*Note: Termination of the 2x500 MVA ICTs under present scope shall be in the '2' separate dia's which are being developed by POWERGRID for RIL for termination of 400 kV Jam Khambhaliya - Jamnagar D/c line. TSP shall implement 400 kV side GIS Duct required for interconnection of ICT-5 &amp; 6 at 400 kV Jam Khambhaliya PS [length is approx. 350 M. (Actual length shall be finalized based upon final layout)] along with associated equipment as required</i></p>		
<p>Tentative implementation timeframe:</p> <ul style="list-style-type: none"> <li>For scope at Sl. No. 1: 18 months</li> <li>For scope at Sl. No. 3 &amp; 6: Matching with SCOD of 400 kV bays at Jam Khambhaliya PS (being implemented under "Network Expansion scheme in Gujarat for drawl of about 3.6 GW load under Phase-I in Jamnagar area" scheme which is currently under tendering) and subject to minimum implementation schedule of 21 months.</li> <li>For scope at Sl. No. 4: 30.03.2026 and 30.06.2027 respectively (subject to minimum schedule of 21 months from date of award of balance works).</li> <li>For balance scope: 21 months</li> </ul>		

- 3.1.2 Representative of CTUIL mentioned that Mounting Renewable Pvt Ltd (MRPL) vide letter dated 07.05.2024 has informed them that the 220 kV bay which they had initially decided to implement themselves, may be implemented under ISTS in matching timeframe of implementation of the subject ISTS scheme. Further, M/s EETFEL (Bulk Consumer) has withdrawn their GNA application vide letter dated 30.04.2024.
- 3.1.3 CTUIL proposed that 1 No. 220 kV bay for M/s MRPL on Bus Section-II may be added to the approved scope of works and references to EETFEL in scope of work may be removed. Further, implementation time-frame of Creation of New 220 kV Bus Section-II at Jam Khambhaliya PS may also be kept as 21 months instead of 18 months.
- 3.1.4 The tentative cost of the original scheme was Rs. 310 Cr., however, the same has been revised to Rs. 321 Cr. based on finalised cost of original scheme. Further, with the



above additional 1 No. 220 kV bay (Cost ~8 Cr.), revised cost of the scheme comes out to be Rs. 329 Cr. which is an increase of about 6%.

3.1.5 After deliberations, NCT approved the following modifications in the scope at Sl. 1, 2, 4 & 7 of the transmission scheme “Augmentation of transformation capacity at Jam Khambhaliya PS (JKTL)- PART-B”.

<i>Sl.</i>	<i>Scope of the Transmission</i>	<i>Capacity /km</i>	<i>Implementation Time-</i>
1	Creation of New 220 kV Bus Section-II at Jam Khambhaliya PS	220 kV Bus sectionaliser bay – 1 Set  (to be kept normally CLOSED and may be opened based on system requirement)  220 kV BC – 1 No.	21 months
2	Augmentation of transformation capacity at Jam Khambhaliya PS (GIS) by 2x500 MVA, 400/220 kV ICT (5th & 6th) (terminated on New 220 kV bus section-II)	500 MVA, 400/220 kV ICTs: 2 Nos. 400 kV ICT bays: NIL* 220 kV ICT bays: 2 Nos.  Bus duct outside GIS hall along with termination equipment shall be provided.	No change
4	Implementation of 220 kV GIS line bays at Jam Khambhaliya PS for RE Projects on New 220 kV bus section-II	220 kV line bay – 3 Nos. (GIS)  (1 for ACME Sun Power Pvt Ltd, 1 for Juniper Green Energy Pvt Ltd. & 1 no. for Mounting (MRPL))	<b>MRPL Bay: 21 months</b>  <b>ACME Bay: 21 months#</b>  <b>Juniper Bay:</b> Jun-27 subject to minimum schedule of 21 months from date of award of balance works.
7	Augmentation of transformation capacity at Jam Khambhaliya PS (GIS) by 1x500 MVA, 400/220 kV	500 MVA, 400/220 kV ICTs: 1 No.  400 kV ICT bay: 1 No. (TSP to implement complete dia. in all respects)	No change



(9th) ICT terminated on New 220 kV bus section-III	with the other 400 kV bay to be utilized by <del>EETTEL</del> ( <del>Bulk consumer</del> ) in future) 220 kV ICT bay: 1 No.	
--	--	--

*\*Note: Termination of the 2x500 MVA ICTs under present scope shall be in the '2' separate dia's which are being developed by POWERGRID for RIL for termination of 400 kV Jam Khambaliya - Jamnagar D/c line. TSP shall implement 400 kV side GIS Duct required for interconnection of ICT-5 & 6 at 400 kV Jam Khambaliya PS [length is approx. 350 M. (Actual length shall be finalized based upon final layout)] along with associated equipment as required*

*# Earlier schedule was specified as March-26 subject to minimum schedule of 21 months from date of award of balance works. However, considering present status, schedule of 21 months may directly be specified.*

### 3.2 Modification in design / layout of Kurnool-III PS due to receipt of large quantum of Connectivity applications at 400 kV level

- 3.2.1 Representative of CTUIL stated that Kurnool-III PS has been identified for integration of 4.5 GW RE potential from Kurnool REZ as part of 66.5 GW RE Projects. Presently, Kurnool-III 765/400/220 kV PS is under implementation by POWERGRID through RTM route and is expected to be completed by Nov'24. Additional space provision had been kept for further expansion / augmentation of the pooling station for integration of additional RE generation. Presently, for integration of RE capacity, 9 Nos. of 220 kV line and 8 Nos. of 400 kV line bays have been allocated to various RE generation developers.
- 3.2.2 The CTUIL representative further informed that they have granted/agreed connectivity for 8000 MW (2650 MW at 220 kV level & 5350 MW at 400 kV level). For injection of 2,650 MW RE power from 220 kV level, 7x500 MVA 400/220 kV ICTs are required. Due to receipt of large Nos. of Connectivity applications at 400 kV level, it was observed that under the present arrangement of Kurnool-III PS, balance 2x500 MVA 400/220 kV ICTs and 6 Nos. of 220 kV line bays may be difficult to be utilized for injection of power.
- 3.2.3 After deliberations, NCT approved following modifications in the scope of design / layout of Kurnool-III PS:

Sl. No.	Bay Type	Present scope	Revised Present scope	Future Scope	Revised Future scope
<b>765 kV Switchyard: No change</b>					
<b>400 kV switchyard</b>					
1	Line with Reactor	0	0	10	22
2	Tie	9	10	11	12
3	400/220 kV Transformer Bay	9	9 (2 shifted to new section)	11	5



Sl. No.	Bay Type	Present scope	Revised Present scope	Future Scope	Revised Future scope
4	765/400 kV Transformer Bay	3	3	4	4
5	Bus Sectionaliser	0	0	1 set	2 set
6	Bus Reactor	1	1	-	Any Line with reactor bay may be used as Bus reactor bay
<b>220 kV switchyard</b>					
1	Line	15	15 (5 Nos. Shifted to new section)	11	5
2	400/220 kV Transformer Bay	9	9 (2 shifted to new section)	11	5
3	Bus Coupler	3	3	3	1
4	Transfer Bus coupler	3	3	3	1
5	Bus section	2 set	2 set	3 set	0

Additional works due to rearrangement / revised scope:

Sl. No.	Items
1	Land development for additional area for 400 & 220 kV Switchyard
2	400 kV Bus works for 8 Nos. additional diameters
3	Earth mat for additional area for 400 & 220 kV Switchyard
4	Other Auxiliary items i.e. additional requirement of Power & Control Cables, illumination, VMS etc.
5	Associated civil works including dismantling of foundations already casted

### 3.3 Change in Implementation time-frame of Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)

- 3.3.1 Representative of CTUIL stated that in the 16<sup>th</sup> meeting of NCT held on 30.11.2023, Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX) was recommended to be implemented through TBCB mode with tentative implementation timeframe of 30-06-2026 and estimated cost of Rs. 2898 crores. This scheme inter alia includes establishment of 765/400 kV ISTS substation at Gopalpur alongwith Angul (POWERGRID) – Gopalpur 765 kV D/c line & Gopalpur (ISTS) – Gopalpur (OPTCL) 400 kV D/c line in Odisha. Bidding of the scheme is under progress.
- 3.3.2 OPTCL vide letter no. CP/INDUSTRY DEPT/82/2023/122 dated 05-06-2024 have informed them that the expected commissioning schedule of their substation is changed from March 2026 to December 2026. One GNA<sub>RE</sub> applicant viz. M/s Avaada has been granted 700 MW GNA<sub>RE</sub> w.e.f. 30-06-2026 at Gopalpur (ISTS) S/s. Subsequently, M/s





Avaada vide letter dated 22-03-2024 had requested to shift the start date of GNA<sub>RE</sub> to Dec 2027.

- 3.3.3 Completion schedule of ERES-XXXIX scheme was finalized keeping in view expected schedule of Gopalpur (OPTCL) S/s and GNA<sub>RE</sub> requirement. Considering the present completion schedule of ERES-XXXIX i.e. 30-06-2026, no drawal arrangement at Gopalpur ISTS S/s would be available between July 2026 and Dec 2026. Accordingly, CTUIL proposed that the completion schedule of ERES-XXXIX scheme may be modified to 31-12-2026 from 30-06-2026.
- 3.3.4 Representative of RECPDCL stated that presently only land has been identified for Gopalpur (OPTCL) substation. OPTCL has not yet submitted the substation plan and bay coordinates to them for inclusion in RfP.
- 3.3.5 After deliberations, NCT approved the change in Implementation time-frame of Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX) from 30<sup>th</sup> June, 2026 to 31<sup>st</sup> December, 2026. Further, CTUIL was directed to reconfirm commissioning schedule of Gopalpur (OPTCL) from Odisha. Based on the response from Odisha, completion timeframe of ERES-XXXIX may again be reviewed at a later stage.

**3.4 System strengthening at Koppal-II and Gadag-II for integration of RE generation**

- 3.4.1 Representative of CTUIL stated that transmission scheme for Koppal-II PS & Gadag-II PS was approved in 10<sup>th</sup> meeting of the "National Committee on Transmission" (NCT) held on 7<sup>th</sup> November, 2022, with cost estimate of INR 310 Cr. under TBCB route with RECPDCL as the BPC with the following space provisions:
- **Koppal-II PS:** 220kV Bus Sectionalizer: 3 sets, 220 kV Bus Coupler (BC) Bay – 3 Nos., 220 kV Transfer Bus Coupler (TBC) Bay – 3 Nos. and 400 kV Bus Sectionalizer : 1 set.
  - **Gadag-II PS:** 220kV Bus Sectionalizer: 3 sets, 220 kV Bus Coupler (BC) Bay – 3 Nos., 220 kV Transfer Bus Coupler (TBC) Bay – 3 Nos.
- 3.4.2 He further added that Transmission scheme for System strengthening at Koppal-II and Gadag-II for integration of RE generation was agreed for implementation in the 19<sup>th</sup> meeting of the "National Committee on Transmission" (NCT) held on 29<sup>th</sup> April, 2024 with cost estimate of INR 1354.4 Cr. under TBCB route with PFCCL as the BPC with the following scope:
- Augmentation of 3x1500 MVA (5<sup>th</sup> - 7<sup>th</sup>), 765/400 kV ICTs, 5x500 MVA, 400/220kVICTs (5<sup>th</sup> - 9<sup>th</sup>) & 6 Nos. of 220 kV line bays at Koppal-II PS
  - Augmentation of 7x500 MVA, 400/220 kV ICTs (3<sup>rd</sup> - 9<sup>th</sup>), 1 No. of 400kV line bay & 5nos. of 220kV line bays at Gadag-II PS & Gadag-II PS – Koppal-II PS 400 kV (Quad) 2nd D/c line.





- 3.4.3 However, during the detailing of scope, provision of Bus Sectionalizers/BC/TBC were inadvertently missed out which are required considering the large number of connectivity.
- 3.4.4 After deliberations NCT, approved following scope of work to be appended to the **“System strengthening at Koppal-II and Gadag-II for integration of RE generation”** agreed in the 19th NCT meeting:
- **Koppal-II PS:** 220kV Bus Sectionalizer : 2 sets, 220 kV Bus Coupler (BC) Bay – 2 Nos., 220 kV Transfer Bus Coupler (TBC) Bay – 2 Nos. and 400kV Bus Sectionalizer :1 set
  - **Gadag-II PS:** 220 kV Bus Sectionalizer : 2 sets, 220 kV Bus Coupler (BC) Bay – 2 Nos. and 220 kV Transfer Bus Coupler (TBC) Bay – 2 Nos.
- 3.5 **Transmission system for evacuation of power from Luhri Stage-I HEP**
- 3.5.1 Representative from CTUIL stated that Transmission system for evacuation of power from Luhri Stage-I HEP was discussed and agreed in the 8<sup>th</sup> NCT meeting held on 25.03.2022. Scheme was notified in Gazette dated 02.06.2022 and RECPDCL was appointed as the BPC of the transmission scheme. The timeframe of the above transmission scheme was revised to 31<sup>st</sup> August 2026 in the 14<sup>th</sup> NCT meeting held on 09.06.2023. The transmission scheme is currently under bidding. During the course of bidding, the logistics issues in transportation of large size equipment was highlighted by bidders. Regarding this matter, multiple meetings were held.
- 3.5.2 In the meeting taken by Addl. Secretary (Trans), MoP on 07.06.2024 to discuss the Logistics issues in the ongoing bidding of Luhri Stage -I HEP Transmission scheme, SJVN suggested to shift the location of Nange (ISTS) Pooling Station (presently proposed at Ogli village) to a suitable location near Koldam area adjacent to National Highway (NH) in order to remove the hurdles associated with transportation of heavy equipment to the proposed location of pooling station and accordingly, SJVN would bring 220 kV dedicated line from Luhri-I & Sunni Dam to the new ISTS Pooling station near Koldam. Further, SJVN has informed that that the new location of ISTS Pooling station would be about 6-7 kms (BEE length) from Koldam HEP switchyard as per initial survey.
- 3.5.3 He further added that in view of revised location of Pooling station (near Koldam), line length of Pooling station (near Koldam)-Ropar section is reduced and therefore 50 MVAR line reactor at Ropar S/s is not required due to reactive over compensation (~95%). Overall there will be reduction in cost of the scheme from Rs. 432 cr to Rs. 305 cr.
- 3.5.4 After deliberations, NCT approved following modifications in the Transmission system for evacuation of power from Luhri Stage-I HEP scheme:



Sl. No.	Earlier Scope of Transmission Scheme	Revised Scope of Transmission Scheme
1	<p>Establishment of 7x105 MVA, 400/220 kV <b>Nange GIS Pooling Station</b> along with 125 MVAR (420kV) Bus Reactor at Nange (GIS) PS(1-Ph units along with one spare unit)</p> <ul style="list-style-type: none"> <li>• 315MVA, 400/220kV ICT: 2 Nos.(7x105 MVA including 1 spare ICT)</li> <li>• 400kV ICT bays: 2 Nos.</li> <li>• 220kV ICT bays: 2 Nos.</li> <li>• 400 kV, 125 MVAr Bus Reactor # – 1 No.</li> <li>• 400 kV Bus Reactor bay- 1 No.</li> <li>• 400 kV Line Bays- 2 Nos.</li> </ul> <p>Future provisions: Space for</p> <ul style="list-style-type: none"> <li>• 400/220kV ICTs (315 MVA with single phase units) along with associated bays: 3 Nos.</li> <li>• 400 kV line bays along with switchable line reactor: 3 Nos.</li> <li>• 220 kV line bays: 10 Nos.</li> <li>• 220kV bus sectionalizer: 1 set</li> </ul>	<p>Establishment of 7x105 MVA, 400/220kV <b>Pooling Station near Koldam (GIS)</b> along with 125 MVAR (420kV) Bus Reactor (1-Ph units along with one spare unit)</p> <ul style="list-style-type: none"> <li>• 315MVA, 400/220 kV ICT: 2 Nos. (7x105 MVA including 1 spare ICT)</li> <li>• 400kV ICT bays: 2 Nos.</li> <li>• 220 kV ICT bays: 2 Nos.</li> <li>• 400 kV, 125 MVAr Bus Reactor – 1 No.</li> <li>• 400 kV Bus Reactor bay- 1 No.</li> <li>• 400 kV Line Bays- 2 Nos.</li> </ul> <p>Future provisions: Space for</p> <ul style="list-style-type: none"> <li>• 400/220 kV ICTs (315 MVA with single phase units) along with associated bays: 3 Nos.</li> <li>• 400 kV line bays along with switchable line reactor: 3 Nos.</li> <li>• 220 kV line bays: 10 Nos.</li> <li>• 220kV bus sectionalizer: 1 set</li> </ul>
2	<p><b>Nange (GIS) Pooling Station</b> – Koldam 400 kV D/C line (Triple snowbird) (only one circuit is to be terminated at Koldam while second circuit would be connected to bypassed circuit of Koldam – Ropar/Ludhiana 400kV D/C line)-<b>40 km</b></p>	<p><b>Pooling Station near Koldam (GIS)</b>– Koldam (NTPC) 400 kV D/C line (Triple snowbird) (only one circuit is to be terminated at Koldam(NTPC) while second circuit would be connected to bypassed circuit of Koldam(NTPC) – Ropar/Ludhiana 400kV D/C line) – <b>7 km</b></p>
3	<p>1 no. of 400kV line bay at Koldam S/S for termination of <b>Nange (GIS) Pooling Station</b> – Koldam 400 kV line along with 125 MVAR (420kV) Bus Reactor at Koldam S/s (1-Ph units along with one spare unit)</p> <ul style="list-style-type: none"> <li>• 400 kV Line Bay- 1 no.</li> <li>• 400 kV, 125 MVAr Bus Reactor# - 1 no.</li> </ul>	<p>1 no. of 400kV line bay at Koldam S/s for termination of <b>Pooling Station near Koldam (GIS)</b>– Koldam(NTPC) 400 kV line along with 125 MVAR (420kV) Bus Reactor at Koldam(NTPC) S/s (1-Ph units along with one spare unit)</p> <ul style="list-style-type: none"> <li>• 400 kV Line Bay- 1 no.</li> <li>• 400 kV, 125 MVAr Bus Reactor# - 1 no. (to be terminated in existing</li> </ul>



Sl. No.	Earlier Scope of Transmission Scheme	Revised Scope of Transmission Scheme
	<ul style="list-style-type: none"> <li>400 kV, 125 MVAR Bus Reactor<sup>#</sup> - 1 no. (to be terminated in existing line bay at Koldam, which would be available due to bypassing of one circuit of Koldam – Ropar/Ludhiana 400 kV D/c line at Koldam S/s)</li> </ul>	line bay at Koldam(NTPC), which would be available due to bypassing of one circuit of Koldam – Ropar/Ludhiana 400 kV D/c line at Koldam(NTPC) S/s)
4	Bypassing one ckt of Koldam – Ropar/Ludhiana 400kV D/C line (Triple snowbird) at Koldam and connecting it with one of the circuit of Nange-Koldam 400kV D/C line (Triple snowbird), thus forming Nange- Ropar/ Ludhiana one line (Triple snowbird)	Bypassing one ckt of Koldam(NTPC) – Ropar/Ludhiana 400kV D/C line (Triple snowbird) at Koldam(NTPC) and connecting it with one of the circuit of <b>Pooling Station near Koldam (GIS)– Koldam(NTPC) 400kV D/c line (Triple snowbird), thus forming Pooling Station near Koldam – Ropar/ Ludhiana one line (Triple snowbird)</b>
5	1x50 MVAR switchable line reactor at Ropar end of Nange-Ropar/ Ludhiana 400kV line <ul style="list-style-type: none"> <li>400 kV, 50MVAR Line Reactor- 1 no.</li> <li>400 kV Reactor Bay- 1 no</li> </ul>	--- Deleted ---
	<b>Earlier Estimated Cost: Rs. 432 Cr.</b>	<b>Revised Estimated Cost: Rs. 305 Cr.</b>

#### 4 New Transmission and Communications Schemes:

##### 4.1 Network Expansion scheme in Western Region to cater to Pumped storage potential near Talegaon (Pune)

4.1.1 Representative of CTUIL stated that potential of more than 10 GW Pumped Storage Plants has been identified by MoP in Maharashtra. Application has already been received from Tata power for Bhivpuri PSP (1150 MW) for connectivity from 01.01.2028. Further, TPC is also planning PSP at Shirawata (1980 MW) in the same area. Considering the huge PSP potential in the area, which are likely to tie up power for pumping mode from RE generation projects located far away, it was proposed to establish a 765/400 kV substation near South Kalamb. Further, considering huge demand of Mumbai area, space for HVDC terminal is proposed to be kept for future use. CTUIL mentioned that MSETCL has proposed 8 Nos. of 400 kV lines from Sec-III of South Kalamb S/s to feed demand of Mumbai area.

4.1.2 It was mentioned that the scheme has been deliberated and agreed in the Special meeting of WRPC held on 27th March 2024 with following views:



*“Although agreeing to the proposed scheme in principle, WRPC has the view that PSP projects have a long gestation period and require several clearances before the construction commences. Pumped storage projects take around four years to be commissioned after DPR approval by CEA and Environment Clearance by MoEF; compared to this, it takes substantially lesser time for the ISTS system to be developed. Hence, to ensure optimal utilization of transmission assets, the proposed transmission scheme should be awarded only after receipt of the following:*

*a) Environment Clearance by the Ministry of Environment, Forest and Climate Change (MoEF&CC) under Clause 8 of the EIA Notification, 2006 issued under the Environment (Protection) Act, 1986.*

*b) Approval of Detailed Project Report (DPR) from the Central Electricity Authority (CEA) as per the applicable "Guidelines for Formulation of Detailed Project Reports for Pumped Storage Schemes".*

*The above conditions would ensure that the construction schedule of the proposed transmission scheme is in sync with the schedule of the PSP.”*

- 4.1.3 He further added that the estimated cost of the scheme is INR 1663 Crore with Implementation timeframe of 01.01.2028 (as per start date of connectivity sought by TPC for Bhivpuri PSP). However, application from Data Centre load (50 MW) has recently been received in Mumbai area in May'24 (~40km. from South Kalamb) (with communication that the capacity shall be increased to 1.4 GW progressively) with start date of 01.01.2027. The said application is presently under process. Hence, in case grant is finalised at South Kalamb S/s, the Implementation time-frame may be kept as 24 months or 01.01.2027 (i.e. start date of GNA), whichever is later.
- 4.1.4 CMD, Grid-India stated that the bulk consumers including data centers, may be coming up with battery energy storage systems(BESS) in view of net zero commitments as well as for ensuring reliability of supply. There is possibility that during operation, data centre may charge BESS alongwith normal power consumption, this would result in higher drawl from grid. He further stated that as the pumping mode operation will coincide with peak demand period of Maharashtra / Mumbai region, there is a possibility of low voltages in the nearby system. The same was observed and reported in the study cases also. Reactive power planning in the complex may therefore be carried out accordingly.
- 4.1.5 CTUIL informed that they have kept the provision that one of the PSP units would be mandated to operate as SynCon when the plant is idle.
- 4.1.6 CMD, Grid-India mentioned that the synchronous condenser mode operation of the hydro/pumped storage plants is currently not mandated in the CEA Connectivity Standards. However, following provision is available in CEA Construction Standards:



*“Hydro generating units having rated capacity of 50 MW and above shall be capable of operation in synchronous condenser mode, wherever feasible.”*

He suggested that the same may be mandated for deriving reactive power and inertial support from these units in future.

- 4.1.7 Director (SO), Grid-India stated the issues related to power quality (harmonics) etc. are also envisaged with integration of large quantum of inverter-based data center load in future. Therefore, it is important that suitable standards covering these aspects are timely notified for inverter interface loads.
- 4.1.8 Chairperson, CEA requested CTUIL and Grid-India to submit detailed proposal regarding amendments required in Grid Connectivity Standards to CEA to address the above issues.
- 4.1.9 On the issue of VSC vs LCC technology for the envisaged HVDC from Rajasthan to South Kalamb, Chairperson, CEA directed that a committee comprising of members from CEA, Grid-India, CTUIL & other stakeholders (as may be required) to be constituted to conduct a detailed study and prepare a report which can be used as reference for deciding the appropriate technology, among VSC vs LCC based on line length, power transfer requirement, voltage support and other reliability aspects.
- 4.1.10 Chairperson, CEA mentioned that there is a much need of PSPs in Indian Grid and efforts are being carried out for preponing the commissioning schedule of PSPs. Further, implementation timeframe for this scheme may be aligned with the timeframe of Data Centre, i.e. January, 2027. He also added that the decision of space requirement for future HVDC projects will be made based on the report for identification of optimal technology among VSC vs LCC. However, as the present scheme is urgently required, space requirement for LCC (being more than VSC) may be mentioned in the scope of present scheme.
- 4.1.11 After deliberations, NCT recommended Network Expansion scheme in Western Region to cater to Pumped storage potential near Talegaon (Pune) as mentioned below:

4.1.11.1 Summary of the scheme is given below:

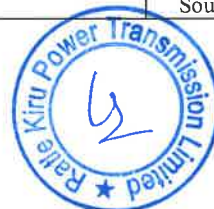
SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Network Expansion scheme in Western Region to cater to Pumped storage potential near Talegaon (Pune) Tentative implementation timeframe : 01.01.2027 subject to minimum implementation schedule of 24 months from SPV transfer	1663	Recommended under TBCB with RECPDCL as BPC





## 4.1.11.2 Detailed scope of the scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity /km
1.	<p>Establishment 2x1500 MVA, 765/400 kV Substation near South of Kalamb with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor</p> <p><b>Future provision (space for):</b></p> <ul style="list-style-type: none"> <li>➤ 765/400 kV ICT along with bays- 10 Nos. (2 Nos. on Sec-I, 4 Nos. in Sec-II &amp; 4 Nos. on Sec-III)</li> <li>➤ 765 kV line bays along with switchable line reactors – 6 Nos. (4 Nos. on Sec-II &amp; 2 Nos. on Sec-III)</li> <li>➤ 765 kV Bus Reactor along with bay: 4 Nos. (2 Nos. on Sec-II &amp; 2 No. on Sec-III)</li> <li>➤ 765 kV Sectionalizer: 2 -sets</li> <li>➤ 400 kV line bays along with switchable line reactors– 20 Nos. (6 Nos. on Sec-I, 6 Nos. on Sec-II &amp; 8 Nos. on Sec-III)</li> <li>➤ 400/220 kV ICT along with bays -4 Nos. (on 400 kV Sec-III: 2 Nos. on 220 kV Sec-I &amp; 2 Nos. on 220 kV Sec-II)</li> <li>➤ 400 kV Bus Reactor along with bays: 4 Nos. (2 Nos. on Sec-II &amp; 2 No. on Sec-III)</li> <li>➤ 400 kV Sectionalization bay: 2- set</li> <li>➤ 220 kV line bays: 8 Nos. (4 Nos. on Sec-I &amp; 4 Nos. on Sec-II)</li> <li>➤ 220 kV Sectionalization bay: 1 set</li> <li>➤ 220 kV BC and TBC: 2 Nos.</li> <li>➤ Establishment of 6000 MW, ± 800 kV South Kalamb (HVDC) [LCC] terminal station (4x1500 MW) along with associated interconnections with 400 kV HVAC Switchyard (2x1500 MW on 400 kV Sec-I &amp; 2x1500 MW on 400 kV Sec-II) &amp; all associated equipment (incl. filters)/bus extension, etc.</li> </ul>	<p>765/400 kV, 1500 MVA ICT – 2 Nos. (7x500 MVA single phase units including one spare ICT Unit)</p> <p>765 kV ICT bays – 2 Nos.</p> <p>400 kV ICT bays – 2 Nos.</p> <p>765 kV Line bays – 4 Nos.</p> <p>330 MVA, 765 kV bus reactor- 2 Nos. (7x110 MVAR single phase Reactors including one spare Unit for bus /line reactor)</p> <p>765 kV Bus reactor bay – 2 Nos.</p> <p>125 MVA, 420 kV reactor- 2 Nos.</p> <p>400 kV Reactor bay- 2 Nos.</p> <p>400 kV line bays - 2 Nos. (for interconnection of PSP)</p>
2.	LILO of Pune-III – Boisar-II 765 kV D/c line at South Kalamb S/s with associated bays at South Kalamb S/s	<ul style="list-style-type: none"> <li>• LILO Route length: 40 km (160 ckm.)</li> <li>• The Pune-III – Boisar-II 765 kV D/c line is of Hexa Zebra configuration and LILO shall be of similar conductor configuration</li> </ul>
3.	Installation of 1x240 MVA switchable line reactor on each ckt at South Kalamb end of Boisar-II – South Kalamb 765 kV D/c line (formed after above LILO)	<ul style="list-style-type: none"> <li>• 1x240 MVA, 765 kV switchable line reactor – 2 Nos.</li> <li>• Switching equipment for 765 kV line reactor – 2 Nos.</li> <li>• Spare Reactor (1-ph, 1x80 MVA) unit at 765/400 kV South Kalamb S/s</li> </ul>





**4.2 Provision of ICT Augmentation and Bus Reactor at Bhuj-II PS**

4.2.1 Representative of CTUIL stated that Bhuj-II PS is an existing substation with 4x500 MVA, 400/220 kV ICTs and 2x1500 MVA, 765/400 kV ICTs. To cater to applications received beyond 2000 MW (upto 2500 MW considering N-1) at Bhuj-II PS, creation of New 220 kV Bus Section at Bhuj-II PS, installation of 2x500 MVA, 400/220 kV ICTs (5th & 6th) and 1x1500 MVA, 765/400 kV ICT (3rd) and Implementation of 220 kV GIS line bay at Bhuj-II PS for ABREL (RJ) Projects Limited (Terminated at New 220 kV Bus Section) was agreed in the 16th NCT meeting held on 30.11.2023 through TBCB route. The scheme is presently under bidding.

4.2.2 He further informed that Connectivity under GNA for entire 4000 MW has been received at Bhuj-II PS till date. Further, Considering the rapid pace of applications being received at Bhuj-II PS (beyond 2.5 GW), there is requirement to install all remaining ICTs and 220 kV bays at Bhuj-II PS in one go so as to minimize multiple implementation time-lines / co-ordination issues, etc.

4.2.3 The scheme has been deliberated and agreed in the Special meeting of WRPC held on 27<sup>th</sup> March 2024.

4.2.4 After deliberations, NCT recommended implementation of the transmission scheme “Provision of ICT Augmentation & Bus Reactor at Bhuj-II PS” to be undertaken under TBCB with Implementation timeframe of 21 months as mentioned below:

4.2.4.1 Summary of the scheme is given below:

SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Provision of ICT Augmentation & Bus Reactor at Bhuj-II PS  Tentative implementation timeframe: 21 months from SPV transfer	587	Recommended under TBCB route with PFCCL as BPC

4.2.4.2 Detailed scope of the scheme is:

Sl. No.	Scope of the Transmission Scheme	Capacity /km
1.	Augmentation of transformation capacity at Bhuj-II PS (GIS) by 3x500 MVA, 400/220 kV ICT (7 <sup>th</sup> , 8 <sup>th</sup> & 9 <sup>th</sup> )	500 MVA, 400/220 kV ICTs: 3 No.  400 kV ICT bays: 3 No. (with addl. 3 Nos. for dia completion)  220 kV ICT bays: 3 No..



Sl. No.	Scope of the Transmission Scheme	Capacity /km
2.	Augmentation of transformation capacity at Bhuj-II PS (GIS) by 1x1500 MVA, 765/400 kV ICT (4 <sup>th</sup> )	1500 MVA, 765/400 kV ICT: 1 No. 765 kV ICT bay: 1 No. (with addl. 1 No. for dia completion) 400 kV ICT bay: Nil. (1 No. considered at SI. No.1 above)
3.	Installation of 1x330 MVA 765 kV Bus Reactor (2nd) along-with associated bay	330 MVA, 765 kV Bus Reactor: 1 No. 765 kV BR bay: Nil (1 No. considered at SI. No.2 above)
4.	Implementation of 220 kV GIS line bay at Bhuj-II PS for Aditya Birla Renewables Subsidiary Limited (ABRSL) [Appln No: 2200000321(362MW)]	220 kV line bay – 1 No. (GIS) (Bus Sec-II)
5.	Implementation of 220 kV GIS line bay at Bhuj-II PS for ACME Cleantech Solutions Private Limited (ACSPL) [Appln No: 2200000382(350 MW)]	220 kV line bay – 1 No. (GIS) (Bus Sec-II)
6.	Implementation of 220 kV GIS line bay at Bhuj-II PS for ACME Cleantech Solutions Private Limited (ACSPL) [Appln No: 2200000431(50 MW)]	220 kV line bay – 1 No. (GIS) (Bus Sec-II)
7.	Implementation of 220 kV GIS line bay at Bhuj-II PS for Avaada Energy Pvt Ltd. (AEPL) [Appl. No: 2200000444(100 MW)]	220 kV line bay – 1 No. (GIS) (Bus Sec-II)
8.	Implementation of 220 kV GIS line bays at Bhuj-II PS for Adani Green Energy Thirty-Two Ltd. (AGE32L) [Appl. No: 2200000514 (260.5MW)]	220 kV line bay – 1 No. (GIS) (Bus Sec-II)
9.	Implementation of 220 kV GIS line bays at Bhuj-II PS for Adani Renewable Energy Eight Ltd. (ARE8L) [Appl. No: 2200000545 (115MW)]	220 kV line bay – 1 No. (GIS) (Bus Sec-II)

#### 4.3 Transmission System for Offshore Wind Zone Phase-1 (500 MW VGF off the coast of Gujarat for Subzone B3)



- 4.3.1 MNRE has identified about 30 GW Offshore wind potential each off the coast of Gujarat and Tamil Nadu. Initially 5 GW Offshore wind potential each at Gujarat (CUF – 38%) and Tamil Nadu (CUF – 48%) has been prioritized for implementation wherein 2 GW transmission capacity (1 GW each off the coast of Gujarat and Tamil Nadu) will be developed in the 1st Phase and further 4 GW each off the coast of Gujarat and Tamil Nadu shall be developed subsequently.
- 4.3.2 In the meeting held on 22.12.2023, following broad decisions regarding tentative timelines for the offshore wind energy projects were taken:
- 500 MW VGF project off-Gujarat coast to be commissioned by March 2028. Tender for the project to be published by March 2024
  - 500 MW VGF project off-Tamil Nadu coast to be commissioned by March 2029. Tender for the project to be published by March 2025.
  - 4 GW non-VGF project off-Tamil Nadu coast to be commissioned in FY 2029-30. Tender for the projects to be published on 01.02.2024
  - Non-VGF project off-Gujarat coast will be tendered based on the response for the Tamil Nadu non-VGF project
- 4.3.3 Representative of CTUIL stated that the scheme has been deliberated and agreed in the Special meeting of WRPC held on 27<sup>th</sup> March 2024 with following views:
- “Although agreeing to the proposed scheme in principle, WRPC concluded that the transmission scheme should be awarded only after the signing of PPAs and submission of requisite BGs for the 500 MW VGF Offshore Wind tender to the Tender Issuing Authority, so as to ensure optimal utilization of transmission assets. However, the scheme may be initiated immediately if the time between the signing of PPA and COD is less than 3.5 years. This would ensure that the transmission scheme matches with the schedule of the 500 MW VGF Offshore Wind Projects”.*
- 4.3.4 Representative of CTUIL further referred a meeting on “Offshore development” held under chairmanship of Hon’ble Minister of Power and New & Renewable Energy on 14.06.2023, wherein it was decided that initially 2 GW offshore evacuation infrastructure (1 GW in Gujarat and 1 GW in Tamil Nadu) may be developed by PGCIL under RTM and further, 4GW evacuation infrastructure will be developed under TBCB.
- 4.3.5 CMD, Grid-India enquired whether the point of interconnection (POI) would be the onshore station or the offshore one. CTUIL clarified that the point of interconnection of RE generators shall be at the 66 kV level of the offshore substation,
- 4.3.6 On the present status of offshore wind projects, MNRE stated that stage-I clearance has been obtained. SECI will carry out bidding process. Tentative timeline for bidding and signing of PPA may be 6 months and implementation time will be 4 years. Accordingly, implementation timeframe may be considered as March, 2029.



4.3.7 Representative of CTUIL referred that as per the PIB Press Release dated 19.06.2024, the Union Cabinet have approved the Viability Gap Funding (VGF) scheme for offshore wind energy projects for installation and commissioning of 1 GW of offshore wind energy projects (500 MW each off the coast of Gujarat and Tamil Nadu)

4.3.8 After Deliberations, NCT recommended the transmission scheme for Offshore Wind Zone Phase-1 (500 MW VGF off coast of Gujarat for Subzone B3) under RTM route as mentioned below:

4.3.8.1 Summary of the scheme is given below:

Sl. No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission scheme for Offshore Wind Zone Phase-1 (500 MW VGF off coast of Gujarat for Subzone B3) <b>Implementation timeframe:</b> Matching with the associated RE generation (48 months from effective date of PPA), presently anticipated by 31 <sup>st</sup> March, 2029	Rs 6900 Crs {Onshore Portion: 2200, Offshore Portion: 4700}	Recommended under RTM to POWERGRID

4.3.8.2 Detailed scope of the scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity /km
<b>A. Transmission System onwards Onshore Pooling Station</b>		
1.	Establishment of 2x500 MVA, 400/220 kV Mahuva Onshore Pooling Station (GIS) (Mahuva PS) alongwith 1x125 MVAR, 420 kV bus reactor (with space provision for upgradation to 765 kV level to cater to future Offshore Wind Projects adjacent to B3, B4, B5 pockets in future) <b>Future Space Provisions:</b> i. 765/400 kV ICT along with bays- 6 Nos. ii. 765 kV line bays along with switchable line reactors – 8 Nos. iii. 765 kV Bus Reactor along with bay: 2 Nos. iv. 765 kV Sectionaliser: 1 -set v. 400 kV line bays along with switchable line reactors– 8 Nos. vi. 400/220 kV ICT along with bays -8 Nos.	<ul style="list-style-type: none"> <li>• 400/220kV, 500 MVA, ICTs – 2 nos.</li> <li>• 400kV ICT bays – 2 nos.</li> <li>• 220kV ICT bays – 2 nos.</li> <li>• 1x125 MVAR, 420kV Bus Reactor – 1 no.</li> <li>• 400kV Bus Reactor bay – 1 no.</li> <li>• 400kV line bays – 2 nos. (for termination of Mahuva Onshore PS (GIS) – Vataman 400 kV D/c line)</li> <li>• 220kV line bays – 2 nos. (for termination of B3-OSS-1 – Mahuva Onshore PS 220 kV 2xS/c (3 core) cables)</li> <li>• 220 kV Bus Coupler (BC) Bay – 1 no.</li> </ul>



Sl. No.	Scope of the Transmission Scheme	Capacity /km
<b>A. Transmission System onwards Onshore Pooling Station</b>		
	vii. 400 kV Bus Reactor along with bays: 3 Nos. viii. 400 kV Sectionalization bay: 1-set ix. 220 kV line bays: 16 Nos. x. 220 kV Sectionalization bay: 1 set xi. 220 kV BC and TBC: 1 No. xii. STATCOM ( $\pm 300$ MVAR) alongwith associated bay at 220 kV - 3 Nos. xiii. 220kV Bus Reactor along with bays: 7 Nos. xiv. VSR (420kV, 1x125 MVAR Variable Bus Shunt Reactor with OLTC with control range between 50 – 125 MVAR for each VSR) alongwith associated bay at 400 kV – 3 Nos.	
2.	Creation of 400kV switchyard along with Installation of 2x1500 MVA, 765/400 kV ICTs at Vataman (AIS) with 2x125 MVAR (420 kV) Bus Reactors	<ul style="list-style-type: none"> <li>• 765/400kV, 1500 MVA, ICTs – 2 nos. (7x500MVA incl. spare unit)</li> <li>• 765kV ICT bays – 2 nos.</li> <li>• 400kV ICT bays – 2 nos.</li> <li>• 2x125 MVAR, 420kV Bus Reactor – 1 no.</li> <li>• 400kV Bus Reactor bay – 2 no.</li> </ul>
3.	2 nos. 400kV bays at Vataman for termination of Mahuva Onshore PS (GIS) – Vataman 400 kV D/c line	<ul style="list-style-type: none"> <li>• 400kV line bays – 2 nos.</li> </ul>
4.	Mahuva Onshore PS (GIS) – Vataman 400 kV D/c line (Quad ACSR/AAAC/AL59 moose equivalent) with 63MVAR & 50 MVAR, 420 kV switchable line reactors on each ckt at Mahuva & Vataman ends respectively.	Line length: 190 km 420 kV, 63 MVAR switchable line reactors at Mahuva S/s end– 2 Nos. Switching equipment for 420 kV, 63 MVAR switchable line reactors at Mahuva S/s end – 2 no 420 kV, 50 MVAR switchable line reactors at Vataman S/s end– 2 Nos. Switching equipment for 420 kV, 50 MVAR switchable line reactors at Vataman S/s end – 2 no
5.	$\pm 300$ MVAR STATCOM at 220 kV level of Mahuva PS (GIS) with 1 No. of 220 kV bay	<ul style="list-style-type: none"> <li>• <math>\pm 300</math> MVAR STATCOM – 1 No.</li> <li>• 220 kV bay – 1 no.</li> </ul>



Sl. No.	Scope of the Transmission Scheme	Capacity /km
<b>A. Transmission System onwards Onshore Pooling Station</b>		
6.	420 kV, 1x125 MVAR Variable Bus Shunt Reactor with OLTC (control range between 50 – 125 MVar for VSR) with 1 No. of 400 kV bay	<ul style="list-style-type: none"> <li>• 1x125 MVAR, 420kV Variable Bus Shunt Reactor with OLTC – 1 no.</li> <li>• 400kV Bus Reactor bay – 1 no.</li> </ul>
7.	245 kV, 3x50 MVAR Bus Reactors at 220 kV level of Mahuva PS (GIS)	<ul style="list-style-type: none"> <li>• 50 MVAR, 245kV Bus Reactor– 3 no.</li> <li>• 220kV Bus Reactor bay – 3 no.</li> </ul>
<b>B. Transmission System for integration of Offshore Wind Farms with Onshore PS</b>		
<b>Offshore Substation-1 {500 MW VGF}</b>		
1.	Establishment of 2x315 MVA, 220/66 kV Gujarat Offshore B3 Sub-Station Station-1 (B3-OSS-1) with 66 kV line bays – 10 Nos. for RE Interconnection	<ul style="list-style-type: none"> <li>• 220/66kV, 315 MVA, ICTs – 2 nos.</li> <li>• 220kV ICT bays – 2 nos.</li> <li>• 66kV ICT bays – 2 nos.</li> <li>• 220kV line bays – 2 nos. (at B3-OSS-1 for termination of B3-OSS-1 – Mahuva Onshore PS (GIS) 220 kV two nos. (3 core) cables)</li> <li>• 66kV line bays – 10 nos.</li> </ul>
2.	B3-OSS-1 – Mahuva Onshore PS (GIS) 220 kV two nos. (3 core) cables (45 km-under sea cable of about 35 km & under ground cable of about 10 km) alongwith associated line bays at both ends (with capacity of 300 MVA/ckt at nominal voltage) with 1x50 MVAR switchable line reactors at B3-OSS-1 end on each cable	<ul style="list-style-type: none"> <li>• Cable length ~45 km</li> <li>• 220 kV, 50MVAR switchable line reactors at OSS-1 end – 2 nos.</li> <li>• Switching equipment for 220 kV, 50 MVAR switchable line reactors at OSS-1 end – 2 nos.</li> </ul>

**Note:**

- TSP of Vataman S/s (Vataman Transmission Ltd.) shall provide space for augmentation works at Vataman S/s
- Vataman switching S/s has been planned through LILO of Lakadia-Vadodara 765 kV D/c line at Vataman under Khavda Ph-III (7 GW) and is presently under implementation by POWERGRID (under TBCB) with implementation schedule of Dec'25 (SCOD).
- Distances indicated above are tentative and may change based on actual survey.

**4.4 Transmission System for 1 GW Offshore wind farm (Phase-I) in Tamil Nadu**

- 4.4.1 MNRE has identified about 30 GW Offshore wind potential each off the coast of Gujarat and Tamil Nadu. Initially 5 GW Offshore wind potential each at Gujarat (CUF – 38%) and Tamil Nadu (CUF – 48%) has been prioritized for implementation wherein 2 GW transmission capacity (1 GW each off the coast of Gujarat and Tamil Nadu) will





be developed in the 1<sup>st</sup> Phase and further 4 GW each off the coast of Gujarat and Tamil Nadu shall be developed subsequently.

- 4.4.2 In the meeting held on 22.12.2023, following broad decisions regarding tentative timelines for the offshore wind energy projects were taken:
- 500 MW VGF project off-Gujarat coast to be commissioned by March 2028. Tender for the project to be published by March 2024
  - 500 MW VGF project off-Tamil Nadu coast to be commissioned by March 2029. Tender for the project to be published by March 2025.
  - 4 GW non-VGF project off-Tamil Nadu coast to be commissioned in FY 2029-30. Tender for the projects to be published on 01.02.2024
  - Non-VGF project off-Gujarat coast will be tendered based on the response for the Tamil Nadu non-VGF project
- 4.4.3 Representative of CTUIL referred the meeting on “Offshore wind” under the chairmanship of Hon’ble Minister of Power & NRE held on 14.06.2023 wherein it was decided that “Initial 2 GW offshore evacuation infrastructure (1.0 GW in Gujarat and 1.0 GW in Tamil Nadu) may be developed by PGCIL under Regulated Tariff Mechanism (RTM) and further 4.0 GW evacuation infrastructure will be developed under TBCB. Accordingly, Transmission System for 1 GW Offshore wind farm (Phase-I) in Tamil Nadu have been identified and deliberated with Southern Region beneficiaries.
- 4.4.4 Representative of CTUIL referred that as per the PIB Press Release dated 19.06.2024, the Union Cabinet have approved the Viability Gap Funding (VGF) scheme for offshore wind energy projects for installation and commissioning of 1 GW of offshore wind energy projects (500 MW each off the coast of Gujarat and Tamil Nadu).
- 4.4.5 MNRE stated that implementation of Tamil Nadu offshore project may take one year more than Gujarat. Accordingly, timeline for the same may be considered as March, 2030.
- 4.4.6 Chairperson, CEA opined that the 500 MW non-VGF project off- Tamil Nadu coast may be taken up for implementation at later stage based on the development of 500 MW VGF offshore project in Tamil Nadu & recommendations given by MNRE.
- 4.4.7 After deliberations, NCT recommended implementation of the transmission system for Offshore wind farm in Tamil Nadu {500 MW VGF} to be taken-up through RTM route

4.4.7.1 Details of the Schemes are given below:

SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crores)	Remarks
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1	Transmission System for Offshore wind farm in Tamil Nadu {500 MW VGF}  Tentative implementation timeframe: 31 <sup>st</sup> March 2030	Rs 6242 Crs {Onshore Portion: ₹ 1096 Crs, Offshore Portion: ₹ 5146 Crs}	Recommended under RTM to POWERGRID
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4.4.7.2 Scope of the scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity /km
<b>A. Transmission System onwards Onshore Pooling Station</b>		
i.	Establishment of 2x500 MVA, 400/230 kV Onshore Pooling Station near Avaraikulam, Tirunelveli District in Tamil Nadu with provision of expansion upto 5 GW  <b>Future Space Provisions:</b> <ul style="list-style-type: none"> <li>• 400/230kV, 500 MVA, ICTs – 10 nos.</li> <li>• 400kV ICT bays – 10 nos.</li> <li>• 230kV ICT bays – 10 nos.</li> <li>• 400kV line bays – 12 nos. (with provision for SLR)</li> <li>• 230kV line bays – 18 nos.</li> <li>• 230kV Bus Sectionalizer : 3 sets</li> <li>• 230 kV Bus Coupler (BC) Bay – 3 nos.</li> <li>• 230 kV Transfer Bus Coupler (TBC) Bay – 3 nos.</li> </ul>	<ul style="list-style-type: none"> <li>• 400/230kV, 500 MVA, ICTs – 2 nos.</li> <li>• 400kV ICT bays – 2 nos.</li> <li>• 230kV ICT bays – 2 nos.</li> <li>• 400kV line bays – 2 nos. (at Avaraikulam Onshore PS for termination of Avaraikulam Onshore PS – Tuticorin PS line)</li> <li>• 230kV line bays – 2 nos.</li> <li>• 230 kV Bus Coupler (BC) Bay – 1 no.</li> <li>• 230 kV Transfer Bus Coupler (TBC) Bay – 1 no.</li> </ul>
ii.	Avaraikulam Onshore PS – Tuticorin PS 400 kV D/c quad line	<ul style="list-style-type: none"> <li>• Line length ~100 km</li> <li>• 400kV line bays - 2 (at Tuticorin PS)</li> </ul>
iii.	± 300 MVAr STATCOM along with 2x125 MVAr MSR	<ul style="list-style-type: none"> <li>• 400 kV bay – 1 no.</li> </ul>
<b>B. Transmission System for integration of Offshore Wind Farms with Onshore PS</b>		
<b>Offshore Substation-1 {500 MW VGF}</b>		
1.	Establishment of 2x315 MVA, 230/66kV Off-Shore Substation-1 with 10 nos. of 66kV line bays for RE integration	<ul style="list-style-type: none"> <li>• 230/66kV, 315 MVA, ICTs – 2 nos.</li> <li>• 230kV ICT bays – 2 nos.</li> <li>• 66kV ICT bays – 2 nos.</li> <li>• 230kV line bays – 2 nos. (at Off-Shore Substation-1 for termination of Offshore substation 1 (OSS-1) – Avaraikulam Onshore PS line)</li> <li>• 66kV line bays – 10 nos.</li> </ul>
2.	Offshore substation 1 (OSS-1) – Avaraikulam Onshore PS 2 nos. 230kV	<ul style="list-style-type: none"> <li>• Cable length ~35 - 40 km</li> <li>• 230 kV, 50MVAr switchable line reactors at OSS-1 end – 2 nos.</li> </ul>



<i>Sl. No.</i>	<i>Scope of the Transmission Scheme</i>	<i>Capacity /km</i>
<b>A. Transmission System onwards Onshore Pooling Station</b>		
	(atleast 300 MVA capacity) Submarine cables (~35 - 40 km) with 2x50MVA switchable line reactors at OSS-1 end	

**4.5 Transmission System for evacuation of power from Mahan Energen Limited Generating Station in Madhya Pradesh**

4.5.1 Representative of CTUIL stated that Mahan Energen Limited (2x600 MW) Generating Station in Madhya Pradesh is already connected with ISTS. Under the CERC 2009, Connectivity/LTA Regulations, Mahan Energen Limited was granted connectivity only & the power was being evacuated vide implementation of SPS. Now the generator has applied for connectivity under GNA regulations for the entire 1200MW capacity which needs to be evacuated reliably without any SPS. To fully evacuate the power, Mahan (existing bus) – Rewa PS (PG) 400 kV D/c (quad) line is required to be implemented. CTUIL also mentioned that the proposed line may infringe reserved forest (Sone Crocodile Sanctuary) in the state of state of MP as seen from PM Gati-Shakti plot. Therefore, implementation timeframe of the scheme may be kept as 30 months.

4.5.2 The scheme has been deliberated and agreed in the Special meeting of WRPC held on 27<sup>th</sup> March 2024.

4.5.3 After deliberations, scheme of transmission System for evacuation of power from Mahan Energen Limited Generating Station in Madhya Pradesh was recommended under TBCB route with implementation time frame of 30 Months.

4.5.4 Summary of the scheme is given below:

SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission System for evacuation of power from Mahan Energen Limited Generating Station in Madhya Pradesh  Tentative implementation timeframe: 30 months from SPV transfer	558	Recommended Under TBCB with PFCCL as BPC

4.5.5 Detailed scope of the scheme is given below:



Sl. No.	Scope of the Transmission Scheme	Capacity /km
1.	Mahan (existing bus) – Rewa PS (PG) 400 kV D/c (Quad ACSR/AAAC/AL59 moose equivalent)line	110 km.
2.	2 Nos. 400 kV bays at Rewa PS (PG) for termination of Mahan (existing bus) – Rewa PS (PG) 400 kV D/c line (Quad ACSR/AAAC/AL59 moose equivalent)line	400 kV bays: 2 Nos.

**Note:**

- 2 Nos. 400 kV line bays at MEL (existing) shall be under the scope of MEL
- POWERGRID to provide space at Rewa PS (PG) for scope at Sl. 2

#### 4.6 Augmentation of transformation capacity at 765/400 kV Lakadia S/s (WRSS XXI (A) Transco Ltd) in Gujarat – Part B

4.6.1 Representative of CTUIL stated that Cumulative RE connectivity granted/agreed at Lakadia till date is 3,500 MW. To enable evacuation of RE power from various generation projects in Lakadia REZ, transmission system for Augmentation of transformation capacity at 765/400 kV Lakadia S/s (WRSS XXI(A) Transco Ltd) in Gujarat – Part B is proposed.

4.6.2 He further mentioned that this scheme has been deliberated and agreed in the Special meeting of WRPC meeting held on 27<sup>th</sup> March 2024.

4.6.3 After deliberations, scheme for transmission system for Augmentation of transformation capacity at 765/400 kV Lakadia S/s (WRSS XXI(A) Transco Ltd) in Gujarat – Part B was recommended by NCT in TBCB.

4.6.4 Summary of the scheme is given below:

SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission system for Augmentation of transformation capacity at 765/400 kV Lakadia S/s (WRSS XXI(A) Transco Ltd) in Gujarat – Part B Tentative implementation timeframe: As per Detailed Scope	636	Recommended under TBCB with RECPDCL as BPC

4.6.5 Detailed scope of the scheme is given below:



Sl. No.	Scope of the Transmission Scheme	Capacity /km	Time-frame
1.	Installation of 2x500 MVA, 400/220 kV ICTs (3 <sup>rd</sup> & 4 <sup>th</sup> ) at Lakadia PS along with associated ICT bays	<ul style="list-style-type: none"> <li>• 400/220 kV, 1x500 MVA ICT – 2 Nos.</li> <li>• 400 kV ICT bay – 2 Nos.</li> <li>• 220 kV ICT bay – 2 Nos. (220 kV bus section-I)</li> </ul>	<b>18 months</b> from date of allocation to implementing agency
2.	Implementation of 220 kV line bay at Lakadia PS for TEQ Green Power XVII Private Limited (TGPXVIPL: 300 MW)	<ul style="list-style-type: none"> <li>• 220 kV line bay – 1 no. (220 kV bus section-I)</li> </ul>	<b>18 months</b> from date of allocation to implementing agency
3.	Implementation of 220 kV line bay at Lakadia PS for Arcelor Mittal Nippon Steel India Limited (AMNSIL: 350 MW)	<ul style="list-style-type: none"> <li>• 220 kV line bay – 1 no. (220 kV bus section-I)</li> </ul>	<b>18 months</b> from date of allocation to implementing agency
4.	Implementation of 220 kV line bay at Lakadia PS for Renew Solar (Shakti Eight) Private Limited (RS(S8)PL: 200 MW)	<ul style="list-style-type: none"> <li>• 220 kV line bay – 1 no. (220 kV bus section-I)</li> </ul>	<b>30.09.2026</b> (as per start date requested by applicant)*
5.	Creation of New 220 kV Bus Section-II at Lakadia PS along with 220 kV Sectionaliser arrangement between 220 kV Bus sec-I & Sec-II	<ul style="list-style-type: none"> <li>• 220 kV Bus Sectionaliser - 1 set</li> <li>• BC – 1 No.</li> <li>• TBC – 1 No.</li> </ul>	<b>18 months</b> from date of allocation to implementing agency
6.	Augmentation of transformation capacity at Lakadia PS by 4x500 MVA, 400/220 kV ICTs (5 <sup>th</sup> 6 <sup>th</sup> , 7 <sup>th</sup> & 8 <sup>th</sup> ) terminated on new 220 kV Bus Section-II		
6a	2x500MVA ICTs (5 <sup>th</sup> & 6 <sup>th</sup> )	<ul style="list-style-type: none"> <li>• 500 MVA, 400/220 kV ICTs: 2 No.</li> <li>• 400 kV ICT bays: 2 Nos.</li> <li>• 220 kV ICT bays: 2 No. (New Bus Section-II)</li> </ul>	<b>18 months</b> from date of allocation to implementing agency
6b	1x500MVA ICT (7 <sup>th</sup> )	<ul style="list-style-type: none"> <li>• 500 MVA, 400/220 kV ICT: 1 No.</li> <li>• 400 kV ICT bay: 1 No.</li> <li>• 220 kV ICT bays: 1 No. (New Bus Section-II)</li> </ul>	<b>31.12.2026</b>
6c	1x500MVA ICT (8 <sup>th</sup> )	<ul style="list-style-type: none"> <li>• 500 MVA, 400/220 kV ICT: 1 No.</li> <li>• 400 kV ICT bay: 1 No.</li> <li>• 220 kV ICT bays: 1 No. (New Bus Section-II)</li> </ul>	<b>30.06.2027</b>
7.	Implementation of 220 kV line bay at Lakadia PS for Juniper Green Energy	<ul style="list-style-type: none"> <li>• 220 kV line bay – 1 No. (New Bus Section-II)</li> </ul>	<b>30.06.2027</b> (as per start date requested by applicant)



Sl. No.	Scope of the Transmission Scheme	Capacity /km	Time-frame
	Private Limited (JGEPL) (Appl. No. 2200000376: 300 MW)		
8.	Implementation of 220 kV line bay at Lakadia PS for TEQ Green Power XVI Pvt. Ltd. (TGPXVIPL) (Appl. No. 2200000398: 76MW)	• 220 kV line bay – 1 No. (New Bus Section-II)	<b>30.09.2026</b> (as per start date requested by applicant)*
9.	Implementation of 220 kV line bay at Lakadia PS for Ganeko Solar Pvt. Ltd. (GSPL) (Appl. No. 2200000458: 290 MW)	• 220 kV line bay – 1 No. (New Bus Section-II)	<b>31.12.2026</b> (as per start date requested by applicant)*
10.	Implementation of 220 kV line bay at Lakadia PS for Juniper Green Energy Private Limited (JGEPL) (Appl. No. 2200000500: 150 MW)	• 220 kV line bay – 1 No. (New Bus Section-II)	<b>31.03.2027</b> (as per start date requested by applicant)
11.	Implementation of 220 kV line bay at Lakadia PS for Serentica Renewables India Private Limited (SRIPL) (Appl. No. 2200000610: 200 MW)	• 220 kV line bay – 1 No. (New Bus Section-II)	<b>30.06.2026*</b>
12.	Implementation of 220 kV line bay at Lakadia PS for RDS Solar Park Private Limited (RDSSPPL) (Appl. No. 2200000639: 350 MW)	• 220 kV line bay – 1 No. (New Bus Section-II)	<b>30.06.2026*</b>
13.	Implementation of 220 kV line bay at Lakadia PS for Percentum Renewables Private Limited (PRPL) (Appl. No. 2200000673: 148 MW)	• 220 kV line bay – 1 No. (New Bus Section-II)	<b>30.06.2026*</b>
14.	Installation of 1x330 MVA 765 kV Bus Reactor (2nd) along-with associated bay	• 330 MVA, 765 kV Bus Reactor: 1 No. • 765 kV BR bay: 1 No.	<b>18 months</b> from date of allocation to implementing agency
15.	Augmentation of transformation capacity at Lakadia PS by 1x1500 MVA, 765/400 kV ICTs (3rd)	• 1500 MVA, 765/400 kV ICT: 1 No. • 400 kV ICT bay: 1 No. • 765 kV ICT bay: 1 No.	<b>18 months</b> from date of allocation to implementing agency

\*subject to minimum schedule of 18 months from the date of allocation to implementing agency.

**Note:** TSP of Lakadia S/s (WRSS XXI(A) Transco Ltd.) shall provide space for above augmentation works at Lakadia S/s





**4.7 Transmission System for evacuation of RE power from Raghnesda area of Gujarat – 3 GW under Phase-I**

- 4.7.1 Raghnesda region in Banaskantha District of Gujarat has been declared a potential Renewable Energy (RE) zone with potential of 5 GW in the initial phase (i.e. related to 1 GW RE park of GPCL and 4 GW RE park of M/s Torrent for which land allocation by Government of Gujarat is under process).
- 4.7.2 Representative of CTUIL stated that out of 4 GW Solar Capacity of Torrent, 2.5 GW is under ISTS. Out of 1 GW RE park of GPCL, 0.5 GW is being considered under ISTS in 1st phase planning. Presently, connectivity under GNA has been received for 0.6GW (3x200 MW from M/s Sprng) at Raghnesda PS with start date progressively from June28 to Dec-29.
- 4.7.3 The scheme has been deliberated and agreed in the Special meeting of WRPC held on 27th March 2024.
- 4.7.4 After deliberations, NCT Recommended the scheme transmission system for evacuation of RE power from Raghnesda area of Gujarat – 3 GW under Phase-I under TBCB route with implementation time frame of 30 months
- 4.7.5 Summary of the scheme is given below:

SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission system for evacuation of RE power from Raghnesda area of Gujarat – 3 GW under Phase-I Tentative implementation timeframe : 30 months from SPV transfer	1855	Recommended under TBCB with PFCCCL as BPC

4.7.6 Detailed scope of the scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity /km
1.	Establishment of 3x1500 MVA, 765/400 kV Substation near Raghnesda (GIS) with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor  <b>Future provision (space for):</b> <ul style="list-style-type: none"> <li>➤ 765/400 kV ICT along with bays- 5 Nos. (1 No. in Sec-I &amp; 4 Nos. on Sec-II)</li> <li>➤ 765 kV line bays along with switchable line reactors – 10 Nos. (4 Nos. on Sec-I &amp; 6 Nos. on Sec-II)</li> </ul>	<ul style="list-style-type: none"> <li>• 765/400 kV, 1500 MVA ICT – 3 Nos. (10x500 MVA single phase units including one spare ICT Unit)</li> <li>• 765 kV ICT bays – 3 Nos.</li> <li>• 400 kV ICT bays – 3 Nos.</li> <li>• 765 kV Line bays – 2 Nos.</li> <li>• 1x330 MVAR, 765 kV bus reactor- 2 Nos. (7x110 MVAR single phase Reactors including one spare Unit for bus /line reactor)</li> <li>• 765 kV Bus reactor bay – 2 Nos.</li> <li>• 125 MVAR, 420 kV reactor- 2 Nos.</li> </ul>



	<ul style="list-style-type: none"> <li>➤ 765 kV Bus Reactor along with bay: 2 Nos. (on Sec-II)</li> <li>➤ 765 kV Sectionalizer: 1 -set</li> <li>➤ 400 kV line bays along with switchable line reactors– 12 Nos. (4 Nos. on Sec-I &amp; 8 Nos. on Sec-II)</li> <li>➤ 400/220 kV ICT along with bays - 8 Nos. (4 Nos. on each 400 kV Section)</li> <li>➤ 400 kV Bus Reactor along with bays: 2 Nos. (Sec-II)</li> <li>➤ 400 kV Sectionalization bay: 1- set</li> <li>➤ 220 kV line bays: 12 Nos. (6 Nos. on each 220 kV Section)</li> <li>➤ 220 kV Sectionalization bay: 1 set</li> <li>➤ 220 kV BC: 1 No.</li> <li>➤ Establishment of 6000 MW, ± 800 kV Raghnesda (HVDC) [LCC] terminal station (4x1500 MW) along with associated interconnections with 400 kV HVAC Switchyard &amp; all associated equipment (incl. filters)/bus extension, etc.</li> </ul>	<ul style="list-style-type: none"> <li>• 400 kV Reactor bay- 2 Nos.</li> <li>• 400 kV line bays - 4 Nos. (for interconnection of RE Projects)</li> </ul>
2.	Raghnesda (GIS) – Banaskantha (PG) 765 kV D/c line	95 km
3.	2 Nos. 765 kV line bays at Banaskantha (PG) S/s	765 kV line bays – 2 Nos.

**Note:**

- TSP of Banaskantha S/s (POWERGRID) shall provide space for scope at Sl. 3 above.

#### 4.8 Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW)

- 4.8.1 Representative of CTUIL stated that Ratle HEP (850 MW) has applied for connectivity with ISTS. Accordingly a Comprehensive Transmission system for Ratle HEP has been identified. Recently CTU has received also connectivity application from Kiru HEP (624 MW) with commissioning schedule of Sep'26 (01.09.26) for which comprehensive Transmission system identified for Ratle HEP (commissioning progressively from 30.09.26) will be utilized along with some additional ICT augmentations, if required. Therefore, the scheme may be considered combindly for Ratle (850 MW) & Kiru HEP (624 MW).
- 4.8.2 The transmission scheme was discussed and technically approved in the 72<sup>nd</sup> NRPC meeting held on 30.03.24.
- 4.8.3 CMD, Grid-India enquired whether the upgradation of 400 kV Kishenpur – Moga D/C at 765 kV level was explored as part of the scheme. CTUIL representative informed that the option was explored but due to large quantum of incoming solar generation



injection at Moga (from Rajasthan), the line after upgradation cannot be utilized for evacuation of power from Ratle & Kiru HEPs due to sub optimal loading of line as well as drawl constraint in Moga S/s.

- 4.8.4 CTUIL representative further added that presently Dulhasti (NHPC) station is connected with single path via 400 kV Kishenpur – Dulhasti D/c line with OPGW. As Dulhasti is radially connected and also on AGC operation, it is proposed to provide redundant communication path for this station. Further, New Kishtwar Substation is also proposed to be connected over radial path with Kishenpur.

For provided redundant communication to Dulhasti & Kishtwar stations OPGW installation is proposed on the 400 kV Kishenpur – Dulhasti S/c line (120 kms.) alongwith reconductoring work. Also 2 nos. FOTE are proposed at Kishenpur & Dulhasti stations (1 at each locations). Tentative Cost of the scheme is Rs. 7.2 Crs. Scheme deliberated and technically approved under 73<sup>rd</sup> NRPC held on 21.05.2024.

- 4.8.5 After deliberations, NCT recommend/approved the transmission scheme for evacuation of power from Ratle (850 MW) & Kiru (624 MW) HEPs under {TBCB- Rs. 1213.87 Cr.; RTM- Rs. 195.67 Cr.} with the implementation time frame of 24 months.

- 4.8.6 Summary of the scheme is given below:

SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A  Tentative implementation timeframe : 24 Months from the date of SPV transfer	1213.87	Recommended under TBCB with RECPDCL as BPC
2.	Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-B  Tentative implementation timeframe : 24 Months or matching with Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW) : Part-A scheme whichever is later	195.67	Approved Under RTM

- 4.8.7 Detailed scope of the scheme is given below:

**Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A**



Sl. No.	Description of Transmission Element	Scope of work (Type of Substation/Conductor capacity/km/no. of bays etc.)
1	LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s along with associated bays at Kishtwar S/s	LILO Length- 3km • 400 kV Kishenpur -Kishtwar (LILO section) shall be on Twin HTLS (with minimum 2100 MVA capacity) configuration • 400 kV Dulhasti -Kishtwar (LILO section) shall be on Twin Zebra configuration • 400 kV line bays at Kishtwar – 2 Nos. (GIS) (line bays at Kishtwar S/s end shall be rated accordingly)
2	400 kV Kishenpur-Samba D/c line (Quad)  (only one circuit is to be terminated at Kishenpur utilizing 1 no. of 400 kV vacated line bay at Kishenur S/s (formed with bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/c line (Quad) at Kishenpur) while second circuit would be connected to bypassed circuit of 400 kV Kishtwar – Kishenpur line (Quad))	Length -36 km (Quad)
3	Bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/c line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/c line(Quad), thus forming <b>400 kV Kishtwar - Samba (Quad) direct line (one ckt)</b>	
4	1x80 MVAR Switchable line reactor at Samba end of 400 kV Kishtwar-Samba 400 kV line-165 km (Quad) [formed after bypassing of 400 kV Kishtwar – Kishenpur line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/c line(Quad)]	• 420 kV, 80 MVAR switchable line reactors at Samba S/s end– 1 Nos.  • Switching equipment for 420 kV, 80 MVAR switchable line reactors at Samba S/s end – 1 no
5	1x63 MVAR Switchable line reactor on each ckt at Jalandhar end of Kishenpur– Jalandhar D/c direct line -171km(Twin) (formed after bypassing both ckts of 400 kV Kishenpur – Samba D/c line (Twin) & 400 kV Samba – Jalandhar D/c line (Twin) at Samba and	• 420 kV, 63 MVAR switchable line reactors at Jalandhar S/s end– 2 Nos.  • Switching equipment for 420 kV, 63 MVAR switchable line reactors at Jalandhar S/s end – 2 no



	connecting them together to form Kishenpur–Jalandhar D/c direct line (Twin))	
6	400 kV Samba- Jalandhar D/c line(Quad)  (only one circuit is to be terminated at Jalandhar utilizing 1 no. of 400 kV vacated line bay at Jalandhar S/s (formed with bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar) while second circuit would be connected to bypassed circuit of Jalandhar – Nakodar 400 kV line (Quad))	Line Length -145 km
7	1x80 MVA Switchable line reactor at Samba end of Samba –Nakodar direct line (Quad) (187km) formed after bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/c line(Quad Moose), thus forming Samba –Nakodar line (Quad)	<ul style="list-style-type: none"> <li>• 420 kV, 80 MVA switchable line reactors at Samba S/s end– 1 no.</li> <li>• Switching equipment for 420 kV, 80 MVA switchable line reactors at Samba S/s end – 1 no.</li> </ul>
8	Bypassing 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/c line(Quad Moose), thus forming 400 kV Samba –Nakodar (Quad) direct line	

**Note:**

- M/s Sterlite shall provide space for 2 Nos. of 400 kV line bays (GIS) at Kishtwar S/s
- M/s POWERGRID shall provide space for 1 no. 80 MVA Switchable line reactor (along with switching equipment) at Samba end of 400 kV Kishtwar-Samba 400 kV line
- M/s POWERGRID shall provide space for 2 Nos. 63 MVA Switchable line reactor (along with switching equipment) at Jalandhar end of Kishenpur– Jalandhar D/c direct line (on each ckt)
- M/s POWERGRID shall provide space for 1 no. 80 MVA Switchable line reactor (along with switching equipment) at Samba end of Samba –Nakodar direct line

**Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru (624 MW) HEP : Part B**

1.	Reconductoring of 400 kV Kishenpur-Kishtwar section (up to LILO point) with Twin HTLS (minimum 2100 MVA capacity) (formed after LILO of Kishenpur-Dulhasti line at Kishtwar S/s) along with bay upgradation works (2000 A to 3150 A) at Kishenpur end for above line.	Length – 120 km  <ul style="list-style-type: none"> <li>• 400 kV Bay upgradation work- 1 no. bay at Kishenpur end</li> </ul>
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2	Bypassing both ckts of 400 kV Kishenpur – Samba D/c line (Twin) & 400 kV Samba – Jalandhar D/c line (Twin) at Samba and connecting them together to form <b>400 kV Kishenpur–Jalandhar D/c direct line (Twin)</b>  (4 Nos. of vacated 400 kV line bays at Samba S/s will be utilized for 400 kV Kishenpur-Samba D/c line (Quad) & 400 kV Samba- Jalandhar D/c line(Quad),	Length -0.5 km (Twin)
3	Bays upgradation works (2000A to 3150A) at Samba end (4 Nos. bays vacated after bypassing of Kishenpur – Samba D/c line (Twin) & 400 kV Samba – Jalandhar D/c line (Twin))	400 kV Bay upgradation works- 4 Nos. bays
4	Redundant Communication System for Dulhasti (NHPC) & Kishtwar (Sterlite) stations by installing OPGW on 400 kV Kishenpur-Kishtwar S/c line alongwith reconductoring work and FOTE at Dulhasti & Kishenpur.	Length – 120 km

Note:

- o TSP shall also install OPGW on bypass section to form link between 400 kV Kishenpur– Jalandhar .

**4.9 Augmentation with 400/220 kV, 1x500 MVA Transformer (10<sup>th</sup>) at Fatehgarh-2 PS**

4.9.1 Representative of CTUIL stated that augmentation with 400/220 kV, 1x500 MVA, Transformer (10<sup>th</sup>) at Fatehgarh-2 PS was agreed as part of “transmission system for evacuation of power from REZ in Rajasthan (20 GW) under Phase-III Part J” in 5th NCT meeting held on 25.08.2021 and 02.09.2021. In that meeting, it was also agreed that Implementation of above ICT shall be taken up after LTA of 4490 MW at 220 kV level of Fatehgarh-2 PS. Subsequently, based on NCT recommendation, MoP vide OM dated 01.12.2021 awarded above transmission scheme to CTUIL with implementation timeframe of 15 months from MoP OM or evacuation requirement beyond 4490 MW at 220 kV level of Fatehgarh-2 PS, whichever is later. Further, CTUIL vide letter dated 02.12.2021 allocated above scheme to POWERGRID based on MoP OM dated 01.12.2021.

4.9.2 He further informed that 220 kV level of Fatehgarh-2 PS is implemented in two sections i.e. Section-I & II. Further, both the 220kV sections are implemented in geographically opposite sides (way apart from each other and not electrically connected) as per GA and layout of pooling station. However, 400 kV & 765 kV bus remained common for both the yards. At present, RE Connectivity of 2490MW under GNA is granted at Section-I and 1970MW is granted at Section-II, thus making total connectivity at Fatehgarh-2 PS as 4460MW which is less than 4490 MW.





- 4.9.3 Subsequently, Manual on Transmission Planning Criteria was published by CEA in Mar'23. As per the above, 'N-1' reliability criteria may be considered for ICTs at the ISTS / STU pooling stations for renewable energy based generation of more than 1000 MW. As both the 220kV sections of Fatehgarh-2 PS are electrically isolated and have more than 1000MW RE connectivity in respective sections, 'N-1' criteria to be fulfilled at both the sections. Keeping above in view, 1x500MVA, 400/220kV ICT (6th) at Section-I was awarded which is under implementation (Jul'24).
- 4.9.4 Considering requirement of 400/220kV ICT (in Fatehgarh-II Section-II) for N-1 compliance in Fatehgarh-II PS [(Section-II), it was proposed that 1x500 MVA, 400/220 kV ICT (now 11<sup>th</sup> ICT) at Fatehgarh-II PS as approved by MoP vide OM dated 01.12.2021 based on recommendation in 5<sup>th</sup> NCT meeting may be taken up for implementation with 18 month implementation schedule considering present timeline for ICT augmentation (instead of earlier 15 months) to fulfil 'N-1' criteria as per CEA Manual on Transmission Planning Criteria, 2023.
- 4.9.5 After deliberations, NCT approved modification in the transmission scheme for "Augmentation with 400/220 kV, 1x500 MVA Transformer (10<sup>th</sup>) at Fatehgarh-2 PS" as mentioned below so that same can be taken up for implementation:

<b>Earlier (as per MOP OM dated 01.12.21)</b>	<b>Amendment</b>
Augmentation with 400/220 kV, 1x500 MVA Transformer (10 <sup>th</sup> ) at Fatehgarh-2 PS  <ul style="list-style-type: none"> <li>• 400/220 kV 500 MVA ICT:1 no</li> <li>• 400 kV ICT bays – 1 Nos.</li> <li>• 220 kV ICT bays - 1 Nos.</li> </ul> <p><b>Implementation Timeframe- 15 months from MOP OM or evacuation requirement beyond 4490 MW at 220 kV level of Fatehgarh-2, whichever is later.</b></p>	Augmentation with 400/220 kV, 1x500 MVA Transformer (11 <sup>th</sup> ) at Fatehgarh-II PS (5 <sup>th</sup> ICT in Fatehgarh-II section-II)  <ul style="list-style-type: none"> <li>• 400/220 kV 500 MVA ICT:1 no</li> <li>• 400 kV ICT bays – 1 no.</li> <li>• 220 kV ICT bays - 1 no.</li> </ul> <p><b>Implementation Timeframe- 18 months [for N-1 compliance in Fatehgarh-II PS (Section-II)]</b></p>

- 4.10 **Transmission system strengthening at Kurnool-III PS for integration of additional RE generation projects**
- 4.10.1 Representative of CTUIL stated that presently, Kurnool-III 765/400/220 kV PS is under implementation by POWERGRID through RTM route and is expected by Nov'24. CTU have granted/agreed Connectivity for 8000 MW (2650 MW at 220 kV level & 5350 MW at 400 kV level).
- 4.10.2 For immediate integration & evacuation of power from additional RE generation projects agreed for grant of Connectivity beyond 4.5 GW, 400 kV line bays and augmentation of



transformation capacity at Kurnool-III are required. Further, Kurnool-III PS – Chilakaluripeta 765 kV D/c line will also be required.

4.10.3 After deliberations, NCT recommended the scheme for Transmission system strengthening at Kurnool-III PS for integration of additional RE generation projects under TBCB mode.

4.10.4 Summary of the scheme is given below:

SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Transmission system strengthening at Kurnool-III PS for integration of additional RE generation projects  Tentative implementation timeframe: Package A– 24 months Package B – progressively from June’25 to Dec’27 Package C – 24 months	Rs 2886 Crs	Recommend under TBCB mode with PFCCCL as BPC

4.10.5 Detailed scope of the scheme is given below:

Pack	Scope of the Transmission Scheme	Capacity /km	Schedule
A	Augmentation of transformation capacity by 3x1500 MVA, 765/400 kV ICTs at Kurnool-III PS	<ul style="list-style-type: none"> <li>• 3x1500 MVA, 765/400 kV ICT</li> <li>• 765 kV ICT bay – 3 Nos.</li> <li>• 400 kV ICT bay – 3 Nos.</li> <li>• 400 kV Bus Sectionalizer – 1 Set</li> </ul>	24 months
	Kurnool-III PS – Chilakaluripeta 765 kV D/c line with 240 MVar switchable line reactors at both ends	<ul style="list-style-type: none"> <li>• 765 kV line bays – 2 Nos. (at Kurnool-III PS)</li> <li>• 765 kV line bays – 2 Nos. (at Chilakaluripeta)</li> <li>• 765 kV, 240 MVar SLR at Kurnool-III PS – 2 Nos. (6x80 MVar units)</li> <li>• 765 kV, 240 MVar SLR at Chilakaluripeta – 2 Nos. (6x80 MVar units)</li> </ul>	
B	2 Nos. of 400 kV line bays at Kurnool-III PS for termination of dedicated transmission line of M/s Adani Renewable Energy Forty Two Ltd.	• 400 kV line bays – 2 Nos.	30.06.26
	4 Nos. of 400 kV line bay at Kurnool-III PS for termination of dedicated transmission lines of M/s Indosol Solar Pvt. Ltd.	• 400 kV line bays – 1 Nos.	30.06.25
		• 400 kV line bays – 1 Nos.	24 months
		• 400 kV line bays – 2 Nos.	31.03.27



Pack /kage	Scope of the Transmission Scheme	Capacity /km	Schedule
	2 Nos. of 400 kV line bays at Kurnool-III PS for termination of dedicated transmission line of M/s Adani Renewable Energy Fifty One Ltd.	• 400 kV line bays – 2 Nos.	31.12.27
C	Augmentation of 1x1500 MVA 765/400 kV ICT (7 <sup>th</sup> ) at Kurnool-II PS	• 1x1500 MVA, 765/400 kV ICT • 765 kV ICT bay – 1 Nos. • 400 kV ICT bay – 1 Nos.	24 months

#### 4.11 Paradeep – Andaman HVDC link

- 4.11.1 Representative of CTUIL stated that the peak demand of North, Middle and South Andaman is expected to increase to about 79 MW by 2029-30. Presently, there is dependency on diesel generators to large extent. To supply clean and reliable power towards greening the island initiative and keeping in view the long-term power requirement of Andaman & Nicobar Islands (ANI), a HVDC link from mainland to ANI through undersea cable has been planned.
- 4.11.2 This interconnection would be established with 500 MW HVDC cable with 250 MW terminal in first phase at Andaman Islands and balance 250MW would be transferred to Nicobar Islands in future. The Paradeep – Andaman interconnection is planned as  $\pm 320$ kV, 500 MW HVDC Bipole link (about 1150 km) with 250 MW HVDC terminals to be installed in first phase at both ends.
- 4.11.3 CMD, Grid-India stated that for holistic review of the scheme, it is desirable that the agenda should cover the following:
- Requirement for the VSC link due to space constraints for large scale solar capacity addition in the island, limited wind potential etc. shall be mentioned.
  - Comparison of the electricity tariff with - diesel based generation in the island v/s VSC link and the explicit subsidy granted by the Government to electricity consumers in Andaman could be used for upfront part-grant for HVDC link.
  - Inclusion of the HVDC link as a strategic asset of national importance.
  - The need for maintaining adequate local generation from reliability and resilience considerations
- 4.11.4 He also suggested to find out the frequency of outage and repair time of the cables in the existing undersea HVDC links worldwide.
- 4.11.5 Chairperson, CEA opined that following comparison/studies need to be carried out:
- Techno economic studies of comparison between diesel based plant and laying of subsea cable shall be carried out by considering the 30-35 years life span of cables.
  - Financial support to bring down the transmission cost of the scheme and subsequently tariff.
  - Probable ways of funding



- Sharing of cost/transmission charges

4.11.6 After deliberations, CTUIL was requested to carry out detailed studies and bring the agenda in the next meeting of NCT.

**4.12 Supply and installation of 24 Fibre OPGW on PKTCL lines for providing redundant communication for Parbati Pool (Banala) (PG) S/s, Parbati-II (NHPC) & Parbati-III (NHPC) stations.**

4.12.1 Representative of CTUIL stated that this Scheme has been bifurcated into two parts for OPGW and FOTE

A: Supply and installation of 24 Fibre OPGW on PKTCL lines for providing redundant communication for Parbati Pooling (Banala) (PG) S/s, Parbati-II (NHPC) & Parbati-III (NHPC) stations.

B: Supply and installation of 24 Fibre OPGW & FOTE to providing redundant communication for Parbati Pooling (Banala) (PG) S/s , Parbati-II (NHPC) & Parbati-III (NHPC) stations.

4.12.2 He added that the scheme was approved in the 72<sup>nd</sup> meeting of NRPC.

4.12.3 After Deliberations, NCT approved the scheme Supply and installation of 24 Fibre OPGW on PKTCL lines for providing redundant communication for Parbati Pool (Banala) (PG) S/s, Parbati-II (NHPC) & Parbati-III (NHPC) stations under RTM mode.

4.12.4 Summary of the scheme is given below:

SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crores)	Remarks
A.	Supply and installation of 24 Fibre OPGW on PKTCL lines for providing redundant communication for Parbati Pooling (Banala) (PG) S/s, Parbati-II (NHPC) & Parbati-III (NHPC) stations.  Tentative implementation timeframe : 18 months from the date of allocation	5.31	Approved under under RTM mode through PKTCL
B.	Supply and installation of 24 Fibre OPGW & FOTE to providing redundant communication for Parbati Pooling (Banala) (PG), Parbati-II (NHPC) & Parbati-III (NHPC) stations Tentative implementation timeframe : 18 months from the date of allocation (with matching schedule with Scheme A)	1.24	Approved under RTM mode through POWERGRID



4.12.5 Detailed scope of the scheme is given below:

Sl. No.	Scope of the Transmission Scheme
A.	Supply and installation of OPGW (24F) on following lines owned by PKTCL:  (i) Parbati-II – Parbati-III – <b>9.643 km</b> (ii) Parbati-III – Parbati Pooling (Banala) – <b>3.518 km</b> (iii) Parbati Pooling (Banala) – Koldam (NTPC) – <b>62.636 km</b> (iv) Parbati-II - Parbati Pooling (Banala) – <b>12.838 km</b>  <b>Total km- 88.635</b>
B.	i. Supply and installation of OPGW (24F) on Parbati Pooling (Banala)  ii. Supply and installation of 4 Nos. FOTE (STM-16) at Parbati Pooling (Banala), Parbati-II (NHPC), Parbati-III (NHPC) & Koldam (NTPC)

4.13 **Redundant Communication for Chamera-III (NHPC) & Budhil (GreenCo) using 3 pairs of fibers sharing from HPPTCL network.**

4.13.1 Representative from CTUIL stated that Chamera-III & Budhil stations are presently connected via single fiber path to ISTS network. After implementation of the proposed scheme, Chamera-III & Budhil shall have ring protection as below:

Chamera PS – Chamera-III – Budhil – Lahal - Chamera PS

4.13.2 NCT approved the Scheme “Redundant Communication for Chamera-III (NHPC) & Budhil (GreenCo) using 3 pairs of fibers sharing from HPPTCL network” under RTM mode.

4.13.3 Summary of the scheme is given below:

SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Redundant Communication for Chamera-III (NHPC) & Budhil (GreenCo) using 3 pairs of fibers sharing from HPPTCL network  Tentative implementation timeframe : 18 months from the date of allocation	0.3	Approved under RTM mode through POWERGRID

4.13.4 Detailed scope of the scheme is given below:

Sl. No.	Scope of the Transmission Scheme
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1.	Supply and installation of 1 no. STM-16 FOTE at Lahal (HPPTCL)
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**4.14 Additional FOTE requirements at AGC locations in Western Region**

4.14.1 Representative of CTUIL stated that Additional FOTE requirements at AGC locations in Western Region scheme is proposed in view of resource disjoint and criticality of AGC operation for grid operation purpose and to maintain redundancy with route diversity for critical links.

4.14.2 NCT approved the Scheme “Additional FOTE requirements at AGC locations in Western Region” under RTM mode.

4.14.3 Summary of the scheme is given below:

SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Additional FOTE requirements at AGC locations in Western Region  Implementation timeframe : 12 months from the date of allocation	3.90	Approved under RTM mode through POWERGRID

4.14.4 Detailed scope of the scheme is given below:

Sl. No.	Scope of the Transmission Scheme																														
1.	Supply and installation of 13 nos, 3 MSP (1+1) FOTE (STM-16 capacity) at <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>S.</th> <th>Station Name</th> <th>No of FOTE required</th> </tr> </thead> <tbody> <tr><td>1</td><td>VSTPS III</td><td>2</td></tr> <tr><td>2</td><td>VSTPS V</td><td>2</td></tr> <tr><td>3</td><td>VSTPS II</td><td>2</td></tr> <tr><td>4</td><td>NTPC Gandhar</td><td>1</td></tr> <tr><td>5</td><td>NTPC Khargone</td><td>2</td></tr> <tr><td>6</td><td>Mauda</td><td>1</td></tr> <tr><td>7</td><td>Sipat</td><td>1</td></tr> <tr><td>8</td><td>LARA</td><td>1</td></tr> <tr><td>9</td><td>NSPCL</td><td>1</td></tr> </tbody> </table>	S.	Station Name	No of FOTE required	1	VSTPS III	2	2	VSTPS V	2	3	VSTPS II	2	4	NTPC Gandhar	1	5	NTPC Khargone	2	6	Mauda	1	7	Sipat	1	8	LARA	1	9	NSPCL	1
S.	Station Name	No of FOTE required																													
1	VSTPS III	2																													
2	VSTPS V	2																													
3	VSTPS II	2																													
4	NTPC Gandhar	1																													
5	NTPC Khargone	2																													
6	Mauda	1																													
7	Sipat	1																													
8	LARA	1																													
9	NSPCL	1																													

**4.15 Redundant OPGW communication path for Solapur STPP under AGC**

4.15.1 Representative of CTUIL stated that Solapur STPP is connected to Solapur (PG) through 2 nos. of 400kV D/c Line. Both lines are owned by POWERGRID. At present, OPGW





is installed on one line only. In view of above it is proposed that for redundant communication path, OPGW need to be installed on second line.

4.15.2 NCT approved the Scheme “Redundant OPGW communication path for Solapur STPP under AGC” under RTM mode.

4.15.3 Summary of the scheme is given below:

SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Redundant OPGW communication path for Solapur STPP under AGC  Implementation timeframe : 18 months from the date of allocation	1.15	Approved under RTM mode through POWERGRID

4.15.4 Detailed scope of the scheme is given below:

Sl. No.	Scope of the Transmission Scheme
1.	Supply and installation of <ul style="list-style-type: none"> <li>• 24F OPGW on 400kV Solapur (NTPC)- Solapur (PG) ckt#1/2 (11.16</li> <li>• STM-16, 3 MSP FOTE at Solapur STPP and Solapur PG Station (2</li> </ul>

**4.16 Redundant OPGW communication path for 500 MW plant of NSPCL, Chhattisgarh.**

4.16.1 Representative from CTUIL stated that NSPCL Generating station (500MW plant) is operating under AGC. NSPCL is connected to Raipur (PG) through 400kV D/C Line (with 24F OPGW). NSPCL plant is also connected electrically with 400kV Khedamara S/S of CSPTCL via MSDS-V of BSP. OPGW is available on NSPCL to MSDS-V (BSP) 220kV D/C line (4km). However, OPGW is not available on 220kV D/C line of CSPTCL from MSDS-V to Khedamara S/S. He further stated that OPGW installation on above line shall create one more OPGW path for data communication redundancy. Thus, OPGW needs to be provided by replacing one earth wire on the 220kV D/C line of CSPTCL from MSDS-V to Khedamara S/S.

4.16.2 NCT approved the Scheme “Redundant OPGW communication path for 500 MW plant of NSPCL, Chhattisgarh” under RTM mode.

4.16.3 Summary of the scheme is given below:



SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Redundant OPGW communication path for 500 MW plant of NSPCL, Chhattisgarh Implementation timeframe : 18 months from the date of allocation	0.55	Approved under RTM mode through POWERGRID

4.16.4 Detailed scope of the scheme is given below:

Sl. No.	Scope of the Transmission Scheme
2.	Supply and installation of OPGW along with accessories by replacing the

#### 4.17 Modification in scope of additional 400 kV feed to Goa State and Additional system for power evacuation from generation projects pooled at Raigarh (Tamnar) Pool

4.17.1 CE (PSPM), CEA stated that M/s GTTPL (a subsidiary of Sterlite Power TL) is implementing the transmission scheme “Additional 400 kV feed to Goa State and Additional system for power evacuation from generation projects pooled at Raigarh (Tamnar) Pool” under TBCB route. The original schedule of commissioning of the scheme was July, 2022. One of the elements of the mentioned transmission scheme is “LILO of one ckt. of Narendra (existing) - Narendra (New) 400 kV D/c quad line at Xeldem”. Length of LILO is 105 km (Approx.) out of which 55 km (Approx.) is in forest.

4.17.2 During implementation of the said transmission scheme, a petition was filed by Goa Foundation in Central Empowered Committee (CEC) constituted by Supreme Court and High Court of Mumbai & Goa. The CEC submitted its report to Supreme Court on 23rd April 2021 and recommended some modifications in the element of “LILO of one ckt. of Narendra (existing) – Narendra (new) 400 kV D/C line at Xeldem”. Supreme Court vide its order in hearing dated 07.04.2022 has approved the recommendation made by CEC to use the (ROW) of existing 110 kV line of Supa-Ponda & 220 kV line of Ambewadi -Ponda line and directed GTTPL to take suitable steps in accordance with the recommendation made therein.

4.17.3 KPTCL and GED, however, recommended to retain the existing 220 kV Ambewadi-Ponda line from reliability point of view and suggested M/s GTTPL to use multi circuit tower so that 400 kV line can be constructed in the existing corridor while retaining existing 220 kV line also on same towers.



- 4.17.4 Since the multi circuit tower was not in the original scope, M/s GTTPL sought consent from all LTTCs and submitted the cost implication details. LTTCs have not consented to the proposal citing that retention of 220 kV Ambewadi-Ponda line is the requirement of Karnataka and Goa and therefore, they may bear the cost of multi circuit multi voltage line and M/s GTTPL should seek approval from CERC before proceeding.
- 4.17.5 It was opined that the transmission line is already significantly delayed and since the existing corridor of 110 kV and 220 kV lines have to be used as per the Supreme court order, the most optimized option would be to allow M/s GTTPL to continue with the implementation works with use multi circuit tower so that 400 kV line can be constructed in the existing corridor while retaining existing 220 kV Ambewadi-Ponda line also.
- 4.17.6 After deliberations, NCT agreed for modification in scope of the transmission scheme “Additional 400 kV feed to Goa State and Additional system for power evacuation from generation projects pooled at Raigarh (Tamnar) Pool” to the extent that multi circuit towers to implemented in the existing corridor for construction of LILO of one ckt. of Narendra (existing) – Narendra (new) 400 kV D/C line at Xeldem to accommodate existing 220 kV lines.

## **5 Transmission System for integration of Nizamabad, Medak and Rangareddy REZs in Telangana**

- 5.1 CTU representative informed that the transmission schemes “Transmission System for integration of Nizamabad, Medak and Rangareddy REZs” has been forwarded to CEA vide letter dated 11.07.2023 for consideration of the NCT along with the SRPC views. However, decision regarding further course of action for implementation of these transmission schemes is yet to be taken.
- 5.2 SECI representative informed that they have held deliberations with the RE developers for these locations in Telangana wherein the developers have informed that they are not in position to establish the RE projects in these locations in Telangana due to very high land prices/non-availability of land. SECI representative also informed that bids were invited by SECI for Telangana State specific capacities, however did not received any response.

SECI vide letter dated 04.03.2024 have communicated to MNRE that the 13 GW potential identified in the State of Telangana (Nizamabad, Medak, Rangareddy and Karimnagar districts) may be replaced by new alternative locations of Mahbubnagar, Nagarkurnool, Wanaparthi, Jogudumba Gadwal and Kamareddy. However, formal communication in this respect from MNRE is awaited. Accordingly, SECI representative suggested that the decision on implementation of the transmission schemes in Telangana may be kept on hold, till further communication from MNRE/SECI.



- 5.3 After deliberations, NCT decided that implementation of the transmission schemes in Telangana may be kept on hold till further communication from MNRE.

## **6 Status of the bids under process by BPCs**

- 6.1 Both the Bid Process Coordinators [BPCs], i.e, PFCCL and RECPDCL made presentations on under bidding Inter State Transmission Schemes. Salient points of the discussion were as under:
- Transmission scheme “Creation of 400/220 kV, 2x315 MVA S/S at Siot, Jammu & Kashmir” is on hold from 2021 due to non-finalization of the downstream network by J&K. Chairperson, CEA, directed BPC to seek the timeframe of implementation of downstream network from JKPTCL.
  - Transmission system for evacuation of power from Chhatarpur SEZ (1500 MW) in Madhya Pradesh is also on hold due to non-finalization of location by the REZ. Chairperson, CEA suggested PFCCL to take up the matter with Madhya Pradesh.
  - Bidding Process for “Transmission System for Evacuation of Power from potential renewable energy zone in Khavda area of Gujarat under Phase-V (8 GW): Part C” to be reviewed in next meeting.
  - On the matter of frequent shifting of bidding deadlines, BPCs informed that the bidding timeline are increased due to the queries raised by the bidders at the last moment. It was suggested that all the queries should be received on bidding portals which should have fixed window for submission of queries. No further queries should be entertained after a specified timeline. It was also decided that a Standing Committee for resolving bidder’s queries may be constituted with members from CEA, CTU and BPCs. The meeting of the Standing Committee would be convened by the concerned BPC for the specific queries not resolved within seven days by the BPCs at their level.

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**Summary of the deliberations of the 20<sup>th</sup> meeting of NCT held on 25<sup>th</sup> June, 2024**

**I. Modification in the earlier approved/notified transmission schemes:**

**1. Augmentation of transformation capacity at Jam Khambhaliya PS (JKTL)-PART B.**

NCT approved the following modifications in the scope at Sl. 1, 2, 4 & 7 of the transmission scheme “Augmentation of transformation capacity at Jam Khambhaliya PS (JKTL)- PART-B”.

<i>Sl.</i>	<i>Scope of the Transmission</i>	<i>Capacity /km</i>	<i>Implementation Time-</i>
<b>1</b>	Creation of New 220 kV Bus Section-II at Jam Khambhaliya PS	220 kV Bus sectionaliser bay – 1 Set  (to be kept normally CLOSED and may be opened based on system requirement)  220 kV BC – 1 No.	<b>21 months</b>
<b>2</b>	Augmentation of transformation capacity at Jam Khambhaliya PS (GIS) by 2x500 MVA, 400/220 kV ICT (5th & 6th) (terminated on New 220 kV bus section-II)	500 MVA, 400/220 kV ICTs: 2 Nos. 400 kV ICT bays: NIL* 220 kV ICT bays: 2 Nos.  Bus duct outside GIS hall along with termination equipment shall be provided.	No change
<b>4</b>	Implementation of 220 kV GIS line bays at Jam Khambhaliya PS for RE Projects on New 220 kV bus section-II	220 kV line bay – 3 Nos. (GIS)  (1 for ACME Sun Power Pvt Ltd, 1 for Juniper Green Energy Pvt Ltd. & 1 no. for Mounting (MRPL))	<b>MRPL Bay: 21 months</b>  <b>ACME Bay: 21 months#</b>  <b>Juniper Bay: Jun-27</b> subject to minimum schedule of 21 months from date of award of balance works.



7	Augmentation of transformation capacity at Jam Khambhaliya PS (GIS) by 1x500 MVA, 400/220 kV (9th) ICT terminated on New 220 kV bus section-III	500 MVA, 400/220 kV ICTs: 1 No.  400 kV ICT bay: 1 No. (TSP to implement complete dia. in all respects with the other 400 kV bay to be utilized by <del>EETTEL</del> (Bulk consumer) in future)  220 kV ICT bay: 1 No.	No change
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*\*Note: Termination of the 2x500 MVA ICTs under present scope shall be in the '2' separate dia's which are being developed by POWERGRID for RIL for termination of 400 kV Jam Khambhaliya - Jamnagar D/c line. TSP shall implement 400 kV side GIS Duct required for interconnection of ICT-5 & 6 at 400 kV Jam Khambhaliya PS [length is approx. 350 M. (Actual length shall be finalized based upon final layout)] along with associated equipment as required*

*# Earlier schedule was specified as March-26 subject to minimum schedule of 21 months from date of award of balance works. However, considering present status, schedule of 21 months may directly be specified.*

## 2. Modification in design / layout of Kurnool-III PS due to receipt of large quantum of Connectivity applications at 400 kV level

NCT approved following modifications in the scope of design / layout of Kurnool-III PS:

Sl. No.	Bay Type	Present scope	Revised Present scope	Future Scope	Revised Future scope
<b>765 kV Switchyard: No change</b>					
<b>400 kV switchyard</b>					
1	Line with Reactor	0	0	10	22
2	Tie	9	10	11	12
3	400/220 kV Transformer Bay	9	9 (2 shifted to new section)	11	5
4	765/400 kV Transformer Bay	3	3	4	4
5	Bus Sectionaliser	0	0	1 set	2 set
6	Bus Reactor	1	1	-	Any Line with reactor bay may be used as Bus reactor bay
<b>220 kV switchyard</b>					
1	Line	15	15 (5 Nos. Shifted to new section)	11	5





Sl. No.	Bay Type	Present scope	Revised Present scope	Future Scope	Revised Future scope
2	400/220 kV Transformer Bay	9	9 (2 shifted to new section)	11	5
3	Bus Coupler	3	3	3	1
4	Transfer Bus coupler	3	3	3	1
5	Bus section	2 set	2 set	3 set	0

Additional works due to rearrangement / revised scope:

Sl. No.	Items
1	Land development for additional area for 400 & 220 kV Switchyard
2	400 kV Bus works for 8 Nos. additional diameters
3	Earth mat for additional area for 400 & 220 kV Switchyard
4	Other Auxiliary items i.e. additional requirement of Power & Control Cables, illumination, VMS etc.
5	Associated civil works including dismantling of foundations already casted

### 3. Change in Implementation time-frame of Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)

NCT approved the change in Implementation time-frame of Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX) from 30th June, 2026 to 31st December, 2026.

### 4. System strengthening at Koppal-II and Gadag-II for integration of RE generation

NCT, approved following scope of work to be appended to the “*System strengthening at Koppal-II and Gadag-II for integration of RE generation*” agreed in the 19th NCT meeting:

- **Koppal-II PS:** 220kV Bus Sectionalizer : 2 sets, 220 kV Bus Coupler (BC) Bay – 2 Nos., 220 kV Transfer Bus Coupler (TBC) Bay – 2 Nos. and 400kV Bus Sectionalizer :1 set
- **Gadag-II PS:** 220 kV Bus Sectionalizer : 2 sets, 220 kV Bus Coupler (BC) Bay – 2 Nos. and 220 kV Transfer Bus Coupler (TBC) Bay – 2 Nos.

### 5. Transmission system for evacuation of power from Luhri Stage-I HEP

NCT approved following modifications in the Transmission system for evacuation of power from Luhri Stage-I HEP scheme:



Sl. No.	Earlier Scope of Transmission Scheme	Revised Scope of Transmission Scheme
1	<p>Establishment of 7x105 MVA, 400/220 kV <b>Nange GIS Pooling Station</b> along with 125 MVAR (420kV) Bus Reactor at Nange (GIS) PS(1-Ph units along with one spare unit)</p> <ul style="list-style-type: none"> <li>• 315MVA, 400/220kV ICT: 2 Nos.(7x105 MVA including 1 spare ICT)</li> <li>• 400kV ICT bays: 2 Nos.</li> <li>• 220kV ICT bays: 2 Nos.</li> <li>• 400 kV, 125 MVAr Bus Reactor # – 1 No.</li> <li>• 400 kV Bus Reactor bay- 1 No.</li> <li>• 400 kV Line Bays- 2 Nos.</li> </ul> <p>Future provisions: Space for</p> <ul style="list-style-type: none"> <li>• 400/220kV ICTs (315 MVA with single phase units) along with associated bays: 3 Nos.</li> <li>• 400 kV line bays along with switchable line reactor: 3 Nos.</li> <li>• 220 kV line bays: 10 Nos.</li> <li>• 220kV bus sectionalizer: 1 set</li> </ul>	<p>Establishment of 7x105 MVA, 400/220kV <b>Pooling Station near Koldam (GIS)</b> along with 125 MVAR (420kV) Bus Reactor (1-Ph units along with one spare unit)</p> <ul style="list-style-type: none"> <li>• 315MVA, 400/220 kV ICT: 2 Nos. (7x105 MVA including 1 spare ICT)</li> <li>• 400kV ICT bays: 2 Nos.</li> <li>• 220 kV ICT bays: 2 Nos.</li> <li>• 400 kV, 125 MVAr Bus Reactor – 1 No.</li> <li>• 400 kV Bus Reactor bay- 1 No.</li> <li>• 400 kV Line Bays- 2 Nos.</li> </ul> <p>Future provisions: Space for</p> <ul style="list-style-type: none"> <li>• 400/220 kV ICTs (315 MVA with single phase units) along with associated bays: 3 Nos.</li> <li>• 400 kV line bays along with switchable line reactor: 3 Nos.</li> <li>• 220 kV line bays: 10 Nos.</li> <li>• 220kV bus sectionalizer: 1 set</li> </ul>
2	<p><b>Nange (GIS) Pooling Station</b> – Koldam 400 kV D/C line (Triple snowbird) (only one circuit is to be terminated at Koldam while second circuit would be connected to bypassed circuit of Koldam – Ropar/Ludhiana 400kV D/C line)-<b>40 km</b></p>	<p><b>Pooling Station near Koldam (GIS)</b>– Koldam (NTPC) 400 kV D/C line (Triple snowbird) (only one circuit is to be terminated at Koldam(NTPC) while second circuit would be connected to bypassed circuit of Koldam(NTPC) – Ropar/Ludhiana 400kV D/C line) – <b>7 km</b></p>
3	<p>1 no. of 400kV line bay at Koldam S/S for termination of <b>Nange (GIS) Pooling Station</b> – Koldam 400 kV line along with 125 MVAR (420kV) Bus Reactor at Koldam S/s (1-Ph units along with one spare unit)</p> <ul style="list-style-type: none"> <li>• 400 kV Line Bay- 1 no.</li> <li>• 400 kV, 125 MVAr Bus Reactor# - 1 no.</li> </ul>	<p>1 no. of 400kV line bay at Koldam S/s for termination of <b>Pooling Station near Koldam (GIS)</b>– Koldam(NTPC) 400 kV line along with 125 MVAR (420kV) Bus Reactor at Koldam(NTPC) S/s (1-Ph units along with one spare unit)</p> <ul style="list-style-type: none"> <li>• 400 kV Line Bay- 1 no.</li> <li>• 400 kV, 125 MVAr Bus Reactor# - 1 no. (to be terminated in existing</li> </ul>



Sl. No.	Earlier Scope of Transmission Scheme	Revised Scope of Transmission Scheme
	<ul style="list-style-type: none"> <li>400 kV, 125 MVA<sub>r</sub> Bus Reactor<sup>#</sup> - 1 no. (to be terminated in existing line bay at Koldam, which would be available due to bypassing of one circuit of Koldam – Ropar/Ludhiana 400 kV D/c line at Koldam S/s)</li> </ul>	line bay at Koldam(NTPC), which would be available due to bypassing of one circuit of Koldam – Ropar/Ludhiana 400 kV D/c line at Koldam(NTPC) S/s)
4	Bypassing one ckt of Koldam – Ropar/Ludhiana 400kV D/C line (Triple snowbird) at Koldam and connecting it with one of the circuit of <b>Nange-Koldam</b> 400kV D/C line (Triple snowbird), thus forming <b>Nange- Ropar/ Ludhiana</b> one line (Triple snowbird)	Bypassing one ckt of Koldam(NTPC) – Ropar/Ludhiana 400kV D/C line (Triple snowbird) at Koldam(NTPC) and connecting it with one of the circuit of <b>Pooling Station near Koldam (GIS)</b> – Koldam(NTPC) 400kV D/c line (Triple snowbird), thus forming <b>Pooling Station near Koldam</b> – Ropar/ Ludhiana one line (Triple snowbird)
5	1x50 MVAR switchable line reactor at Ropar end of Nange-Ropar/ Ludhiana 400kV line <ul style="list-style-type: none"> <li>400 kV, 50MVA<sub>r</sub> Line Reactor- 1 no.</li> <li>400 kV Reactor Bay- 1 no</li> </ul>	--- Deleted ---
	<b>Earlier Estimated Cost: Rs. 432 Cr.</b>	<b>Revised Estimated Cost: Rs. 305 Cr.</b>

#### 6. Augmentation with 400/220 kV, 1x500 MVA Transformer (10<sup>th</sup>) at Fatehgarh-2 PS

NCT approved modification in the transmission scheme for “Augmentation with 400/220 kV, 1x500 MVA Transformer (10<sup>th</sup>) at Fatehgarh-2 PS” as mentioned below so that same can be taken up for implementation:

Earlier (as per MOP OM dated 01.12.21)	Amendment
Augmentation with 400/220 kV, 1x500 MVA Transformer (10 <sup>th</sup> ) at Fatehgarh-2 PS <ul style="list-style-type: none"> <li>400/220 kV 500 MVA ICT:1 no</li> <li>400 kV ICT bays – 1 Nos.</li> <li>220 kV ICT bays - 1 Nos.</li> </ul> <p><b>Implementation Timeframe- 15 months from MOP OM or evacuation</b></p>	Augmentation with 400/220 kV, 1x500 MVA Transformer (11 <sup>th</sup> ) at Fatehgarh-II PS (5 <sup>th</sup> ICT in Fatehgarh-II section-II) <ul style="list-style-type: none"> <li>400/220 kV 500 MVA ICT:1 no</li> <li>400 kV ICT bays – 1 no.</li> <li>220 kV ICT bays - 1 no.</li> </ul> <p><b>Implementation Timeframe- 18 months</b></p>



requirement beyond 4490 MW at 220 kV level of Fatehgarh-2, whichever is later.	[for N-1 compliance in Fatehgarh-II PS (Section-II)]
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**7. Modification in scope of additional 400 kV feed to Goa State and Additional system for power evacuation from generation projects pooled at Raigarh (Tamnar) Pool**

NCT agreed for modification in scope of the transmission scheme “Additional 400 kV feed to Goa State and Additional system for power evacuation from generation projects pooled at Raigarh (Tamnar) Pool” to the extent that multi circuit towers to implemented in the existing corridor for construction of LILO of one ckt. of Narendra (existing) – Narendra (new) 400 kV D/C line at Xeldem to accommodate existing 220 kV lines.

**II. ISTS Transmission schemes, costing between Rs 100 Crore to Rs 500 Crore, approved by NCT:**

The transmission schemes approved by NCT under RTM route is given below:

Sl. No.	Name of Transmission Scheme	Implementation Mode	Implementation timeframe	Estimated Cost (Rs. Crs)
1.	Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW) : Part B	RTM	24 Months or matching with Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW) : Part-A scheme whichever is later	195.67

The broad scope of the above schemes is as given below:

Sl. No.	Name of Transmission Scheme	Broad Scope
1.	Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW) : Part B	<ul style="list-style-type: none"> <li>i. Reconductoring of 400 kV Kishenpur-Kishtwar section (up to LILO point) with Twin HTLS (minimum 2100 MVA capacity) (formed after LILO of Kishenpur-Dulhasti line at Kishtwar S/s) along with bay upgradation works (2000 A to 3150 A) at Kishenpur end for above line.</li> <li>ii. Bypassing both ckts of 400 kV Kishenpur – Samba D/c line (Twin) &amp; 400 kV Samba – Jalandhar D/c line (Twin) at Samba and connecting them together to form 400 kV Kishenpur– Jalandhar D/c direct line (Twin)</li> </ul>



		<p>(4 Nos. of vacated 400 kV line bays at Samba S/s will be utilized for 400 kV Kishenpur-Samba D/c line (Quad) &amp; 400 kV Samba-Jalandhar D/c line(Quad),</p> <p>iii. Bays upgradation works (2000A to 3150A) at Samba end (4 Nos. bays vacated after bypassing of Kishenpur – Samba D/c line (Twin) &amp; 400 kV Samba – Jalandhar D/c line (Twin))</p> <p>iv. Redundant Communication System for Dulhasti (NHPC) &amp; Kishtwar (Sterlite) stations by installing OPGW on 400 kV Kishenpur-Kishtwar S/c line alongwith reconductoring work and FOTE at Dulhasti &amp; Kishenpur.</p>
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(Detailed scope as approved by 20<sup>th</sup> NCT and subsequent amendments thereof)

**III. ISTS Transmission schemes, costing greater than Rs 500 Crore, recommended by NCT to MoP:**

The ISTS transmission schemes recommended by NCT to MoP are given below:

Sl. No.	Name of Transmission Scheme	Implementation Mode	Tentative Implementation timeframe	BPC	Estimated Cost (Rs. Crs)
1.	Network Expansion scheme in Western Region to cater to Pumped storage potential near Talegaon (Pune)	TBCB	01.01.2027 subject to minimum implementation schedule of 24 months from SPV transfer	RECPDCL	1663
2.	Provision of ICT Augmentation and Bus Reactor at Bhuj-II PS	TBCB	21 months from SPV transfer	PFCCCL	587
3.	Transmission System for Offshore Wind Zone Phase-1 (500 MW VGF off the coast of Gujarat for Subzone B3)	RTM	Matching with the associated RE generation (48 months from effective date of PPA), presently anticipated by 31 <sup>st</sup> March, 2029		6900
4.	Transmission System for Offshore wind farm in Tamil Nadu {500 MW VGF}	RTM	31 <sup>st</sup> March 2030		6242
5.	Transmission System for evacuation of power from	TBCB	30 months from SPV transfer	PFCCCL	558



	Mahan Energen Limited Generating Station in Madhya Pradesh				
6.	Transmission system for Augmentation of transformation capacity at 765/400kV Lakadia S/s (WRSS XXI(A) Transco Ltd) in Gujarat – Part B	TBCB	As per detailed scope	RECPDCL	636
7.	Transmission System for evacuation of RE power from Raghnesda area of Gujarat – 3GW under Phase-I	TBCB	30 months from SPV transfer	PFCCCL	1855
8.	Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A	TBCB	24 Months from the date of SPV transfer	RECPDCL	1213.87
9.	Transmission system strengthening at Kurnool-III PS for integration of additional RE generation projects	TBCB	Package A– 24 months Package B – progressively from June'25 to Dec'27 Package C – 24 months	PFCCCL	2886

The broad scope of the above ISTS schemes to be notified in Gazette of India is as given below:

Sl. No.	Name of Scheme & Tentative implementation timeframe	Broad Scope	Bid Process Coordinator





1.	<p>Network Expansion scheme in Western Region to cater to Pumped storage potential near Talegaon (Pune)</p> <p><b>Implementation Timeframe:</b> 01.01.2027 subject to minimum implementation schedule of 24 months from SPV transfer</p>	<p>i. Establishment 2x1500 MVA, 765/400 kV Substation near South of Kalamb with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor</p> <p>ii. LILO of Pune-III – Boisar-II 765 kV D/c line at South Kalamb S/s with associated bays at South Kalamb S/s</p> <p>iii. Installation of 1x240 MVAR switchable line reactor on each ckt at South Kalamb end of Boisar-II – South Kalamb 765 kV D/c line (formed after above LILO)</p> <p><b>(Detailed scope as approved by 20<sup>th</sup> NCT and subsequent amendments thereof)</b></p>	RECPDCL
2.	<p>Provision of ICT Augmentation and Bus Reactor at Bhuj-II PS</p> <p><b>Implementation timeframe : 21 months from SPV transfer</b></p>	<p>i. Augmentation of transformation capacity at Bhuj-II PS (GIS) by 3x500 MVA, 400/220 kV ICT (7<sup>th</sup>, 8<sup>th</sup> &amp; 9<sup>th</sup>)</p> <p>ii. Augmentation of transformation capacity at Bhuj-II PS (GIS) by 1x1500 MVA, 765/400 kV ICT (4<sup>th</sup>)</p> <p>iii. Installation of 1x330 MVAR 765 kV Bus Reactor (2nd) along-with associated bay</p> <p>iv. Implementation of 220 kV GIS line bay at Bhuj-II PS for Aditya Birla Renewables Subsidiary Limited (ABRSL) [Appln No: 2200000321(362MW)]</p> <p>v. Implementation of 220 kV GIS line bay at Bhuj-II PS for ACME Cleantech Solutions Private Limited (ACSPL) [Appln No: 2200000382(350 MW)]</p> <p>vi. Implementation of 220 kV GIS line bay at Bhuj-II PS for ACME Cleantech Solutions Private Limited (ACSPL) [Appln No: 2200000431(50 MW)]</p> <p>vii. Implementation of 220 kV GIS line bay at Bhuj-II PS for Avaada Energy Pvt Ltd. (AEPL) [Appl. No: 2200000444(100 MW)]</p> <p>iii. Implementation of 220 kV GIS line bays at Bhuj-II PS for Adani Green</p>	PFCCCL



		<p>Energy Thirty-Two Ltd. (AGE32L) [Appl. No: 2200000514 (260.5MW)]</p> <p>ix. Implementation of 220 kV GIS line bays at Bhuj-II PS for Adani Renewable Energy Eight Ltd. (ARE8L) [Appl. No: 2200000545 (115MW)]</p> <p><b>(Detailed scope as approved by 20<sup>th</sup> NCT and subsequent amendments thereof)</b></p>	
3.	<p>Transmission System for Offshore Wind Zone Phase-1 (500 MW VGF off the coast of Gujarat for Subzone B3)</p> <p><b>Implementation timeframe :</b> Matching with the associated RE generation (48 months from effective date of PPA), presently anticipated by 31<sup>st</sup> March, 2029</p>	<p><b>A. Transmission System onwards Onshore Pooling Station</b></p> <ol style="list-style-type: none"> <li>1. Establishment of 2x500 MVA, 400/220 kV Mahuva Onshore Pooling Station (GIS) (Mahuva PS) alongwith 1x125 MVAR, 420 kV bus reactor (with space provision for upgradation to 765 kV level to cater to future Offshore Wind Projects adjacent to B3, B4, B5 pockets in future)</li> <li>2. Creation of 400kV switchyard along with Installation of 2x1500 MVA, 765/400 kV ICTs at Vataman (AIS) with 2x125 MVAR (420 kV) Bus Reactors</li> <li>3. 2 nos. 400kV bays at Vataman for termination of Mahuva Onshore PS (GIS) – Vataman 400 kV D/c line</li> <li>4. Mahuva Onshore PS (GIS) – Vataman 400 kV D/c line (Quad ACSR/AAAC/AL59 moose equivalent) with 63MVAR &amp; 50 MVAR, 420 kV switchable line reactors on each ckt at Mahuva &amp; Vataman ends respectively.</li> <li>5. ± 300 MVAR STATCOM at 220 kV level of Mahuva PS (GIS) with 1 No. of 220 kV bay</li> <li>6. 420 kV, 1x125 MVAR Variable Bus Shunt Reactor with OLTC (control range between 50 – 125</li> </ol>	



		<p>MVAr for VSR) with 1 No. of 400 kV bay</p> <p>7. 245 kV, 3x50 MVAr Bus Reactors at 220 kV level of Mahuva PS (GIS)</p> <p><b>B. Transmission System for integration of Offshore Wind Farms with Onshore PS</b></p> <p><b>Offshore Substation-1 {500 MW VGF}</b></p> <p>1. Establishment of 2x315 MVA, 220/66 kV Gujarat Offshore B3 Sub-Station Station-1 (B3-OSS-1) with 66 kV line bays – 10 Nos. for RE Interconnection</p> <p>2. B3-OSS-1 – Mahuva Onshore PS (GIS) 220 kV two nos. (3 core) cables (45 km- under sea cable of about 35 km &amp; under ground cable of about 10 km) alongwith associated line bays at both ends (with capacity of 300 MVA/ckt at nominal voltage) with 1x50 MVAr switchable line reactors at B3-OSS-1 end on each cable</p> <p><b>(Detailed scope as approved by 20<sup>th</sup> NCT and subsequent amendments thereof)</b></p>	
4.	<p>Transmission System for Offshore wind farm in Tamil Nadu {500 MW VGF}</p> <p><b>Implementation timeframe : 31<sup>st</sup> March 2030</b></p>	<p><b>A. Transmission System onwards Onshore Pooling Station</b></p> <p>1. Establishment of 2x500 MVA, 400/230 kV Onshore Pooling Station near Avaraikulam, Tirunelveli District in Tamil Nadu with provision of expansion upto 5 GW</p> <p>2. Avaraikulam Onshore PS – Tuticorin PS 400 kV D/c quad line</p> <p>3. <math>\pm</math> 300 MVAr STATCOM along with 2x125 MVAr MSR</p>	



		<p><b>B. Transmission System for integration of Offshore Wind Farms with Onshore PS</b></p> <p><b>Offshore Substation-1 {500 MW VGF}</b></p> <ol style="list-style-type: none"> <li>1. Establishment of 2x315 MVA, 230/66kV Off-Shore Substation-1 with 10 nos. of 66kV line bays for RE integration</li> <li>2. Offshore substation 1 (OSS-1) – Avaraikulam Onshore PS 2 nos. 230kV (at least 300 MVA capacity) Submarine cables (~35 - 40 km) with 2x50MVA switchable line reactors at OSS-1 end</li> </ol> <p><b>(Detailed scope as approved by 20<sup>th</sup> NCT and subsequent amendments thereof)</b></p>	
5.	<p>Transmission System for evacuation of power from Mahan Energen Limited Generating Station in Madhya Pradesh</p> <p><b>Implementation timeframe : 30 months from SPV transfer</b></p>	<ol style="list-style-type: none"> <li>i. Mahan (existing bus) – Rewa PS (PG) 400 kV D/c (Quad ACSR/AAAC/AL59 moose equivalent)line</li> <li>ii. 2 Nos. 400 kV bays at Rewa PS (PG) for termination of Mahan (existing bus) – Rewa PS (PG) 400 kV D/c line (Quad ACSR/AAAC/AL59 moose equivalent)line</li> </ol> <p><b>(Detailed scope as approved by 20<sup>th</sup> NCT and subsequent amendments thereof)</b></p>	PFCCCL
6.	<p>Transmission system for Augmentation of transformation capacity at 765/400kV Lakadia S/s (WRSS XXI(A) Transco Ltd) in Gujarat – Part B</p> <p><b>Implementation timeframe : as per</b></p>	<ol style="list-style-type: none"> <li>i. Installation of 2x500 MVA, 400/220 kV ICTs (3<sup>rd</sup> &amp; 4<sup>th</sup>) at Lakadia PS along with associated ICT bays</li> <li>ii. Implementation of 220 kV line bay at Lakadia PS for TEQ Green Power XVII Private Limited (TGPXVIIPL: 300 MW)</li> <li>iii. Implementation of 220 kV line bay at Lakadia PS for Arcelor Mittal Nippon Steel India Limited (AMNSIL: 350 MW)</li> </ol>	RECPDCL



<p>Detailed Scope</p>	<ul style="list-style-type: none"> <li>iv. Implementation of 220 kV line bay at Lakadia PS for Renew Solar (Shakti Eight) Private Limited (RS(S8)PL: 200 MW)</li> <li>v. Creation of New 220 kV Bus Section-II at Lakadia PS along with 220 kV Sectionaliser arrangement between 220 kV Bus sec-I &amp; Sec-II</li> <li>vi. Augmentation of transformation capacity at Lakadia PS by 4x500 MVA, 400/220 kV ICTs (5<sup>th</sup>, 6<sup>th</sup>, 7<sup>th</sup> &amp; 8<sup>th</sup>) terminated on new 220 kV Bus Section-II</li> <li>vii. Implementation of 220 kV line bay at Lakadia PS for Juniper Green Energy Private Limited (JGEPL) (Appl. No. 2200000376: 300 MW)</li> <li>viii. Implementation of 220 kV line bay at Lakadia PS for TEQ Green Power XVI Pvt. Ltd. (TGPXVIPL) (Appl. No. 2200000398: 76MW)</li> <li>ix. Implementation of 220 kV line bay at Lakadia PS for Ganeko Solar Pvt. Ltd. (GSPL) (Appl. No. 2200000458: 290 MW)</li> <li>x. Implementation of 220 kV line bay at Lakadia PS for Juniper Green Energy Private Limited (JGEPL) (Appl. No. 2200000500: 150 MW)</li> <li>xi. Implementation of 220 kV line bay at Lakadia PS for Serentica Renewables India Private Limited (SRIPL) (Appl. No. 2200000610: 200 MW)</li> <li>xii. Implementation of 220 kV line bay at Lakadia PS for RDS Solar Park Private Limited (RDSSPPL) (Appl. No. 2200000639: 350 MW)</li> <li>xiii. Implementation of 220 kV line bay at Lakadia PS for Percentum Renewables Private Limited (PRPL) (Appl. No. 2200000673: 148 MW)</li> <li>xiv. Installation of 1x330 MVAr 765 kV Bus Reactor (2nd) along-with associated bay</li> </ul>	
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		xv. Augmentation of transformation capacity at Lakadia PS by 1x1500 MVA, 765/400 kV ICTs (3rd)  <b>(Detailed scope as approved by 20<sup>th</sup> NCT and subsequent amendments thereof)</b>	
7.	Transmission System for evacuation of RE power from Raghnesda area of Gujarat – 3GW under Phase-I  <b>Implementation timeframe : 30 months from SPV transfer</b>	i. Establishment of 3x1500 MVA, 765/400 kV Substation near Raghnesda (GIS) with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor ii. Raghnesda (GIS) – Banaskantha (PG) 765 kV D/c line iii. 2 Nos. 765 kV line bays at Banaskantha (PG) S/s  <b>(Detailed scope as approved by 20<sup>th</sup> NCT and subsequent amendments thereof)</b>	PFCCL
8.	Transmission scheme for evacuation of power from Ratle HEP (850 MW)  <b>Implementation timeframe : 24 Months from the date of SPV transfer</b>	i. LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s along with associated bays at Kishtwar S/s ii. 400 kV Kishenpur-Samba D/c line (Quad) (only one circuit is to be terminated at Kishenpur utilizing 1 no. of 400 kV vacated line bay at Kishenur S/s (formed with bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/c line (Quad) at Kishenpur) while second circuit would be connected to bypassed circuit of 400 kV Kishtwar – Kishenpur line (Quad)) iii. Bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/c line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/c line(Quad), thus forming <b>400 kV Kishtwar - Samba (Quad) direct line (one ckt)</b> iv. 1x80 MVA Switchable line reactor at Samba end of 400 kV Kishtwar-Samba 400 kV line-165 km (Quad) [formed after bypassing of 400 kV Kishtwar – Kishenpur line (Quad) at Kishenpur and connecting it with one	RECPDCL





		<p>of the circuit of Kishenpur-Samba 400 kV D/c line(Quad))</p> <p>v. 1x63 MVAr Switchable line reactor on each ckt at Jalandhar end of Kishenpur–Jalandhar D/c direct line - 171km(Twin) (formed after bypassing both ckts of 400 kV Kishenpur – Samba D/c line (Twin) &amp; 400 kV Samba – Jalandhar D/c line (Twin) at Samba and connecting them together to form Kishenpur–Jalandhar D/c direct line (Twin))</p> <p>vi. 400 kV Samba- Jalandhar D/c line(Quad) (only one circuit is to be terminated at Jalandhar utilizing 1 no. of 400 kV vacated line bay at Jalandhar S/s (formed with bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar) while second circuit would be connected to bypassed circuit of Jalandhar –Nakodar 400 kV line (Quad))</p> <p>vii. 1x80 MVAr Switchable line reactor at Samba end of Samba –Nakodar direct line (Quad) (187km) formed after bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/c line(Quad Moose), thus forming Samba –Nakodar line (Quad)</p> <p>viii. Bypassing 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/c line(Quad Moose), thus forming <b>400 kV Samba –Nakodar (Quad) direct line</b></p> <p><b>(Detailed scope as approved by 20<sup>th</sup> NCT and subsequent amendments thereof)</b></p>	
9.	Transmission system strengthening at Kurnool-III PS for integration of	<p><b>Package A</b></p> <p>i. Augmentation of transformation capacity by 3x1500 MVA, 765/400 kV ICTs at Kurnool-III PS</p>	PFCCCL



	<p>additional RE generation projects</p> <p><b>Implementation timeframe :</b>          Package A– 24 months          Package B – progressively from June’25 to Dec’27          Package C – 24 months</p>	<p>ii. Kurnool-III PS – Chilakaluripeta 765 kV D/c line with 240 MVAR switchable line reactors at both ends</p> <p><b>Package B</b></p> <p>i. 2 Nos. of 400 kV line bays at Kurnool-III PS for termination of dedicated transmission line of M/s Adani Renewable Energy Forty Two Ltd.          ii. 4 Nos. of 400 kV line bay at Kurnool-III PS for termination of dedicated transmission lines of M/s Indosol Solar Pvt. Ltd.          iii. 2 Nos. of 400 kV line bays at Kurnool-III PS for termination of dedicated transmission line of M/s Adani Renewable Energy Fifty One Ltd.</p> <p><b>Package C</b></p> <p>i. Augmentation of 1x1500 MVA 765/400 kV ICT (7<sup>th</sup>) at Kurnool-II PS</p> <p><b>(Detailed scope as approved by 20<sup>th</sup> NCT and subsequent amendments thereof)</b></p>	
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**IV. ISTS communication schemes approved by NCT:**

Sl. No.	Name of Transmission Scheme	Implementation Mode	Tentative Implementation timeframe	Implementing Agency	Estimated Cost (Rs. Crs)
1.	A: Supply and installation of 24 Fibre OPGW on PKTCL lines for providing redundant communication for Parbati Pooling (Banala) (PG) S/s, Parbati-II (NHPC) &	RTM	18 months from the date of allocation	PKTCL	5.31



	Parbati-III (NHPC) stations.  B: Supply and installation of 24 Fibre OPGW & FOTE to providing redundant communication for Parbati Pooling (Banala) (PG) S/s, Parbati-II (NHPC) & Parbati-III (NHPC) stations.	RTM	18 months from the date of allocation (with matching schedule with Scheme A)	POWERGRID	1.24
2.	Redundant Communication for Chamera-III (NHPC) & Budhil (GreenCo) using 3 pairs of fibers sharing from HPPTCL network	RTM	18 months from the date of allocation	POWERGRID	0.3
3.	Additional FOTE requirements at AGC locations in Western Region	RTM	12 months from the date of allocation	POWERGRID	3.90
4.	Redundant OPGW communication path for Solapur STPP under AGC	RTM	18 months from the date of allocation	POWERGRID	1.15
5.	Redundant OPGW communication path for 500 MW plant of NSPCL, Chhattisgarh.	RTM	18 months from the date of allocation	POWERGRID	0.55

(Detailed scope as approved by 20<sup>th</sup> NCT and subsequent amendments thereof)



**Annexure-I**

**List of participants of the 20<sup>th</sup> meeting of NCT**

**CEA:**

1. Sh. Ghanshyam Prasad, Chairperson, CEA & Chairman, NCT
2. Sh. Ajay Talegaonkar, Member (E&C)
3. Sh. A.K. Rajput, Member (Power Systems)
4. Sh. Ishan Sharan, Chief Engineer (PSPA-I)
5. Sh. Y.K. Swarnkar, Chief Engineer, PSPM
6. Sh. B.S. Bairwa, Chief Engineer (I/C) (PSPA-II)
7. Ms. Priyam Srivastava, Deputy Director (PCD)
8. Sh. Pranay Garg, Deputy Director (PSPA-II)
9. Sh. Manish Kumar Verma, Assistant Director (PSPA-II)

**MoP:**

1. Om Kant Shukla, Director (Trans.)

**MNRE:**

1. Sh. Tarun Singh, Scientist E
2. Sh. Rahul Rawat, Scientist D

**SECI:**

1. Sh. R.K. Agarwal, Consultant
2. Sh. Prashant Kumar Upadhyay, Sr, Manager

**NITI Aayog:**

1. Sh. Manoj Kumar Upadhyay, Deputy Advisor

**CTUIL:**

1. Sh. P C Garg, COO
2. Sh. Ashok Pal, Deputy COO
3. Sh. K K Sarkar, Sr GM
4. Sh. P.S. Das, Sr GM
5. Sh. Rajesh Kumar, Sr GM
6. Sh. Kashish Bhambhani, GM
7. Sh. Anil Kr. Meena, GM
8. Sh. Shiv Kumar Gupta, Sr DGM
9. Sh. Sandeep Kumawat, DGM
10. Sh. Kunal Sagar, DGM
11. Sh. Venkatesh Gorli, Chief Manager
12. Sh. Pratyush Singh, Chief Manager
13. Sh. Manish Ranjan Keshari, Chief Manager

**GRID India:**

1. Sh. S.R. Narasimhan, CMD



2. Sh. Rajiv Porwal, Director (SO)
3. Sh. Vivek Pandey, Senior GM
4. Sh. Rahul Shukla, Chief Manager
5. Sh. Priyam Jain, Chief Manager

**RECPDCL**

1. Sh. Satyaban Sahu, GM (Tech)
2. Sh. Harshavardhan

**PFCCL**

1. Sh. Navin Phogat, GM (Tech)
2. Sh. Deepak Kumar, Assistant Manager

**Expert Member**

1. Sh. Ravinder Gupta, Ex Chief Engineer, CEA

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रजिस्ट्री सं. डी.एल.- 33004/99

REGD. No. D. L.-33004/99

  
**भारत का राजपत्र**  
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असाधारण  
EXTRAORDINARY

भाग II—खण्ड 3—उप-खण्ड (ii)  
PART II—Section 3—Sub-section (ii)

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विद्युत मंत्रालय

अधिसूचना

नई दिल्ली, 20 अगस्त, 2024

का.आ. 3545(अ).—विद्युत अधिनियम, 2003 (2003 की सं. 36,) की धारा 63 के अंतर्गत परिचालित दिशा-निर्देशों के पैरा 3 के उप-पैरा 3.2 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, केंद्र सरकार, राष्ट्रीय पारेषण समिति की 20वीं बैठक की सिफारिशों पर, संबंधित बोली-प्रक्रिया समन्वयकों (बीपीसी) के विवरण के साथ टीबीसीबी मोड के अंतर्गत निम्नलिखित पारेषण स्कीमों को अधिसूचित करती है:

क्र.सं.	पारेषण स्कीम का नाम और कार्यक्षेत्र	
1.	तलेगांव (पुणे) के निकट पम्पड भंडारण क्षमता को पूरा करने के लिए पश्चिमी क्षेत्र में नेटवर्क विस्तार स्कीम संभावित कार्यान्वयन समय-सीमा: तिथि 01.01.2027 एसपीवी अंतरण से 24 माह की न्यूनतम कार्यान्वयन अनुसूची के अध्यक्षीन बीपीसी: आरईसी विद्युत विकास एंड कंसल्टेंसी लिमिटेड कार्य-क्षेत्र:	
	क्र.सं.	क्षमता (एमवीए)/मार्ग लंबाई (किमी)
	1.	2x330 एमवीएआर, 765 केवी बस रिएक्टर 765/400 केवी, 1500 एमवीए आईसीटी - 2 और 2x125 एमवीएआर, 420 केवी बस (7x500 एमवीए एकल चरण युनिटें जिसमें एक





	<p>रिएक्टर के साथ कलंब के दक्षिण के पास 2x1500 एमवीए, 765/400 केवी सब-स्टेशन की संस्थापना</p> <p>भविष्य के लिए प्रावधान (के लिए स्थान) :</p> <ul style="list-style-type: none"> <li>➤ 765/400 केवी आईसीटी बे सहित- 10 (सेक्शन-I पर 2, सेक्शन-II में 4 और सेक्शन-III पर 4)</li> <li>➤ स्विचेबल लाइन रिएक्टरों के साथ 765 केवी लाइन बे - 6 (सेक्शन-II पर 4 और सेक्शन-III पर 2)</li> <li>➤ 765 केवी बस रिएक्टर बे सहित: 4 (सेक्शन-II पर 2 और सेक्शन-III पर 2)</li> <li>➤ 765 केवी सेक्शनलाइजर: 2 - सेट</li> <li>➤ स्विचेबल लाइन रिएक्टरों के साथ 400 केवी लाइन बे - 20 (सेक्शन-I पर 6, सेक्शन-II पर 6 और सेक्शन-III पर 8)</li> <li>➤ बे के साथ 400/220 केवी आईसीटी -4 (400 केवी सेक्शन-III पर: 220 केवी सेक्शन-I पर 2 और 220 केवी सेक्शन-II पर 2)</li> <li>➤ 400 केवी बस रिएक्टर बे सहित: 4 (सेक्शन-II पर 2 और सेक्शन-III पर 2)</li> <li>➤ 400 केवी सेक्शनलाइजेशन बे: 2- सेट</li> <li>➤ 220 केवी लाइन बे: 8 (सेक्शन-I पर 4 और सेक्शन-II पर 4)</li> <li>➤ 220 केवी सेक्शनलाइजेशन बे: 1 सेट</li> <li>➤ 220 केवी बीसी और टीबीसी: 2</li> <li>➤ 6000 मेगावाट, ± 800 केवी दक्षिण कलंब (एचवीडीसी) [एलसीसी] टर्मिनल स्टेशन (4x1500 मेगावाट) की संस्थापना, साथ ही 400 केवी एचवीएसी स्विचयार्ड (400 केवी सेक्शन-I पर 2x1500 मेगावाट और 400 केवी सेक्शन-II पर 2x1500 मेगावाट) के साथ संबद्ध इंटरकनेक्शन और सभी संबद्ध उपकरण (फिल्टर सहित)/बस विस्तार आदि की संस्थापना।</li> </ul>	<p>अतिरिक्त आईसीटी यूनिट शामिल है)</p> <p>765 केवी आईसीटी बे- 2</p> <p>400 केवी आईसीटी बे - 2</p> <p>765 केवी लाइन बे - 4</p> <p>330 एमवीएआर, 765 केवी बस रिएक्टर- 2 (7x110 एमवीएआर एकल चरण रिएक्टर जिसमें बस/लाइन रिएक्टर के लिए एक अतिरिक्त यूनिट शामिल है)</p> <p>765 केवी बस रिएक्टर बे - 2</p> <p>125 एमवीएआर, 420 केवी रिएक्टर - 2</p> <p>400 केवी रिएक्टर बे - 2</p> <p>400 केवी लाइन बे - 2 (पीएसपी के अंतर्संयोजन के लिए)</p>
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	<p>2. दक्षिण कलंब एस/एस पर पुणे-III - बोईसर-II 765 केवी डी/सी लाइन का लीलो, दक्षिण कलंब एस/एस पर संबद्ध बे सहित</p> <p>3. बोईसर-II के दक्षिण कलंब छोर पर प्रत्येक सर्किट पर 1x240 एमवीएआर स्विचेबल लाइन रिएक्टर की संस्थापना - दक्षिण कलंब 765 केवी डी/सी लाइन (उपर्युक्त लीलो के बाद बनाई गई)</p>	<ul style="list-style-type: none"> <li>लीलो मार्ग की लंबाई: 40 किमी (160 किमी)</li> <li>पुणे-III - बोईसर-II 765 केवी डी/सी लाइन हेक्सा ज़ेबरा कॉन्फिगरेशन की है और लीलो भी इसी प्रकार के कंडक्टर कॉन्फिगरेशन की होगी</li> <li>1x240 एमवीएआर, 765 केवी स्विचेबल लाइन रिएक्टर - 2</li> <li>765 केवी लाइन रिएक्टर के लिए स्विचिंग उपकरण - 2</li> <li>765/400 केवी दक्षिण कलंब एस/एस पर अतिरिक्त रिएक्टर (1-पीएच, 1x80 एमवीएआर) यूनिट</li> </ul>															
2.	<p><b>भुज-II पीएस में आईसीटी संवर्धन और बस रिएक्टर का प्रावधान</b>  संभावित कार्यान्वयन समय-सीमा: एसपीवी अंतरण की तिथि से 24 माह  बीपीसी: पीएफसी कंसल्टिंग लिमिटेड  कार्य-क्षेत्र:</p> <table border="1"> <thead> <tr> <th>क्रम सं.</th> <th>पारेषण स्कीम का कार्य-क्षेत्र</th> <th>क्षमता (एमवीए)/मार्ग लंबाई (किमी)</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>भुज-II पीएस (जीआईएस) में 3x500 एमवीए, 400/220 केवी आईसीटी (7वां, 8वां और 9वां) द्वारा परिवर्तन क्षमता का विस्तार</td> <td>500 एमवीए, 400/220 केवी आईसीटी: 3 400 केवी आईसीटी बे: 3 (व्यास पूर्णता के लिए अतिरिक्त 3 के साथ) 220 केवी आईसीटी बे: 3</td> </tr> <tr> <td>2.</td> <td>भुज-II पीएस (जीआईएस) में 1x1500 एमवीए, 765/400 केवी आईसीटी द्वारा परिवर्तन क्षमता का विस्तार (चौथा)</td> <td>1500 एमवीए, 765/400 केवी आईसीटी: 1 765 केवी आईसीटी बे: 1 (व्यास पूर्णता के लिए अतिरिक्त 1 के साथ) 400 केवी आईसीटी बे: शून्य (1 को उपरोक्त क्रम सं. 1 पर विचार किया गया)</td> </tr> <tr> <td>3.</td> <td>1x330 एमवीएआर 765 केवी बस रिएक्टर (द्वितीय) के साथ-साथ संबद्ध बे की संस्थापना</td> <td>330 एमवीएआर, 765 केवी बस रिएक्टर: 1 765 केवी बीआर बे: शून्य (1 को उपरोक्त क्रम सं. 2 पर विचार किया गया)</td> </tr> <tr> <td>4.</td> <td>आदित्य बिडला रिन्यूएबल्स सर्विसिडियरी लिमिटेड (एबीआरएसएल) के लिए भुज-II पीएस पर 220 केवी जीआईएस लाइन बे का कार्यान्वयन [आवेदन संख्या: 2200000321(362 मेगावाट)]</td> <td>220 केवी लाइन बे - 1 (जीआईएस) (बस सेक्शन-II)</td> </tr> </tbody> </table>		क्रम सं.	पारेषण स्कीम का कार्य-क्षेत्र	क्षमता (एमवीए)/मार्ग लंबाई (किमी)	1.	भुज-II पीएस (जीआईएस) में 3x500 एमवीए, 400/220 केवी आईसीटी (7वां, 8वां और 9वां) द्वारा परिवर्तन क्षमता का विस्तार	500 एमवीए, 400/220 केवी आईसीटी: 3 400 केवी आईसीटी बे: 3 (व्यास पूर्णता के लिए अतिरिक्त 3 के साथ) 220 केवी आईसीटी बे: 3	2.	भुज-II पीएस (जीआईएस) में 1x1500 एमवीए, 765/400 केवी आईसीटी द्वारा परिवर्तन क्षमता का विस्तार (चौथा)	1500 एमवीए, 765/400 केवी आईसीटी: 1 765 केवी आईसीटी बे: 1 (व्यास पूर्णता के लिए अतिरिक्त 1 के साथ) 400 केवी आईसीटी बे: शून्य (1 को उपरोक्त क्रम सं. 1 पर विचार किया गया)	3.	1x330 एमवीएआर 765 केवी बस रिएक्टर (द्वितीय) के साथ-साथ संबद्ध बे की संस्थापना	330 एमवीएआर, 765 केवी बस रिएक्टर: 1 765 केवी बीआर बे: शून्य (1 को उपरोक्त क्रम सं. 2 पर विचार किया गया)	4.	आदित्य बिडला रिन्यूएबल्स सर्विसिडियरी लिमिटेड (एबीआरएसएल) के लिए भुज-II पीएस पर 220 केवी जीआईएस लाइन बे का कार्यान्वयन [आवेदन संख्या: 2200000321(362 मेगावाट)]	220 केवी लाइन बे - 1 (जीआईएस) (बस सेक्शन-II)
क्रम सं.	पारेषण स्कीम का कार्य-क्षेत्र	क्षमता (एमवीए)/मार्ग लंबाई (किमी)															
1.	भुज-II पीएस (जीआईएस) में 3x500 एमवीए, 400/220 केवी आईसीटी (7वां, 8वां और 9वां) द्वारा परिवर्तन क्षमता का विस्तार	500 एमवीए, 400/220 केवी आईसीटी: 3 400 केवी आईसीटी बे: 3 (व्यास पूर्णता के लिए अतिरिक्त 3 के साथ) 220 केवी आईसीटी बे: 3															
2.	भुज-II पीएस (जीआईएस) में 1x1500 एमवीए, 765/400 केवी आईसीटी द्वारा परिवर्तन क्षमता का विस्तार (चौथा)	1500 एमवीए, 765/400 केवी आईसीटी: 1 765 केवी आईसीटी बे: 1 (व्यास पूर्णता के लिए अतिरिक्त 1 के साथ) 400 केवी आईसीटी बे: शून्य (1 को उपरोक्त क्रम सं. 1 पर विचार किया गया)															
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4.	आदित्य बिडला रिन्यूएबल्स सर्विसिडियरी लिमिटेड (एबीआरएसएल) के लिए भुज-II पीएस पर 220 केवी जीआईएस लाइन बे का कार्यान्वयन [आवेदन संख्या: 2200000321(362 मेगावाट)]	220 केवी लाइन बे - 1 (जीआईएस) (बस सेक्शन-II)															



5.	एसीएमई क्लीनटेक सॉल्यूशंस प्राइवेट लिमिटेड (एसीएसपीएल) के लिए भुज-II पीएस पर 220 केवी जीआईएस लाइन बे का कार्यान्वयन [आवेदन संख्या: 2200000382 (350 मेगावाट)]	220 केवी लाइन बे - 1 (जीआईएस) (बस सेक्शन-II)									
6.	एसीएमई क्लीनटेक सॉल्यूशंस प्राइवेट लिमिटेड (एसीएसपीएल) के लिए भुज-II पीएस पर 220 केवी जीआईएस लाइन बे का कार्यान्वयन [आवेदन संख्या: 2200000431 (50 मेगावाट)]	220 केवी लाइन बे - 1 (जीआईएस) (बस सेक्शन-II)									
7.	अब्राडा एनर्जी प्राइवेट लिमिटेड (एईपीएल) के लिए भुज-II पीएस पर 220 केवी जीआईएस लाइन बे का कार्यान्वयन [आवेदन संख्या: 2200000444(100 मेगावाट)]	220 केवी लाइन बे - 1 (जीआईएस) (बस सेक्शन-II)									
8.	अडानी ग्रीन एनर्जी थर्टी टू लिमिटेड (एजीई32एल) के लिए भुज-II पीएस पर 220 केवी जीआईएस लाइन बे का कार्यान्वयन [आवेदन संख्या: 2200000514 (260.5 मेगावाट)]	220 केवी लाइन बे - 1 (जीआईएस) (बस सेक्शन-II)									
9.	अडानी रिन्यूएबल एनर्जी एट लिमिटेड (एआरई8एल) के लिए भुज-II पीएस पर 220 केवी जीआईएस लाइन बे का कार्यान्वयन [आवेदन संख्या: 2200000545 (115 मेगावाट)]	220 केवी लाइन बे - 1 (जीआईएस) (बस सेक्शन-II)									
3.	<p>मध्य प्रदेश में महान एनर्जेंट लिमिटेड उत्पादन स्टेशन से विद्युत की निकासी के लिए पारेषण प्रणाली संभावित कार्यान्वयन समय-सीमा: एसपीवी अंतरण की तिथि से 24 माह</p> <p>बीपीसी: पीएफसी कंसल्टिंग लिमिटेड</p> <p>कार्य-क्षेत्र:</p> <table border="1"> <thead> <tr> <th>क्रम सं.</th> <th>पारेषण स्कीम का कार्य-क्षेत्र</th> <th>क्षमता/किमी</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>महान (मौजूदा बस) - रीवा पीएस (पीजी) 400 केवी डी/सी (क्वाड एसीएसआर/एएएसी/एएल 59 मूज़ समतुल्य) लाइन</td> <td>110 किमी</td> </tr> <tr> <td>2.</td> <td>महान (मौजूदा बस) की समाप्ति के लिए रीवा पीएस (पीजी) पर 2 400 केवी बे - रीवा पीएस (पीजी) 400 केवी डी/सी लाइन (क्वाड एसीएसआर/एएएसी/एएल 59 मूज़ समतुल्य) लाइन</td> <td>400 केवी बे: 2</td> </tr> </tbody> </table> <p>नोट:</p> <ul style="list-style-type: none"> <li>एमईएल (मौजूदा) पर 2 400 केवी लाइन बे एमईएल के दायरे में होंगे।</li> <li>पावरग्रिड, क्रमांक 2 पर कार्य हेतु रीवा पीएस (पीजी) में स्थान उपलब्ध कराएगा।</li> </ul>		क्रम सं.	पारेषण स्कीम का कार्य-क्षेत्र	क्षमता/किमी	1.	महान (मौजूदा बस) - रीवा पीएस (पीजी) 400 केवी डी/सी (क्वाड एसीएसआर/एएएसी/एएल 59 मूज़ समतुल्य) लाइन	110 किमी	2.	महान (मौजूदा बस) की समाप्ति के लिए रीवा पीएस (पीजी) पर 2 400 केवी बे - रीवा पीएस (पीजी) 400 केवी डी/सी लाइन (क्वाड एसीएसआर/एएएसी/एएल 59 मूज़ समतुल्य) लाइन	400 केवी बे: 2
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1.	महान (मौजूदा बस) - रीवा पीएस (पीजी) 400 केवी डी/सी (क्वाड एसीएसआर/एएएसी/एएल 59 मूज़ समतुल्य) लाइन	110 किमी									
2.	महान (मौजूदा बस) की समाप्ति के लिए रीवा पीएस (पीजी) पर 2 400 केवी बे - रीवा पीएस (पीजी) 400 केवी डी/सी लाइन (क्वाड एसीएसआर/एएएसी/एएल 59 मूज़ समतुल्य) लाइन	400 केवी बे: 2									
4.	<p>गुजरात में 765/400 केवी लकड़िया एस/एस (डब्ल्यूआरएसएस XX I(ए) ट्रांसको लिमिटेड) में परिवर्तन क्षमता के विस्तार के लिए पारेषण प्रणाली - भाग बी</p> <p>संभावित कार्यान्वयन समय-सीमा: विस्तृत कार्य-क्षेत्र के अनुसार</p> <p>बीपीसी: आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड</p>										



कार्य-क्षेत्र:			
क्रम सं.	पारेषण स्कीम का कार्य-क्षेत्र	क्षमता/किमी	निर्धारित समय - सीमा
1.	लकड़िया पीएस में संबंधित आईसीटी बे के साथ 2x500 एमवीए, 400/220 केवी आईसीटी (तीसरा और चौथा) की संस्थापना	<ul style="list-style-type: none"> <li>• 400/220 केवी, 1x500 एमवीए आईसीटी- 2</li> <li>• 400 केवी आईसीटी बे- 2</li> <li>• 220 केवी आईसीटी बे - 2 (220 केवी बस सेक्शन-I)</li> </ul>	कार्यान्वयन एजेंसी को आवंटन की तिथि से 18 माह
2.	टीईक्यू ग्रीन पावर XVII प्राइवेट लिमिटेड (टीजीपीXVIIपीएल: 300 मेगावाट) के लिए लकड़िया पीएस पर 220 केवी लाइन बे का कार्यान्वयन	<ul style="list-style-type: none"> <li>• 220 केवी लाइन बे - 1 (220 केवी बस सेक्शन-I)</li> </ul>	कार्यान्वयन एजेंसी को आवंटन की तिथि से 18 माह
3.	आर्सेलर मित्तल निप्पाँन स्टील इंडिया लिमिटेड (एएमएनएसआईएल: 350 मेगावाट) के लिए लकड़िया पीएस पर 220 केवी लाइन बे का कार्यान्वयन	<ul style="list-style-type: none"> <li>• 220 केवी लाइन बे - 1 (220 केवी बस सेक्शन-I)</li> </ul>	कार्यान्वयन एजेंसी को आवंटन की तिथि से 18 माह
4.	रिन्यू सोलर (शक्ति एंट) प्राइवेट लिमिटेड (आरएस(एम8) पीएल: 200 मेगावाट) के लिए लकड़िया पीएस पर 220 केवी लाइन बे का कार्यान्वयन	<ul style="list-style-type: none"> <li>• 220 केवी लाइन बे - 1 (220 केवी बस सेक्शन-I)</li> </ul>	दिनांक 30.09.2026 (आवेदक द्वारा अनुरोधित आरंभ तिथि के अनुसार)*
5.	लकड़िया पीएस पर नए 220 केवी बस सेक्शन-II का निर्माण, साथ ही 220 केवी बस सेक्शन-I और सेक्शन-II के बीच 220 केवी सेक्शनलाइज़र व्यवस्था	<ul style="list-style-type: none"> <li>• 220 केवी बस सेक्शनलाइज़र - 1 सेट</li> <li>• बीसी - 1</li> <li>• टीबीसी - 1</li> </ul>	कार्यान्वयन एजेंसी को आवंटन की तिथि से 18 माह
6.	लकड़िया पीएस में 4x500 एमवीए, 400/220 केवी आईसीटी (5वां, 6वां, 7वां और 8वां) द्वारा परिवर्तन क्षमता का विस्तार नए 220 केवी बस खंड-II पर समाप्त		
6क	2x500 एमवीए आईसीटी (5वां एवं 6वां)	<ul style="list-style-type: none"> <li>• 500 एमवीए, 400/220 केवी आईसीटी: 2.</li> <li>• 400 केवी आईसीटी बे: 2</li> <li>• 220 केवी आईसीटी बे: 2 (नए बस सेक्शन-II)</li> </ul>	कार्यान्वयन एजेंसी को आवंटन की तिथि से 18 माह
6ख	1x500 एमवीए आईसीटी (7वां)	<ul style="list-style-type: none"> <li>• 500 एमवीए, 400/220 केवी आईसीटी: 1</li> <li>• 400 केवी आईसीटी बे: 1</li> <li>• 220 केवी आईसीटी बे: 1 (नए बस सेक्शन-II)</li> </ul>	31.12.2026
6ग	1x500 एमवीए आईसीटी (8वां)	<ul style="list-style-type: none"> <li>• 500 एमवीए, 400/220</li> </ul>	30.06.2027



		केवी आईसीटी: 1 • 400 केवी आईसीटी बे: 1 • 220 केवी आईसीटी बे: 1 (नए बस सेक्शन-II)	
7.	जुनिपर ग्रीन एनर्जी प्राइवेट लिमिटेड (जेजीईपीएल) के लिए लकड़िया पीएस पर 220 केवी लाइन बे का कार्यान्वयन (आवेदन संख्या 2200000376: 300 मेगावाट)	• 220 केवी लाइन बे - 1 (नए बस सेक्शन-II)	दिनांक 30.06.2027 (आवेदक द्वारा अनुरोधित आरंभ तिथि के अनुसार)
8.	टीईक्यू ग्रीन पावर XVI प्राइवेट लिमिटेड (टीजीपीएक्सवीआईपीएल) के लिए लकड़िया पीएस पर 220 केवी लाइन बे का कार्यान्वयन (आवेदन संख्या 2200000398: 76 मेगावाट)	• 220 केवी लाइन बे - 1 (नए बस सेक्शन-II)	दिनांक 30.09.2026 (आवेदक द्वारा अनुरोधित आरंभ तिथि के अनुसार)*
9.	गनेको सोलर प्राइवेट लिमिटेड (जीएसपीएल) के लिए लकड़िया पीएस पर 220 केवी लाइन बे का कार्यान्वयन (आवेदन संख्या 2200000458: 290 मेगावाट)	• 220 केवी लाइन बे - 1 (नए बस सेक्शन-II)	दिनांक 31.12.2026 (आवेदक द्वारा अनुरोधित आरंभ तिथि के अनुसार)*
10.	जुनिपर ग्रीन एनर्जी प्राइवेट लिमिटेड (जेजीईपीएल) के लिए लकड़िया पीएस पर 220 केवी लाइन बे का कार्यान्वयन (आवेदन संख्या 2200000500: 150 मेगावाट)	• 220 केवी लाइन बे - 1 (नए बस सेक्शन-II)	दिनांक 31.03.2027 (आवेदक द्वारा अनुरोधित आरंभ तिथि के अनुसार)
11.	सेरेंटिका रिन्यूएबल्स इंडिया प्राइवेट लिमिटेड (एसआरआईपीएल) के लिए लकड़िया पीएस पर 220 केवी लाइन बे का कार्यान्वयन (आवेदन संख्या 2200000610: 200 मेगावाट)	• 220 केवी लाइन बे - 1 (नए बस सेक्शन-II)	30.06.2026*
12.	आरडीएस सोलर पार्क प्राइवेट लिमिटेड (आरडीएसएसपीपीएल) के लिए लकड़िया पीएस पर 220 केवी लाइन बे का कार्यान्वयन (आवेदन संख्या 2200000639: 350 मेगावाट)	• 220 केवी लाइन बे - 1 (नए बस सेक्शन-II)	30.06.2026*
13.	पर्सेंटम रिन्यूएबल्स प्राइवेट लिमिटेड (पीआरपीएल) के लिए लकड़िया पीएस पर 220 केवी लाइन बे का कार्यान्वयन (आवेदन संख्या 2200000673: 148 मेगावाट)	• 220 केवी लाइन बे - 1 (नए बस सेक्शन-II)	30.06.2026*
14.	1x330 एमवीएआर 765 केवी बस रिएक्टर (द्वितीय) के साथ-साथ संबद्ध बे की संस्थापना	• 330 एमवीएआर, 765 केवी बस रिएक्टर: 1	कार्यान्वयन एजेंसी को आवंटन की तिथि से 18 माह





			<ul style="list-style-type: none"> <li>• 765 केवी बीआर बे: 1</li> </ul>
15.	लकडिया पीएस में 1x1500 एमवीए, 765/400 केवी आईसीटी द्वारा परिवर्तन क्षमता का विस्तार (तीसरा)	<ul style="list-style-type: none"> <li>• 1500 एमवीएआर, 765/400 केवी आईसीटी: 1</li> <li>• 400 केवी आईसीटी बे: 1</li> <li>• 765 केवी आईसीटी बे: 1</li> </ul>	कार्यान्वयन एजेंसी को आवंटन की तिथि से 18 माह
*कार्यान्वयन एजेंसी को आवंटन की तिथि से न्यूनतम 18 माह की समय-सीमा के अधीन।			
नोट:			
लकडिया एस/एस की टीएसपी (डब्ल्यूआरएसएस XXI(ए) ट्रांस्को लिमिटेड) लकडिया एस/एस में उपरोक्त संवर्धन कार्यों के लिए स्थान उपलब्ध कराएगी।			
5.	गुजरात के राघनेस्वा क्षेत्र से नवीकरणीय ऊर्जा की निकासी के लिए पारेषण प्रणाली - चरण-I के अंतर्गत 3 गीगावाट संभावित कार्यान्वयन की समय-सीमा: एसपीवी अंतरण से 30 माह बीपीसी: पीएफसी कंसल्टिंग लिमिटेड कार्य-क्षेत्र:		
	<b>क्रम सं.</b>	<b>पारेषण स्कीम का कार्य-क्षेत्र</b>	<b>क्षमता/किमी</b>
	1.	<p>2x330 एमवीएआर, 765 केवी बस रिएक्टर और 2x125 एमवीएआर, 420 केवी बस रिएक्टर के साथ राघनेस्वा (जीआईएस) के पास 3x1500 एमवीए, 765/400 केवी सबस्टेशन की संस्थापना</p> <p><b>भविष्य के लिए प्रावधान (के लिए स्थान):</b></p> <ul style="list-style-type: none"> <li>➤ 765/400 केवी आईसीटी बे सहित- 5 (सेक्शन-I में 1 और सेक्शन-II में 4)</li> <li>➤ स्विचेबल लाइन रिएक्टरों के साथ 765 केवी लाइन बे - 10 (सेक्शन-I पर 4 और सेक्शन-II पर 6)</li> <li>➤ 765 केवी बस रिएक्टर बे सहित: 2 (सेक्शन-II पर)</li> <li>➤ 765 केवी सेक्शनलाइजर: 1 - सेट</li> <li>➤ स्विचेबल लाइन रिएक्टरों के साथ 400 केवी लाइन बे - 12 (सेक्शन-I पर 4 और सेक्शन-II पर 8)</li> <li>➤ 400/220 केवी आईसीटी बे सहित - 8 (प्रत्येक 400 केवी सेक्शन पर 4)</li> <li>➤ 400 केवी बस रिएक्टर सहित बे : 2 (सेक्शन-II)</li> <li>➤ 400 केवी सेक्शनलाइजर बे: 1- सेट</li> <li>➤ 220 केवी लाइन बे: 12 (प्रत्येक 220 केवी</li> </ul>	<ul style="list-style-type: none"> <li>• 765/400 केवी, 1500 एमवीए आईसीटी - 3 (10x500 एमवीए एकल चरण यूनिटें जिसमें एक अतिरिक्त आईसीटी यूनिट भी शामिल है)</li> <li>• 765 केवी आईसीटी बे - 3</li> <li>• 400 केवी आईसीटी बे - 3</li> <li>• 765 केवी लाइन बे - 2</li> <li>• 1x330 एमवीएआर, 765 केवी बस रिएक्टर- 2 (7x110 एमवीएआर एकल चरण रिएक्टर जिसमें बस/लाइन रिएक्टर के लिए एक अतिरिक्त इकाई शामिल है)</li> <li>• 765 केवी बस रिएक्टर बे- 2</li> <li>• 125 एमवीएआर, 420 केवी रिएक्टर - 2</li> <li>• 400 केवी बस रिएक्टर बे - 2</li> <li>• 400 केवी लाइन बे - 4 (नवीकरणीय ऊर्जा परियोजनाओं के अंतर्संबंध के लिए)</li> </ul>





	<p>सेक्शन पर 6)</p> <ul style="list-style-type: none"> <li>➤ 220 केवी सेक्शनलाइजेशन बे: 1 सेट</li> <li>➤ 220 केवी बीसी : 1</li> <li>➤ 400 केवी एचवीएसी स्विचयार्ड और सभी संबंधित उपकरण (फिल्टर सहित)/बस विस्तार आदि के साथ संबद्ध इंटरकनेक्शन सहित 6000 मेगावाट, ± 800 केवी राघनेस्दा (एचवीडीसी) [एलसीसी] टर्मिनल स्टेशन (4x1500 मेगावाट) की संस्थापना।</li> </ul>										
2.	राघनेस्डा (जीआईएस) - बनासकांठा (पीजी) 765 केवी डी/सी लाइन	95 किमी									
3.	बनासकांठा (पीजी) एस/एस में 2 765 केवी लाइन बे	765 केवी लाइन बे - 2									
<p>नोट:</p> <ul style="list-style-type: none"> <li>• बनासकांठा एस/एस (पावरग्रिड) की टीएसपी उपरोक्त क्रमांक 3 पर कार्यक्षेत्र के लिए स्थान उपलब्ध कराएगी।</li> </ul>											
6.	<p>रतले एचईपी (850 मेगावाट) और किरू एचईपी (624 मेगावाट) से विद्युत की निकासी के लिए पारेषण स्कीम: भाग-ए</p> <p>संभावित कार्यान्वयन की समय-सीमा: एसपीवी अंतरण से 24 माह</p> <p>बीपीसी: आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड</p> <p>कार्य-क्षेत्र:</p>										
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	हुआ है।											
8	जालंधर में 400 केवी जालंधर-नकोदर लाइन (क्वाड) को बाईपास करना और इसे सांबा-जालंधर 400 केवी डी/सी लाइन (क्वाड मूज़) के सर्किट में से एक के साथ जोड़ना, इस प्रकार 400 केवी सांबा-नकोदर (क्वाड) सीधी लाइन बनाना											
<p><b>नोट:</b></p> <ul style="list-style-type: none"> <li>• मैसर्स स्टरलाइट किशतवाड में 400 केवी लाइन बे (जीआईएस) में से 2 के लिए स्थान उपलब्ध कराएगा</li> <li>• मैसर्स पावरग्रिड 400 केवी किशतवाड-सांबा 400 केवी लाइन के सांबा छोर पर 1 (एक) 80 एमवीएआर स्विचेबल लाइन रिएक्टर (स्विचिंग उपकरण सहित) के लिए स्थान उपलब्ध कराएगा।</li> <li>• मैसर्स पावरग्रिड किशनपुर-जालंधर डी/सी सीधी लाइन (प्रत्येक सर्किट पर) के जालंधर छोर पर 2 (दो) 63 एमवीएआर स्विचेबल लाइन रिएक्टर (स्विचिंग उपकरण के साथ) के लिए स्थान उपलब्ध कराएगा।</li> <li>• मैसर्स पावरग्रिड सांबा-नकोदर सीधी लाइन के सांबा छोर पर 1 (एक) 80 एमवीएआर स्विचेबल लाइन रिएक्टर (स्विचिंग उपकरण के साथ) के लिए स्थान उपलब्ध कराएगा।</li> </ul>												
7	अतिरिक्त नवीकरणीय ऊर्जा उत्पादन परियोजनाओं के एकीकरण के लिए कुर्नूल-III पीएस में पारेषण प्रणाली को सुदृढ़ करना संभावित कार्यान्वयन समय-सीमा: i. पैकेज ए – 24 माह ii. पैकेज बी – जून 2025 से दिसंबर 2027 तक क्रमिक रूप से iii. पैकेज सी – 24 माह बीपीसी: पीएफसी कंसल्टिंग लिमिटेड कार्य-क्षेत्र:											
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	दोनों छोर पर 240 एमवीएआर स्विचेबल लाइन रिएक्टर के साथ कुर्नूल-III पीएस चिलकलुरिपेटा 765 केवी डी/सी लाइन	<p>~ 260 किमी</p> <ul style="list-style-type: none"> <li>• 765 केवी लाइन बे – 2 (कुर्नूल-III पीएस पर)</li> <li>• 765 केवी लाइन बे – 2 (चिलकलुरिपेटा पर)</li> <li>• 765 केवी, 240 एमवीएआर एसएलआर कुर्नूल-III पीएस-2 (6x80 एमवीएआर यूनिट)</li> <li>• चिलकलुरिपेटा में 765 केवी, 240 एमवीएआर एसएलआर - टीई2 (6x80</li> </ul>										



		एमवीएआर यूनिट)	
बी	मैसर्स अदानी रिन्यूएबल एनर्जी फोर्टी टू लिमिटेड की समर्पित पारेषण लाइन की समाप्ति के लिए कुर्नूल-III पीएस में 2 (दो) 400 केवी लाइन बे	• 400 केवी लाइन बे - 2	30.06.26
	मैसर्स इंडोसोल सोलर प्राइवेट लिमिटेड की समर्पित पारेषण लाइनों की समाप्ति के लिए कुर्नूल-III पीएस में 4 (चार) 400 केवी लाइन बे	• 400 केवी लाइन बे - 1	30.06.25
		• 400 केवी लाइन बे - 1	24 माह
		• 400 केवी लाइन बे - 2	31.03.27
मैसर्स अदानी रिन्यूएबल एनर्जी फिफ्टी वन लिमिटेड की समर्पित पारेषण लाइन की समाप्ति के लिए कुर्नूल-III पीएस में 2 (दो) 400 केवी लाइन बे	• 400 केवी लाइन बे - 2	31.12.27	
ग	कुर्नूल-II पीएस पर 1x1500 एमवीए 765/400 केवी आईसीटी (7वां) का विस्तार	• 1x1500 एमवीए, 765/400 केवी आईसीटी • 765 केवी आईसीटी बे - 1 • 400 केवी आईसीटी बे - 1	24 माह

2. बोली प्रक्रिया समन्वयक की नियुक्ति इस संबंध में विद्युत मंत्रालय द्वारा समय-समय पर संशोधित दिशानिर्देशों में निर्धारित शर्तों के अध्यक्षीन है।

[फा. सं. 15/3/2018-ट्रांस-पार्ट(4)]

नाओरेम इंद्रकुमार सिंह, अवर सचिव (पारेषण)

**MINISTRY OF POWER**

**NOTIFICATION**

New Delhi, the 20th August, 2024

**S.O. 3545(E).**—In exercise of the powers conferred by sub-para 3.2 of Para 3 of the Guidelines circulated under Section 63 of the Electricity Act, 2003 (No. 36 of 2003), the Central Government, on the recommendations of 20th meeting of National Committee on Transmission, hereby notifies the following transmission schemes under TBCB mode, with details of respective Bid-Process Coordinators (BPCs): -

Sl. No.	Name & Scope of the Transmission Scheme	Capacity (MVA) / Route Length (Km)
1.	<b>Network Expansion scheme in Western Region to cater to Pumped storage potential near Talegaon (Pune)</b>  Tentative implementation timeframe : 01.01.2027 subject to minimum implementation schedule of 24 months from SPV transfer  <b>BPC: REC Power Development and Consultancy Limited</b> Scope:	
1.	Establishment 2x1500 MVA, 765/400 kV Substation near South of Kalamb with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor	765/400 kV, 1500 MVA ICT - 2 Nos. (7x500 MVA single phase units including one spare ICT Unit)  765 kV ICT bays - 2 Nos.



	<p><b>Future provision (space for):</b></p> <ul style="list-style-type: none"> <li>➤ 765/400 kV ICT along with bays- 10 Nos. (2 Nos. on Sec-I, 4 Nos. in Sec-II &amp; 4 Nos. on Sec-III)</li> <li>➤ 765 kV line bays along with switchable line reactors – 6 Nos. (4 Nos. on Sec-II &amp; 2 Nos. on Sec-III)</li> <li>➤ 765 kV Bus Reactor along with bay: 4 Nos. (2 Nos. on Sec-II &amp; 2 No. on Sec-III)</li> <li>➤ 765 kV Sectionalizer: 2 -sets</li> <li>➤ 400 kV line bays along with switchable line reactors– 20 Nos. (6 Nos. on Sec-I, 6 Nos. on Sec- II &amp; 8 Nos. on Sec-III)</li> <li>➤ 400/220 kV ICT along with bays -4 Nos. (on 400 kV Sec-III: 2 Nos. on 220 kV Sec-I &amp; 2 Nos. on 220 kV Sec-II)</li> <li>➤ 400 kV Bus Reactor along with bays: 4 Nos. (2 Nos. on Sec-II &amp; 2 No. on Sec-III)</li> <li>➤ 400 kV Sectionalization bay: 2- set</li> <li>➤ 220 kV line bays: 8 Nos. (4 Nos. on Sec-I &amp; 4 Nos. on Sec-II)</li> <li>➤ 220 kV Sectionalization bay: 1 set</li> <li>➤ 220 kV BC and TBC: 2 Nos.</li> <li>➤ Establishment of 6000 MW, ± 800 kV South Kalamb (HVDC) [LCC] terminal station (4x1500 MW) along with associated interconnections with 400 kV HVAC Switchyard (2x1500 MW on 400 kV Sec-I &amp; 2x1500 MW on 400 kV Sec-II) &amp; all associated equipment (incl. filters)/bus extension, etc.</li> </ul>	<p>400 kV ICT bays – 2 Nos.</p> <p>765 kV Line bays – 4 Nos.</p> <p>330 MVAR, 765 kV bus reactor- 2 Nos. (7x110 MVAR single phase Reactors including one spare Unit for bus /line reactor)</p> <p>765 kV Bus reactor bay – 2 Nos.</p> <p>125 MVAR, 420 kV reactor- 2 Nos.</p> <p>400 kV Reactor bay- 2 Nos.</p> <p>400 kV line bays - 2 Nos. (for interconnection of PSP)</p>									
2.	LILO of Pune-III – Boisar-II 765 kV D/c line at South Kalamb S/s with associated bays at South Kalamb S/s	<ul style="list-style-type: none"> <li>• LILO Route length: 40 km (160 ckm.)</li> <li>• The Pune-III – Boisar-II 765 kV D/c line is of Hexa Zebra configuration and LILO shall be of similar conductor configuration</li> </ul>									
3.	Installation of 1x240 MVAR switchable line reactor on each ckt at South Kalamb end of Boisar-II – South Kalamb 765 kV D/c line (formed after above LILO)	<ul style="list-style-type: none"> <li>• 1x240 MVAR, 765 kV switchable line reactor – 2 Nos.</li> <li>• Switching equipment for 765 kV line reactor – 2 Nos.</li> <li>• Spare Reactor (1-ph, 1x80 MVAR) unit at 765/400 kV South Kalamb S/s</li> </ul>									
<p><b>2. Provision of ICT Augmentation &amp; Bus Reactor at Bhuj-II PS</b> Tentative implementation timeframe: 21 months from SPV transfer <b>BPC: PFC Consulting Limited</b> Scope:</p>											
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Sl. No.</th> <th style="text-align: left;">Scope of the Transmission Scheme</th> <th style="text-align: left;">Capacity (MVA)/ Route Length (Km)</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;">1.</td> <td style="vertical-align: top;">Augmentation of transformation capacity at Bhuj-II PS (GIS) by 3x500 MVA, 400/220 kV ICT (7th, 8th &amp; 9th)</td> <td style="vertical-align: top;">500 MVA, 400/220 kV ICTs: 3 No.  400 kV ICT bays: 3 No. (with addl. 3 Nos. for dia completion)  220 kV ICT bays: 3 No..</td> </tr> <tr> <td style="vertical-align: top;">2.</td> <td style="vertical-align: top;">Augmentation of transformation capacity at Bhuj-II PS (GIS) by 1x1500 MVA, 765/400 kV ICT (4th)</td> <td style="vertical-align: top;">1500 MVA, 765/400 kV ICT: 1 No.  765 kV ICT bay: 1 No. (with addl. 1 No. for dia completion)</td> </tr> </tbody> </table>	Sl. No.	Scope of the Transmission Scheme	Capacity (MVA)/ Route Length (Km)	1.	Augmentation of transformation capacity at Bhuj-II PS (GIS) by 3x500 MVA, 400/220 kV ICT (7th, 8th & 9th)	500 MVA, 400/220 kV ICTs: 3 No.  400 kV ICT bays: 3 No. (with addl. 3 Nos. for dia completion)  220 kV ICT bays: 3 No..	2.	Augmentation of transformation capacity at Bhuj-II PS (GIS) by 1x1500 MVA, 765/400 kV ICT (4th)	1500 MVA, 765/400 kV ICT: 1 No.  765 kV ICT bay: 1 No. (with addl. 1 No. for dia completion)	
Sl. No.	Scope of the Transmission Scheme	Capacity (MVA)/ Route Length (Km)									
1.	Augmentation of transformation capacity at Bhuj-II PS (GIS) by 3x500 MVA, 400/220 kV ICT (7th, 8th & 9th)	500 MVA, 400/220 kV ICTs: 3 No.  400 kV ICT bays: 3 No. (with addl. 3 Nos. for dia completion)  220 kV ICT bays: 3 No..									
2.	Augmentation of transformation capacity at Bhuj-II PS (GIS) by 1x1500 MVA, 765/400 kV ICT (4th)	1500 MVA, 765/400 kV ICT: 1 No.  765 kV ICT bay: 1 No. (with addl. 1 No. for dia completion)									





		400 kV ICT bay: Nil. (1 No. considered at Sl. No.1 above)									
3.	Installation of 1x330 MVA 765 kV Bus Reactor (2nd) along-with associated bay	330 MVA, 765 kV Bus Reactor: 1 No. 765 kV BR bay: Nil (1 No. considered at Sl. No.2 above)									
4.	Implementation of 220 kV GIS line bay at Bhuj-II PS for Aditya Birla Renewables Subsidiary Limited (ABRSL) [Appln No: 2200000321(362MW)]	220 kV line bay – 1 No. (GIS) (Bus Sec-II)									
5.	Implementation of 220 kV GIS line bay at Bhuj-II PS for ACME Cleantech Solutions Private Limited (ACSPL) [Appln No: 2200000382(350 MW)]	220 kV line bay – 1 No. (GIS) (Bus Sec-II)									
6.	Implementation of 220 kV GIS line bay at Bhuj-II PS for ACME Cleantech Solutions Private Limited (ACSPL) [Appln No: 2200000431(50 MW)]	220 kV line bay – 1 No. (GIS) (Bus Sec-II)									
7.	Implementation of 220 kV GIS line bay at Bhuj-II PS for Avaada Energy Pvt Ltd. (AEPL) [Appl. No: 2200000444(100 MW)]	220 kV line bay – 1 No. (GIS) (Bus Sec-II)									
8.	Implementation of 220 kV GIS line bays at Bhuj-II PS for Adani Green Energy Thirty-Two Ltd. (AGE32L) [Appl. No: 2200000514 (260.5MW)]	220 kV line bay – 1 No. (GIS) (Bus Sec-II)									
9.	Implementation of 220 kV GIS line bays at Bhuj-II PS for Adani Renewable Energy Eight Ltd. (ARE8L) [Appl. No: 2200000545 (115MW)]	220 kV line bay – 1 No. (GIS) (Bus Sec-II)									
3.	<p><b>Transmission System for evacuation of power from Mahan Energen Limited Generating Station in Madhya Pradesh</b>  <b>Tentative Implementation Time:</b> 30 months from SPV transfer  <b>BPC: PFC Consulting Limited</b>  <b>Scope:</b></p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Scope of the Transmission Scheme</th> <th>Capacity /km</th> </tr> </thead> <tbody> <tr> <td>3.</td> <td>Mahan (existing bus) – Rewa PS (PG) 400 kV D/c (Quad ACSR/AAAC/AL59 moose equivalent)line</td> <td>110 km.</td> </tr> <tr> <td>4.</td> <td>2 Nos. 400 kV bays at Rewa PS (PG) for termination of Mahan (existing bus) – Rewa PS (PG) 400 kV D/c line (Quad ACSR/AAAC/AL59 moose equivalent)line</td> <td>400 kV bays: 2 Nos.</td> </tr> </tbody> </table> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>2 Nos. 400 kV line bays at MEL (existing) shall be under the scope of MEL</li> <li>POWERGRID to provide space at Rewa PS (PG) for scope at Sl. 2</li> </ul>		Sl. No.	Scope of the Transmission Scheme	Capacity /km	3.	Mahan (existing bus) – Rewa PS (PG) 400 kV D/c (Quad ACSR/AAAC/AL59 moose equivalent)line	110 km.	4.	2 Nos. 400 kV bays at Rewa PS (PG) for termination of Mahan (existing bus) – Rewa PS (PG) 400 kV D/c line (Quad ACSR/AAAC/AL59 moose equivalent)line	400 kV bays: 2 Nos.
Sl. No.	Scope of the Transmission Scheme	Capacity /km									
3.	Mahan (existing bus) – Rewa PS (PG) 400 kV D/c (Quad ACSR/AAAC/AL59 moose equivalent)line	110 km.									
4.	2 Nos. 400 kV bays at Rewa PS (PG) for termination of Mahan (existing bus) – Rewa PS (PG) 400 kV D/c line (Quad ACSR/AAAC/AL59 moose equivalent)line	400 kV bays: 2 Nos.									
4.	<p><b>Transmission system for Augmentation of transformation capacity at 765/400 kV Lakadia S/s (WRSS XXI(A) Transco Ltd) in Gujarat – Part B</b>  <b>Tentative Implementation Time:</b> As per Detailed Scope  <b>BPC: REC Power Development and Consultancy Limited</b>  <b>Scope:</b></p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Scope of the Transmission Scheme</th> <th>Capacity /km</th> <th>Time-frame</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Installation of 2x500 MVA, 400/220 kV ICTs (3<sup>rd</sup> &amp; 4<sup>th</sup>) at Lakadia PS along with associated ICT bays</td> <td> <ul style="list-style-type: none"> <li>400/220 kV, 1x500 MVA ICT – 2 Nos.</li> <li>400 kV ICT bay – 2 Nos.</li> </ul> </td> <td>18 months from date of allocation to implementing agency</td> </tr> </tbody> </table>		Sl. No.	Scope of the Transmission Scheme	Capacity /km	Time-frame	1.	Installation of 2x500 MVA, 400/220 kV ICTs (3 <sup>rd</sup> & 4 <sup>th</sup> ) at Lakadia PS along with associated ICT bays	<ul style="list-style-type: none"> <li>400/220 kV, 1x500 MVA ICT – 2 Nos.</li> <li>400 kV ICT bay – 2 Nos.</li> </ul>	18 months from date of allocation to implementing agency	
Sl. No.	Scope of the Transmission Scheme	Capacity /km	Time-frame								
1.	Installation of 2x500 MVA, 400/220 kV ICTs (3 <sup>rd</sup> & 4 <sup>th</sup> ) at Lakadia PS along with associated ICT bays	<ul style="list-style-type: none"> <li>400/220 kV, 1x500 MVA ICT – 2 Nos.</li> <li>400 kV ICT bay – 2 Nos.</li> </ul>	18 months from date of allocation to implementing agency								





		• 220 kV ICT bay – 2 Nos. (220 kV bus section-I)	
2.	Implementation of 220 kV line bay at Lakadia PS for TEQ Green Power XVII Private Limited (TGPXVIPL: 300 MW)	• 220 kV line bay – 1 no. (220 kV bus section-I)	<b>18 months</b> from date of allocation to implementing agency
3.	Implementation of 220 kV line bay at Lakadia PS for Arcelor Mittal Nippon Steel India Limited (AMNSIL: 350 MW)	• 220 kV line bay – 1 no. (220 kV bus section-I)	<b>18 months</b> from date of allocation to implementing agency
4.	Implementation of 220 kV line bay at Lakadia PS for Renew Solar (Shakti Eight) Private Limited (RS(S8)PL: 200 MW)	• 220 kV line bay – 1 no. (220 kV bus section-I)	<b>30.09.2026</b> (as per start date requested by applicant)*
5.	Creation of New 220 kV Bus Section-II at Lakadia PS along with 220 kV Sectionaliser arrangement between 220 kV Bus sec-I & Sec-II	• 220 kV Bus Sectionaliser - 1 set • BC – 1 No. • TBC – 1 No.	<b>18 months</b> from date of allocation to implementing agency
6.	Augmentation of transformation capacity at Lakadia PS by 4x500 MVA, 400/220 kV ICTs (5 <sup>th</sup> 6 <sup>th</sup> , 7 <sup>th</sup> & 8 <sup>th</sup> ) terminated on new 220 kV Bus Section-II		
6a	2x500MVA ICTs (5 <sup>th</sup> & 6 <sup>th</sup> )	• 500 MVA, 400/220 kV ICTs: 2 No. • 400 kV ICT bays: 2 Nos. • 220 kV ICT bays: 2 No. (New Bus Section-II)	<b>18 months</b> from date of allocation to implementing agency
6b	1x500MVA ICT (7 <sup>th</sup> )	• 500 MVA, 400/220 kV ICT: 1 No. • 400 kV ICT bay: 1 No. • 220 kV ICT bays: 1 No. (New Bus Section-II)	<b>31.12.2026</b>
6c	1x500MVA ICT (8 <sup>th</sup> )	• 500 MVA, 400/220 kV ICT: 1 No. • 400 kV ICT bay: 1 No. • 220 kV ICT bays: 1 No. (New Bus Section-II)	<b>30.06.2027</b>
7.	Implementation of 220 kV line bay at Lakadia PS for Juniper Green Energy Private Limited (JGEPL) (Appl. No. 2200000376: 300 MW)	• 220 kV line bay – 1 No. (New Bus Section-II)	<b>30.06.2027</b> (as per start date requested by applicant)
8.	Implementation of 220 kV line bay at Lakadia PS for TEQ Green Power XVI Pvt. Ltd. (TGPXVIPL) (Appl. No. 2200000398: 76MW)	• 220 kV line bay – 1 No. (New Bus Section-II)	<b>30.09.2026</b> (as per start date requested by applicant)*
9.	Implementation of 220 kV line bay at Lakadia PS for Ganeko Solar Pvt. Ltd. (GSPL) (Appl. No. 2200000458: 290 MW)	• 220 kV line bay – 1 No. (New Bus Section-II)	<b>31.12.2026</b> (as per start date requested by applicant)*
10.	Implementation of 220 kV line bay at Lakadia PS for Juniper Green Energy Private Limited (JGEPL) (Appl. No. 2200000500: 150 MW)	• 220 kV line bay – 1 No. (New Bus Section-II)	<b>31.03.2027</b> (as per start date requested by applicant)
11.	Implementation of 220 kV line bay at Lakadia PS for Serentica Renewables India Private Limited (SRIPL) (Appl. No. 2200000610: 200 MW)	• 220 kV line bay – 1 No. (New Bus Section-II)	<b>30.06.2026*</b>
12.	Implementation of 220 kV line bay at Lakadia PS for RDS Solar Park Private	• 220 kV line bay – 1 No. (New Bus Section-II)	<b>30.06.2026*</b>



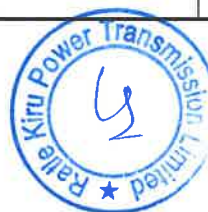
	Limited (RDSSPPL) (Appl. No. 2200000639: 350 MW)		
13.	Implementation of 220 kV line bay at Lakadia PS for Percentum Renewables Private Limited (PRPL) (Appl. No. 2200000673: 148 MW)	• 220 kV line bay – 1 No. (New Bus Section-II)	30.06.2026*
14.	Installation of 1x330 MVar 765 kV Bus Reactor (2nd) along-with associated bay	• 330 MVar, 765 kV Bus Reactor: 1 No. • 765 kV BR bay: 1 No.	18 months from date of allocation to implementing agency
15.	Augmentation of transformation capacity at Lakadia PS by 1x1500 MVA, 765/400 kV ICTs (3rd)	• 1500 MVA, 765/400 kV ICT: 1 No. • 400 kV ICT bay: 1 No. • 765 kV ICT bay: 1 No.	18 months from date of allocation to implementing agency
*subject to minimum schedule of 18 months from the date of allocation to implementing agency.			
<b>Note:</b>			
TSP of Lakadia S/s (WRSS XXI(A) Transco Ltd.) shall provide space for above augmentation works at Lakadia S/s			
<b>5. Transmission system for evacuation of RE power from Raghnesda area of Gujarat – 3 GW under Phase-I</b>			
<b>Tentative Implementation Time:</b> 30 months from SPV transfer			
<b>BPC: PFC Consulting Limited</b>			
<b>Scope:</b>			
<b>Sl. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Capacity /km</b>	
1.	Establishment of 3x1500 MVA, 765/400 kV Substation near Raghnesda (GIS) with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor  <b>Future provision (space for):</b> <ul style="list-style-type: none"> <li>➤ 765/400 kV ICT along with bays- 5 Nos. (1 No. in Sec-I &amp; 4 Nos. on Sec-II)</li> <li>➤ 765 kV line bays along with switchable line reactors – 10 Nos. (4 Nos. on Sec-I &amp; 6 Nos. on Sec-II)</li> <li>➤ 765 kV Bus Reactor along with bay: 2 Nos. (on Sec-II)</li> <li>➤ 765 kV Sectionalizer: 1 -set</li> <li>➤ 400 kV line bays along with switchable line reactors– 12 Nos. (4 Nos. on Sec-I &amp; 8 Nos. on Sec-II)</li> <li>➤ 400/220 kV ICT along with bays - 8 Nos. (4 Nos. on each 400 kV Section)</li> <li>➤ 400 kV Bus Reactor along with bays: 2 Nos. (Sec-II)</li> <li>➤ 400 kV Sectionalization bay: 1- set</li> <li>➤ 220 kV line bays: 12 Nos. (6 Nos. on each 220 kV Section)</li> <li>➤ 220 kV Sectionalization bay: 1 set</li> <li>➤ 220 kV BC: 1 No.</li> <li>➤ Establishment of 6000 MW, ± 800 kV Raghnesda (HVDC) [LCC] terminal station (4x1500 MW) along with</li> </ul>	<ul style="list-style-type: none"> <li>• 765/400 kV, 1500 MVA ICT.– 3 Nos. (10x500 MVA single phase units including one spare ICT Unit)</li> <li>• 765 kV ICT bays – 3 Nos.</li> <li>• 400 kV ICT bays – 3 Nos.</li> <li>• 765 kV Line bays – 2 Nos.</li> <li>• 1x330 MVar, 765 kV bus reactor- 2 Nos. (7x110 MVAR single phase Reactors including one spare Unit for bus /line reactor)</li> <li>• 765 kV Bus reactor bay – 2 Nos.</li> <li>• 125 MVar, 420 kV reactor- 2 Nos.</li> <li>• 400 kV Reactor bay- 2 Nos.</li> <li>• 400 kV line bays - 4 Nos. (for interconnection of RE Projects)</li> </ul>	



		associated interconnections with 400 kV HVAC Switchyard & all associated equipment (incl. filters)/bus extension, etc.																			
2.	Raghanesda (GIS) – Banaskantha (PG) 765 kV D/c line		95 km																		
3.	2 Nos. 765 kV line bays at Banaskantha (PG) S/s		765 kV line bays – 2 Nos.																		
<p><b>Note:</b></p> <ul style="list-style-type: none"> <li>TSP of Banaskantha S/s (POWERGRID) shall provide space for scope at Sl. 3 above.</li> </ul>																					
<p><b>6. Transmission scheme for evacuation of power from Ratle HEP (850 MW) &amp; Kiru HEP (624 MW): Part-A</b></p> <p><b>Tentative Implementation Time:</b> 24 months from SPV transfer</p> <p><b>BPC:</b> REC Power Development and Consultancy Limited</p> <p><b>Scope:</b></p> <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Description of Transmission Element</th> <th>Scope of work (Type of Substation/Conductor capacity/km/no. of bays etc.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s along with associated bays at Kishtwar S/s</td> <td>           LILO Length- 3km            •400 kV Kishenpur -Kishtwar (LILO section) shall be on Twin HTLS (with minimum 2100 MVA capacity) configuration            •400 kV Dulhasti -Kishtwar (LILO section) shall be on Twin Zebra configuration            •400 kV line bays at Kishtwar – 2 Nos. (GIS) (line bays at Kishtwar S/s end shall be rated accordingly)         </td> </tr> <tr> <td>2</td> <td>400 kV Kishenpur-Samba D/c line (Quad) (only one circuit is to be terminated at Kishenpur utilizing 1 no. of 400 kV vacated line bay at Kishenpur S/s (formed with bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/c line (Quad) at Kishenpur) while second circuit would be connected to bypassed circuit of 400 kV Kishtwar – Kishenpur line (Quad))</td> <td>Length -36 km (Quad)</td> </tr> <tr> <td>3</td> <td>Bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/c line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/c line(Quad), thus forming <b>400 kV Kishtwar - Samba (Quad) direct line (one ckt)</b></td> <td></td> </tr> <tr> <td>4</td> <td>1x80 MVA Switchable line reactor at Samba end of 400 kV Kishtwar-Samba 400 kV line-165 km (Quad) [formed after bypassing of 400 kV Kishtwar – Kishenpur line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/c line(Quad)]</td> <td>           •420 kV, 80 MVA switchable line reactors at Samba S/s end– 1 Nos.            •Switching equipment for 420 kV, 80 MVA switchable line reactors at Samba S/s end – 1 no         </td> </tr> <tr> <td>5</td> <td>1x63 MVA Switchable line reactor on each ckt at Jalandhar end of Kishenpur– Jalandhar D/c direct line -171km(Twin) (formed after bypassing both ckts of 400 kV Kishenpur – Samba D/c line</td> <td>           •420 kV, 63 MVA switchable line reactors at Jalandhar S/s end– 2 Nos.            •Switching equipment for 420 kV. 63         </td> </tr> </tbody> </table>				Sl. No.	Description of Transmission Element	Scope of work (Type of Substation/Conductor capacity/km/no. of bays etc.)	1	LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s along with associated bays at Kishtwar S/s	LILO Length- 3km •400 kV Kishenpur -Kishtwar (LILO section) shall be on Twin HTLS (with minimum 2100 MVA capacity) configuration •400 kV Dulhasti -Kishtwar (LILO section) shall be on Twin Zebra configuration •400 kV line bays at Kishtwar – 2 Nos. (GIS) (line bays at Kishtwar S/s end shall be rated accordingly)	2	400 kV Kishenpur-Samba D/c line (Quad) (only one circuit is to be terminated at Kishenpur utilizing 1 no. of 400 kV vacated line bay at Kishenpur S/s (formed with bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/c line (Quad) at Kishenpur) while second circuit would be connected to bypassed circuit of 400 kV Kishtwar – Kishenpur line (Quad))	Length -36 km (Quad)	3	Bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/c line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/c line(Quad), thus forming <b>400 kV Kishtwar - Samba (Quad) direct line (one ckt)</b>		4	1x80 MVA Switchable line reactor at Samba end of 400 kV Kishtwar-Samba 400 kV line-165 km (Quad) [formed after bypassing of 400 kV Kishtwar – Kishenpur line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/c line(Quad)]	•420 kV, 80 MVA switchable line reactors at Samba S/s end– 1 Nos. •Switching equipment for 420 kV, 80 MVA switchable line reactors at Samba S/s end – 1 no	5	1x63 MVA Switchable line reactor on each ckt at Jalandhar end of Kishenpur– Jalandhar D/c direct line -171km(Twin) (formed after bypassing both ckts of 400 kV Kishenpur – Samba D/c line	•420 kV, 63 MVA switchable line reactors at Jalandhar S/s end– 2 Nos. •Switching equipment for 420 kV. 63
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7	<p><b>Transmission system strengthening at Kurnool-III PS for integration of additional RE generation projects</b></p> <p><b>Tentative Implementation Time:</b></p> <p>i. Package A– 24 months</p> <p>ii. Package B – progressively from June'25 to Dec'27</p> <p>iii. Package C – 24 months</p> <p><b>BPC: PFC Consulting Limited</b></p> <p><b>Scope:</b></p> <table border="1"> <thead> <tr> <th>Pack age</th> <th>Scope of the Transmission Scheme</th> <th>Capacity /km</th> <th>Schedule</th> </tr> </thead> <tbody> <tr> <td rowspan="2">A</td> <td>Augmentation of transformation capacity by 3x1500 MVA, 765/400 kV ICTs at Kurnool-III PS</td> <td> <ul style="list-style-type: none"> <li>• 3x1500 MVA, 765/400 kV ICT</li> <li>• 765 kV ICT bay – 3 Nos.</li> <li>• 400 kV ICT bay – 3 Nos.</li> <li>• 400 kV Bus Sectionaliser – 1 Set</li> </ul> </td> <td rowspan="2">24 months</td> </tr> <tr> <td>Kurnool-III PS – Chilakaluripeta 765 kV D/c line with 240 MVAr switchable line reactors at both ends</td> <td>           ~ 260 km           <ul style="list-style-type: none"> <li>• 765 kV line bays – 2 Nos. (at Kurnool-III PS)</li> <li>• 765 kV line bays – 2 Nos. (at Chilakaluripeta)</li> <li>• 765 kV, 240 MVAr SLR at Kurnool-III PS – 2 Nos. (6x80 MVAr units)</li> <li>• 765 kV, 240 MVAr SLR at Chilakaluripeta – 2 Nos. (6x80 MVAr units)</li> </ul> </td> </tr> <tr> <td>B</td> <td>2 Nos. of 400 kV line bays at Kurnool-III PS for termination of dedicated transmission line of M/s</td> <td>• 400 kV line bays – 2 Nos.</td> <td>30.06.26</td> </tr> </tbody> </table>		Pack age	Scope of the Transmission Scheme	Capacity /km	Schedule	A	Augmentation of transformation capacity by 3x1500 MVA, 765/400 kV ICTs at Kurnool-III PS	<ul style="list-style-type: none"> <li>• 3x1500 MVA, 765/400 kV ICT</li> <li>• 765 kV ICT bay – 3 Nos.</li> <li>• 400 kV ICT bay – 3 Nos.</li> <li>• 400 kV Bus Sectionaliser – 1 Set</li> </ul>	24 months	Kurnool-III PS – Chilakaluripeta 765 kV D/c line with 240 MVAr switchable line reactors at both ends	~ 260 km <ul style="list-style-type: none"> <li>• 765 kV line bays – 2 Nos. (at Kurnool-III PS)</li> <li>• 765 kV line bays – 2 Nos. (at Chilakaluripeta)</li> <li>• 765 kV, 240 MVAr SLR at Kurnool-III PS – 2 Nos. (6x80 MVAr units)</li> <li>• 765 kV, 240 MVAr SLR at Chilakaluripeta – 2 Nos. (6x80 MVAr units)</li> </ul>	B	2 Nos. of 400 kV line bays at Kurnool-III PS for termination of dedicated transmission line of M/s	• 400 kV line bays – 2 Nos.	30.06.26
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		Adani Renewable Energy Forty Two Ltd.		
		4 Nos. of 400 kV line bay at Kurnool-III PS for termination of dedicated transmission lines of M/s Indosol Solar Pvt. Ltd.	<ul style="list-style-type: none"> <li>• 400 kV line bays – 1 Nos.</li> <li>• 400 kV line bays – 1 Nos.</li> <li>• 400 kV line bays – 2 Nos.</li> </ul>	30.06.25 24 months 31.03.27
		2 Nos. of 400 kV line bays at Kurnool-III PS for termination of dedicated transmission line of M/s Adani Renewable Energy Fifty One Ltd.	<ul style="list-style-type: none"> <li>• 400 kV line bays – 2 Nos.</li> </ul>	31.12.27
	C	Augmentation of 1x1500 MVA 765/400 kV ICT (7 <sup>th</sup> ) at Kurnool-II PS	<ul style="list-style-type: none"> <li>• 1x1500 MVA, 765/400 kV ICT</li> <li>• 765 kV ICT bay – 1 Nos.</li> <li>• 400 kV ICT bay – 1 Nos.</li> </ul>	24 months

2. The appointment of the Bid Process Coordinator is subject to the conditions laid down in the Guidelines issued by Ministry of Power in this regard, amended from time to time.

[F. No. 15/3/2018- Trans- Part(4)]

NAOREM INDRAKUMAR SINGH, Under Secy. (Transmission)



**SINGLE STAGE REQUEST FOR PROPOSAL  
DOCUMENT**

**FOR**

**SELECTION OF BIDDER AS TRANSMISSION SERVICE  
PROVIDER THROUGH TARIFF BASED COMPETITIVE  
BIDDING PROCESS**

**TO**

**ESTABLISH INTER-STATE TRANSMISSION SYSTEM**

**FOR**

**TRANSMISSION SCHEME FOR EVACUATION OF  
POWER FROM RATLE HEP (850 MW) & KIRU HEP (624  
MW): PART-A**

**ISSUED BY**

**REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)**

**Registered Office:  
Core-4, SCOPE Complex,  
7, Lodhi Road, New Delhi – 110 003  
Email: [satyabhan.sahoo@recpdcl.in](mailto:satyabhan.sahoo@recpdcl.in) & [tbc@recpdcl.in](mailto:tbc@recpdcl.in)**

**26.09.2024**





**REC Power Development and Consultancy Limited**  
**(A wholly owned subsidiary of REC Limited)**  
**Core-4, SCOPE Complex,**  
**7, Lodhi Road, New Delhi – 110 003**

**Request for Proposal Document for selection of Bidder as Transmission Service Provider through tariff based competitive bidding process to establish Inter-State Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” is issued by REC Power Development and Consultancy Limited.**

This RFP document is issued to -

M/s.

**Chief Executive Officer,**  
**REC Power Development and Consultancy Limited**  
**(A wholly owned subsidiary of REC Limited)**

Email: .....

Place: .....

Date: .....

Signature: .....



**REQUEST FOR PROPOSAL NOTIFICATION**

**REC Power Development and Consultancy Limited**  
**(A wholly owned subsidiary of REC Limited)**  
**Core-4, SCOPE Complex,**  
**7, Lodhi Road, New Delhi – 110 003**

1. Ministry of Power vide its notification no. 3229 [F No. 15/03/2018- Trans- Part(4)] dated 21.08.2024 has notified REC Power Development and Consultancy Limited (RECPDCL) to be the Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish Inter-State transmission system for “**Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A**” through tariff based competitive bidding process.
2. REC Power Development and Consultancy Limited (hereinafter referred to as BPC) hereby invites all prospective Bidders for issue of Request for Proposal (RFP) for selection of Bidder as Transmission Service Provider (TSP) on the basis of international competitive bidding in accordance with the “Tariff Based Competitive Bidding Guidelines for Transmission Service” and “Guidelines for Encouraging Competition in Development of Transmission Projects” issued by Government of India, Ministry of Power under section – 63 of The Electricity Act, 2003 and as amended from time to time. The responsibility of the TSP would be to establish the following Inter-State Transmission System - **Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A** (hereinafter referred to as 'Project') on build, own, operate & transfer basis and to provide transmission service:

Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
1.	<p>LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s along with associated bays at Kishtwar S/s</p> <ul style="list-style-type: none"> <li>• 400 kV Kishenpur -Kishtwar (LILO section) shall be on Twin HTLS (with minimum 2100 MVA capacity) configuration</li> <li>• 400 kV Dulhasti -Kishtwar (LILO section) shall be on Twin Zebra configuration</li> <li>• 400 kV line bays at Kishtwar – 2 Nos. (GIS) (line bays at Kishtwar S/s end shall be rated accordingly)</li> </ul>	24 months from SPV transfer
2.	<p>400 kV Kishenpur-Samba D/C line (Quad)</p> <p>(only one circuit is to be terminated at Kishenpur utilizing 1 No. of 400 kV vacated line bay at Kishenpur S/s (formed with bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur) while second circuit would be connected to bypassed circuit of 400 kV Kishtwar – Kishenpur line (Quad))</p>	



3.	Bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad), thus forming 400 kV Kishtwar - Samba (Quad) direct line (one ckt)
4.	<p>1x80 MVAR Switchable line reactor at Samba end of 400 kV Kishtwar-Samba 400 kV line-165 km (Quad) [formed after bypassing of 400 kV Kishtwar – Kishenpur line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad)]</p> <ul style="list-style-type: none"> <li>• 420 kV, 80 MVAR switchable line reactors at Samba S/s end– 1 No.</li> <li>• Switching equipment for 420kV, 80 MVAR switchable line reactors at Samba S/s end – 1 No.</li> </ul>
5.	<p>1x63 MVAR Switchable line reactor on each ckt at Jalandhar end of Kishenpur– Jalandhar D/C direct line -171 km (Twin) (formed after bypassing both ckts of 400 kV Kishenpur – Samba D/C line (Twin) and 400 kV Samba – Jalandhar D/C line (Twin) at Samba and connecting them together to form Kishenpur– Jalandhar D/C direct line (Twin))</p> <ul style="list-style-type: none"> <li>• 420 kV, 63 MVAR switchable line reactors at Jalandhar S/s end– 2 Nos.</li> <li>• Switching equipment for 420kV, 63 MVAR switchable line reactors at Jalandhar S/s end – 2 Nos.</li> </ul>
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7.	<p>1x80 MVAR Switchable line reactor at Samba end of Samba –Nakodar direct line (Quad) (187km) formed after bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line (Quad Moose), thus forming Samba – Nakodar line (Quad)</p> <ul style="list-style-type: none"> <li>• 420 kV, 80 MVAR switchable line reactors at Samba S/s end– 1 No.</li> <li>• Switching equipment for 420 kV, 80 MVAR switchable line reactors at Samba S/s end – 1 No.</li> </ul>



8.	Bypassing 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line (Quad Moose), thus forming 400 kV Samba – Nakodar (Quad) direct line	
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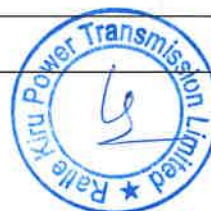
**Note:**

- *M/s Sterlite shall provide space for 2 Nos. of 400 kV line bays (GIS) at Kishtwar S/s*
  - *M/s POWERGRID shall provide space for 1 No. 80 MVar Switchable line reactor (along with switching equipment) at Samba end of 400 kV Kishtwar-Samba 400 kV line*
  - *M/s POWERGRID shall provide space for 2 Nos. 63 MVar Switchable line reactor (along with switching equipment) at Jalandhar end of Kishenpur– Jalandhar D/C direct line (on each ckt)*
  - *M/s POWERGRID shall provide space for 1 No. 80 MVar Switchable line reactor (along with switching equipment) at Samba end of Samba –Nakodar direct line*
3. The TSP shall ensure that design, construction and testing of all equipment, facilities, components and systems of the Project shall be in accordance with the provisions of the Transmission Service Agreement and applicable Rules/ Regulations, Orders and Guidelines issued by the Central Government.
4. **Transmission License:** The TSP shall obtain the Transmission License from the Commission.
5. **Bidding Process:** The Transmission Service Provider shall be selected through tariff based competitive bidding process for the Project based on meeting stipulated Qualification Requirements prescribed in Clause 2.1 of Section 2 of RFP and the lowest Quoted Transmission Charges discovered from Final Offers quoted during the e-reverse bidding. The selection of the TSP shall be subject to it obtaining Transmission License from the Commission, which, after expiry, may be further extended by such period as deemed appropriate by the Commission under powers vested with it to amend the conditions of the Transmission License.

The entire bidding process shall be conducted on electronic platform created by MSTC Limited.

The Bid shall be a single stage two envelope bid comprising the Technical Bid and the Financial Bid. The Bidders shall submit the Bid online through the electronic bidding platform. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. There shall be no physical submission of the Financial Bid.

The Technical Bid shall be opened first and the Financial Bid of only the bidders who have qualified in the Technical Bid shall be opened. The Financial Bid will comprise of two rounds. In the first round the Initial Offer of the responsive bids would be opened and Quoted Transmission Charges of Initial Offer shall be ranked on the basis of ascending order. The Bidders, in the first fifty per cent of the ranking (with any fraction rounded off to higher integer) or four Bidders, whichever is higher, shall qualify for participating in the electronic reverse auction stage and submit their Final Offer.



6. The objective of the bidding process is to select a Successful Bidder pursuant to this RFP, who shall acquire one hundred percent (100%) of the equity shares of ..... (Insert the name of SPV) along with all its related assets and liabilities as per the provisions of the Share Purchase Agreement, at the Acquisition Price to be intimated by the BPC, twenty (20) days prior to the Bid Deadline.

The ..... (Insert the name of SPV), of which one hundred percent (100%) equity shares will be acquired by the Selected Bidder, shall be responsible as the TSP, for ensuring that it undertakes ownership, financing, development, design, engineering, procurement, construction, commissioning, operation and maintenance of the Project, and to provide Transmission Service as per the terms of the RFP Project Documents.

The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTU or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto.

7. **Commencement of Transmission Service:** The Bidder shall have to commence Transmission Service in accordance with the provisions of the Transmission Service Agreement.
8. **Transmission Charges:** The Transmission Charges shall be payable by the Designated ISTS Customers in Indian Rupees through the CTU as per Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time. Bidders shall quote the Transmission Charges as per the pre-specified structure, as mentioned in the RFP.
9. **Issue of RFP document:** The detailed terms and conditions for qualification and selection of the Transmission Service Provider for the Project and for submission of Bid are indicated in the RFP document. All those interested in purchasing the RFP document may respond in writing to Chief Executive Officer, [satyabhan.sahoo@recpdcl.in](mailto:satyabhan.sahoo@recpdcl.in) & [tcb@recpdcl.in](mailto:tcb@recpdcl.in) at the address given in para 12 below with a non-refundable fee of Rs. 5,00,000/- (Rupees Five Lakh Only) or US\$ 7,000 (US Dollars Seven Thousand Only) plus GST @18%, to be paid latest by 28.11.2024 via electronic transfer to the following Bank Account:

Bank Name, Address &	ICICI Bank 9A, Phelps Building, Inner Circle, Connaught Place, New
Bank Account Name	REC Power Development & Consultancy Limited
Bank Account No	000705041275
Bank IFSC Code No	ICIC0000007

Immediately after issuance of RFP document, the Bidder shall submit the Pre-Award Integrity Pact in the format as prescribed in Annexure B, which shall be applicable for and during the bidding process, duly signed on each page by any whole-time Director/ Authorized Signatory, duly witnessed by two persons, and shall be submitted by the Bidder in two (2) originals in a separate envelope, duly superscripted with Pre-Award Integrity Pact. The Bidder shall submit the Pre-Award Integrity Pact on non-judicial stamp paper of Rs. 100/- each duly purchased from the National Capital Territory of Delhi. In case the Bidder is in a consortium, the Pre-



Award Integrity Pact shall be signed and submitted by each member of the Consortium separately.

The RFP document shall be issued to the Bidders on any working day from 26.09.2024 to 28.11.2024 between 1030 hours (IST) to 1600 hours (IST). The BPC, on written request and against payment of the above mentioned fee by any Bidder shall promptly dispatch the RFP document to such Bidder by registered mail/ air mail. BPC shall, under no circumstances, be held responsible for late delivery or loss of documents so mailed.

10. **Receipt and opening of Bid:** The Bid must be uploaded online through the electronic bidding platform on or before 1500 hours (IST) on 29.11.2024. Technical Bid will be opened by the Bid Opening Committee on the same day at 1530 hours (IST) in the office of Central Electricity Authority, in the online presence of Bidders' representatives who wish to attend. If the Bid Deadline is a public holiday at the place of submission of Bid, it shall be opened on the next working day at the same time and venue. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. Bidders meeting the Qualification Requirements, subject to evaluation as specified in Clause 3.2 to 3.4 shall be declared as "Qualified Bidders" and eligible for opening of Initial Offer.
11. The RFP document is not transferable. BPC reserves the right to reject all Bids and/or annul the process of tariff based competitive bidding for selection of Bidder as TSP to execute the Project without assigning any reason. BPC shall not bear any liability, whatsoever, in this regard.

12. **Nodal person for enquiries and clarifications**

All correspondence and clarification in respect of RFP document shall be addressed to:

Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4,  
Sec – 29 Gurugram – 122 001  
Email: [satyabhan.sahoo@recpdcl.in](mailto:satyabhan.sahoo@recpdcl.in) & [tbc@recpdcl.in](mailto:tbc@recpdcl.in)





**DISCLAIMER**

1. This Request for Proposal (RFP) document is not an agreement or offer by the BPC to the prospective Bidders or to any other party. The purpose of this RFP document is to provide interested parties with information to assist the formulation of their Bid. The RFP document is based on material and information available in public domain.
2. This RFP, along with its Annexure, is not transferable and the information contained therein are to be used only by the person to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient's professional advisors). In the event that the recipient does not continue with its involvement in the Project in accordance with this RFP, this RFP must be kept confidential.
3. While this RFP has been prepared in good faith, neither the BPC nor its employees or advisors/consultants make any representation or warranty expressed or implied as to the accuracy, reliability or completeness of the information contained in this RFP. The Bidders shall satisfy themselves, on receipt of the RFP document, that the RFP document is complete in all respects. Intimation of any discrepancy shall be given to this office immediately. If no intimation is received from any Bidder within ten (10) days from the date of issue of this RFP document on or before the date & time mentioned in this RFP, it shall be considered that the issued document, complete in all respects, has been received by the Bidders.

This bidding process is in accordance with the Bidding Guidelines issued by Ministry of Power, Government of India under Section 63 of the Electricity Act, 2003. Revisions or amendments in these Bidding Guidelines may cause the BPC to modify, amend or supplement this RFP document, including the RFP Project Documents to be in conformance with the Bidding Guidelines.

4. This RFP document includes statements, which reflect various assumptions arrived at by BPC in order to give a reflection of current status in the RFP. These assumptions should not be entirely relied upon by Bidders in making their own assessments. This RFP document does not purport to contain all the information each Bidder may require and may not be appropriate for all persons. It is not possible for BPC to consider the investment objectives, financial situation and particular needs of each party who reads or uses this RFP document. Certain Bidders may have a better knowledge of the Project than the others. Each Bidder should conduct its own investigations and analysis and should check the accuracy, reliability and completeness of the information in this RFP document and obtain independent advice from appropriate sources.
5. Neither BPC nor their employees or consultants make any representation or warranty as to the accuracy, reliability or completeness of the information in this RFP document.
6. Neither BPC, its employees nor its consultants will have any liability to any Bidder or any other person under the law of contract, tort, the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage which may arise from or be incurred or suffered in connection with anything contained in this RFP document, any matter deemed to form part of this RFP document, the award of the Project, the information supplied by or on behalf of BPC or its employees, any consultants or otherwise arising in any way from the qualification process for the said Project.
7. By participating in the bidding process, each of the Bidder shall have acknowledged and



accepted that it has not been induced to enter into such agreement by any representation or warranty, expressed or implied, or relied upon any such representation or warranty by or on behalf of BPC or any person working in the bidding process.

8. BPC may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement this RFP document. Such updations, amendments or supplements, if any, will however be circulated to the Bidders not later than 15 days prior to the last date for submission of Bid.
9. Each Bidder unconditionally agrees, understands and accepts that the BPC reserves the rights to accept or reject any or all Bids without giving any reason. Neither the BPC nor its advisers shall entertain any claim of any nature, whatsoever, including without limitations, any claim seeking expenses in relation to the preparation of Bids.
10. This RFP may be withdrawn or cancelled by the BPC at any time without assigning any reasons thereof. BPC further reserves the right, at its complete discretion to reject any or all of the Bids without assigning any reasons whatsoever.



## INDEX

SECTION	CONTENTS	PAGE NO.
	<b>DEFINITIONS</b>	<b>12</b>
<b>1.</b>	<b>INTRODUCTION</b>	<b>18</b>
<b>2.</b>	<b>INFORMATION AND INSTRUCTIONS FOR BIDDERS</b>	<b>25</b>
<b>3.</b>	<b>EVALUATION OF THE TECHNICAL AND FINANCIAL BID</b>	<b>54</b>
<b>4.</b>	<b>ANNEXURES FOR BID</b>	<b>60</b>
	<b>ANNEXURES</b>	
<b>1</b>	<b>Format for the Covering Letter</b>	<b>62</b>
<b>2</b>	<b>Format for Letter of Consent from Consortium Members</b>	<b>66</b>
<b>3</b>	<b>Format for evidence of authorized signatory's authority (Power of Attorney)</b>	<b>68</b>
<b>4</b>	<b>Format for Power of Attorney to be provided by each of the other members of the Consortium in favor of the Lead Member</b>	<b>70</b>
<b>5</b>	<b>Format for Bidder's composition and ownership structure and Format for Authorization</b>	<b>72</b>
<b>6</b>	<b>Format for Consortium Agreement</b>	<b>75</b>
<b>7A</b>	<b>Format for Qualification Requirement – Net worth</b>	<b>80</b>
<b>7B</b>	<b>Format for Technical Requirement</b>	<b>83</b>
<b>7C</b>	<b>Format for Technical and Financial Requirement – Relationship &amp; Equity Shareholding</b>	<b>86</b>
<b>7D</b>	<b>Format for Additional Information for verification of Financial and Technical Capabilities of Bidders</b>	<b>88</b>
<b>8</b>	<b>Format for Undertaking and Details of Equity Investment</b>	<b>91</b>
<b>9</b>	<b>Format for Authorization from Parent / Affiliate of Bidding Company / Member of Bidding Consortium whose technical / financial capability has been used by the Bidding Company / Member of Bidding Consortium.</b>	<b>97</b>
<b>10</b>	<b>Format for Undertaking by Technically/Financially Evaluated Entity/Ultimate Parent Company</b>	<b>99</b>
<b>11</b>	<b>Format for Board Resolution</b>	<b>101</b>
<b>11A</b>	<b>Illustration for Applicable Board Resolution Requirements under Clause 2.5.2</b>	<b>104</b>
<b>12</b>	<b>Format for illustration of Affiliates</b>	<b>106</b>
<b>13</b>	<b>Format for disclosure</b>	<b>107</b>



## RFP for Selection of Bidder as Transmission Service Provider

SECTION	CONTENTS	PAGE NO.
14	Format For Bid Bond	108
14 A	<del>Format for Bid Security Declaration</del>	110
15	Format for Contract Performance Guarantee	111
16	Format for Checklist for Technical Bid Submission Requirements	113
17	List of Banks	116
18	Grid Map of the Project	117
19	Format for Clarifications / Amendments on the RFP / RFP Project Documents	118
20	Formats For RFP Project Documents	119
21	Format For Financial Bid	120
22	Format of Affidavit	121
	Annexure A	123
	Annexure-B	124
	Annexure-C	131



**DEFINITIONS**

Any capitalized term, used but not defined in this RFP, shall have the meaning ascribed to such term in the RFP Project Documents, or the Bidding Guidelines, in that order. In absence of availability of definitions in the foregoing references, the capitalized terms shall be interpreted in accordance with the Electricity Act 2003, Grid Code or any other relevant electricity law, rule or regulation prevalent in India, as amended or re-enacted from time to time, in that order.

**The following terms are defined for use in this RFP:**

**"Acquisition Price"** shall have the same meaning as defined in the Share Purchase Agreement;

**"Affiliate"** shall mean a company that either directly or indirectly

- i. controls or
- ii. is controlled by or
- iii. is under common control with

a Bidding Company (in the case of a single company) or a Member (in the case of a Consortium) and **"control"** means ownership by one entity of at least twenty six percent (26%) of the voting rights of the entity. As an illustration a chart is annexed hereto as Annexure – 12;

**"Bid"** shall mean Technical Bid and Financial Bid (Initial Offer and Final Offer) submitted by the Bidder, in response to this RFP, in accordance with the terms and conditions thereof;

**"Bidder"** shall mean either a single company (including its permitted successors and legal assigns) or a Consortium of companies (including its permitted successors and legal assigns) submitting a Bid in response to this RFP. Any reference to the Bidder includes Bidding Company, Bidding Consortium/ Consortium, Member in a Bidding Consortium and Lead Member of the Bidding Consortium jointly and severally, as the context may require;

**"Bidding Company"** shall refer to such single company (including its permitted successors and legal assigns) that has submitted a Bid for the Project;

**"Bidding Consortium/ Consortium"** shall refer to a group of companies (including their permitted successors and legal assigns) that has collectively submitted a Bid for the Project;

**"Bidding Guidelines"** shall mean the "Tariff Based Competitive-Bidding Guidelines for Transmission Service" and "Guidelines for Encouraging Competition in Development of Transmission Projects" issued by Government of India, Ministry of Power under Section – 63 of Electricity Act as amended from time to time;

**"Bid Bond"** shall mean the unconditional and irrevocable bank guarantee for Rupees Seven Crore and Thirty Six Lakh Only (Rs. 7.36 Crore), to be submitted along with the Technical Bid by the Bidder under Clause 2.11 of this RFP, as per the format prescribed in Annexure 14;

**"Bid Deadline"** shall mean the last date and time for submission of online Bid in response to this RFP, specified in Clause 2.7.1;

**"Bid Process Coordinator or BPC"** shall mean a person or its authorized representative as notified by the Government of India, responsible for carrying out the process for selection of



Bidder who will acquire Transmission Service Provider;

~~"Bid Security Declaration" shall mean the declaration to be submitted along with the Technical Bid by the Bidder in lieu of the Bid Bond, as per the format prescribed in Annexure 14A;~~

"CEA" shall mean the Central Electricity Authority constituted under Section - 70 of the Electricity Act;

"Commission" or "CERC" shall mean the Central Electricity Regulatory Commission of India constituted under Section-76 of The Electricity Act, 2003 and any successors and assigns;

"Conflict of Interest" A Bidder shall be considered to be in a Conflict of Interest with one or more Bidders in the same bidding process if they have a relationship with each other, directly or through a common company, that puts them in a position to have access to information about or influence the Bid of another Bidder.

Provided that if two or more bidders in the bidding process have formed a Joint Venture Company or Consortium to execute another project, the Bidders will not be considered to have Conflict of Interest;

"Commercial Operation Date (COD)" shall mean the date as per Article 6.2 of the Transmission Service Agreement;

"Consents, Clearances, Permits" shall mean all authorizations, licenses, approvals, registrations, permits, waivers, privileges, acknowledgements, agreements, or concessions required to be obtained from or provided by any concerned authority for the development, execution and performance of Project including without any limitation on the construction, ownership, operation and maintenance of the transmission lines and/or sub-stations;

"Contract Performance Guarantee" shall have the meaning as per Clause 2.12 of this RFP;

"Contract Year" shall mean the period beginning on the Scheduled COD, and ending on the immediately succeeding March 31 and thereafter each period of 12 months beginning on April 1 and ending on March 31 provided that:

- (i) the last Contract Year shall end on the last day of the term of the Transmission Service Agreement;

"CTU/Central Transmission Utility" shall have same meaning as defined in the Electricity Act, 2003;

"Designated ISTS Customers" or "DICs" shall have the meaning as ascribed in Regulation 2(l) of Central Electricity Regulatory Commission (Sharing of inter-State Transmission Charges and Losses) Regulation 2020 and as amended or modified from time to time;

"Effective Date" shall have the meaning as ascribed thereto in the Transmission Service Agreement;

"Element" shall mean each Transmission Line or each circuit of the Transmission Lines (where there are more than one circuit) or each bay of the Sub-station or switching station or HVDC terminal or inverter station of the Project, including ICTs, Reactors, SVC, FSC, etc. forming part of the ISTS





which will be owned, operated and maintained by the concerned ISTS Licensee, and which may have a separate scheduled COD as per Schedule 2 of the Transmission Service Agreement and may have a separate percentage for recovery of Transmission Charges on achieving COD as per Schedule 5 of the Transmission Service Agreement;

**“Final Offer”** shall mean the Quoted Transmission Charges, required to be submitted as part of the Financial Bid on the electronic bidding platform during the e-reverse bidding stage. In case, no Final Offer is received during the e-reverse bidding stage then the lowest “Initial Offer” shall be deemed to be the Final Offer;

**“Financial Bid”** shall mean the Initial Offer and Final Offer, containing the Bidder’s Quoted Transmission Charges, as per the format at Annexure – 21 of this RFP;

**“Financially Evaluated Entity”** shall mean the company which has been evaluated for the satisfaction of the financial requirement set forth in Clause 2.1.3 hereof;

**“Government”** shall mean the Central Government;

**“Grid Code” / “IEGC” or “State Grid Code”** shall mean the Grid Code specified by the Central Commission under clause (h) of sub-section (1) of Section 79 of the Electricity Act and/or the State Grid Code as specified by the concerned State Commission referred under clause (h) of sub-section (1) of Section 86 of the Electricity Act as applicable;

**“Infrastructure sector”** shall mean such sectors notified by Department of Economic Affairs in its Gazette Notification no. 13/1/2017-INF dated 14<sup>th</sup> November, 2017 and as amended from time to time;

**“Initial Offer”** shall mean the Quoted Transmission Charges, required to be submitted as part of the Financial Bid on the electronic bidding platform along with the Technical Bid;

**“Inter State Generating Station” or “ISGS”** shall mean a Central / other generating station in which two or more states have shares and whose scheduling is to be coordinated by the Regional Load Despatch Centre;

**“Inter-State Transmission System”** shall have same meaning as defined in the Electricity Act, 2003;

**“Lead Member of the Bidding Consortium” or “Lead Member”** shall mean a company who commits at least twenty six percent (26%) equity stake in the Project, meets the technical requirement as per Clause 2.1.2 and so designated by other Member(s) in Bidding Consortium;

**“Letter of Intent” or “LoI”** shall mean the letter to be issued by the BPC to the Bidder, who has been identified as the selected bidder, for award of the Project to such Bidder;

**“Member in a Bidding Consortium/Member”** shall mean each company in the Bidding Consortium;

**“MOP”** shall mean the Ministry of Power, Government of India;

**“MOEF”** shall mean the Ministry of the Environment and Forests, Government of India;



**"National Committee on Transmission"** shall mean the committee constituted by the Ministry of Power, Government of India in terms of the "Guidelines for Encouraging Competition in Development of Transmission Projects", as notified from time to time;

**"Nodal Agency"** shall mean CTU, which shall execute and implement the Transmission Service Agreement (TSA);

Provided that while taking major decisions, CTU shall consult CEA on technical matters and any other matter it feels necessary.

**"Parent Company"** shall mean an entity that holds at least twenty six percent (26%) of the paid - up equity capital directly or indirectly in the Bidding Company or in the Member in a Bidding Consortium, as the case may be;

**"Qualification Requirements"** shall mean the qualification requirements as set forth in Section-2, Clause 2.1 of this RFP;

**"Quoted Transmission Charges"** shall mean the quoted single annual Transmission Charges submitted online through the electronic bidding platform by the Bidder as part of its Financial Bid as per the format in Annexure – 21 of this RFP;

**"RFP"** shall mean Request for Proposal document along with all schedules, formats, annexure and RFP Project Documents attached hereto, issued by BPC for tariff based competitive bidding process for selection of bidder who will acquire the TSP through e-reverse bidding to execute the Project, and shall include any modifications, amendments or alterations or clarifications thereto;

**"RFP Project Documents"** shall mean the following documents to be entered into in respect of the Project, by the parties to the respective agreements:

- a. Transmission Service Agreement (TSA),
- b. Share Purchase Agreement,
- c. Agreement(s) required, if any, under Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time and
- d. Any other agreement, as may be required;

**"Scheduled COD"** shall have the meaning as ascribed hereto in Clause 2.6 of this RFP;

**"Statutory Auditor"** shall mean the auditor appointed under the provisions of the Companies Act, 1956 / Companies Act, 2013 (as the case may be) or under the provisions of any other applicable governing law;

**"Share Purchase Agreement"** shall mean the agreement amongst REC Power Development and Consultancy Limited, ..... (Insert the name of SPV) and the Successful Bidder for the purchase of one hundred (100%) per cent of the shareholding of the ..... (Insert the name of SPV) for the Acquisition Price, by the Successful Bidder on the terms and conditions as contained therein;

**"Successful Bidder"** or **"Selected Bidder"** shall mean the Bidder selected pursuant to this RFP to acquire one hundred percent (100%) equity shares of ..... (Insert the name of SPV), along with all its related assets and liabilities, which will be responsible as the TSP to establish the



Project on build, own, operate and transfer basis as per the terms of the Transmission Service Agreement and other RFP Project Documents;

**"Survey Report"** shall mean the report containing initial information regarding the Project and other details provided as per the provisions of Clause 1.6.2.1.1 of this RFP;

**"Technical Bid"** shall mean the bid submitted online through the electronic bidding platform, containing the documents as listed out in Clause 2.5.2 of this RFP;

**"Technically Evaluated Entity"** shall mean the company which has been evaluated for the satisfaction of the technical requirement set forth in Clause 2.1.2 hereof;

**"Transmission Charges"** shall mean the Final Offer quoted by Selected Bidder and adopted by the Commission, and as computed in terms of the provisions of Schedule 4 of the TSA, payable to the ISTS Licensee by the Designated ISTS Customers, and collected / disbursed by the CTU, as per Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time;

**"Transmission License"** shall mean the license granted by the Commission in terms of the relevant regulations for grant of such license issued under the Electricity Act, 2003;

**"Transmission Service Agreement" or "TSA"** shall mean the agreement entered into between Nodal Agency and the TSP, pursuant to which the TSP shall build, own, operate and transfer the Project and make available the assets of the Project on a commercial basis;

**"Transmission Service Provider" or "TSP"** shall mean ..... (Insert the name of SPV) which has executed the Transmission Service Agreement and which shall be acquired by the Selected Bidder;

**"Ultimate Parent Company"** shall mean an entity which owns at least twenty six percent (26%) equity in the Bidding Company or Member of a Consortium, (as the case may be) and in the Technically Evaluated Entity and/or Financially Evaluated Entity (as the case may be) and such Bidding Company or Member of a Consortium, (as the case may be) and the Technically Evaluated Entity and/or Financially Evaluated Entity (as the case may be) shall be under the direct control or indirectly under the common control of such entity.



# SECTION – 1

# INTRODUCTION



## SECTION 1

## 1. INTRODUCTION

- 1.1 Ministry of Power vide its notification no. 3229 [F No. 15/03/2018- Trans- Part(4)] dated 21.08.2024 has notified REC Power Development and Consultancy Limited to be the Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish Inter-State transmission system for **“Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A”** through tariff based competitive bidding process.

The BPC hereby invites Bids from all prospective Bidders in accordance with this Request for Proposal (RFP) to select prospective Transmission Service Provider (TSP) in accordance with the “Tariff Based Competitive-Bidding Guidelines for Transmission Service” and “Guidelines for Encouraging Competition in Development of Transmission Projects” issued by Government of India, Ministry of Power under Section – 63 of the Electricity Act. The BPC shall select the Bidder having the prescribed technical and financial capability to become TSP and be responsible for establishing the Project in the state(s) of Jammu & Kashmir and Punjab. The TSP will make the Project available against payment of Transmission Charges, as adopted by the Commission, payable to the TSP, as per Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time.

- 1.2 The TSP will be required to establish the following Inter State Transmission System for **Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A** (hereinafter referred to as ‘Project’) on build, own, operate and transfer basis, and to provide transmission service.

Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
1.	<p>LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s along with associated bays at Kishtwar S/s</p> <ul style="list-style-type: none"> <li>• 400 kV Kishenpur -Kishtwar (LILO section) shall be on Twin HTLS (with minimum 2100 MVA capacity) configuration</li> <li>• 400 kV Dulhasti -Kishtwar (LILO section) shall be on Twin Zebra configuration</li> <li>• 400 kV line bays at Kishtwar – 2 Nos. (GIS) (line bays at Kishtwar S/s end shall be rated accordingly)</li> </ul>	24 months from SPV transfer
2.	<p>400 kV Kishenpur-Samba D/C line (Quad)</p> <p>(only one circuit is to be terminated at Kishenpur utilizing 1 No. of 400 kV vacated line bay at Kishenpur S/s (formed with bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur) while second circuit would be connected to bypassed circuit of 400 kV</p>	



Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
	Kishtwar – Kishenpur line (Quad))	
3.	Bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad), thus forming 400 kV Kishtwar - Samba (Quad) direct line (one ckt)	
4.	1x80 MVAR Switchable line reactor at Samba end of 400 kV Kishtwar-Samba 400 kV line-165 km (Quad) [formed after bypassing of 400 kV Kishtwar – Kishenpur line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad)) <ul style="list-style-type: none"> <li>• 420 kV, 80 MVAR switchable line reactors at Samba S/s end– 1 No.</li> <li>• Switching equipment for 420kV, 80 MVAR switchable line reactors at Samba S/s end – 1 No.</li> </ul>	
5.	1x63 MVAR Switchable line reactor on each ckt at Jalandhar end of Kishenpur– Jalandhar D/C direct line - 171 km (Twin) (formed after bypassing both ckts of 400 kV Kishenpur – Samba D/C line (Twin) and 400 kV Samba – Jalandhar D/C line (Twin) at Samba and connecting them together to form Kishenpur– Jalandhar D/C direct line (Twin)) <ul style="list-style-type: none"> <li>• 420 kV, 63 MVAR switchable line reactors at Jalandhar S/s end– 2 Nos.</li> <li>• Switching equipment for 420kV, 63 MVAR switchable line reactors at Jalandhar S/s end – 2 Nos.</li> </ul>	
6.	400 kV Samba- Jalandhar D/C line(Quad) <p>(only one circuit is to be terminated at Jalandhar utilizing 1 No. of 400 kV vacated line bay at Jalandhar S/s (formed with bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar) while second circuit would be connected to bypassed circuit of Jalandhar –Nakodar 400 kV line (Quad))</p>	
7.	1x80 MVAR Switchable line reactor at Samba end of Samba –Nakodar direct line (Quad) (187km) formed after bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of	





Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
	Samba-Jalandhar 400 kV D/C line(Quad Moose), thus forming Samba –Nakodar line (Quad) <ul style="list-style-type: none"> <li>• 420 kV, 80 MVar switchable line reactors at Samba S/s end– 1 No.</li> <li>• Switching equipment for 420 kV, 80 MVar switchable line reactors at Samba S/s end – 1 No.</li> </ul>	
8.	Bypassing 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line(Quad Moose), thus forming 400 kV Samba –Nakodar (Quad) direct line	

**Note:**

- *M/s Sterlite shall provide space for 2 Nos. of 400 kV line bays (GIS) at Kishtwar S/s*
- *M/s POWERGRID shall provide space for 1 No. 80 MVar Switchable line reactor (along with switching equipment) at Samba end of 400 kV Kishtwar-Samba 400 kV line*
- *M/s POWERGRID shall provide space for 2 Nos. 63 MVar Switchable line reactor (along with switching equipment) at Jalandhar end of Kishenpur– Jalandhar D/C direct line (on each ckt)*
- *M/s POWERGRID shall provide space for 1 No. 80 MVar Switchable line reactor (along with switching equipment) at Samba end of Samba –Nakodar direct line*

**1.3 Project Description**

A comprehensive transmission system for evacuation of power from two Hydro Electric Projects (HEPs) viz Ratle (850 MW) and Kiru HEP (624 MW) has been evolved. The scheme includes transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A as well as separate transmission scheme under RTM (Part-B).

The subject transmission scheme i.e. Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A involves implementation of 400 kV Kishenpur-Samba D/C line (Quad) line along with bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad) (forming 400 kV Kishtwar - Samba (Quad) direct line (one ckt)). For onward dispersal of power, 400 kV Samba-Jalandhar D/C line (Quad) is being implemented along with bypassing 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line(Quad Moose) (forming 400 kV Samba –Nakodar (Quad) direct line). The scheme also involves LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s and line reactors at Samba and Jalandhar end.

As part of separate transmission scheme under RTM (Part-B), bypassing of both ckts of 400 kV Kishenpur – Samba D/C line (Twin) and 400 kV Samba – Jalandhar D/C line (Twin) at Samba S/s is being implemented (connecting them together to form 400 kV



Kishenpur– Jalandhar D/C direct line (Twin)). Further, reconductoring of 400 kV Kishenpur-Kishtwar section (up to LILO point) (with Twin HTLS) and Bay upgradation works (2000 A to 3150 A) at Samba end is also being implemented as part of this separate scheme.

Above transmission scheme was agreed in the 26<sup>th</sup> and 28<sup>th</sup> CMETS-NR meeting held on 20.12.23 and 27.03.24 and 72<sup>nd</sup> NRPC meeting held on 30.03.24. Transmission System was further agreed in 20<sup>th</sup> National Committee on Transmission (NCT) held on 25.06.24. Subsequently, Ministry of Power, Government of India, vide its Gazette Notification 3229 dated 21.08.2024 declared establishment of Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A through tariff based competitive bidding process route.

#### 1.4 Transmission Grid Map

Transmission Grid Map indicating the location of the Project is enclosed as Annexure 18 of this RFP for information and reference of the Bidders.

- 1.5 The objective of the bidding process is to select a Successful Bidder pursuant to this RFP, who shall acquire one hundred percent (100%) of the equity shares of ..... (Insert the name of SPV) along with all its related assets and liabilities as per the provisions of the Share Purchase Agreement, at the Acquisition Price to be intimated by the BPC, twenty (20) days prior to the Bid Deadline.

The ..... (Insert the name of SPV), of which one hundred percent (100%) equity shares will be acquired by the Selected Bidder, shall be responsible as the TSP, for ensuring that it undertakes ownership, financing, development, design, engineering, procurement, construction, commissioning, operation and maintenance of the Project, and to provide Transmission Service as per the terms of the RFP Project Documents.

The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTU or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto.

#### 1.6 Brief Scope of Work

##### 1.6.1 Scope of Transmission Service Provider

The TSP's scope of work for the Project shall comprise, but not necessarily be limited to the following:

- 1.6.1.1 Establishment, operation and maintenance of the Project on build, own, operate and transfer basis and completion of all the activities for the Project, including survey, detailed project report formulation, arranging finance, project management, necessary Consents, Clearances and Permits (way leave, environment & forest, civil aviation, railway/road/river/canal/power crossing/PTCC, etc.), land compensation, design, engineering, equipment, material, construction, erection, testing & commissioning. Further, the actual



location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield Intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report.

- 1.6.1.2 The TSP shall ensure that design, construction and testing of all equipment, facilities, components and systems of the Project shall be in accordance with Transmission Service Agreement and applicable Rules/ Regulations, Orders and Guidelines issued by the Central Government.
- 1.6.1.3 The TSP shall ensure timely completion of entire scope of Project in all respects and its operation and maintenance, as shall be specified in the RFP documents.
- 1.6.1.4 The TSP shall seek Transmission License from the Commission, as per the provisions of the Electricity Act and regulations made thereunder.
- 1.6.1.5 The TSP shall seek approval under Section 164 of Electricity Act, from CEA after acquisition of ..... (Insert the name of SPV). The approval shall be granted by CEA generally within 30 days but in no case later than 45 days from the date of receipt of application (complete in all aspects).

**1.6.2 Scope of Bid Process Coordinator (BPC)**

BPC's scope of work is briefly outlined hereunder:

- 1.6.2.1 The BPC has initiated development of the Project and shall be responsible for the tasks in this regard as specified hereunder:
1. Provide to the Bidders a Survey Report for the Project at least forty five (45) days prior to the Bid Deadline. The Survey Report shall include the suggested route with approximate route length, type of terrain likely to be encountered and its likely implication in terms of Right of Way (ROW), statutory clearances, location of substations or converter stations and land area to be acquired for the substation or converter station.
  2. To obtain approval for laying of overhead transmission lines under Section 68 of Electricity Act, from the Government at least twenty (20) days prior to Bid Deadline.
  3. To initiate acquisition of land for location specific substations, switching stations or HVDC terminal or inverter stations, if required.
  4. To initiate process of seeking forest clearance, if required
  5. The BPC shall intimate to the Bidders, the Acquisition Price payable by the Selected Bidder to the REC Power Development and Consultancy Limited for the acquisition of one hundred percent (100%) of the equity shareholding of ..... (Insert the name of SPV), along with all its related assets and liabilities at least twenty (20) days prior to the Bid Deadline.



6. The BPC shall ensure issuance of all finalized RFP Project Documents, at least fifteen (15) days prior to the Bid Deadline.
- Provided that for any delay in meeting the above obligations of the BPC within the specified time period above, the Bid Deadline as per Clause 2.7.1 shall be extended on a day for day basis.
- 1.6.2.2 The details and documents as may be obtained by the BPC/ project specific SPV in relation to the Project shall be handed over to the TSP on an as-is-where-is basis, so that it may take further actions to obtain Consents, Clearances and Permits.
- 1.7 All costs (including direct and indirect) incurred by the BPC/ project specific SPV in connection with the activities concerning the Project shall be recovered from the TSP, which shall be included in the Acquisition Price.
- 1.8 The Project is required to be completed progressively in accordance with the schedule prescribed in this RFP.
- 1.9 A company under the Companies Act, 2013 by the name ..... (Insert the name of SPV) has been incorporated to initiate the activities for execution of the Project. The said company shall be acquired by the successful Bidder as per terms and conditions as may be prescribed in RFP.
- 1.10 The Ministry of Power and the appropriate state government(s) shall provide their support to the TSP, on best endeavor basis, in enabling the TSP to develop the Project.
- 1.11 All Bidders are required to submit their Bid in accordance with the instructions set forth in this RFP.
- 1.12 Once the Successful Bidder is selected, the details and documents as may be obtained by the BPC/ project specific SPV in relation to the Project, shall be handed over to the Successful Bidder on as is where basis, so that it may take further actions to obtain all necessary Consents, Clearances and Permits and the TSP shall not be entitled for any extensions in the Scheduled COD of the Project except as provided for in the TSA.
- 1.13 The assets of the Project shall be made available on a commercial basis as per the terms and conditions of the Transmission Service Agreement and Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time.



# **SECTION - 2**

# **INFORMATION AND INSTRUCTIONS FOR**



# BIDDERS





**SECTION – 2****2. INFORMATION AND INSTRUCTIONS FOR BIDDERS****2.1 Qualification Requirements**

- 2.1.1 The Bidder should be a company duly incorporated under the relevant laws (Bidding Company) or a Consortium of companies (Bidding Consortium) with one of the companies acting as the Lead Member of the Bidding Consortium. The Bidder shall be selected on meeting the Qualification Requirements specified in Section 2 of this RFP, as demonstrated by the Bidder's Technical Bid and the lowest Quoted Transmission Charges discovered from Final Offers quoted during the e-reverse bidding. A Bidding Consortium can participate in the bidding process for the Project if any Member of the Consortium has purchased the RFP document for such Project. Bidder who agree and undertake to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide orders No. 11/5/2018 - Coord. dated 28.07.2020 for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard, shall be eligible hereunder. Further, it is clarified that Procuring Entity as defined in orders shall deemed to have included Selected Bidder and/ or TSP.

Besides, Department of Expenditure, Ministry of Finance vide Order (Public Procurement No 1) bearing File No. 6/18/2019-PPD dated 23.07.2020, Order (Public Procurement No 2) bearing File No. 6/18/2019-PPD dated 23.07.2020 and Order (Public Procurement No. 3) bearing File No. 6/18/2019-PPD, dated 24.07.2020, as amended from time to time, have issued directions regarding public procurement from a bidder of a country, which shares land border with India are also applicable.

**2.1.2 Technical requirement to be met by the Bidding Company or Lead Member of Bidding Consortium**

The Bidder must fulfill any one of the following technical requirements:

- (i) Experience of development of projects in the Infrastructure Sector in the last five (5) years with aggregate capital expenditure of not less than **Rs. 500 Crore** or equivalent USD (calculated as per provisions in Clause 3.4.1). However, the capital expenditure of each project shall not be less than **Rs. 100 Crore** or equivalent USD (calculated as per provisions in Clause 3.4.1).

For this purpose, capital expenditure incurred on projects that have been commissioned/completed at least seven (7) days prior to Bid Deadline shall be considered. The capital expenditure discussed above shall be as capitalized and reflected in the audited books of accounts of the Technically Evaluated Entity. In case a clearly identifiable part of a project has been put into commercial operation, the capital expenditure on such part of the project shall be considered. The Technically Evaluated Entity must have either executed such projects itself or must have held directly or indirectly at least twenty six percent (26%) of the shareholding in the company that has executed the project(s) from the date of financial closure of the project(s) till the time of commissioning/completion of such project(s).



OR

- (ii) Experience in construction of project in infrastructure sector: The Technically Evaluated Entity should have received aggregate payments not less than **Rs. 500** Crore or equivalent USD (calculated as per provisions in Clause 3.4.1) from its client(s) for construction works fully completed during the last 5(five) financial years. However, the payment received from each project shall not be less than **Rs. 100** Crore or equivalent USD (calculated as per provisions in Clause 3.4.1).

For this purpose, payments received on projects that have been commissioned/completed at least seven (7) days prior to Bid Deadline shall be considered. Further only the payments (gross) actually received, during such 5 (five) financial years shall qualify for purposes of computing the technical capacity. For the avoidance of doubt, construction works shall not include cost of land, supply of goods or equipment except when such goods or equipment form part of a turn-key construction contract/ EPC contract for the project. Further, in cases where different individual contracts are signed between same entities for the same project, the cumulative payments received under such individual contracts shall be considered for meeting the qualification requirement.

The Technically Evaluated Entity may be the Bidding Company or the Lead Member of a Consortium or an Affiliate or Parent of such Bidding Company or the Lead Member, as the case may be.

Bidders shall furnish documentary evidence duly certified by authorized signatory of the Bidder who has been issued Power of Attorney in support of their technical capability as defined in Clause 2.1.2 of this RFP.

### 2.1.3 Financial requirement to be met by the Bidding Company/Bidding Consortium

2.1.3.1 The Bidder must fulfill following financial requirements:

#### A. Networth:

Networth should be not less than **Rs. 250 Crore** or equivalent USD (calculated as per provisions in Clause 3.4.1) computed as the Networth based on unconsolidated audited annual accounts (refer to Note below) of any of the last three (3) financial years as provided in Clause 2.2.3, immediately preceding the Bid Deadline. Also, the Networth of any of the last three (3) financial years should not be negative.

Note: Audited consolidated annual accounts of the Bidder may be used for the purpose of financial criteria provided the Bidder has at least 26% equity in each company whose accounts are merged in the audited consolidated accounts and provided further that the financial capability of such companies (of which accounts are being merged in the consolidated accounts) shall not be considered again for the purpose of evaluation of the Technical Bid. Bidders shall furnish prescribed Annexure 7 (A) duly certified by authorized signatory of the Bidder who has been issued Power of Attorney and the Statutory Auditor and separate computation sheet for Networth duly certified by Statutory Auditor in support of their financial capability as defined in Clause 2.1.3 of this RFP.



2.1.3.2 The Networth shall be computed in the following manner by the Bidder:

**A. Networth**

=	Equity share capital
Add:	Reserves
Subtract:	Revaluation Reserves
Subtract:	Intangible Assets
Subtract:	Miscellaneous expenditures to the extent not written off and carry forward losses

2.1.3.3 If the Technical Bid is submitted by a Bidding Consortium the financial requirement shall be met individually and collectively by all the Members in the Bidding Consortium. The financial requirement to be met by each Member of the Bidding Consortium shall be computed in proportion to the equity commitment made by each of them for investment in the Project.

2.1.4 The Bidder may seek qualification on the basis of technical and financial capability of its Parent and/ or its Affiliate(s) for the purpose of meeting the Qualification Requirements. However, in the case of the Bidder being a Consortium, the Lead Member has to meet the technical requirement on its own or by seeking the technical capability of its Parent and/or its Affiliate(s). Authorization for use of such technical or financial capability shall have to be provided from its Parent and/or Affiliate(s) as per Annexure 9. The technical and financial capability of a particular company/ particular project, including its Parents and/or Affiliates, shall not be used directly or indirectly by more than one Bidder/ Member of a Bidding Consortium/ Bidding Company. However, development and construction experience of a particular project may be used by more than one company.

The determination of the relationship of Parent or Affiliate with the Bidding Company or with the Member of the Bidding Consortium, including the Lead Member, shall be on the date at the most seven (7) days prior to the last date of submission of the Bid. Documentary evidence to establish such relationship shall be furnished by the Bidder along with the Technical Bid.

If the Technically Evaluated Entity and/or Financially Evaluated Entity is an entity other than the Bidding Company or a Member in a Bidding Consortium, the Bidding Company or Member relying on such Technically Evaluated Entity and/or Financially Evaluated Entity will have to submit a legally binding undertaking supported by a board resolution from the Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, that all the equity investment obligations of the Bidding Company or the Member of the Consortium shall be deemed to be equity investment obligations of the Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, and in the event of any default the same shall be met by such evaluated entity or by or the Ultimate Parent Company. The Bidding Company or the Consortium Member shall have to provide information and documents relating to its relationship with such Technically Evaluated Entity and/or Financially Evaluated Entity including details about the equity shareholding between them as per Annexure 7(C).

2.1.5 A Bidder shall submit only one Bid in the same bidding process, either individually as



Bidding Company or as a Member of a Bidding Consortium (including the Lead Member). It is further clarified that any of the Parent/ Affiliate/Ultimate Parent of the Bidder/ Member in a Bidding Consortium shall not separately participate directly or indirectly in the same bidding process. Further, if any Bidder is having a Conflict of Interest with other Bidders participating in the same bidding process, the Bids of all such Bidders shall be rejected.

- 2.1.6 Notwithstanding anything stated above, BPC reserves the right to verify the authenticity of the documents submitted for meeting the Qualification Requirements and request for any additional information and documents. BPC reserves the right at its sole discretion to contact the Bidder's bank and project references and verify the Bidder's information and documents for the purpose of bid evaluation.
- 2.1.7 The Qualified Bidder(s) will be required to continue to maintain compliance with the Qualification Requirements throughout the bidding process and till execution of the Transmission Service Agreement. Where the Technically Evaluated Entity and/or the Financially Evaluated Entity is not the Bidding Company or a Member in a Bidding Consortium, as the case may be, the Bidding Company or Member shall continue to be an Affiliate of the Technically Evaluated Entity and/or Financially Evaluated Entity till the execution of the Transmission Service Agreement. Failure to comply with the aforesaid provisions shall make the Bid liable for rejection at any stage.
- 2.1.8 The Selected Bidder will be required to continue to maintain compliance with the Qualification Requirements till the COD of the Project. Where the Technically Evaluated Entity and/or the Financially Evaluated Entity is not the Bidding Company or a Member in a Bidding Consortium, as the case may be, the Bidding Company or Member shall continue to be an Affiliate of the Technically Evaluated Entity and/or Financially Evaluated Entity till the COD of the Project. Failure to comply with the aforesaid provisions shall be dealt as per provisions of Transmission Service Agreement.
- 2.1.9 On the Bid Deadline, for the Bidder to be eligible to participate in the bidding process:
- a. the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate, their directors or key personnel should not have been barred or included in the blacklist by any government agency or authority in India, the government of the jurisdiction of the Bidder or Members where they are incorporated or the jurisdiction of their principal place of business, any international financial institution such as the World Bank Group, Asian Development Bank, African Development Bank, Inter-American Development Bank, Asian Infrastructure Investment Bank etc or the United Nations or any of its agencies; or
  - b. the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate or their directors should not have been convicted of any offence in India or abroad.

In case any investigation is pending against the Bidder, including any Consortium Member or Affiliate, or CEO or any of the directors/ manager/key managerial personnel of the Bidder /Consortium /Member or their Affiliates, full details of such investigation including the name of the investigating agency, the charge/offence for which the investigation has been launched, name and designation of persons against whom the





investigation has been launched and other relevant information should be disclosed while submitting the Bid.

The Bidders shall confirm the above through a notarized affidavit as per Annexure 22.

## 2.2 Submission of Bid by the Bidder

- 2.2.1 The information and documents in Technical Bid will be submitted by the Bidder as per the formats specified in Section – 4 (Formats for RFP) of this document
- 2.2.2 Strict adherence to the formats wherever specified, is required. Wherever, information has been sought in specified formats, the Bidder shall refrain from referring to brochures/pamphlets. Non-adherence to formats and/ or submission of incomplete information may be a ground for declaring the Technical Bid as non-responsive. Each format has to be duly signed and stamped by the authorized signatory of Bidder.
- 2.2.3 The Technical Bid shall contain unconsolidated/consolidated audited annual accounts (consisting of unabridged Balance Sheet, Profit and Loss Account, profit appropriation account, Auditors Report, etc.), as the case may be, of Bidding Company or each Member in Consortium including Lead Member or the Financially Evaluated Entity for the last three (3) financial years immediately preceding the last date for submission of Bid for the purpose of calculation of Networth.

In case the annual accounts for the financial year immediately preceding the Bid Deadline is not audited, the Bidder shall give declaration in this regard duly certified by its statutory auditor. In such a case, the Bidder shall provide the audited annual accounts for the three (3) financial years preceding the financial year as above for which the annual accounts have not been audited.

### 2.2.4 Bid submitted by a Bidding Consortium:

- 2.2.4.1 The Technical Bid shall contain a legally enforceable Consortium Agreement entered amongst the Members in the Bidding Consortium, designating one of the Members to be the Lead Member (as per Annexure 6). There shall be only one Lead Member which shall continue to hold twenty six percent (26%) equity in the TSP and cannot be changed upto one (1) year from the Commercial Operation Date (COD) of the Project. Each Member in Bidding Consortium shall duly sign the Consortium Agreement making it liable for raising the required funds for its respective equity investment commitment as specified in the Consortium Agreement. In absence of Consortium Agreement, the Technical Bid will not be considered for evaluation and will be rejected.

Provided that the Lead Member of the Bidding Consortium will be required to be liable to the extent of 100% of the total proposed commitment of equity investment of the Bidding Consortium i.e. for both its own equity contribution as well as the equity contribution of other Members.

Provided further that the Consortium Agreement shall not be amended without the explicit approval of the BPC.

The Lead Member of the Consortium will be the single point of contact for the purposes of the bid process before the date of signing of Share Purchase Agreement. Settlement of any



dispute amongst the Consortium Members shall not be the responsibility of the BPC and/or the CTU and the BPC and/or the CTU shall not bear any liability whatsoever on this account.

- 2.2.4.2 The Lead Member should designate at the most two persons to represent the Consortium in its dealings with the BPC. The person(s) designated by the Lead Member should be authorized through a Power of Attorney (as per Annexure 3) to perform all tasks including, but not limited to providing information, responding to enquiries, signing of Technical Bid on behalf of the Consortium, etc. The Bidding Consortium shall provide board resolutions from their respective Boards for committing their respective portion of equity requirement for the Project. Additionally, the Lead member shall provide a Board resolution committing to make good any shortfall in the equity for the project, in case of any member not meeting its equity commitment.
- 2.2.4.3 The Technical Bid should also contain signed Letter of Consent (as per Annexure 2) from each Member in Consortium confirming that the entire Technical and Financial Bids has been reviewed and each element of the Technical and Financial Bids is agreed to by them including investment commitment for the Project.

In addition, the Technical Bid should also contain Board Resolution from each Member of the Consortium other than the Lead Member in favour of their respective authorized representatives for executing the POA, Consortium Agreement and signing of the requisite formats.

#### 2.2.5 Bid submitted by a Bidding Company

- 2.2.5.1 The Bidding Company should designate at the most two persons to represent the Bidding Company in its dealings with BPC. The person(s) should be authorized to perform all tasks including, but not limited to providing information, responding to enquiries, signing of Technical and Financial Bids etc. The Bidding Company should submit, along with Technical Bid, a Power of Attorney (as per Annexure 3), authorizing the signatory of the Technical and Financial Bids. The Bidding Company shall submit the board resolution committing 100% of equity requirement for the Project, in the Technical Bid.

### 2.3 Clarifications & Pre-Bid Meeting

- 2.3.1 The Bidders may seek clarifications or suggest amendments to the RFP by sending an email to the BPC at the email id indicated in Clause 2.14 within the date and time mentioned in Clause 2.7.2. For any such clarifications or amendments, the Bidders should adhere to the format as per Annexure – 19.
- 2.3.2 Only those Bidders or their authorized representatives, who have purchased the RFP documents are invited to attend the pre-bid meeting(s), which will take place on date as specified in Clause 2.7.2, or any such other date as notified by the BPC. The time and address of this would be intimated later.
- 2.3.3 The purpose of the pre-bid meeting will be to clarify any issues regarding the RFP, including in particular, issues raised in writing by the Bidders as per the provisions of Clause 2.3.1.
- 2.3.4 Non-attendance at the pre-bid meeting will not be a cause for disqualification of a Bidder.





- 2.3.5 The BPC is not under any obligation to entertain / respond to suggestions made or to incorporate modifications sought for.
- 2.3.6 In case Bidders need any further clarifications not involving any amendments in respect of final RFP, they should ensure that request for such clarification is submitted through e-mail to the BPC at least ten (10) days prior to the Bid Deadline as mentioned in Clause 2.7.1. The BPC may issue clarifications only, as per its sole discretion, which is considered reasonable by it. Any such clarification issued shall be sent to all the Bidders to whom the RFP has been issued. Clarifications sought after this date shall not be considered in any manner and shall be deemed not to have been received. There shall be no extension in Bid Deadline on account of clarifications sought as per this clause 2.3.6.

#### 2.4 Amendment of RFP

- 2.4.1. At any time before the timeline mentioned in Clause 2.7.1, the BPC may, for any reason, whether at its own initiative or in response to clarifications requested by any Bidder modify or amend the RFP, including the timelines specified in Clause 2.7.2 by issuance of addendum/modification/errata and/or revised document. Such document shall be notified in writing through a letter or fax or e-mail to all the entities to which the RFP has been issued and shall be binding on them. In order to ensure that Bidders have reasonable time to take the modification into account in preparing their Bid, or for any other reasons, BPC may at its discretion, extend the due date for submission of Bid. Late receipt of any addendum/modification/errata and/or revised document will not relieve the Bidder from being bound by that modification.
- 2.4.2. All modifications shall become part of the terms and conditions of this RFP. No interpretation, revision or communication regarding this RFP is valid, unless made in writing.
- 2.4.3. The amendment to the RFP shall be notified to all the Bidders through the electronic bidding platform and shall be binding on them.

#### 2.5 The Bidding Process

The entire bidding process shall be conducted on electronic bidding platform created by MSTC Limited. The Bid shall comprise of the Technical Bid and the Financial Bid. The Bidders shall submit the Technical Bid & Financial Bid through the electronic bidding platform. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. There shall be no physical submission of the Financial Bid.

Evaluation of Technical Bid will be carried out considering the information and documents furnished by the Bidders as required under this RFP. This step would involve responsiveness check, technical and financial evaluation of the details/ documents furnished by the Bidding Company / Bidding Consortium in support of meeting the Qualification Requirements. Bidders meeting the Qualification Requirements, subject to evaluation as specified in Clause 3.2 to 3.4 shall be declared as "Qualified Bidders" and eligible for opening of Initial Offer. The BPC shall also upload the list of all Qualified Bidders and Non-Qualified Bidders on the bidding portal along with the reasons for non-



qualification. Also, the Financial Bids of Qualified Bidders shall be opened after at least 24 hours from the date of declaration of the Technically Qualified Bidders.

The Financial Bid will comprise of two rounds. In the first round the Initial Offer (submitted online along with the Technical Bids) of the responsive bids would be opened and Quoted Transmission Charges of Initial Offer shall be ranked on the basis of ascending order for determination of the Qualified Bidders as provided in Section-III of RFP. The Qualified Bidders, in the first fifty per cent of the ranking (with any fraction rounded off to higher integer) or four Qualified Bidders, whichever is higher, shall qualify for participating in the electronic reverse auction stage and submit their Final Offer.

Provided however, in case only one Bidder remains after the evaluation of Technical Bid as per Clause 3.2, 3.3 and Clause 3.4, the Initial Offer of such Bidder shall not be opened and the matter shall be referred to the Government.

Provided that in the event the number of qualified Technical Bids is between two and four, then each of the qualified Bidder shall be considered as "Qualified Bidders".

Provided that in the event of identical Quoted Transmission Charges discovered from the Initial Offer having been submitted by one or more Bidders, all such Bidders shall be assigned the same rank for the purposes of determination of Qualified Bidders. In such cases, all the Qualified Bidders who share the same rank till 50% of the rank (with any fraction rounded off to higher integer) determined above, shall qualify to participate in the electronic e-reverse auction stage. In case 50% of the ranks (with any fraction rounded off to higher integer) is having less than 4 (four) Bidders and the rank of the fourth (4<sup>th</sup>) Bidder is shared by more than one (1) Bidder, then all such Bidders who share the rank of the fourth (4<sup>th</sup>) Bidder shall qualify to participate in the electronic reverse auction.

The applicable ceiling for electronic reverse bidding shall be the lowest Quoted Transmission Charges discovered from the Initial Offer received from the Qualified Bidders. The Qualified Bidders shall be permitted to place their Final Offer on the electronic bidding platform, which is lower than zero point two five (0.25) % of the prevailing lowest Quoted Transmission Charges.

The initial period for conducting the e-reverse bidding should be 2 hours which will be extended by 30 minutes from the last received bid time, if the bid is received during the last 30 minutes of the scheduled or extended bid time. Subsequently, it will be extended again by 30 minutes from the latest received bid time.

The technical details with respect to access to such electronic platform are provided in Annexure-A (Technical Details with respect to electronic reverse auction).

In case of any technical clarification regarding access to the electronic reverse auction platform or conduct of the auction process, the Bidders may contact MSTC Limited directly at the address provided in Annexure-A.

### 2.5.1 Bid Formats

The Bids in response to this RFP will be submitted online through the electronic bidding platform by the Bidders in the manner provided in Clause 2.9. The Bids shall comprise of the following:



**2.5.2 Technical Bid comprising of:**

1. Covering Letter (as per prescribed format enclosed as **Annexure 1**);
2. Letter of Consent from Consortium Members in **Annexure 2**;
3. Power of attorney issued by the Bidding Company or the Lead Member of the Consortium, as the case may be, in favour of the person signing the Bid, in the format attached hereto as **Annexure 3**.

Additionally, in case of a Bidding Consortium, the power of attorney in favour of the Lead Member issued by the other Members of the Consortium shall be provided in as per format attached hereto as **Annexure 4**. Further, the Lead Member shall furnish Board resolution(s) from each Member of the Consortium other than the Lead Member in favour of their respective authorized representatives for executing the POA and signing of the requisite formats.

Provided that in the event the Bidding Company or the Lead Member of the Consortium or any Member of the Bidding Consortium, as the case may be, is a foreign entity, it may issue Board resolutions in place of power of attorney for the purpose of fulfilling these requirements.

4. Bidder's composition and ownership structure in **Annexure 5**
5. Format for Authorization submitted in Non-Judicial stamp paper duly notarized as per **Annexure 5** from the Bidding Company / each Member of the Consortium authorizing the BPC to seek reference from their respective bankers & others.
6. In case of Bidding Consortium, the Consortium Agreement shall be provided in as per format attached hereto as **Annexure 6**
7. Format of Qualification Requirement (**Annexures 7A, 7B, 7C and 7D**)
8. Bidders Undertakings and details of equity investment in Project (as per prescribed formats 1 and 2 of **Annexure 8**);
9. Authorization from Parent / Affiliate of Bidding Company / Member of Bidding Consortium whose technical / financial capability has been used by the Bidding Company / Member of Bidding Consortium (**Annexure 9**).
10. Undertaking from the Technically / Financially Evaluated Entity(ies) **OR** Undertaking from the Ultimate Parent Company, for total equity investment commitment, in the prescribed format in **Annexure – 10**, to meet any shortfall in the equity investment by the Selected Bidder in the ..... (Insert the name of SPV).

**Note:** The effective Equity holding of the Selected Bidder in the ..... (Insert the name of SPV), as specified in Clause 2.5.8.1 shall be computed as per the provisions of Clause 2.5.8.3 of this RFP.



Provided further, in case the Bidding Company or Member of a Consortium, (as the case may be) holds at least twenty six percent (26%) equity in such Technically/ Financially Evaluated Entities, whose credentials have been considered for the purpose of meeting the Qualification Requirements as per the RFP, no such Undertaking shall be required from the Technically / Financially Evaluated Entities.

11. Board resolutions, as per prescribed formats enclosed as Annexure – 11, duly certified by the Company Secretary or any Whole-time Director / Manager (supported by a specific Board Resolution), as applicable to the Bidder and mentioned hereunder,
  - (a) Board resolution from the Bidding Company (and any investing Affiliate / Parent Company / Ultimate Parent Company) committing one hundred percent (100%) in aggregate of the equity requirement for the Project - Format-1 of **Annexure 11**;
  - (b) Board resolutions from each of the Consortium Member of the Bidding Consortium (and any investing Affiliate / Parent Company / Ultimate Parent Company) together committing to one hundred percent (100%) in aggregate of equity requirement for the Project, in case Bidder is a Bidding Consortium - Format-1 of **Annexure 11**;
  - (c) In either of the cases as in (a) or (b) above as applicable, Board resolutions as per Format 2 of **Annexure 11** for total equity investment commitment from the Technically / Financially Evaluated Entity(ies) whose technical / financial credentials had been considered for the purpose of meeting Qualification Requirements as per the RFP

**OR**

Board resolutions as per Format 2 of **Annexure 11** from the Parent Company or the Ultimate Parent Company for total equity investment commitment.

Provided that such Board resolutions, as specified in (a) or (b) or (c) above, in case of a foreign entity, shall be supported by an unqualified opinion issued by an independent legal counsel practicing in the relevant country, stating that the Board resolutions are in compliance with the applicable laws of the respective jurisdictions of the issuing company and the authorizations granted therein are true and valid.

For clarity sake, illustrations identifying which Board Resolution shall be applicable in typical cases are provided in **Annexure 11A**.

12. Format for Illustration of Affiliates at the most seven (7) days prior to Bid Deadline, duly certified by Company Secretary and supported by documentary evidence (**Annexure 12**).

Certified copy of the Register of Members / Demat Account Statement, Share Certificate, Annual Return filed with ROC etc. submitted as documentary evidence along with **Annexure 12**.

13. Disclosure as per **Annexure 13** regarding participation of any related companies in this bidding process.



14. Bid Bond, as per the prescribed format at **Annexure 14** ~~or Bid Security Declaration as per prescribed format at Annexure 14A (as applicable)~~;
15. Checklist for Technical Bid submission requirements as per **Annexure 16**.
16. Last three (3) financial years' unconsolidated / consolidated audited annual accounts / statements, as the case may be, of the Financially Evaluated Entity / Technical Evaluated Entity
17. Unconsolidated audited annual accounts of both the TEE and the Bidding Company/Lead member, as applicable, for the financial years in which financial closure was achieved and the financial year in which the said project was completed / commissioned.
18. Copy of the Memorandum and Articles of Association and certificate of incorporation or other organizational document (as applicable), including their amendments, certified by the Company Secretary of Bidding Company or each Member in case of a Consortium including Lead Member.
19. For each project listed in Annexure 7(D), certified true copy of the certificates of final acceptance and / or certificates of good operating performance duly issued by owners or clients for the project, duly signed by authorized signatory.

In addition to the online submission of above formats through the electronic platform, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. In case, there is a discrepancy between the online submission and physical documents, the bid would be out rightly rejected and the bidder shall be construed to have engaged in the fraudulent practice as defined in Clause 2.19.3 with consequences as mentioned in Clause 2.19.2.

### 2.5.3 Financial Bid (as per prescribed format at Annexure-21)

Financial Bid shall comprise of: (i) the Initial Offer; and (ii) the Final Offer. The Initial Offer is required to be submitted along with the Technical Bid. It is hereby clarified that the Financial Bid will comprise of two rounds. In the first round the Initial Offer of the responsive bids would be opened and Quoted Transmission Charges of Initial Offer shall be ranked on the basis of ascending order for determination of the Qualified Bidders as provided in Section-III of RFP.

In accordance with clause 2.5 of this RFP, the qualified Bidders shall be eligible to participate in the electronic reverse auction and submit their Final Offer.

The applicable ceiling for electronic reverse bidding shall be the lowest Quoted Transmission Charges discovered from the Initial Offer received from the Qualified Bidders. The Qualified Bidders shall be permitted to place their Final Offer on the electronic bidding platform, which is lower than zero point two five (0.25) % of the prevailing lowest Quoted Transmission Charges.





The initial period for conducting the e-reverse bidding should be 2 hours which will be extended by 30 minutes from the last received bid time, if the bid is received during the last 30 minutes of the scheduled or extended bid time. Subsequently, it will be extended again by 30 minutes from the latest received bid time.

The Bidders shall inter-alia take into account the following while preparing and submitting the Initial Offer and Final Offer of Financial Bid:-

- a. The Bidders shall quote single annual Quoted Transmission Charges for a period of 35 years commencing from the Scheduled COD of the Project.
- b. The Quoted Transmission Charges as per the format at Annexure-21 shall be inclusive of all charges and no exclusions shall be allowed. The Bidders shall take into account all costs including capital and operating, statutory taxes, duties, levies. Availability of the inputs necessary for operation and maintenance of the Project should be ensured by the TSP at the Project site and all costs involved in procuring the inputs (including statutory taxes, duties, levies thereof) at the Project site must be included in the Quoted Transmission Charges.
- c. Annexure 21 duly digitally signed by authorized signatory.

2.5.4 Wherever information has been sought in specified formats, the Bidders shall fill in the details as per the prescribed formats and shall refrain from referring to any other document for providing any information required in the prescribed format.

### 2.5.5 Transmission Charges

- 2.5.5.1. The Transmission Charges shall be specified in the Transmission Service Agreement and shall be payable to the TSP in Indian Rupees only. The Bidders shall quote single Transmission Charges as per the format at Annexure – 21.
- 2.5.5.2. The Transmission Charges of the Selected Bidder shall be inserted in Schedule 5 of the Transmission Service Agreement.

### 2.5.6 Bidders may note that:

- a) All the information and documents in Bid shall be submitted in English language only.
- b) Bidders shall mention the name, designation, telephone number, fax number, email address of the authorized signatory and complete address of the Bidder in the covering letter.
- c) All pages of the Bid submitted shall be initialed and stamped by the authorized signatory on behalf of the Bidder.
- d) A Bidder shall submit only one Bid in the same bidding process, either individually as Bidding Company or as a Member of a Bidding Consortium.
- e) The technical and financial capability of a particular company / particular project (Parent and/ or Affiliate) shall not be used directly or indirectly by more than one Bidder/ Member of a Bidding Consortium including Lead Member / Bidding





Company.

- f) This Request for Proposal (RFP) document is not transferable. The RFP document and the information contained therein is for the use only by the Bidder to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient's professional advisors). In the event that the recipient does not continue with its involvement in the Project, this RFP document must be kept confidential.
- g) Though adequate care has been taken while preparing this RFP document, the Bidder shall satisfy himself that the document is complete in all respects. Intimation of any discrepancy shall be given to the BPC immediately. If no intimation is received from any Bidder within ten (10) days from the date of issue of RFP document, it shall be considered that the RFP document is complete in all respects and has been received by the Bidder.
- h) Bids submitted by the Bidder and opened on scheduled date and time as stipulated in this RFP shall become the property of the BPC and BPC shall have no obligation to return the same to the Bidder.
- i) If any Bidder conceals any material information or makes a wrong statement or misrepresents facts or makes a misleading statement in its Bid, in any manner whatsoever, the BPC reserves the right to reject such Bid or cancel the Letter of Intent, if issued. If such event is discovered after the Effective Date, consequences specified in Transmission Service Agreement shall apply.
- j) If for any reason the Bid of the Bidder with the lowest Quoted Transmission Charges is not selected or Letter of Intent issued to such Selected Bidder is cancelled or such Bidder withdraws its Bids, the BPC may:-
- i. Invite all the remaining Bidders to revalidate or extend their respective Bid Security, as necessary, and match the Bid of the Bidder with the lowest Quoted Transmission Charges (the "second round of bidding") with following cases:
    - If in the second round of bidding, only one Bidder matches the Bid of the Bidder with lowest Quoted Transmission Charges, it shall be the Selected Bidder.
    - If two or more Bidders match the Bid of the Bidder with the lowest Quoted Transmission Charges in the second round of bidding, then the Bidder whose Quoted Transmission Charges was lower as compared to other Bidder(s) in the first round of bidding shall be the Selected Bidder. For example, if the third and fifth lowest Bidders in the first round of bidding offer to match the Bid of the Bidder with lowest Quoted Transmission Charges in the second round of bidding, the said third lowest Bidder shall be the Successful Bidder.
    - In the event that no Bidder offers to match the Bid of the Bidder with the lowest Quoted Transmission Charges in the second round of bidding, the BPC may, in its discretion, invite fresh Bids (the "third round of bidding") from all Bidders except the Bidder which quoted the lowest Quoted Transmission Charges in the first round of bidding. In case the Bidders are invited for the third round of bidding to revalidate or extend their Bid Security, as necessary, and offer fresh



Bids, they shall be eligible for submission of fresh Bids provided, however, that in such third round of bidding only such Bids shall be eligible for consideration which are lower than the Quoted Transmission Charges of the second lowest Bidder in the first round of bidding; or;

- ii. Annul the bid process; or
- iii. Take any such measure as may be deemed fit in the sole discretion of the BPC<sup>1</sup>
- k) The BPC may, at its sole discretion, ask for additional information / document and/or seek clarifications from a Bidder after the Bid Deadline, inter alia, for the purposes of removal of inconsistencies or infirmities in its Bid. However, no change in the substance of the Quoted Transmission Charges shall be sought or permitted by the BPC.
- l) Non submission and/or submission of incomplete data/ information required under the provisions of RFP shall not be construed as waiver on the part of BPC of the obligation of the Bidder to furnish the said data / information unless the waiver is in writing.
- m) Bidders shall familiarize itself with the procedures and time frames required to obtain all Consents, Clearances and Permits.
- n) All Bidders are required to ensure compliance with the standards and codes mentioned in Clause 1.6.1.2.
- o) BPC reserves the right to reject all Bids and/or annul the process of tariff based competitive bidding for selection of Bidder as TSP to execute the Project without assigning any reason. BPC shall not bear any liability, whatsoever, in this regard.
- p) Foreign companies submitting the Bid are required to follow the applicable law in their country for execution of POA, Consortium Agreement and affixation of Common Seal (wherever required) and in such cases, their Bid should be supported by an unqualified opinion issued by an independent legal counsel practicing in the relevant country, stating that execution of such POA, Consortium Agreement and the authorizations granted therein are true and valid. Foreign companies executing POA outside India shall necessarily pay the adequate stamp charges in India as per the provisions of Stamp Act.

### 2.5.7 Bidders to inform themselves fully

- 2.5.7.1. The Bidders shall make independent enquiry and satisfy themselves with respect to all the required information, inputs, conditions and circumstances and factors that may have any effect on his Bid. Once the Bidders have submitted their Bids, the Bidders shall be deemed to have inspected and examined the site conditions (including but not limited to its surroundings, its geological condition and the adequacy of transport facilities to the site), the laws and regulations in force in India, the transportation facilities available in India, the grid conditions, the adequacy and conditions of roads, bridges, railway sidings, ports, etc. for unloading and/or transporting heavy pieces of material and has based its design, equipment size and fixed its price taking into account all such relevant conditions and also the risks, contingencies and other circumstances which may influence or affect

<sup>1</sup> BPC shall record reasons for the same.



the transmission of power. Accordingly, each Bidder acknowledges that, on being selected as Successful Bidder and on acquisition of one hundred percent (100%) of the equity shares of the ..... (Insert the name of SPV), the TSP shall not be relieved from any of its obligations under the RFP Project Documents nor shall the TSP be entitled to any extension in Scheduled COD mentioned in this RFP or financial compensation for any reason whatsoever.

- 2.5.7.2. In their own interest, the Bidders are requested to familiarize themselves with all relevant laws of India, including without limitation, the Electricity Act 2003, the Income Tax Act 1961, the Companies Act, 1956 / Companies Act, 2013 (as the case may be), Environment Protection Act 1986 and Forest (Conservation) Act, 1980, the Customs Act, the Foreign Exchange Management Act, Land Acquisition Act, 1894, the Indian Telegraph Act 1885, Labor & Employment Laws of India, [Insurance Act] the regulations/standards framed by the Commissions and CEA, all other related acts, laws, rules and regulations prevalent in India, as amended from time to time.

In addition to the above, the Bidders are required to familiarize themselves with all relevant technical codes and standards, including but not limited to the Grid Code / State Grid Code, Central Electricity Authority (Installation and Operations of Meters) Regulations, 2006, Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007, Central Electricity Regulatory Commission Grant of Connectivity, Long-term Access and Medium - Term Open Access in Inter-State Transmission and related matters) Regulations, 2009, Central Electricity Authority (Technical Standards for construction of Electrical Plants and Electric Lines) Regulation, 2010, Central Electricity Authority (Technical Standards for Communication System in Power System Operation) Regulations, 2020, Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 and other relevant Rules/ Regulations/ Guidelines issued by the Central Government, the CERC and the CEA and amendments thereof.

The BPC shall not entertain any request for clarifications from the Bidders regarding the above laws/ acts / rules / regulations / standards. Non-awareness of the same shall not be a reason for the Bidder to request for extension in Bid Deadline. The Bidders undertake and agree that, before submission of their Bid, all such factors as generally brought out above, have been fully investigated and considered while submitting their Bids.

- 2.5.7.3. The Survey Report has been prepared in good faith, and on best endeavor basis. Neither BPC & Nodal Agency nor their employees or advisors/consultants make any representation or warranty, express or implied, or accept any responsibility or liability, whatsoever, in respect of any statements or omissions made in the Survey Report, or the accuracy, completeness or reliability of information contained therein, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of such Survey Report, even if any loss or damage is caused to the Bidders by any act or omission on their part.
- 2.5.7.4. Bidders shall make best efforts and carry out its own due diligence upon survey report provided by BPC and shall consider all possible techno-commercial factors before submission of Bid. Bidders may also visit the route of the Transmission Lines associated with the Project and the surrounding areas and obtain / verify all information which they deem fit and necessary for the preparation of their Bid. Bidders may also carry out required surveys and field investigation for submission of their Bid. Bidders may also opt for any other route and is not bound to follow the route suggested in survey report provided by



BPC.

- 2.5.7.5. Failure to investigate, examine and to inspect site or subsurface conditions fully shall not be grounds for a Bidder to alter its Bid after the Bid Deadline nor shall it relieve a Bidder from any responsibility for appropriately eliminating the difficulty or costs of successfully completing the Project.
- 2.5.7.6. The Selected Bidder shall obtain all necessary Consents, Clearances and Permits as required. The Bidders shall familiarize itself with the procedures and time frame required to obtain such Consents, Clearances and Permits.
- 2.5.7.7. The technical requirements of integrated grid operation are specified in the Indian Electricity Grid Code (IEGC). The Bidders should particularly acquaint themselves with the requirements of connection conditions, operating code for regional grids, scheduling and dispatch instructions/codes, etc. The Bidders are also advised to fully familiarize themselves with the real time grid conditions in the country. Information regarding grid parameters such as voltage and frequency is available on the websites of Regional / State Load Despatch Centers.

#### 2.5.8 Minimum Equity holding/Equity Lock-in

- 2.5.8.1. (a) The aggregate equity share holding of the Selected Bidder, in the issued and paid up equity share capital of ..... (Insert the name of SPV) shall not be less than Fifty one percent (51%) up to a period of (1) one year after COD of the Project;

(b) In case the Selected Bidder is a Bidding Consortium, then any Member (other than the Lead Member) of such Bidding Consortium shall be allowed to divest its equity as long as the other remaining Members (which shall always include the Lead Member) hold the minimum equity specified in (a) above.

(c) If equity is held by the Affiliates, Parent Company or Ultimate Parent Company, then subject to the second proviso of this Clause 2.5.8.1 (c), such Affiliate, Parent Company or Ultimate Parent Company shall be permitted to transfer its shareholding in ..... (Insert the name of SPV) to another Affiliate or to the Parent Company / Ultimate Parent Company. If any such shareholding entity, qualifying as an Affiliate / Parent Company / Ultimate Parent Company, is likely to cease to meet the criteria to qualify as an Affiliate / Parent Company / Ultimate Parent Company, the shares held by such entity shall be transferred to another Affiliate / Parent Company / Ultimate Parent Company.

Provided that in case the Lead Member or Bidding Company is holding equity through Affiliate/s, Ultimate Parent Company or Parent Company, such restriction shall apply to such entities.

Provided further, that the aggregate equity share holding of the Bidding Consortium or a Bidding Company in the issued and paid up equity share capital of ..... (Insert the name of SPV) shall not be less than fifty one percent (51%) up to a period of one (1) year after COD of the Project and the lead Member of the Consortium shall have the equity share holding not less than twenty six percent (26%). In case the Selected Bidder is a Bidding Consortium, then any Member (other than the Lead Member) of such Bidding Consortium shall be allowed to divest its equity as long as the other remaining



Members (which shall always include the Lead Member) hold the minimum equity specified in (a) above.

(d) All transfer(s) of shareholding of ..... (Insert the name of SPV) by any of the entities referred to above, shall be after prior written intimation to the Nodal Agency.

2.5.8.2. The Selected Bidder may invest in the equity share capital of ..... (Insert the name of SPV) through its Affiliate(s) or Ultimate Parent Company or Parent Company. Details of such investment will have to be specified in the Technical Bid as per Format 2 of Annexure 8 of the RFP. If the Selected Bidder so invests through any Affiliate(s) or Ultimate Parent Company or Parent Company, the Selected Bidder shall be liable to ensure that minimum equity holding/lock-in limits specified in Clause 2.5.8.1 and as computed as per the provisions of Clause 2.5.8.3 are still maintained.

2.5.8.3. For computation of effective Equity holding, the Equity holding of the Selected Bidder or its Ultimate Parent Company in such Affiliate(s) or Parent Company and the equity holding of such Affiliate (s) or Ultimate Parent Company in ..... (Insert the name of SPV) shall be computed in accordance with the example given below:

If the Parent Company or the Ultimate Parent Company of the Selected Bidder A directly holds thirty percent (30%) of the equity in ..... (Insert the name of SPV) then holding of Selected Bidder A in ..... (Insert the name of SPV) shall be thirty percent (30%);

If Selected Bidder A holds thirty percent (30%) equity of the Affiliate and the Affiliate holds fifty percent (50%) equity in ..... (Insert the name of SPV), then for the purposes of ascertaining the minimum equity/equity lock-in requirements specified above, the effective holding of Bidder A in ..... (Insert the name of SPV) shall be fifteen percent (15%), (i.e.,  $30\% * 50\%$ );

2.5.8.4. The provisions as contained in this Clause 2.5.8 and Article 19.1 of the Transmission Service Agreement shall override the terms of the Consortium Agreement submitted by the Bidder as part of the RFP.

## 2.6 Project Schedule

2.6.1. All Elements of the Project are required to be commissioned progressively as per the schedule given in the following table;





## RFP for Selection of Bidder as Transmission Service Provider

Sl.	Name of the Transmission	Scheduled	Percentage of	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1.	LILO of 400 kV Kishenpur-Dulhasti line (Twin) at Kishtwar S/s along with associated bays at Kishtwar S/s	24 months from SPV transfer	100%	All elements of scheme are required to be commissioned simultaneously as their utilization is dependent on each other.
2.	400 kV Kishenpur-Samba D/C line (Quad) (only one circuit is to be terminated at Kishenpur utilizing 1 No. of 400 kV vacated line bay at Kishenpur S/s (formed with bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur) while second circuit would be connected to bypassed circuit of 400 kV Kishtwar – Kishenpur line (Quad))			
3.	Bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad), thus forming 400 kV Kishtwar - Samba (Quad) direct line (one ckt)			
4.	1x80 MVAr Switchable line reactor at Samba end of 400 kV Kishtwar-Samba 400 kV line-165 km (Quad) [formed after bypassing of 400 kV Kishtwar – Kishenpur line (Quad) at Kishenpur and connecting it			





## RFP for Selection of Bidder as Transmission Service Provider

Sl.	Name of the Transmission	Scheduled	Percentage of	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
	with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad)			
5.	1x63 MVAr Switchable line reactor on each ckt at Jalandhar end of Kishenpur- Jalandhar D/C direct line -171km(Twin) (formed after bypassing both ckts of 400 kV Kishenpur – Samba D/C line (Twin) and 400 kV Samba – Jalandhar D/C line (Twin) at Samba and connecting them together to form Kishenpur- Jalandhar D/C direct line (Twin))			
6.	400 kV Samba- Jalandhar D/C line(Quad) (only one circuit is to be terminated at Jalandhar utilizing 1 No. of 400 kV vacated line bay at Jalandhar S/s (formed with bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar) while second circuit would be connected to bypassed circuit of Jalandhar –Nakodar 400 kV line (Quad))			
7.	1x80 MVAr Switchable line reactor at Samba end of Samba – Nakodar direct line (Quad) (187km) formed after bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the			



## RFP for Selection of Bidder as Transmission Service Provider

Sl.	Name of the Transmission	Scheduled	Percentage of	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
	circuit of Samba-Jalandhar 400 kV D/C line(Quad Moose), thus forming Samba –Nakodar line (Quad)			
8.	Bypassing 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line(Quad Moose), thus forming 400 kV Samba –Nakodar (Quad) direct line			

## 2.7 Due dates

2.7.1. The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e. on or before 1500 hours (IST) on 29.11.2024. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI.

2.7.2. Important timelines are mentioned below:

Date	Event
26.09.2024	Issuance of RFP
16.10.2024	Submission of written clarifications/amendments, if any, on the RFP / RFP Project Documents by Bidders so as to reach BPC by 1700 hours. Such written clarifications/amendments shall be in the format provided in Annexure-20.
18.10.2024	Pre-Bid meeting(s)
04.11.2024	Issue of written clarifications and revised RFP documents
14.11.2024	Issue of final RFP Project Documents
29.11.2024	Submission of Bid (Online submission of Bid through electronic bidding portal)
29.11.2024	Opening of Technical Bid
09.12.2024	Short listing and announcement of Qualified Bidders on bidding portal
10.12.2024	Opening of Financial Bid - Initial Offer



## RFP for Selection of Bidder as Transmission Service Provider

Date	Event
11.12.2024	Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.
16.12.2024	Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer
19.12.2024	Selection of Successful Bidder and issue of LOI
30.12.2024	Signing of RFP Project Documents and transfer of ..... (Insert the name of SPV)

2.7.3. To enable BPC to meet the schedule, all Bidders are expected to respond expeditiously during the bidding process. If any milestone/activity falls on a day which is not a working day or which is a public holiday then the milestone/activity shall be achieved/ completed on the next working day.

## 2.8 Validity of the Bid

2.8.1. The Bid shall remain valid for a period of one hundred and eighty (180) days from the Bid Deadline. The BPC reserves the right to reject any Bid which does not meet aforementioned validity requirement.

2.8.2. The BPC may solicit the Bidders' consent for an extension of the period of validity of the Bid. The request and the response, thereafter, shall be in writing. In the event any Bidder refuses to extend its Bid validity as requested by the BPC, the BPC shall not be entitled to invoke the Bid Bond. A Bidder accepting the BPC's request for validity extension shall not be permitted to modify its Bid and such Bidder shall, accordingly, extend the validity of the Bid Bond as requested by the BPC within seven (7) days of such request, failing which the Bid shall not be considered as valid.

## 2.9 Method of Submission

2.9.1. Both the Technical and Financial Bids duly filled in, all formats and supporting shall be scanned and uploaded online through electronic bidding platform in the manner specified in Annexure A.

2.9.2. It may be noted that Technical Bid shall not contain any information/document relating to Financial Bid. If Technical Bid contains any such information/documents, the BPC shall not be responsible for premature opening of the Financial Bid.

All pages of the Bid, except for the Bid Bond (Annexure 14) and any other document executed on non-judicial stamp paper, forming part of the Bid and corrections in the Bid, if any, must be signed by the authorized signatory on behalf of the Bidder. It is clarified that the same authorized signatory shall sign all pages of the Bid. However, any published document submitted in this regard shall be signed by the authorized signatory at least on the first and last page of such document.

2.9.3. No change or supplemental information to a Bid already submitted will be accepted after the Bid Deadline, unless the same is requested for by the BPC as per Clause 2.5.6 (k).



Provided that a Bidder shall always have the right to withdraw / modify its Bid before the Bid Deadline. No Technical Bid or Initial Offer shall be modified, substituted or withdrawn by the Bidder on or after the Bid Deadline.

## 2.10 Preparation cost

- 2.10.1. The Bidders shall be responsible for all the costs associated with the preparation of the Bid and participation in discussions and attending pre-bid meetings, and finalization and execution of the RFP Project Documents (other than the TSA), etc. BPC shall not be responsible in any way for such costs, regardless of the conduct or outcome of the process of tariff based competitive bidding for selection of Bidder as TSP as per Bidding Guidelines.
- 2.10.2. The cost of this RFP is Rupees Five Lakh Only (Rs. 5,00,000) or U.S. Dollar Seven Thousand Only (US\$ 7,000) plus GST as per applicable rate, which shall be non-refundable. This amount shall be paid via electronic transfer to the following Bank Account:

Bank Name, Address	ICICI Bank 9A, Phelps Building, Inner Circle, Connaught Place, New Delhi-
Bank Account Name	REC Power Development & Consultancy Limited
Bank Account No	000705041275
Bank IFSC Code No	ICIC0000007

Immediately after issuance of RFP document, the Bidder shall submit the Pre-Award Integrity Pact in the format as prescribed in Annexure B, which shall be applicable for and during the bidding process, duly signed on each page by any whole-time Director / Authorized Signatory, duly witnessed by two persons, and shall be submitted by the Bidder in two (2) originals in a separate envelope, duly superscripted with Pre-Award Integrity Pact. The Bidder shall submit the Pre-Award Integrity Pact on non-judicial stamp paper of Rs. 100/- each duly purchased from the National Capital Territory of Delhi. In case the Bidder is in a consortium, the Pre-Award Integrity Pact shall be signed and submitted by each member of the Consortium separately.

## 2.11 Bid Bond

- 2.11.1. Each Bidder shall submit the Bid accompanied by Bid Bond issued by any of the Banks listed in Annexure-17. The Bid Bond shall be valid for a period of thirty (30) days beyond the validity of the Bid.
- 2.11.2. Subject to the provisions of Clause 2.15.5, the Bid Bond may be invoked by the BPC or its authorized representative, without any notice, demure, or any other legal process upon occurrence of any of the following:
- Bidder withdraws during the period of Bid Validity as specified in this RFP or as extended by mutual consent of the respective Bidder(s) and the BPC
  - Failure to execute the Share Purchase Agreement as per the provisions of Clause 2.15.2; or
  - Failure to furnish the Contract Performance Guarantee as per Clause 2.12; or



- Failure to acquire one hundred percent (100%) equity shares of ..... (Insert the name of SPV), along with all its related assets and liabilities, in accordance with the provisions of Clause 2.15.2; or
- Failure to comply with the provisions of Clause 2.15.5 and Clause 2.15.6, leading to annulment of the award of the Project.
- Bidders submitting any wrong information or making any misrepresentation in their Bid as mentioned in Clause 2.5.6.

Intimation of the reasons of the invocation of the Bid Bond shall be given to the Selected Bidder by the BPC within three (3) working days after such invocation.

- 2.11.3. The Bid Bond of the Selected Bidder shall be returned on submission of the Contract Performance Guarantee as per Clause 2.12 and the relevant provisions of the Transmission Service Agreement.
- 2.11.4. The Bid Bond of all the Bidders, whose Bids are declared non-responsive, shall be returned within a period of thirty (30) days after the date on which the Financial Bids are opened.
- 2.11.5. The Bid Bond of all unsuccessful Bidders shall be returned and released by the BPC on the same day on which the ..... (Insert the name of SPV) is transferred to the Selected Bidder. The Bid Bond of the Successful Bidder shall be returned on submission of Contract Performance Guarantee as per Clause 2.12 of this RFP and the provisions of the Transmission Service Agreement.

## 2.12 Contract Performance Guarantee

- 2.12.1. Within ten (10) days from the date of issue of the Letter of Intent, the Selected Bidder, on behalf of the TSP, will provide to the Nodal Agency the Contract Performance Guarantee for an amount of **Rs. 18.40 Crore (Rupees Eighteen Crore Forty Lakh Only)**. The Contract Performance Guarantee shall be initially valid for a period up to three (3) months after the Scheduled COD of the Project and shall be extended from time to time to be valid for a period up to three (3) months after the COD of the Project and thereafter shall be dealt with in accordance with the provisions of the Transmission Service Agreement. The Contract Performance Guarantee shall be issued by any of the banks listed in Annexure-17.
- 2.12.2. In case the Selected Bidder is unable to obtain the Contract Performance Guarantee for the total amount from any one bank specified in Annexure-17, the Selected Bidder may obtain the same from not more than three (3) banks specified in Annexure-17.

## 2.13 Opening of Bids

- 2.13.1. Technical Bid will be opened by the Bid Opening Committee as per the following time schedule and in the office of Central Electricity Authority, in the online presence of Bidders' representatives who wish to attend:

Opening of Envelope (Technical Bid): 1530 hours (IST) on 29.11.2024

or such other dates as may be intimated by BPC to the Bidders.





In the event of any of above dates falling on a day which is not a working day or which is a public holiday, then the bids shall be opened on the next working day at the same venue and time.

Opening of Initial Offer: Initial Offer shall be opened by the Bid Opening Committee in presence of the Bid Evaluation Committee at 1530 hours (IST) on 10.12.2024 in the office of CEA.

2.13.2. The following information from each Bid will be read out to all the Bidders at the time of opening of Technical Bid:

- Name of the Bidding Company / Consortium Members in case of Bidding Consortium.

**Information to be provided after opening of Initial Offer:**

Only the lowest Initial Offer (s) shall be communicated to all the Qualified Bidders to participate in the e-reverse bidding process. During the e-reverse bidding process only the lowest prevailing bid should be visible to all the bidders on the electronic platform.

**2.14 Enquiries**

Written clarifications on the RFP and other RFP Project Documents as per Clause 2.3 and 2.4 may be sought from:

Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4,  
Sec – 29 Gurugram – 122 001  
Email: Satyabhan.sahoo@recpdcl.in& tbc@recpdcl.in

**2.15 Other Aspects**

2.15.1. The draft of the Transmission Service Agreement has been attached to this RFP. In addition to above, the following documents have also been attached to this RFP:

- a) Share Purchase Agreement

When the drafts of the above RFP Project Documents are provided by the BPC, these RFP Project Documents shall form part of this RFP as per Formats – 1 & 2 of Annexure 20.

Upon finalization of the RFP Project Documents after incorporating the amendments envisaged in Clause 2.4 of this RFP, all the finalized RFP Project Documents shall be provided by BPC to the Bidders at least fifteen (15) days prior to the Bid Deadline.

The Transmission Service Agreement and Share Purchase Agreement shall be signed in required number of originals so as to ensure that one (1) original is retained by each party





to the Agreement(s) on the date of transfer of SPV.

2.15.2. Within ten (10) days of the issue of the Letter of Intent, the Selected Bidder shall:

- a) provide the Contract Performance Guarantee in favour of the Nodal Agency as per the provisions of Clause 2.12;
- b) execute the Share Purchase Agreement and the Transmission Service Agreement;
- c) acquire, for the Acquisition Price, one hundred percent (100%) equity shareholding of ..... (Insert the name of SPV) from REC Power Development and Consultancy Limited, who shall sell to the Selected Bidder, the equity shareholding of ..... (Insert the name of SPV), along with all its related assets and liabilities;

Stamp duties payable on purchase of one hundred percent (100%) of the equity shareholding of ..... (Insert the name of SPV), along with all its related assets and liabilities, shall also be borne by the Selected Bidder.

Provided further that, if for any reason attributable to the BPC, the above activities are not completed by the Selected Bidder within the above period of ten (10) days as mentioned in this Clause, such period of ten (10) days shall be extended, on a day for day basis till the end of the Bid validity period.

2.15.3. After the date of acquisition of the equity shareholding of ..... (Insert the name of SPV), along with all its related assets and liabilities, by the Selected Bidder,

- i. the authority of the BPC in respect of this Bid Process shall forthwith cease and any actions to be taken thereafter will be undertaken by the Nodal Agency,
- ii. all rights and obligations of ..... (Insert the name of SPV), shall be of the TSP,
- iii. any decisions taken by the BPC prior to the Effective Date shall continue to be binding on the Nodal Agency and
- iv. contractual obligations undertaken by the BPC shall continue to be fulfilled by the TSP.
- v. Further, the TSP shall execute the Agreement(s) required, if any, under Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time.

2.15.4. Within five (5) working days of the issue of the acquisition of the SPV by the Successful Bidder, the TSP shall apply to the Commission for grant of Transmission License and make an application to the Commission for the adoption of Transmission Charges, as required under Section – 63 of The Electricity Act 2003.

2.15.5. If the Selected Bidder / TSP fails or refuses to comply with any of its obligations under Clauses 2.15.2, 2.15.3 and 2.15.4, and provided that the other parties are willing to execute the Share Purchase Agreement and REC Power Development and Consultancy Limited is



willing to sell the entire equity shareholding of ..... (Insert the name of SPV), along with all its related assets and liabilities, to the Selected Bidder, such failure or refusal on the part of the Selected Bidder shall constitute sufficient grounds for cancellation of the Letter of Intent. In such cases, the BPC / its authorized representative(s) shall be entitled to invoke the Bid Bond of the Selected Bidder.

- 2.15.6. If the TSP fails to obtain the Transmission License from the Commission, it will constitute sufficient grounds for annulment of award of the Project.
- 2.15.7. The annulment of award, as provided in Clauses 2.15.5 and 2.15.6 of this RFP, will be done by the Government on the recommendations of National Committee on Transmission. However, before recommending so, National Committee on Transmission will give an opportunity to the Selected Bidder / TSP to present their view point.
- 2.15.8. The annulment of the award, under Clause 2.15.5 or 2.15.6 of this RFP, shall be sufficient grounds for blacklisting the bidder, whose award has been annulled, for a period of five years or more, as decided by the National Committee on Transmission, provided that the blacklisting shall be done only after giving the bidder an opportunity for showing cause.

## 2.16 Confidentiality

- 2.16.1. The parties undertake to hold in confidence this RFP and RFP Project Documents and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:
- a) to their professional advisors;
  - b) to their officers, contractors, employees, agents or representatives, financiers, who need to have access to such information for the proper performance of their activities;
  - c) disclosures required under Law, without the prior written consent of the other parties of the concerned agreements.

Provided that the TSP agrees and acknowledges that the Nodal Agency may at any time, disclose the terms and conditions of the RFP and RFP Project Documents to any person, to the extent stipulated under the Law or the Bidding Guidelines.

## 2.17 Right of the BPC to reject any Bid

BPC reserves the right to reject all or any of the Bids/ or cancel the RFP without assigning any reasons whatsoever and without any liability.

- 2.18 Non submission and/or submission of incomplete data/ information required under the provisions of RFP shall not be construed as waiver on the part of BPC of the obligation of the Bidder to furnish the said data / information unless the waiver is in writing.

## 2.19 Fraudulent and Corrupt Practices

- 2.19.1. The Bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Bid process and subsequent to the issue of the



LoI Notwithstanding anything to the contrary contained herein, or in the LoI, the BPC shall reject a Bid, withdraw the LoI, as the case may be, without being liable in any manner whatsoever to the Bidder, if it determines that the Bidder has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bid process. In such an event, the BPC shall forfeit the Bid Bond, without prejudice to any other right or remedy that may be available to the BPC hereunder or otherwise.

- 2.19.2. Without prejudice to the rights of the BPC under Clause 2.19.1 hereinabove and the rights and remedies which the BPC may have under the LoI, if a Bidder is found by the BPC to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bid process, or after the issue of the LoI, such Bidder & its Affiliates shall not be eligible to participate in any tender or RFP issued by any BPC for an indefinite period from the date such Bidder is found by the BPC to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practices, as the case may be.
- 2.19.3. For the purposes of this Clause 2.19, the following terms shall have the meaning hereinafter respectively assigned to them:
- a) **“corrupt practice”** means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bid process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the BPC who is or has been associated or dealt in any manner, directly or indirectly with the Bid process or the LoI or has dealt with matters concerning the Transmission Service Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the BPC, shall be deemed to constitute influencing the actions of a person connected with the Bid Process); or (ii) engaging in any manner whatsoever, whether during the Bid Process or after the issue of the LoI or after the execution of the Transmission Service Agreement, as the case may be, any person in respect of any matter relating to the Project or the LoI or the Transmission Service Agreement, who at any time has been or is a legal, financial or technical adviser of the BPC in relation to any matter concerning the Project;
  - b) **“Fraudulent practice”** means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bid process;
  - c) **“Coercive practice”** means impairing or harming, or threatening to impair or harm, directly or indirectly, any person or property to influence any person’s participation or action in the Bid process;
  - d) **“undesirable practice”** means (i) establishing contact with any person connected with or employed or engaged by the BPC with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bid process; or (ii) having a Conflict of Interest; and



- e) **"Restrictive practice"** means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Bid process.



# **SECTION - 3**

## **EVALUATION OF THE TECHNICAL AND FINANCIAL BID**



## SECTION 3

## 1. EVALUATION OF BID

## 3.1. The evaluation process of Technical Bid comprises the following five steps:

- Step I – Responsiveness check
- Step II- Compliance with submission requirements
- Step III– Evaluation of Technical Bids
- Step IV– Evaluation of Financial Bids
- Step V – Bidder Selection

## 3.2. STEP I – Responsiveness check

The Technical Bid submitted by the Bidder shall be initially scrutinized to establish “Responsiveness”. Subject to clause 2.5.6 (k), any of the following conditions shall cause the Technical Bid to be “Non-responsive”:

- a) Technical Bid that are incomplete.
- b) Technical Bid not signed by authorized signatory and / or stamped in the manner indicated in this RFP.
- c) All pages of the Technical Bid submitted but not initialed by the authorized signatories on behalf of the Bidder.
- d) Technical Bid not including the covering letter as per Annexure 1.
- e) Technical Bid submitted by a Bidding Consortium not including the Consortium Agreement.
- f) Technical Bid contains material inconsistencies in the information and documents submitted by the Bidder, affecting the Qualification Requirements.
- g) Bidder submitting or participating in more than one Bid either as a Bidding Company or as a Member of Bidding Consortium.
- h) More than one Member of the Bidding Consortium or a Bidding Company using the credentials of the same Parent/Affiliate.
- i) Information not submitted in formats specified in the RFP.
- j) Applicable Board resolutions, or any other document, as provided in Clause 2.5.2, not being submitted;
- k) Bid not accompanied by a valid Bid Bond or Bid Security Declaration, as applicable;
- l) Non submission of power of attorney, supported by a Board resolution;
- m) Bid validity being less than that required as per Clause 2.8 of this RFP;
- n) Bid not containing Format-1 (Bidders' Undertakings) of Annexure-8;





- o) Bidder having Conflict of Interest
- p) The Bidder has not submitted a disclosure as per Annexure 13.
- q) Bidders delaying in submission of additional information or clarifications sought by the BPC.
- r) If the Bidder makes any misrepresentation as specified in Clause 3.7.
- s) Bid being conditional in nature.
- t) More than one Member of the Bidding Consortium or a Bidding Company using the credentials of the same Parent/Affiliate.

### 3.3. STEP II - Compliance with submission requirements

Each Bidder's Technical Bid shall be checked for compliance with the submission requirements set forth in this RFP before the evaluation of Technical Bid is taken up. Annexure 16 and Annexure 11A shall be used to check whether each Bidder meets the stipulated requirements.

### 3.4. STEP III -Evaluation of Technical Bid

Evaluation of Technical Bid will be carried out considering the information and documents furnished by the Bidders as required under this RFP. This step would involve technical and financial evaluation of the details/ documents furnished by the Bidding Company / Bidding Consortium in support of meeting the Qualification Requirements

#### 3.4.1. Interpolation of financial data.

For the Qualification Requirements data provided by the Bidders in foreign currency, equivalent rupees of Networth will be calculated using bills selling exchange rates (card rate) USD/INR of State Bank of India prevailing on the date of closing of the accounts for the respective financial year as certified by their Banker.

For the purpose of calculating the aggregate capital expenditure/construction experience of the projects completed/ commissioned where such projects are executed outside India and capital expenditure is denominated in foreign currency, bills selling exchange rates (card rate) USD/INR of State Bank of India prevailing on the date of closing of the financial year in which the projects were completed and as certified by their Banker shall be considered.

For the projects executed in the current financial year bills selling (card rate) USD/INR of State Bank of India prevailing on seven (7) days prior to the last date of submission of Technical Bid and as certified by their Banker shall be considered.

For currency other than USD, Bidders shall convert such currency into USD as per the exchange rates certified by their Banker prevailing on the relevant date and used for such conversion. Such Bidders shall submit necessary certification from their Banker for the exchange rate used in the conversation.



If the exchange rate for any of the above dates is not available, the rate for the immediately available previous day shall be taken into account.

- 3.4.2. Bidders meeting the Qualification Requirements, subject to evaluation as specified in Clauses 3.2 to 3.4 shall be declared as Qualified Bidders and eligible for opening of Initial Offer.
- 3.4.3. The BPC shall upload the list of all Qualified Bidders and Non-Qualified Bidders on the bidding portal along with the reasons for non-qualification.

### 3.5. STEP IV - Evaluation of Financial Bids

- 3.5.1. The Bids which have been found Qualified by the BPC, based on the Steps I to III as specified above in Clauses 3.2 to 3.4, shall be opened and Quoted Transmission Charges of such Initial Offer shall be ranked on the basis of the ascending Initial Offer submitted by each Qualified Bidder.

Based on such ranking of the Qualified Bidders, in the first fifty per cent of the ranking (with any fraction rounded off to higher integer) or four Qualified Bidders, whichever is higher, shall qualify for participating in the electronic reverse auction.

Provided however, in case only one Bidder remains after the Evaluation of Technical Bid (Steps 1 to III) as per Clause 3.2 to 3.4, the Initial Offer of such Bidder shall not be opened and the matter shall be referred to the Government.

Provided that in the event the number of Qualified Bidders is between two and four, then each of the responsive Bidder shall be considered as Qualified Bidders.

Provided that in the event of identical Quoted Transmission Charges discovered from the Initial Offer having been submitted by one or more Bidders, all such Bidders shall be assigned the same rank for the purposes of determination of Qualified Bidders. In such cases, all Qualified Bidders who shares the same rank till 50% of the rank (with any fraction rounded off to higher integer) determined above, shall qualify to participate in the electronic reverse auction stage. In case 50% of the rank is having less than four (4) Bidders and the rank of the fourth (4<sup>th</sup>) Bidder is shared by more than one Bidder, then all such all such Bidders who share the rank of the fourth Bidder shall qualify to participate in the electronic reverse auction.

- 3.5.2. The Financial Bids comprising of both Initial Offer and Final Offer submitted by the Bidders shall be scrutinized to ensure conformity with the provisions of Clause 2.5.3 of this RFP. Any Bid not meeting any of the requirements as per Clause 2.5.3 of this RFP may cause the Bid to be considered "Non-responsive", at the sole decision of the BPC. Financial Bid not in conformity with the requirement of SI. No. (c) of Clause 2.5.3 of this RFP shall be rejected.
- 3.5.3 The Bidders shall quote the single annual Quoted Transmission Charges as specified in the format at Annexure – 21.



### 3.6. STEP V - Bidder Selection

3.6.1. The prevailing lowest Quoted Transmission Charges discovered from Final Offers shall only be displayed during the e-reverse bidding and the Bidder quoting such Final Offer will always remain anonymous during the e-reverse bidding. The Bidder with the prevailing lowest Quoted Transmission Charges discovered from Final Offers at the close of the scheduled or extended period of e-reverse bidding as mentioned in clause 2.5 shall be declared as the Successful Bidder, subject to verification of the original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14. The Letter of Intent shall be issued to such Successful Bidder in two (2) copies.

However, if no bid is received during the e-reverse bidding stage then the Bidder with lowest quoted initial transmission charges ("Initial Offer") during e-bidding stage shall be declared as the Successful Bidder, subject to verification of the original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14. The Letter of Intent shall be issued to such Successful Bidder in two (2) copies.

In case, there is a discrepancy between the online submission and physical documents, the bid would be out rightly rejected and the bidder shall be construed to have engaged in the fraudulent practice as defined in Clause 2.19.3 with consequences as mentioned in Clause 2.19.2. Further, in such a case, the provisions of Clause 2.5.6 (j) shall apply.

3.6.2. The Selected Bidder shall unconditionally accept the LoI, and record on one (1) copy of the LoI, "Accepted unconditionally", under the signature of the authorized signatory of the Successful Bidder and return such copy to the BPC within seven (7) days of issue of LoI.

3.6.3. If the Successful Bidder, to whom the Letter of Intent has been issued, does not fulfill any of the conditions specified in Clauses 2.15.2, 2.15.3 and Clause 2.15.4, then subject to Clause 2.15.5, the BPC reserves the right to annul the award of the Project and cancel the Letter of Intent. Further, in such a case, the provisions of Clause 2.5.6 (j) shall apply.

3.6.4. The BPC, in its own discretion, has the right to reject all Bids if the Quoted Transmission Charges are not aligned to the prevailing prices.

### 3.7. Misrepresentation by the Bidder

If the Bidder conceals any material information or makes a wrong statement or misrepresents facts or makes a misleading statement in the Technical Bid or Bid, as the case may be, in any manner whatsoever, in order to create circumstances for the acceptance of its Technical Bid/Bid, the BPC reserves the right to reject such Technical Bid/Bid, and/ or cancel the Letter of Intent, if issued. Further, in case Letter of Intent is cancelled, consequences as per provisions of the RFP shall follow.

### 3.8. Disposition of Technical Bid

3.8.1. Technical Bid found to be Non-responsive as per Clause 3.2, due to any of the following conditions, shall be liable for rejection.

- Technical Bid that is incomplete.
- Technical Bid not signed by authorized signatory and / or stamped in the manner indicated in this RFP.



- All pages of the Technical Bid submitted but not initialed by the authorized signatories on behalf of the Bidder.
- Technical Bid not including the covering letter as per Annexure 1.
- Technical Bid contains material inconsistencies in the information and documents submitted by the Bidder, affecting the Qualification Requirements.
- Information not submitted in formats specified in the RFP.
- The Bidder has not submitted a disclosure as per Annexure 13.
- Bidders delaying in submission of additional information or clarifications sought by the BPC.

3.8.2. Technical Bid found to be Non-responsive as per Clause 3.2, due to any of the following conditions, shall be rejected.

- Technical Bid not received by the scheduled date and time.
- Technical Bid submitted by a Bidding Consortium not including the Consortium Agreement.
- Bidder submitting or participating in more than one response either as a Bidding Company or as a Member of Bidding Consortium.
- More than one Member of the Bidding Consortium or a Bidding Company using the credentials of the same Parent/Affiliate.
- Technical Bid having Conflict of Interest.
- If the Bidder makes any misrepresentation as specified in Clause 3.7.

3.9. BPC reserves the right to interpret the Bid in accordance with the provisions of this RFP document and make its own judgment regarding the interpretation of the same. In this regard, BPC shall have no liability towards any Bidder and no Bidder shall have any recourse to BPC with respect to the qualification process.

BPC shall evaluate Bid using the process specified in Clause 3.1 to 3.6, at its sole discretion. BPC's decision in this regard shall be final and binding.



# SECTION - 4

## ANNEXURES FOR BID



**SECTION – 4****I. Formats for Bid**

The following formats are required to be included in the Bidder's Technical and Financial Bid. These formats are designed to demonstrate the Bidder's compliance with the Qualification Requirements set forth in Clause 2.1 of Section – 2.

**Technical Bid**

1. Format for the Covering Letter
2. Format for Letter of Consent from Consortium Members
3. Format for evidence of authorized signatory's authority (Power of Attorney)
4. Format for Power of Attorney from to be provided by each of the other Members of the Consortium in favor of the Lead Member
5. Format for Bidder's composition and ownership structure and Format for Authorization
6. Format for Consortium Agreement
7. Formats for Qualification Requirement
8. Format of Bidders Undertaking and details of Equity Investment
9. Authorization from Parent/Affiliate of Bidding Company/Member of Bidding Consortium whose technical/financial capability has been used by the Bidding Company/Member of Bidding Consortium.
10. Undertaking from the Technically / Financially Evaluated Entity(ies) or from Ultimate Parent Company for equity investment
11. Format of Board Resolutions
12. Format for Illustration of Affiliates
13. Format for Disclosure
14. Format for Bid Bond
- ~~14A. Format for Bid Security Declaration~~
15. Format for Contract Performance Guarantee
16. Checklist for Technical Bid submission requirements
22. Format for Affidavit

In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI.

**Financial Bid**

21. Format for Financial Bid

**II. The following formats are for the information to the Bidders to enable them to submit their Bid.**

- 11A. Illustration For Applicable Board Resolution Requirements Under Clause 2.5.2
17. List of Banks
18. GRID Map of the Project
19. Format for clarification/amendments on the RFP/RFP Project Documents
20. Formats for RFP Project Documents

Bidder may use additional sheets to submit the information for its detailed Bid.





**ANNEXURE 1 - COVERING LETTER**

**(The covering letter should be on the Letter Head of the Bidding Company/ Lead Member of the Consortium)**

Date: .....

From: .....

.....

.....

Tel. No.: ....

Fax No.:

E-mail address:

To,

**Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4,  
Sec – 29 Gurugram – 122 001**

Dear Sir,

**Sub: Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process.**

1. Being duly authorized to present and act on behalf of M/s ..... (insert name of Bidding Company / Bidding Consortium) (hereinafter called the “Bidder”) and having read and examined in detail the Request for Proposal (RFP) document, the undersigned hereby submit our Technical Bid with duly signed formats and Financial Bid (Initial Offer) as stipulated in RFP document for your consideration.
2. It is confirmed that our Bid is consistent with all the requirements of submission as stated in the RFP document and subsequent clarifications/amendments as per Clause 2.3 and 2.4 of RFP.
3. The information submitted in our Bid is complete, is strictly as per the requirements stipulated in the RFP document and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our Bid.
4. We hereby agree and undertake to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide orders No. 11/5/2018 - Coord. dated 28.07.2020 for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard.



We hereby also agree and undertake to comply with Department of Expenditure, Ministry of Finance vide Order (Public Procurement No 1) bearing File No. 6/18/2019-PPD dated 23.07.2020, Order (Public Procurement No 2) bearing File No. 6/18/2019-PPD dated 23.07.2020 and Order (Public Procurement No. 3) bearing File No. 6/18/2019-PPD, dated 24.07.2020, as amended from time to time, regarding public procurement from a bidder of a country, which shares land border with India.

5. We hereby agree to comply with Ministry of Power order no. 25-11/6/2018 – PG dated 02.07.2020 as amended from time to time.
6. We are herewith submitting legally binding board resolution for the total equity requirement of the Project.
7. We hereby confirm that in accordance with Clause 2.1.4 of the RFP, we are herewith submitting legally binding undertaking supported by a board resolution from the .....(Insert name of Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be) that all the equity investment obligations of ..... (Insert name of the Bidding Company) shall be deemed to be equity investment obligations of the ..... (Insert name of Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be) and in the event of any default by..... (Insert name of the Bidding Company), the same shall be met by ..... (Insert name of Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be).

**[Sl. No 7 to be inserted only in case the Bidder is a Bidding Company / Lead Member of a Consortium and has sought qualification on the basis of technical and financial capability of its Affiliate(s) and/or its Parent]**

8. We confirm that there are no litigations or disputes against us, which materially affect our ability to fulfill our obligations with regard to the Project.
9. We hereby confirm that we shall continue to maintain compliance with Qualification Requirements till the execution of the Transmission Service Agreement. Further, in case we emerge as Selected Bidder for the Project, we shall continue to maintain compliance with Qualification Requirements till the COD of the Project.
10. We confirm that we have studied the provisions of relevant Indian laws and regulations required to enable us to build, own, operate and transfer the said Project and to prepare this Bid.
11. We hereby confirm that we shall abide unreservedly with BPC's decision in the qualification process for selection of Qualified Bidder and further warrant that under no circumstances we shall challenge either the BPC's decision or its right to make such decision at any time in the future.
12. We confirm that the Bid shall remain valid for a period of one eighty (180) days from the Bid Deadline.
13. The details of contact person are furnished as under:  
Name: .....



Designation: .....  
 Name of the Company: .....  
 Address of the Bidder: .....  
 Phone Nos.: .....  
 Fax Nos.: .....  
 E-mail address: .....

#### 14. Bid Bond

We have enclosed a Bid Bond of Rupees ..... Crores (Rs. ....) only or US\$ ..... (.....US Dollars), in the form of bank guarantee no.....[Insert number of the Bank Guarantee] dated.....[Insert Date of the Bank Guarantee] as per your proforma (Annexure-14) from.....[Insert name of bank providing Bid Bond] and valid up to .....in terms of Clause 2.11 of the RFP.

#### 15. Acceptance

We hereby unconditionally and irrevocably agree and accept that the decision made by the BPC on any matter regarding or arising out of the RFP shall be binding on us. We hereby expressly waive any and all claims in respect of Bid process.

#### 16. Familiarity With Relevant Indian Laws & Regulations

We confirm that we have studied the provisions of relevant Indian laws and regulations as required to enable us to submit this Bid and execute the RFP Project Documents (other than TSA), in the event of our selection as the TSP. We further undertake and agree that all such factors as mentioned in Clause 2.5.7 of RFP have been fully examined and considered while submitting the Bid.

It is confirmed that our Bid is consistent with all the requirements of submission as stated in the RFP and subsequent communications from BPC.

The information submitted in our Bid is complete, strictly as per the requirements stipulated in the RFP and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our Bid.

We confirm that we have not taken any deviation so as to be deemed non-responsive with respect to the provisions stipulated at Clause 2.5.1, of this RFP.

Thanking you,

Yours sincerely,

.....  
 (Name and Signature of the authorized signatory in whose name Power of Attorney/ Board Resolution as per Clause 2.5.2 is issued)



**RFP for Selection of Bidder as Transmission Service Provider**

Name: .....  
Designation: .....  
Address: .....

Date: .....  
Place: .....

**Company Rubber Stamp**



**ANNEXURE 2 - LETTER OF CONSENT FROM CONSORTIUM MEMBERS****(On the letter head of each Member of the Consortium including Lead Member)**

Date: .....

From: .....

.....

Tel. No.: .....

Fax No.: .....

E-mail address: .....

To,

**Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4,  
Sec – 29 Gurugram – 122 001**

Dear Sir,

**Sub: Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process.**

We, the undersigned Member of ..... (Insert name of the Bidding Consortium) have read, examined and understood the RFP document for the short-listing of Bidders as prospective TSP to establish Inter-State Transmission System for “**Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A**” through tariff based competitive bidding process. We hereby confirm our concurrence with the Bid including in particular the Consortium Agreement submitted by ..... (Insert name of the Lead Member) in response to the RFP document.

We hereby confirm our commitment to participate in the said Bidding Consortium and invest ..... % of the total equity requirement for the Project as per the terms of the Consortium Agreement dated ..... and board resolution for such investment commitment is enclosed herewith.

We hereby confirm that in accordance with Clause 2.1.4 of the RFP, we are enclosing legally binding undertaking supported by a board resolution from the ..... (Insert name of Technically Evaluated Entity and / or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be) that all the equity investment obligations of ..... (Insert name of the Member) shall be deemed to be equity investment obligations of the ..... (Insert name of Technically Evaluated Entity and / or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be) and in the event of any default by ..... (Insert name of the Member), the same shall be met by ..... (Insert name of Technically Evaluated Entity and / or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be). [Insert if applicable]



[To be inserted by the Lead Member only] We are also enclosing legally binding board resolution for the total equity requirement of the Project in case of any breach of any of the equity investment commitment by any of the Consortium Members, in line with the provisions of the Consortium Agreement dated ..... [Bidder to insert date of Consortium Agreement].

The details of contact person are furnished as under:

Name: .....  
Designation: .....  
Name of the Company: .....  
Address: .....  
Phone Nos.: .....  
Fax Nos.: .....  
E-mail address: .....

Dated the ..... day of ..... of 20...

Thanking you,

Yours faithfully,

.....  
(Signature)

Name: .....

Designation: .....

(Signature, Name, Designation of Authorized Signatory of Consortium Member and Company's Seal)





**ANNEXURE 3 - FORMAT FOR EVIDENCE OF AUTHORIZED SIGNATORY'S AUTHORITY (POWER OF ATTORNEY)**

**POWER OF ATTORNEY**

**(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign companies submitting bids are required to follow the applicable law in their country)**

Know all men by these presents, We .....(name and address of the registered office of the Bidder) do hereby constitute, appoint and authorize Mr./Ms.....(name and residential address) who is presently employed with us and holding the position of ..... as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for **“Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A”** through tariff based competitive bidding process in the country of India, including signing and submission of all documents related to the Bid, including, undertakings, letters, certificates, acceptances, clarifications, guarantees, etc., making representations to the BPC, and providing information / responses to the BPC, representing us in all matters before the BPC, and generally dealing with the BPC in all matters in connection with our Bid for the said Project till the completion of the bidding process in accordance with the RFP and signing of the Share Purchase Agreement by all the parties thereto.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

All the terms used herein but not defined shall have the meaning ascribed to such terms under the RFP.

**For [Insert name of the Bidder on whose behalf PoA is executed]**

.....  
**(Signature)**

Name: .....  
Designation: .....

**Accepted**

.....  
**(Signature of the Attorney)**

Name: .....  
Designation: .....  
Address: .....

**(Name, Designation and Address of the Attorney)**



Specimen signatures of attorney attested by the Executant

.....  
(Signature of the Executant)

.....  
(Signature of Notary Public)

Place: .....

Date: .....

**Notes:**

- 1) To be executed by Bidding Company or the Lead Member, in the case of a Bidding Consortium, as the case maybe.
- 2) The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal of the executant affixed in accordance with the applicable procedure. Further, the person whose signatures are to be provided on the power of attorney shall be duly authorized by the executant(s) in this regard.
- 3) Also, wherever required, the executant(s) should submit for verification the extract of the charter documents and documents such as a Board resolution / power of attorney, in favour of the Person executing this power of attorney for delegation of power hereunder on behalf of the executant(s).
- 4) In case of foreign Bidders, refer to clause 2.5.6 (p)



**ANNEXURE 4 - FORMAT FOR POWER OF ATTORNEY TO BE PROVIDED BY  
EACH OF THE OTHER MEMBERS OF THE CONSORTIUM IN FAVOUR OF  
THE LEAD MEMBER**

**POWER OF ATTORNEY**

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign companies submitting bids are required to follow the applicable law in their country)

**KNOW ALL MEN BY THESE PRESENTS THAT** M/s....., having its registered office at ....., and M/s ..... having its registered office at ..... , (Insert names and registered offices of all Members of the Consortium), the Members of Consortium, have formed a Bidding Consortium named ..... (insert name of the Consortium) (hereinafter called the **“Consortium”**) vide Consortium Agreement dated..... and having agreed to appoint M/s..... as the Lead Member of the said Consortium do hereby constitute, nominate and appoint M/s.....a company incorporated under the laws of .....and having its Registered / Head Office at ..... as our duly constituted lawful Attorney (hereinafter called as **“Lead Member”**) which is one of the Members of the Consortium, to act as the Lead Member and our true and lawful attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to submission of Consortium's Bid for the Project, including signing and submission of the Bid and all documents related to the Bid, including, undertakings, letters, certificates, acceptances, clarifications, guarantees, etc, making representations to the BPC, and providing information / responses to the BPC, representing us and the Consortium in all matters before the BPC, and generally dealing with the BPC in all matters in connection with our Bid for the said Project, till completion of the bidding process in accordance with the RFP and signing of the Share Purchase Agreement by all the parties thereto.

It is expressly understood that in the event of the Consortium being selected as Successful Bidder, this Power of Attorney shall remain valid, binding and irrevocable until the Bidding Consortium achieves execution of all RFP Project Documents.

We, as the Member of the Consortium, agree and undertake to ratify and confirm all whatsoever the said Attorney/Lead Member has done on behalf of the Consortium Members pursuant to this Power of Attorney and the same shall bind us and deemed to have been done by us.

All the terms used herein but not defined shall have the meaning ascribed to such terms under the RFP.

**IN WITNESS WHEREOF** M/s ....., as the Member of the Consortium have executed these presents on this..... day of

For and on behalf of  
Consortium Member

.....  
(Signature of the Authorized Signatory)



Name: .....  
Designation: .....  
Place: .....  
Date: .....

Name: .....  
Designation: .....  
Place: .....  
Date: .....

**Accepted**  
Specimen signatures of attorney attested

.....  
**(Signature)**

.....  
.....

**(Signature of Notary Public)**  
.....

**(Name, Designation and Address  
of the Attorney)**

Place: .....  
Date: .....

**Notes:**

1. The mode of execution of the power of attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal of the executant affixed in accordance with the applicable procedure. Further, the person whose signatures are to be provided on the power of attorney shall be duly authorized by the executant(s) in this regard.
2. Also, wherever required, the executant(s) should submit for verification the extract of the charter documents and documents such as a Board resolution / power of attorney, in favour of the Person executing this power of attorney for delegation of power hereunder on behalf of the executant(s).
3. In case of foreign Bidders, refer to clause 2.5.6 (p)



### ANNEXURE 5 - FORMAT FOR BIDDER'S COMPOSITION AND OWNERSHIP STRUCTURE

**1. Corporate Details:**

Please provide the following information for the Bidder. If the Bidder is a Consortium, please provide this information for each Member including the Lead Member:

**a. Company's Name, Address, and Nationality:**

Name: .....

Address: .....  
 .....  
 .....

Website Address: .....

Country of Origin: .....

**b. Year Organized:** .....

**c. Company's Business Activities:** .....

**d. Status as a Bidder:**

- i. Bidding Company
- ii. Lead Member of the Bidding Consortium
- iii. Member of the Bidding Consortium

**Note: tick the applicable serial number**

**e. Company's Local Address in India (if applicable):**

.....  
 .....  
 .....

**f. Name of the Authorized Signatory:**

**g. Telephone Number:** .....

**h. Email Address:** .....

**i. Telefax Number:** .....

**j. Please provide the following documents:**

- i. Copy of the Memorandum and Articles of Association and certificate of incorporation or other equivalent organizational document (as applicable), including their amendments, certified by the Company Secretary as



**Attachment 1** for Bidding Company / each Member of Bidding Consortium including Lead Member.

- ii. Authority letter (as per format for authorization given below) in favour of BPC from the Bidder/every Member of the Consortium authorizing BPC to seek reference from their respective bankers & others as **Attachment 2** as per Clause 2.1.6 of the RFP.

**2. Details of Ownership Structure:**

Equity holding of Bidding Company/ each Member of Bidding Consortium including Lead Member owning 10% or more of total paid up equity.

Name of the Bidding Company / Consortium Member: .....

Status of equity holding as on .....

Name of the Equity Holder	Type and No. of Shares owned	Extent of Voting Control (%)
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		

**Notes:**

- The above table is to be filled in separately for each Consortium Member.
- Status of equity holding should be provided not earlier than thirty (30) days prior to Bid Deadline.

**For and on behalf of Bidding Company / Lead Member of the Bidding Consortium**

M/s.....

.....  
(Signature of authorized representative)

Name: .....

Designation: .....

.....  
(Stamp)

Date: .....

Place: .....





**FORMAT FOR AUTHORISATION**

**(In case of Bidding Consortium, to be given separately by each Member)  
(On Non – judicial stamp paper duly attested by notary public. Foreign companies submitting bids are required to follow the applicable law in their country)**

The undersigned hereby authorize(s) and request(s) all our Bankers, including its subsidiaries and branches, any person, firm, corporation or authority to furnish pertinent information deemed necessary and requested by REC Power Development and Consultancy Limited to verify our Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for **“Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A”** through tariff based competitive bidding process or regarding our project development experience, financial standing and general reputation.

**For and on behalf of M/s (Insert Name of Bidding Company or Member of the Consortium)**

**(Signature)**

Name of Authorized Signatory: .....

**(Signature and Name of the authorized signatory of the Company)**

Place: .....  
Date: .....

.....  
**(Company rubber stamp/seal)**

.....  
**(Signature of Notary Public)**

Place: .....  
Date: .....



### ANNEXURE 6 - FORMAT FOR CONSORTIUM AGREEMENT

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign companies submitting bids are required to follow the applicable law in their country)

**THIS CONSORTIUM AGREEMENT** executed on this,                      day of                      Two thousand                      between M/s                      , a company incorporated under the laws of                      and having its Registered Office at                      (hereinafter called the "Party 1", which expression shall include its successors, executors and permitted assigns) and M/s                      a Company incorporated under the laws of                      and having its Registered Office at                      (hereinafter called the "Party n", which expression shall include its successors, executors and permitted assigns) and for the purpose of submitting the Bid, acquisition of ..... (Insert the name of SPV) (in case of award) and entering into other Agreement(s) as specified in the RFP (hereinafter referred to as "Agreements") as may be entered into with the Nodal Agency.

**WHEREAS**, the BPC had invited Bid in response to RFP issued to ..... (insert the name of purchaser of RFP) for selection of the bidder as the Transmission Service Provider to establish Inter-State Transmission System for "**Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A**".

**AND WHEREAS**, Clause 2.2.4 of the RFP document stipulates that the Bidders qualifying on the strength of a Bidding Consortium will have to submit a legally enforceable Consortium Agreement in a format specified in the RFP document wherein the Consortium Members have to commit equity of a specific percentage in the Project.

**AND WHEREAS**, Clause 2.2.4 of the RFP document also stipulates that the Bidding Consortium shall provide along with the Bid, a Consortium Agreement as per prescribed format whereby the Consortium Members undertake to be liable for raising the required funds for its respective equity investment commitment as specified in Consortium Agreement.

#### **NOW THEREFORE, THIS INDENTURE WITNESSTH AS UNDER:**

In consideration of the above premises and agreement all the parties in this Consortium do hereby mutually agree as follows:

- In consideration of the selection of the Consortium as the selected bidder by the BPC, we the Members of the Consortium and parties to the Consortium Agreement do hereby unequivocally agree that M/s                      (Insert name of the Lead Member), shall act as the Lead Member as defined in the RFP for self and agent for and on behalf of ..... ,                      ,                      (the names of all the other Members of the Consortium to be filled in here).
- The Lead Member is hereby authorized by the Members of Consortium and parties to the Consortium Agreement to bind the Consortium and receive instructions for and on behalf of the Members.



3. Notwithstanding anything contrary contained in this Consortium Agreement, the Lead Member shall always be liable for the equity investment obligations of all the Consortium Members, i.e., for both its own equity contribution as well as the equity contribution of other Members.
4. The Lead Member shall be liable and responsible for ensuring the individual and collective commitment of each of the Members of the Consortium in discharging all their respective equity obligations. Each Consortium Member further undertakes to be individually liable for the performance of its part of the obligations without in any way limiting the scope of collective liability envisaged in this agreement.
5. Subject to the terms of this agreement, the share of each Member of the Consortium in the "issued equity share capital of the project company" shall be in the following proportion: (if applicable)

Name	Percentage of equity holding in the Project
Party 1	.....
.....	.....
Party n	.....
<b>Total</b>	<b>100%</b>

[Note: The percentage equity holding for any Consortium Member in the Project cannot be zero in the above table]

6. The Lead Member shall inter alia undertake full responsibility for liaising with lenders and mobilizing debt resources for the Project and achieving financial closure.
7. In case of any breach of any of the equity investment commitment by any of the Consortium Members, the Lead Member shall be liable for the consequences thereof.
8. Except as specified in the Agreement, it is agreed that sharing of responsibilities as aforesaid and equity investment obligations thereto shall not in any way be a limitation of responsibility of the Lead Member under these presents.
9. It is further specifically agreed that the financial liability for equity contribution of Lead Member shall, not be limited in any way so as to restrict or limit its liabilities. The Lead Member shall be liable irrespective of their scope of work or financial commitments.
10. It is expressly understood and agreed between the Members that the responsibilities and obligations of each of the Members shall be as delineated as annexed hereto as **Appendix-I**, forming integral part of this Agreement. It is further agreed by the Members that the above sharing of responsibilities and obligations shall not in any way be a limitation of joint and several responsibilities and liabilities of the Members, with regards to all matters relating to the Project.
11. It is clearly agreed that the Lead Member shall ensure performance under the Agreements and if one or more Consortium Members fail to perform its /their respective obligations under the Agreement(s), the same shall be deemed to be a default by all the Consortium Members.



12. This Consortium Agreement shall be construed and interpreted in accordance with the Laws of India and courts at **Delhi** alone shall have the exclusive jurisdiction in all matters relating thereto and arising there under.
13. It is hereby agreed that, the Lead Member shall furnish the bid bond, as stipulated in the RFP, on behalf of the Consortium Members.
14. It is hereby agreed that in case of selection of Bidding Consortium as the selected bidder, the parties to this Consortium Agreement do hereby agree that they shall furnish the contract performance guarantee on behalf of the TSP in favor of the Nodal Agency, as stipulated in the RFP and Transmission Service Agreement.
15. It is further expressly agreed that the Consortium Agreement shall be irrevocable and shall form an integral part of the RFP Project Document and shall remain valid till the execution of the Share Purchase Agreement, unless expressly agreed to the contrary by the Nodal Agency. Over the term of the Transmission Service Agreement, Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time shall apply on the Consortium Members.
16. The Lead Member is authorized and shall be fully responsible for the accuracy and veracity of the representations and information submitted by the Consortium Members respectively from time to time in response to the RFP and for the purposes of the Project.
17. It is hereby expressly agreed between the parties to this Consortium Agreement that neither party shall assign or delegate its rights, duties or obligations under this Agreement except with the prior written consent of the Nodal Agency.

**THIS CONSORTIUM AGREEMENT:**

- a. has been duly executed and delivered on behalf of each party hereto and constitutes the legal, valid, binding and enforceable obligation of each such party,
- b. sets forth the entire understanding of the parties hereto with respect to the subject matter hereof;
- c. may not be amended or modified except in writing signed by each of the parties and with prior written consent of the Nodal Agency.

**IN WITNESS WHEREOF**, the parties to the Consortium Agreement have, through their authorized representatives, executed these present on the Day, Month and Year first mentioned above.

For and on behalf of Consortium Member 1 (Party 1)  
M/s.....

**(Signature of authorized signatory)**



Name: .....  
Designation: .....  
Place: .....  
Date: .....

For and on behalf of Consortium Member n (Party n)  
M/s.....

**(Signature of authorized signatory)**

Name: .....  
Designation: .....  
Place: .....  
Date: .....

**Attested:**

.....  
**(Signature)**  
**(Notary Public)**

Place: .....  
Date: .....

Note: In case of foreign Bidders, refer to clause 2.5.6 (p)



**Appendix 1 to the Consortium Agreement:**

<b>Name of the Consortium Member</b>	<b>Responsibilities under the Consortium Agreement</b>
M/s ..... (Party 1)	
M/s .....	
M/s ..... (Party n)	





## ANNEXURE 7 A - FORMAT FOR QUALIFICATION REQUIREMENT

## A. NET WORTH

To,  
**Chief Executive Officer,**  
**REC Power Development and Consultancy Limited**  
**(A wholly owned subsidiary of REC Limited)**  
**REC Corporate Head Quarter,**  
**D Block, Plot No. I – 4,**  
**Sec – 29 Gurugram – 122 001**

Dear Sir,

**Sub: Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process**

## 1. [Note: Applicable in case of Bidding Company]

We certify that the Financially Evaluated Entity(ies) had a Network of Rs. .... Crore or equivalent USD\* computed as per instructions in this RFP based on unconsolidated audited annual accounts (refer Note-2 below) of any of the last three (3) financial years as provided in Clause 2.2.3, immediately preceding the Bid Deadline. Also, the Network of any of the last three (3) financial years is not negative.

Name of Financially Evaluated Entity(ies)	Relationship with Bidding Company**	Financial Year	Network (Rs. Crore)
1.	.		
2.	.		
3.	.		
....			
<b>Total Network</b>			

\*Equivalent USD shall be calculated as per provisions of Clause 3.4.1.

\*\* The column for “Relationship with Bidding Company” is to be filled in only in case financial capability of Parent/Affiliate has been used for meeting Qualification Requirements.

## 2. [Note: Applicable in case of Bidding Consortium]

We certify that the Financially Evaluated Entity(ies) had a minimum Network of Rs. .... Crore or equivalent USD\* computed as per instructions in the RFP and based on unconsolidated audited annual accounts (refer Note-2 below) of any of the last three (3) financial years as provided in Clause 2.2.3, immediately preceding the Bid Deadline. Also, the Network of any of the last three (3) financial years is not negative.



Name of Consortium Member	Equity Commitment in the Project (%)	Networth of Member (Rs. Crore)	Networth Requirement to be met by Member in proportion to the Equity Commitment (Rs. Crore)	Whether the Member meets the Networth Requirement
(1)	(2)	(3) (As per table below)	(4) = (2 x Total Networth requirement for the Project)	(5)
1.				Yes / No
2.				Yes / No
..				Yes / No
<b>Total Networth for financial requirement</b>				

**Member – I (Lead Member)**

[Note: Similar particulars for each Member of the Consortium is to be furnished, duly certified by the Member's Statutory Auditors]

- i. Name of Member:
- ii. Total Networth requirement: Rs ..... Crore
- iii. Percentage of equity commitment for the Project by the Member: .....%
- iv. Networth requirement for the Member\*\*\*: Rs. .... Crore
- v. Financial year considered for the Member: .....

Name of Financially Evaluated Entity(ies)	Relationship** with Member of Consortium	Financial Year	Networth (Rs. Crore)
1.			
2.			
3.			
<b>Total Networth</b>			

\* Equivalent USD shall be calculated as per provisions of Clause 3.4.1;

\*\* The column for "Relationship with Member of Consortium" is to be filled in only in case the financial capability of Parent / Affiliate has been used for meeting Qualification Requirements;

\*\*\* Networth requirement to be met by Member should be in proportion to the equity commitment of the Member for the Project.



**Yours faithfully**

.....  
**(Signature and name of the authorized signatory of the Company and Stamp)**

Name: .....  
 Date: .....  
 Place: .....

.....  
**(Signature and Stamp of statutory Auditors of Bidding Company / each Member of Consortium)**

Name: .....  
 Date: .....  
 Place: .....  
  
 Date: .....

**Notes:**

1. Along with the above format, in a separate sheet, please provide details of computation of Networth of last three (3) financial years duly certified by Statutory Auditor.
2. Audited consolidated annual accounts of the Bidder may be used for the purpose of financial criteria provided the Bidder has at least 26% equity in each company whose accounts are merged in the audited consolidated accounts and provided further that the financial capability of such companies (of which accounts are being merged in the consolidated accounts) shall not be considered again for the purpose of evaluation of the Bid.
3. In case Bidder or a Member of Consortium takes recourse to its Parent/Affiliate for meeting technical / financial requirements, then the financial years considered for such purpose should be same for the Bidder / Member of Consortium and their respective Parent / Affiliate.



## ANNEXURE 7B - FORMAT FOR TECHNICAL REQUIREMENT

To,

Chief Executive Officer,  
**REC Power Development and Consultancy Limited**  
 (A wholly owned subsidiary of REC Limited)  
 REC Corporate Head Quarter,  
 D Block, Plot No. I – 4,  
 Sec – 29 Gurugram – 122 001

Dear Sir,

**Sub: Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process**

**1. To be used by Bidder using the development experience in infrastructure sector**

We certify that M/s. .... (Insert name of Technically Evaluated Entity(ies)) have experience of development of projects in the Infrastructure sector in the last five (5) years whose aggregate capital expenditure is Rs. .... Crore or equivalent USD\*. We further certify that the capital expenditure of any single project considered for meeting the technical Qualification Requirement is not less than Rs. .... Crore or equivalent USD\*. For this purpose, capital expenditure incurred on projects which have been either wholly completed / commissioned or partly completed projects put under commercial operation and for which operation has commenced till at least seven (7) days prior to the Bid Deadline has been considered.

The project(s) considered for the purpose of technical experience (as per table given below) have been executed and owned to the extent as indicated in the table below (to be atleast twenty – six percent (26%)) by the Bidding Company / Lead Member of the Consortium / our Parent / our Affiliate(s) [strike off whichever is not applicable] on operation of the projects.

This technical requirement has been calculated as per the instructions provided in the RFP on the basis of following projects:

Name of Company (which has executed the project at (3)) whose technical capability has been used for Qualification Requirement	Relationship** with Bidding Company / Lead Member	Project name	Nature of Project (BOOT, BOT, BOOM, DBFOT etc.)	Relevant Infrastructure sector	Date of Financial Closure of the Project (in DD / MM / YYYY)	Date of Completion / Commissioning / Commercial Operation of partly completed projects	Project cost (Rs. Crore)	Percentage Equity Holding of Company at (1) in Completed project(s)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
		..... (Project 1)						
<b>Total (Rs. Crore)</b>								



## RFP for Selection of Bidder as Transmission Service Provider

- \* Equivalent USD shall be calculated as per provisions of Clause \_\_\_\_\_
- \*\* The column for "Relationship with Bidding Company / Lead Member" is to be filled in only in case technical capability of Parent/Affiliate has been used for meeting Qualification Requirements.

We further certify that the Company(ies) as indicated in column (1) of the above table, whose technical capability has / have been used for meeting the qualification requirement, has / have held shareholding respectively of atleast twenty – six percent (26%) from the date of financial closure till the date of commissioning / completion of the above project(s).

## 2. To be used by Bidder using construction experience in infrastructure sector.

We certify that M/s. .... (Insert name of Technically Evaluated Entity(ies)) have received aggregate payments not less than Rs. .... Crore or equivalent USD (calculated as per provisions in Clause 3.4.1) from its client(s) for construction works fully completed during the last 5(five) financial years. We further certify that the payment received from each project shall not be less than Rs. .... Crore or equivalent USD (calculated as per provisions in Clause 3.4.1). For this purpose, payments received on projects that have been commissioned/completed at least seven (7) days prior to the Bid Deadline shall be considered. Further only the payments (gross) actually received, during such 5 (five) financial years shall qualify for purposes of computing the technical capacity.

We also confirm that construction works does not include cost of land supply of goods or equipment except when such goods or equipment form part of a turn-key construction contract/ EPC contract for the project.

This technical requirement has been calculated as per the instructions provided in the RFP on the basis of following projects:

Name of Company (which has executed the project at (3)) whose technical capability has been used for Qualification Requirement	Relationship** with Bidding Company / Lead Member	Project name	Nature of Project (EPC, Turnkey etc)	Relevant Infrastructure sector	Date of award of contract (in dd/mm/yy)	Date of Completion / Commissioning	Payment received (Rs. Crore)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		..... Project 1					
	Total (Rs. Crore)						

Yours faithfully



.....  
**(Signature and name of the authorized signatory of the Company and stamp)**

Name: .....  
 Date: .....  
 Place: .....

.....  
**(Signature and Stamp of statutory Auditors of Bidding Company/ Lead Member of Consortium)**

Name: .....  
 Date: .....  
 Place: .....

Date: .....

**Notes:**

1. Along with the above format, in a separate sheet, please provide details of computation of capital expenditure of projects duly certified by Statutory Auditor of the project company. In addition, the Statutory Auditor of the project company should also certify that the capital expenditure of projects commissioned or completed 7 days prior to Bid Deadline has been capitalized in the books of accounts.

Additionally, in case construction experience is used, a certificate(s) from the statutory auditors stating the payments received and the concerned client(s) stating the works commissioned during the past 5 years in respect of the projects specified above. In case a particular job/ contract has been jointly executed by the Bidder (as part of a consortium), it should further support its claim for the share in work done for that particular job/ contract by producing a certificate from its statutory auditor or the client.

2. In case the accounts for the financial year in which the project claimed for meeting qualification requirement has been commissioned are not audited, the Bidder shall give declaration in this regard duly certified by its statutory auditor. In such a case, Bidder shall provide details of computation of capital expenditure of such project(s) duly certified by Statutory Auditor of the project company and the Statutory Auditor of the project company should also certify that the capital expenditure of projects commissioned or completed shall be capitalized in the books of accounts upon finalization.
3. The unconsolidated audited annual accounts of both the TEE and the Bidding Company / Lead Member for the respective financial years (financial years in which financial closure was achieved to the financial year in which the said project was completed / commissioned) should be submitted.





**ANNEXURE 7C - FORMAT FOR TECHNICAL & FINANCIAL REQUIREMENT –  
RELATIONSHIP & DETAILS OF EQUITY SHAREHOLDING**

[To be filled by Bidding Company / each Member of the Bidding Consortium including Lead Member if credentials of Parent and / or Affiliates have been used by them]

To,

**Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4,  
Sec – 29 Gurugram – 122 001**

Dear Sir,

**Sub: Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process**

We certify that M/s. .... (insert name of the **Bidding Company / Consortium Members**) have considered the technical and financial capability of its Parent and / or Affiliates, for the purpose of meeting Qualification Requirements as per the instructions provided in the RFP. The name of Parent and / or Affiliate, nature of relationship(s) with such Parent and / or Affiliate and details of equity holding are as follows:

<b>Name of Company whose credentials considered</b>	<b>Type of credentials considered (technical and / or financial)</b>	<b>Relationship with Bidding Company / Consortium Member (Parent / Affiliate)</b>	<b>Details of equity shareholding (refer notes below)</b>
Company 1			
.....			
.....			
.....			
.....			

**NOTES:**

- i. In case of Parent, the equity holding of the Parent in the Bidding Company / Member of the Bidding Consortium, including the Lead Member of the Consortium, need to be specified.
- ii. In case of Affiliate under direct control of Bidder, the equity holding of the Bidding Company / Member of the Bidding Consortium, including the Lead Member of the Consortium in the Affiliate, needs to be specified.
- iii. In case of Affiliate under common control of Parent, the equity holding of the Parent in the Affiliate of the Bidding Company / Member of the Bidding Consortium, including the Lead Member of the Consortium, needs to be specified.



- iv. Relationship of Parent / Affiliate with Bidding Company / Member of Consortium to be at the most seven (7) days prior to the Bid Deadline (as per Clause 2.1.4 of RFP)

Yours faithfully

.....  
**(Signature and name of the authorized signatory of the Company and stamp)**

Name: .....  
Date: .....  
Place: .....

.....  
**(Signature and Stamp of statutory Auditors of Bidding Company / each Member of Bidding Consortium)**

Name: .....  
Date: .....  
Place: .....



**ANNEXURE 7D - ADDITIONAL INFORMATION FOR VERIFICATION OF  
FINANCIAL AND TECHNICAL CAPABILITIES OF BIDDERS.**

.....  
**(Name of Bidder (Bidding Company/ Bidding Consortium or  
Technically/Financially Evaluated Entity(ies))**

**(Note:** In case of Consortium, details to be filled in by Lead Member for each Member of the Consortium including the Lead Member and in case of the qualification requirements of Technically / Financially Evaluated Entity(ies) being used, to be filled by each of such entity(ies)

**i. Financial capability (Attachment 1):**

1. Bidders shall attach unconsolidated / consolidated audited annual accounts, statements, as the case may be, (refer Clause 2.1.3) for the last three (3) financial years as Attachment 1. Such unconsolidated audited annual accounts shall include a Balance Sheet, Profit and Loss Account, Auditors Report and profit appropriation account.

**ii. Technical capability (Attachment 2):**

- a. This attachment shall include details of projects completed/commissioned or partly completed projects for which commercial operation has commenced to be considered for the purpose of meeting Qualification Requirements.

1. To be used by Bidder using development experience in infrastructure sector

Particulars	Year 1	Year 2	Year 3	Year 4	Year 5
Name(s) of project(s) from Infrastructure sectors					
Location(s) including country(s) where project was set up					
Nature of Project					
Voltage level (if any)					
Capital cost of project(s) Rs. in Crore					
*Status of the project					
% of equity owned in the project(s)					

**\*Note 1:** Date of completion/commissioning/commercial operation to be mentioned

**Note 2:** For each project listed in the table, the Bidder shall furnish an executive summary including the following information:

- Project model, i.e., BOO, BOOT, BOOM;



- Debt financing and equity raised and provided by Bidder/Bidder's Parent/Bidder's Affiliate for the project, including names of lenders and investors;
- Size and type of installation;
- Technical data/information on major equipment installed
- Description of role performed by the Bidder/Bidder's Parent/Bidder's Affiliate on the project
- Clearances taken by the Bidder/Bidder's Parent/Bidder's Affiliate including but limited to right-of-way (RoW), forest clearance and other statutory / Govt. clearances.
- Cost data (breakdown of major components)
- Name of EPC and/or other major contractor
- Construction time for the project
- Names, addresses and contact numbers of owners of the projects
- Operating reliability over the past five (5) years or since date of commercial operation
- Operating environmental compliance history
- Names of supervisory entities or consultant, if any
- Date of commercial operation
- Total duration of operation

2. To be used by Bidder using construction experience in infrastructure sector

Particulars	Year 1	Year 2	Year 3	Year 4	Year 5
Name(s) of project(s) from Infrastructure sectors					
Location(s) including country(s) where project was set up					
Nature of Project					
Voltage level (if any)					
Revenue received Rs. in Crore					
*Status of the project					
% of equity owned in the project(s)					

**\*Note 1:** Date of completion/commissioning/commercial operation to be mentioned

**Note 2:** For each project listed in the table, the Bidder shall furnish an executive summary including the following information:

- Project model, i.e., EPC, Turnkey;
- Size and type of installation;
- Technical data/information on major equipment installed
- Description of role performed by the Bidder/Bidder's Parent/Bidder's Affiliate on the project
- Cost data (breakdown of major components)
- Name of sub-contractor
- Construction time for the project
- Names, addresses and contact numbers of owners of the projects
- Operating reliability over the past five (5) years or since date of commercial operation
- Operating environmental compliance history



- Names of supervisory entities or consultant, if any
- Date of commercial operation
- Total duration of operation

**iii. Attachment-3:**

- a. For each project listed in Attachment 2 above, certificates of final acceptance and/or certificates of good operating performance duly issued by owners for the project and the same shall be certified as true by authorized signatory of the Bidding Company or the Lead Member of Consortium). In case the project listed in Attachment 2 is under BOOT / DBFOT mechanism, the certificates of final acceptance and/or certificates of good operating performance must be issued by the authority / independent engineer of the project as defined in the respective project agreement.

For and on behalf of Bidding Company/Consortium

M/s.....

.....  
**(Signature of authorized signatory)**

Name: .....

Designation: .....

Date: .....

Place: .....



**ANNEXURE 8 -UNDERTAKING AND DETAILS OF EQUITY INVESTMENT****Format 1: Bidders' Undertakings****[On the Letter Head of the Bidding Company/Lead Member of Bidding Consortium]****Date:****To,**

**Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4,  
Sec – 29 Gurugram – 122 001**

Dear Sir,

**Sub: Bidders' Undertakings in respect of Bid for selection of Bidder as TSP to establish Inter-State transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A”**

We hereby undertake on our own behalf and on behalf of the TSP, that if selected as the Successful Bidder for the Project:

1. The Project shall comply with all the relevant electricity laws, codes, regulations, standards and Prudent Utility Practices, environment laws and relevant technical, operational and safety standards, and we shall execute any agreements that may be required to be executed as per law in this regard.
2. We confirm that the Project shall also comply with the standards and codes as per Clause 1.6.1.2 of the RFP and the TSP shall comply with the provisions contained in the Central Electricity Regulatory Commission Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-state Transmission and related matters Open Access) Regulations, 2009.
3. We give our unconditional acceptance to the RFP dated 26.09.2024 issued by the BPC and the RFP Project Documents, as amended, and undertake to ensure that the TSP shall execute all the RFP Project Documents, as per the provisions of this RFP.
4. We have submitted the Bid on the terms and conditions contained in the RFP and the RFP Project Documents. Further, the Financial Bid submitted by us is strictly as per the format provided in Annexure 21 of the RFP, without mentioning any deviations, conditions, assumptions or notes in the said Annexure.
5. Our Bid is valid up to the period required under Clause 2.8 of the RFP.
6. Our Bid has been duly signed by authorized signatory and stamped in the manner and to the extent indicated in this RFP and the power of attorney / Board resolution in requisite format as per RFP has been enclosed with this undertaking.





7. We have assumed that if we are selected as the Successful Bidder, the provisions of the Consortium Agreement, to the extent and only in relation to equity lock in and our liability thereof shall get modified to give effect to the provisions of Clause 2.5.8 of this RFP and Article 18.1 of the Transmission Service Agreement. *(Note: This is applicable only in case of a Bidding Consortium)*
8. We confirm that our Bid meets the Scheduled COD of each transmission Element and the Project as specified below:

Sl.	Name of the Transmission Element	Scheduled	Percentage of	Element(s)
1.	LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s along with associated bays at Kishtwar S/s	24 months from SPV transfer	100%	All elements of scheme are required to be commissioned simultaneously as their utilization is dependent on each other.
2.	400 kV Kishenpur-Samba D/C line (Quad) (only one circuit is to be terminated at Kishenpur utilizing 1 No. of 400 kV vacated line bay at Kishenpur S/s (formed with bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur) while second circuit would be connected to bypassed circuit of 400 kV Kishtwar – Kishenpur line (Quad))			
3.	Bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad), thus forming 400 kV Kishtwar - Samba (Quad) direct line (one ckt)			
4.	1x80 MVAR Switchable line reactor at Samba end of 400 kV Kishtwar-Samba 400 kV line-165 km (Quad) [formed after bypassing of 400 kV Kishtwar –			



## RFP for Selection of Bidder as Transmission Service Provider

Sl.	Name of the Transmission Element	Scheduled	Percentage of	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
	Kishenpur line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad))			
5.	1x63 MVAr Switchable line reactor on each ckt at Jalandhar end of Kishenpur–Jalandhar D/C direct line - 171km(Twin) (formed after bypassing both ckts of 400 kV Kishenpur – Samba D/C line (Twin) and 400 kV Samba – Jalandhar D/C line (Twin) at Samba and connecting them together to form Kishenpur– Jalandhar D/C direct line (Twin))			
6.	400 kV Samba- Jalandhar D/C line(Quad) (only one circuit is to be terminated at Jalandhar utilizing 1 No. of 400 kV vacated line bay at Jalandhar S/s (formed with bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar) while second circuit would be connected to bypassed circuit of Jalandhar –Nakodar 400 kV line (Quad))			
7.	1x80 MVAr Switchable line reactor at Samba end of Samba –Nakodar direct line (Quad) (187km) formed after bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line(Quad Moose), thus forming Samba –Nakodar line (Quad)			



## RFP for Selection of Bidder as Transmission Service Provider

Sl. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted  COD of the Project	Element(s) which are pre-  (COD) of the Element
8.	Bypassing 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line(Quad Moose), thus forming 400 kV Samba – Nakodar (Quad) direct line			

We agree that the payment of Transmission Charges for any Element irrespective of its successful commissioning on or before its Scheduled COD shall only be considered after the successful commissioning of Element(s) which are pre - required for declaring the commercial operation of such Element as mentioned in the above table.

**Scheduled COD for the Project:** 24 months from the date of SPV Transfer.

9. We confirm that our Financial Bid conforms to all the conditions mentioned in this RFP, and in particular, we confirm that:
  - a. Financial Bid in the prescribed format of Annexure 21 has been submitted duly signed by the authorized signatory.
  - b. Financial Bid is unconditional.
  - c. Only one Financial Bid has been submitted.
10. We have neither made any statement nor provided any information in this Bid, which to the best of our knowledge is materially inaccurate or misleading. Further, all the confirmations, declarations and representations made in our Bid are true and accurate. In case this is found to be incorrect after our acquisition of ..... (Insert the name of SPV), pursuant to our selection as Selected Bidder, we agree that the same would be treated as a TSP's Event of Default under Transmission Service Agreement, and relevant provisions of Transmission Service Agreement shall apply.
11. We confirm that there are no litigations or other disputes against us which materially affect our ability to fulfill our obligations with regard to the Project as per the terms of RFP Project Documents.
12. Power of attorney/ Board resolution as per Clause 2.5.2 is enclosed.



**Signature and name of the authorized signatory of the Company and stamp of Bidding Company or Lead member of Consortium**

**Note:**

1. In case of foreign Bidders, refer to clause 2.5.6 (p)



**Format 2: Details of equity investment in Project**

- 1.1.a Name of the Bidding Company/ Bidding Consortium:
- 1.1.b Name of the Lead Member in the case of a Bidding Consortium:
- 1.2 Investment details of the Bidding Company/Member of the Bidding Consortium investing in ..... (Insert the name of SPV) as per Clause 2.5.8.2.

S. No.	Name of the Bidding Company/ Member in case of a Bidding Consortium	Name of the Company investing in the equity of the ..... (Insert the name of SPV)	Relationship with Bidding Company /Member of the Bidding Consortium	% of equity participation in the ..... (Insert the name of SPV)
(1)	(2)	(3)	(4)	(5)
TOTAL				100%

\* In case the Bidder proposes to invest through its Affiliate(s) / Parent Company / Ultimate Parent Company, the Bidder shall declare shareholding pattern of such Affiliate(s) / Parent Company / Ultimate Parent Company and provide documentary evidence to demonstrate relationship between the Bidder and the Affiliate(s) / Parent Company / Ultimate Parent Company. These documentary evidences could be, but not limited to, demat account statement(s) / Registrar of Companies' (ROC) certification / share registry book, etc duly certified by Company Secretary.

Members of the Consortium or the Bidding Company making investment in the equity of the ..... (Insert the name of SPV) themselves to fill in their own names in the column (3)

**Signature and Name of authorized signatory in whose name power of attorney has been issued**

Signature of authorized signatory

Name: .....

Designation: .....

Date.....

Company rubber stamp



**ANNEXURE 9 -AUTHORISATION FROM PARENT / AFFILIATE OF BIDDING COMPANY / MEMBER OF BIDDING CONSORTIUM WHOSE TECHNICAL / FINANCIAL CAPABILITY HAS BEEN USED BY THE BIDDING COMPANY / MEMBER OF BIDDING CONSORTIUM.**

**[On the Letter Head of the Parent /Affiliate]**

Name: .....  
 Full Address: .....  
 Telephone No.: .....  
 E-mail address: .....  
 Fax / No.: .....

**To**

**Chief Executive Officer,  
 REC Power Development and Consultancy Limited  
 (A wholly owned subsidiary of REC Limited)  
 REC Corporate Head Quarter,  
 D Block, Plot No. I – 4,  
 Sec – 29 Gurugram – 122 001**

Dear Sir,

**Sub: Authorization for use of Technical / Financial Capability of M/s...  
 (Insert name of Parent / Affiliate) by M/s (Insert name of Bidding  
 Company / Member of Bidding Consortium).**

We refer to the RFP dated 26.09.2024 ('RFP') issued by you for selection of Bidder as Transmission Service Provider for establishing the Inter-State Transmission System for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A".

We confirm that M/s. .... (Insert name of Bidding Company/ Consortium Member) has been authorized by us to use our technical and/or financial capability [strikeout whichever is not applicable] for meeting the Qualification Requirements for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A".

We have carefully read and examined in detail the RFP including in particular, Clause 2.1.4 of the RFP, and we are also submitting legally binding undertaking supported by a board resolution that all the equity investment obligations of M/s..... (Insert Name of Bidding Company / Consortium Member), shall be deemed to be our equity investment obligations and in the event of any default the same shall be met by us. For and on behalf of M/s..... (Insert Name of Parent / Affiliate)

.....  
**(Signature and Name of the authorized signatory of the Company and stamp)**





Name: .....  
Date: .....  
Place: .....

**Notes:**

1. The above undertaking can be furnished by Ultimate Parent of Technically Evaluated Entity or Financially Evaluated Entity, as the case maybe, if legally binding undertaking is also furnished by the Ultimate Parent on behalf of such Financially Evaluated Entity/Technically Evaluated Entity.



**ANNEXURE 10- FORMAT OF UNDERTAKING BY TECHNICALLY / FINANCIALLY  
EVALUATED ENTITY / ULTIMATE PARENT COMPANY**

**[On the Letter Head of the Technically / Financially Evaluated Entity / Ultimate Parent  
Company]**

Name:

Full Address: .....

Telephone No.: .....

E-mail address: .....

Fax/No.: .....

**To:**

**Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4,  
Sec – 29 Gurugram – 122 001**

**Sub: Undertaking for equity investment**

Dear Sir,

We refer to the Request for Proposal dated 26.09.2024 ('RFP') issued by you regarding setting up of Inter-State transmission system for "**Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A**" Project on build, own, operate and transfer basis.

We have carefully read and examined in detail the RFP and the RFP Project Documents, including in particular, Clause 2.1.4 of the RFP and Clauses 2.5.2 and 2.5.8 of the RFP, regarding submission of an undertaking regarding the investment in the equity share capital of ..... (Insert the name of SPV) and provisions for minimum equity holding and equity lock-in. We have also noted the amount of the equity investment required to be made in ..... (Insert the name of SPV) by the ..... [Insert the name of the Bidder or the Consortium Member] for the Project.

In view of the above, we hereby undertake to you and confirm that in the event of failure of .....[Insert the name of the Bidder or the Consortium Member] to invest in full or in part, in the equity share capital of ..... (Insert the name of SPV) as specified in the Bid, we shall invest the said amount not invested by.....[Insert the name of the Bidder or the Consortium Member] in ..... (Insert the name of SPV) by purchase of existing shares or subscribing to the new shares of ..... (Insert the name of SPV), as stipulated by you.

We have attached hereto certified true copy of the Board resolution whereby the Board of Directors of our Company has approved issue of this Undertaking by the Company.



All the terms used herein but not defined, shall have the meaning as ascribed to the said terms under the RFP.

Certified as true.

.....  
(Signature and Name of the authorized signatory of the Company and stamp)

**Note:**

1. Wherever required, extract of the charter documents and documents such as a Board resolution should be submitted for verification.



## ANNEXURE 11 - FORMATS FOR BOARD RESOLUTIONS

**Format 1****Format of the Board resolution for the Bidding Company / each Member of the Consortium / investing Affiliate / Parent Company / Ultimate Parent Company, where applicable**

[Reference Clause 2.5.2 of the RFP and the illustrations in Annexure 11A]

[**Note:** The following resolution no.1 needs to be passed by the Boards of each of the entity/(ies) making equity investment]

The Board, after discussion, at the duly convened Meeting on ..... [Insert date], with the consent of all the Directors present and in compliance of the provisions of the Companies Act, 1956/2013, passed the following Resolution:

1. **RESOLVED THAT** pursuant to the provisions of the Companies Act, 1956 / Companies Act 2013 (as the case may be) and compliance thereof and as permitted under the Memorandum and Articles of Association of the company, approval of the Board be and is hereby accorded for investment of.....% (.....per cent) of the total equity share capital of ..... (Insert the name of SPV) representing the entire amount proposed to be invested by the company for the transmission system for **“Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A”**, partly by acquisition of the existing equity shares from [Insert the name of the BPC] and / or partly by subscribing to the new equity shares, as per the terms of the RFP.

[**Note:** Equity investment obligations by the Bidding Company/each Member of the Bidding Consortium/investing Affiliate or Parent or Ultimate Parent should add up to 100%.]

[**Note:** In the event the Bidder is a Bidding Consortium, the following Board resolution no. 2 also needs to be passed by the Lead Member of the Bidding Consortium]

2. **RESOLVED THAT** approval of the Board be and is hereby accorded to contribute such further amount over and above the ..... percentage (\_\_\_%) limit to the extent becoming necessary towards the total equity share in the ..... (Insert the name of SPV), obligatory on the part of the company pursuant to the terms and conditions contained in the Consortium Agreement dated ..... executed by the company as per the provisions of the RFP.

[**Note:** In the event, the investing entity is an Affiliate or Parent or Ultimate Parent of the Bidder, the following Board resolution no. 3 shall also be passed by the Bidder]

3. **FURTHER RESOLVED THAT** the Board hereby acknowledges the Board Resolution(s) passed by the..... [Name of the Affiliate(s)/ Parent / Ultimate Parent] regarding the investment of.....(....%) of the equity share capital requirements of ..... (Insert the name of SPV), which is to be invested by the .....[Name of the Affiliate(s)/ Parent / Ultimate Parent] for the ..... (Insert the name of SPV), partly by acquisition of the existing equity shares from [Name of BPC] and partly by subscribing to the new equity shares, as per the terms of the RFP.

[**Note:** The following resolution no. 4 is to be provided by the Bidding Company / Lead Member of the Consortium only]



4. FURTHER RESOLVED THAT MR/MS .....be and is hereby authorized to take all the steps required to be taken by the Company for submission of the Bid, including in particular, signing of the Bid, making changes thereto and submitting amended Bid, all the documents related to the Bid, certified copy of this Board resolution or letter or undertakings etc, required to be submitted to BPC as part of the Bid or such other documents as may be necessary in this regard.

Certified True Copy

Company rubber stamp to be affixed

**[Notes:**

- 1) This certified true copy should be submitted on the letterhead of the Company, signed by the Company Secretary or any Whole Time Director/ Manager (supported by a specific board resolution) of the Bidding Company or the Lead Member of Consortium.
- 2) The contents of the format may be suitably re-worded indicating the identity of the entity passing the resolution, i.e., the Bidding Company, each Member of the Bidding Consortium.
- 3) This format may be modified only to the limited extent required to comply with the local regulations and laws applicable to a foreign entity submitting this resolution. For example, reference to Companies Act 1956 / Companies Act 2013 (as the case may be) may be suitably modified to refer to the law applicable to the entity submitting the resolution. However, in such case, the foreign entity shall submit an unqualified opinion issued by the legal counsel of such foreign entity, stating that the Board resolutions are in compliance with the applicable laws of the respective jurisdictions of the issuing company and the authorizations granted therein are true and valid.]



**Format 2****Format for the Board resolution of Technically / Financially Evaluated Entity / Ultimate Parent Company (in case credentials of such TEE/ FEE has been utilized by the Bidding Company or Bidding Consortium)**

The Board, after discussion, at the duly convened Meeting on ..... [Insert date], with the consent of all the Directors present and in compliance of the provisions of the Companies Act, 1956 / 2013, passed the following Resolution:

**RESOLVED THAT** pursuant to the provisions of the Companies Act, 1956 / Companies Act, 2013 (as the case may be) and compliance thereof and as permitted under the Memorandum and Articles of Association of the company, approval of the Board be and is hereby accorded for issuing an Undertaking to the BPC, in the format specified in the RFP issued by the BPC, draft of which is attached hereto and initialed by the Chairman whereby the company undertakes to invest .....percent (... %) of the total equity share capital of ..... (Insert the name of SPV) representing the entire amount proposed to be invested by .....[insert the name of the Bidder or Member] for the said Project, in case of failure of .....[Insert the name of the Bidder or Member] to make such investment".

**FURTHER RESOLVED THAT** .....,be and is hereby authorized to take all the steps required to be taken by the Company, including in particular, signing the said Undertaking, submitting the same to the BPC through .....[Insert name of Bidding Company/Lead Member of the Consortium] of all the related documents, certified copy of this Board resolution or letter, undertakings etc, required to be submitted to BPC as part of the Bid or such other documents as may be necessary in this regard.

**Certified True Copy****Company rubber stamp to be affixed****Note:**

1. This certified true copy should be submitted on the letterhead of the Company, signed by the Company Secretary or any Whole-time Director/Manager (supported by a specific board resolution) of Bidding Company or Lead Member of the Consortium.
2. The contents of the format may be suitably re-worded indicating the identity of the entity passing the resolution.
3. This format may be modified only to the limited extent required to comply with the local regulations and laws applicable to a foreign entity submitting this resolution. For example, reference to Companies Act 1956 / Companies Act 2013 (as the case may be) may be suitably modified to refer to the law applicable to the entity submitting the resolution. However, in such case, the foreign entity shall submit an unqualified opinion issued by the legal counsel of such foreign entity, stating that the Board resolutions are in compliance with the applicable laws of the respective jurisdictions of the issuing company and the authorizations granted therein are true and valid.





**ANNEXURE 11A – ILLUSTRATION FOR APPLICABLE BOARD RESOLUTION REQUIREMENTS UNDER CLAUSE 2.5.2**

<b>Investor in the TSP</b>	<b>Entities (other than Bidder) whose credentials (financial and/or technical) used by the Bidder for meeting RFP criteria</b>	<b>Applicable Board Resolutions</b>	<b>Requirement of Undertaking (Annexure 10)</b>
Bidder himself for 100% equity	None	a) Format 1 of Annexure 11 - Resolution: 1, 2 and 4 from the Bidder	None
Bidder himself for 100% equity	Affiliate and/or Parent Company and/or Ultimate Parent	a) Format 1 of Annexure 11 - Resolution: 1, 2, and 4 from the Bidder  b) Format 2 of Annexure 11 by either Technically/ Financially Evaluated Entity(ies) whose credentials have been used, or Ultimate Parent.  Provided, if the Bidder himself is the Ultimate Parent, then Format 2 need not be provided.	Yes, by either Technically / Financially Evaluated Entity(ies) Affiliate(s) whose credentials have been used, or Ultimate Parent.  Provided, if the Bidder himself is the Ultimate Parent, then the undertaking need not be provided.
Bidder himself + others (Affiliate and/or Parent Company and/or Ultimate Parent) in aggregate holding 100% equity	None	a) Format 1 of Annexure 11 - Resolution: 1,2, 3 and 4 from the Bidder.  b) Format 1 of Annexure 11 - Resolution: 1 from the Affiliate and /or Parent and /or Ultimate Parent investing in the equity	None
Bidder himself + others (Affiliate and/or Parent Company and/or Ultimate Parent)	Affiliate and/or Parent Company and/or Ultimate Parent	a) Format 1 of Annexure 11 - Resolution: 1,2, 3 and 4 from the Bidder. b) Format 1 of Annexure 11 - Resolution: 1 from the Affiliate and/or Parent	Yes, by either Parent/ Affiliate(s) whose credentials have been used, or Ultimate Parent

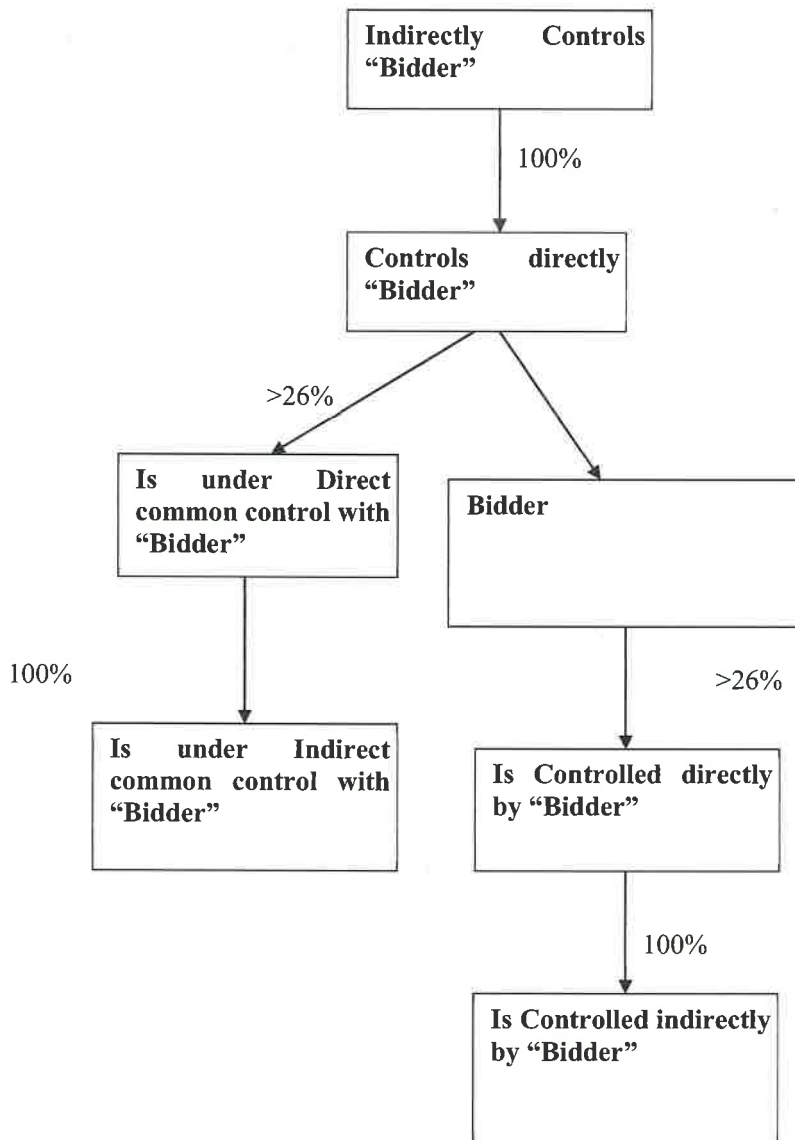


## RFP for Selection of Bidder as Transmission Service Provider

Investor in the TSP	Entities (other than Bidder) whose credentials (financial and/or technical) used by the Bidder for meeting RFP criteria	Applicable Board Resolutions	Requirement of Undertaking (Annexure 10)
Parent) in aggregate holding 100% equity		and/or Ultimate Parent investing in the equity c) Format 2 of Annexure 11 by either Parent / Affiliate(s) whose credentials have been used and /or Ultimate Parent investing in the equity	



ANNEXURE 12 - FORMAT FOR ILLUSTRATION OF AFFILIATES



**NOTE:** Bidder to provide the illustration, as applicable in their case, duly certified by the Company Secretary and supported by documentary evidence in this regard.



**ANNEXURE 13 - FORMAT FOR DISCLOSURE****[On the letter head of Bidding Company / Each Member in a Bidding Consortium]****Date:****DISCLOSURE**

We hereby declare that the following companies with which we/ have direct or indirect relationship are also separately participating in this Bid process as per following details

S. No.	Name of the Company	Relationship
1.		
2.		
3.		

In case there is no such company please fill in the column "name of the company" as Nil.

Further we confirm that we don't have any Conflict of Interest with any other company participating in this bid process.

**Certified as True**

.....  
(Signature)

**Name:****Signature & Name of authorized signatory of the Company and Stamp**

The above disclosure should be signed and certified as true by the authorized signatory of the Bidding Company or of the Member, in case of a Consortium).



## ANNEXURE 14 - FORMAT OF THE BID BOND

**FORMAT OF THE UNCONDITIONAL AND IRREVOCABLE BANK  
GUARANTEE FOR BID BOND**

**(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to  
place of execution.)**

In consideration of the [Insert name of the Bidder] submitting the Bid inter alia for establishing the Inter-State transmission system for [Name of Project] on build, own, operate and transfer basis, in response to the RFP dated \_\_\_\_\_ issued by [Name of BPC], and the Bid Process Coordinator (hereinafter referred to as BPC) agreeing to consider such Bid of ..... [Insert the name of the Bidder] as per the terms of the RFP, the [Insert name and address of the bank issuing the Bid Bond, and address of the Head Office] (hereinafter referred to as "Guarantor Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to [Name of BPC] or its authorized representative at \_\_\_\_\_ [Address of BPC] forthwith on demand in writing from [Name of BPC] or any representative authorized by it in this behalf, any amount up to and not exceeding Rupees \_\_\_\_\_ Only (Rs \_\_\_\_\_ Crore), on behalf of M/s.....[Insert name of the Bidder].

This guarantee shall be valid and binding on the Guarantor Bank up to and including ..... [Date to be inserted on the basis of Clause 2.11 of this RFP] and shall not be terminable by notice or any change in the constitution of the Guarantor Bank or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between concerned parties.

Our liability under this Guarantee is restricted to Rupees \_\_\_\_\_ Only (Rs \_\_\_\_\_ Crore). Our Guarantee shall remain in force until .....[Date to be inserted on the basis of Clause 2.11 of this RFP]. [Name of BPC] or its authorized representative shall be entitled to invoke this Guarantee until ..... [Insert Date, which is three sixty five days (365) days after the date in the preceding sentence]. The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from [Name of BPC] or its authorized representative, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to [Name of BPC] or its authorized representative.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection, disputes, or disparities raised by the Bidder or any other person. The Guarantor Bank shall not require [Name of BPC] or its authorized representative to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against [Name of BPC] or its authorized representative in respect of any payment made hereunder.

This BANK GUARANTEE shall be interpreted in accordance with the laws of India.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.



This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly [Name of BPC] or its authorized representative shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the Bidder, to make any claim against or any demand on the Bidder or to give any notice to the Bidder to enforce any security held by [Name of BPC] or its authorized representative or to exercise, levy or enforce any distress, diligence or other process against the Bidder.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rupees Only (Rs \_\_\_\_ Crore) and it shall remain in force until ..... [Date to be inserted on the basis of Clause 2.11 of RFP], with an additional claim period of three hundred sixty five (365) days thereafter. We are liable to pay the guaranteed amount or any part thereof under this BANK GUARANTEE only if [Name of BPC] or its authorized representative serves upon us a written claim or demand.

In witness whereof the Bank, through its authorized officer, has set its hand and stamp on this..... day of ..... at.....

**Witness:**

1.....  
Name and Address

Signature: .....  
Name: .....

2. ....  
Name and Address

Designation with Stamp:

Signature .....

Attorney as per power of attorney

No.....

For:  
..... [Insert Name of the Bank]

**Banker's Stamp and Full Address:**

Dated this.....day of..... 20.....

**Notes:**

1. The Stamp Paper should be in the name of the Executing Bank.





~~ANNEXURE 14 A - FORMAT OF THE BID SECURITY DECLARATION [VALID  
TILL RFP ISSUED ON OR BEFORE 31.12.2021]~~



**ANNEXURE 15 - FORMAT FOR CONTRACT PERFORMANCE GUARANTEE**

**(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.**

**Foreign entities submitting Bids are required to follow the applicable law in their country)**

In consideration of the ..... [Insert name of the SPV or Selected Bidder on behalf of SPV or Lead Member in case of the Consortium, with address] agreeing to undertake the obligations under the Transmission Service Agreement dated ..... and the other RFP Project Documents and the Nodal Agency and ..... [Name of BPC], agreeing to execute the RFP Project Documents with the Selected Bidder, regarding setting up the Project, the.....[Insert name and address of the bank issuing the guarantee and address of the head office] (hereinafter referred to as "Guarantor Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to the Nodal Agency at..... [Insert Place and Address of the Nodal Agency indicated in TSA] forthwith on demand in writing from the Nodal Agency or any Officer authorized by it in this behalf, any amount up to and not exceeding Rupees.....Crores (Rs.....) only [Insert the amount of the bank guarantee] on behalf of M/s..... [Insert name of the Selected Bidder / SPV].

This guarantee shall be valid and binding on the Guarantor Bank up to and including .....and shall not be terminable by notice or any change in the constitution of the Bank or the term of the Transmission Service Agreement or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to Rupees ..... Crores (Rs.....) only. Our Guarantee shall remain in force until..... [Insert the date of validity of the Guarantee as per Clause 2.12.1 of the RFP]. The Nodal Agency shall be entitled to invoke this Guarantee up to three hundred sixty five (365) days of the last date of the validity of this Guarantee.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from the Nodal Agency, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to the Nodal Agency.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by ..... [Name of SPV], ..... [Insert name of the Selected Bidder], ..... [Insert name of the TSP] and/or any other person. The Guarantor Bank shall not require the Nodal Agency to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against the Nodal Agency in respect of any payment made hereunder.

**This BANK GUARANTEE shall be interpreted in accordance with the laws of India.**

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.



**This BANK GUARANTEE** shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Guarantor Bank.

**This BANK GUARANTEE** shall be a primary obligation of the Guarantor Bank and accordingly the Nodal Agency shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against [Name of SPV] or the Selected Bidder, to make any claim against or any demand on [Name of SPV] or the Selected Bidder, as the case may be, or to give any notice to [Name of SPV] or the Selected Bidder, as the case may be, or to enforce any security held by the Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against ..... [Name of SPV] or the Selected Bidder, as the case may be.

The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to the Nodal Agency and may be assigned, in whole or in part, (whether absolutely or by way of security) by Nodal Agency to any entity to whom the Nodal Agency is entitled to assign its rights and obligations under the Transmission Service Agreement.

The Guarantor Bank hereby agrees and acknowledges that the Nodal Agency shall have a right to invoke this Bank Guarantee either in part or in full, as it may deem fit.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rupees .....Crores (Rs .....) only and it shall remain in force until [Date to be inserted on the basis of Article 3.1.2 of TSA], with an additional claim period of three hundred sixty five (365) days thereafter. This BANK GUARANTEE shall be extended from time to time for such period, as may be desired by..... [Insert name of the Selected Bidder or Lead Member in case of the Consortium or SPV]. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if the Nodal Agency serves upon us a written claim or demand.

**In witness where of:**

Signature.....

Name:

Power of attorney No.: .....

**For:**

..... [Insert Name of the Bank]

Banker's Seal and Full Address, including mailing address of the Head Office

**Notes:**

1. The Stamp Paper should be in the name of the Executing Bank.



### ANNEXURE 16 – FORMAT OF CHECKLIST FOR TECHNICAL BID SUBMISSION REQUIREMENTS

[This format needs to be duly filled in, signed by the authorized signatory of the Bidder (Bidding Company / Lead Member in case of a Bidding Consortium) and submitted along with the Bidder's Technical Bid]

Technical Bid Submission Requirements	Response (Yes / No)
<ol style="list-style-type: none"> <li>1. Format for the Covering Letter on the letterhead of Bidding Company or Lead Member of the Consortium, as applicable;</li> <li>2. Format for Letter of Consent from each Consortium Member, including Lead Member, on their respective letterheads;</li> <li>3. Format for evidence of authorized signatory's authority;</li> <li>4. Board resolution from the Bidding Company / Lead Member of the Consortium in favour of the person executing the Power of Attorney as per <b>Annexure 3</b>;</li> <li>5. Power of Attorney from each Consortium Member in favour of Lead Member to be provided by each of the other Members of the Consortium as per <b>Annexure 4</b>;</li> <li>6. Board Resolution from each Member of the Consortium, other than the Lead Member, in favour of their respective authorized representatives for executing the POA, Consortium Agreement and signing of the requisite formats;</li> <li>7. Format for Bidder's composition and ownership structure, along with status of equity holding (owning ten percent or more of the total paid up equity) not earlier than thirty (30) days prior to the Bid Deadline as per <b>Annexure 5</b>;</li> <li>8. Consortium Agreement duly signed as per <b>Annexure 6</b>, along with Appendix-1, indicating the responsibilities and obligations of each Member of the Consortium;</li> <li>9. Format for Qualification Requirement:               <ol style="list-style-type: none"> <li>a. Calculation sheets, detailing computation of Networth considered for meeting Qualifying Requirements, duly signed and stamped by the Statutory Auditor of the Bidding Company / each Member in case of a Bidding Consortium / FEE in cases where credentials of FEE is taken;</li> <li>b. Calculation sheets, detailing computation of capital expenditure of projects and revenue received in construction projects considered for meeting Qualification Requirements, duly signed and stamped by the Statutory Auditor of the Bidding Company / Lead Member in case of Bidding Consortium / TEE in cases where credentials of TEE is taken;</li> </ol> </li> </ol>	



Technical Bid Submission Requirements	Response (Yes / No)
<p>c. Last financial year unconsolidated / consolidated audited annual accounts / statements, as the case may be, of the Financially Evaluated Entity / Technical Evaluated Entity</p> <p>d. Unconsolidated audited annual accounts of both the TEE and the Bidding Company/Lead member, as applicable, from the financial years in which financial closure was achieved till the financial year in which the said project was completed / commissioned.</p> <p>10. Copy of the Memorandum and Articles of Association and certificate of incorporation or other organizational document (as applicable), including their amendments, certified by the Company Secretary of Bidding Company or each Member in case of a Consortium including Lead Member.</p> <p>11. Attachment of <b>Annexure 7(D)</b>, detailing projects completed / commissioned and for which commercial operation has commenced including Executive Summary for each project.</p> <p>12. For each project listed in the attachment above, certified true copy of the certificates of final acceptance and / or certificates of good operating performance duly issued by owners or clients for the project, duly signed by authorized signatory in support of technical capability as defined in Clause 2.1.2 of RFP.</p> <p>13. Authority letter in favour of BPC from the Bidder/every Member of the Consortium authorizing the BPC to seek reference from their respective bankers &amp; others.</p> <p>14. Authorization from Parent / Affiliate of Bidding Company / Member of Bidding Consortium whose technical / financial capability has been used by the Bidding Company / Member of Bidding Consortium.</p> <p>15. Initialing of all pages of Technical Bid by the Authorized Signatory in whose favour the POA (<b>Annexure 3</b>) has been executed.</p> <p>16. Format for Illustration of Affiliates at the most seven (7) days prior to the Bid Deadline, duly certified by Company Secretary and supported by documentary evidence.</p> <p>17. Certified copy of the Register of Members / Demat Account Statement, Share Certificate, Annual Return filed with ROC etc. submitted as documentary evidence along with <b>Annexure 12</b>.</p> <p>18. Format for Disclosure by Bidding Company / each Member of the Consortium.</p> <p>19. Format for Affidavit by the Bidding Company / each Member of the Consortium</p>	



Technical Bid Submission Requirements	Response (Yes / No)
20. Format for Authorization submitted in Non-Judicial stamp paper duly notarized.	
21. Bidders Undertaking and details of Equity Investment 22. Proof of Payment of RFP Fees 23. Bid Bond/ <del>Bid Security Declaration</del> (As applicable) 24. Board Resolution as per Annexure 11 (If required)	

[Note: The checklist is not exhaustive. Bidders are required to submit all the information/documents as per requirement of RFP]

**For and on behalf of Bidder**

M/s. ....

.....  
(Signature of authorized signatory)



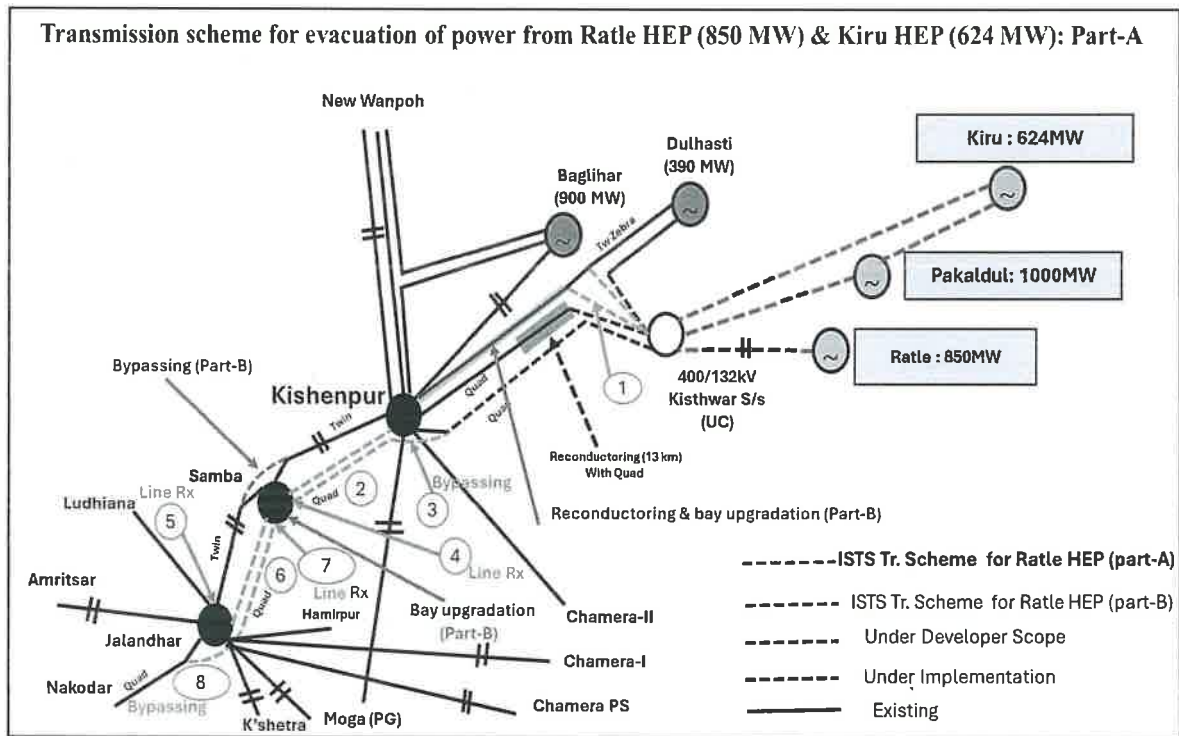


**ANNEXURE 17 – LIST OF BANKS**

All Scheduled Commercial Banks as per Second Schedule of RBI Act-1934 and any amendments thereof.



ANNEXURE 18 - GRID MAP OF THE PROJECT



**Fig-1: Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A**



**ANNEXURE 19 - FORMAT FOR CLARIFICATIONS / AMENDMENTS ON THE RFP / RFP PROJECT DOCUMENTS**

S. No.	Name of the Document	Clause No. and Existing provision	Clarification required	Suggested text for the amendment	Rationale for the Clarification or Amendment

Signature .....

Name.....

For

**Bidder’s Rubber Stamp and Full Address.**

(Note: This format shall be used for submission of requests for clarifications/ amendments on the draft RFP Project Documents as per the provisions of Clause 2.3.1)



**ANNEXURE 20 - LIST FOR RFP PROJECT DOCUMENTS**

**ENCLOSURE 1: TRANSMISSION SERVICE AGREEMENT (Provided separately)**

**ENCLOSURE 2: SHARE PURCHASE AGREEMENT (Provided Separately)**



**ANNEXURE 21 - FORMAT FOR FINANCIAL BID****[To be uploaded online]****Quoted Transmission Charges****Notes**

1. The Bidders are required to ensure compliance with the provisions of Clause 2.5.3 of this RFP.
2. Quotes to be in Rupees Millions and shall be up to two (2) decimal points.
3. The contents of this format shall be clearly typed.
4. The Financial Bid shall be digitally signed by the authorized signatory in whose name power of attorney as per Clause 2.5.2 is issued.
5. Ensure only one value for annual Transmission Charges is quoted. The same charge shall be payable every year to TSP for the term of TSA.



**ANNEXURE 22 – FORMAT FOR AFFIDAVIT**

**[On non-judicial stamp paper. Foreign companies submitting bids are required to follow the applicable law in their country]**

**AFFIDAVIT**

We [including any of our Affiliate and Consortium Member & any of its Affiliate], hereby declare that as on Bid Deadline:

- a. the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate, their directors or key personnel have not been barred or included in the blacklist by any government agency or authority in India, the government of the jurisdiction of the Bidder or Members where they are incorporated or the jurisdiction of their principal place of business, any international financial institution such as the World Bank Group, Asian Development Bank, African Development Bank, Inter-American Development Bank, Asian Infrastructure Investment Bank etc. or the United Nations or any of its agencies; or
- b. the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate or their directors have not been convicted of any offence in India or abroad.

We further declare that following investigations are pending / no investigation is pending [strike off whichever is not applicable] against us [including any of our Consortium Member or Affiliate or Parent or Ultimate Parent or Affiliate] or CEO or any of our directors/ manager/key managerial personnel of the Applicant /Consortium Member or their Affiliates.

We further undertake to inform the BPC of any such matter as mentioned above on its occurrence after the date of this affidavit till the Effective Date.

We undertake that, in case, any information provided in relation to this affidavit is found incorrect at any time hereafter, our BID / Letter of Intent / contract (if entered) would stand rejected / recalled / terminated, as the case may be.

.....  
Signature and Name of the authorized signatory of the Company Bidding Company / Lead Member of the Bidding Consortium

.....  
(Signature of Notary Public)

Place: .....

Date: .....

Note: In case any investigation is pending against the Applicant, including any Consortium Member or Affiliate, or CEO or any of the directors/ manager/key managerial personnel of the





Applicant /Consortium /Member or their Affiliates, full details of such investigation including the name of the investigating agency, the charge/offence for which the investigation has been launched, name and designation of persons against whom the investigation has been launched and other relevant information should be disclosed under this affidavit.



**ANNEXURE A****Technical Details with respect to electronic bidding****Registration Methodology**

In order to submit online bids in the e-bidding process for selection of Transmission Service Provider, interested Bidders are required to register themselves with the e-procurement website of MSTC Limited namely [www.mstcecommerce.com/eprochome/tsp/index.jsp](http://www.mstcecommerce.com/eprochome/tsp/index.jsp). To register with the website, the Bidder is required to fill up the online form available under the link Register as Vendor in the above website and fill up the same and click on Submit.

During this process, the bidder shall create his user id and password and keep note of the same. The bidder shall ensure that the secrecy of his user id and password is maintained at all time and he/she shall alone be responsible for any misuse of the user id and password.

The bidder may check the details entered by it before final submission. On successful submission of the online registration Form, the bidder shall receive a confirmation mail in the registered email address advising the bidder to submit the following documents.

- i. Self-attested Income Tax PAN Card. In case of a registered Company or Firm, the Firm's PAN card and in case of a proprietorship firm, proprietor's personal PAN card is required. In case of partnership firm, PAN of the firm and that of the authorized partner are to be submitted.
- ii. Copy of the confirmation email Letter received from MSTC after successful completion of on-line registration.
- iii. A non-refundable registration fee of Rs 10,000/- plus applicable GST to be paid online.

Please provide details of payment made like UTR No, remitting bank name, date of payment and amount in the covering letter.

The bidder shall have to submit all the above documents to MSTC Limited for verification and activation of their login ids. The bidders should send scanned copies of the above documents to the designated email id only which is given below.

**[tsp@mstcindia.co.in](mailto:tsp@mstcindia.co.in)**

It may be noted that bidders need not visit any of the offices of MSTC Limited for submission of the documents.

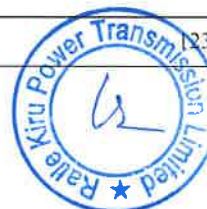
Contact persons of MSTC Limited:

**Mr. Setu Dutt Sharma, 7878055855**

Once the complete set of documents and requisite registration fee are received from a bidder, MSTC shall activate the bidder's login after verification / scrutiny of the documents. MSTC Limited reserves the right to call for additional documents from the bidder if needed and the bidder shall be obliged to submit the same.

On completion of the above stated registration process, a bidder shall be able to login to MSTC's website.

REC Power Development and Consultancy Limited



## ANNEXURE B

### Draft Pre-Award Integrity Pact

#### GENERAL

This pre-bid contract Agreement (herein after called the Integrity Pact) is made on ..... day of the month of ..... 20....., between, on one hand, ..... [Insert name of BPC] through Shri ..... [Insert Name & designation of representative of BPC] (hereinafter called the "Bid Process Coordinator/ BPC", which expression shall mean and include, unless the context otherwise requires, his successors in the office and assigns) of the First Part and M/s ..... represented by Shri ..... [Insert Name & Designation of Authorized Signatory of the Bidder/ Lead Member of Consortium] (hereinafter called the "Bidder" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BPC is conducting the bidding process for selection of bidder as Transmission Service Provider (TSP) for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A " who will be responsible to set up the transmission project on build, own, operate and transfer (BOOT) basis and to provide Transmission Service.

WHEREAS the Bidder is a Private Company/Public Company/Government Undertaking/ Partnership, constituted in accordance with the relevant law in the matter and the BPC is a Public Sector Undertaking (PSU) performing its function on behalf of the Ministry of Power, Government of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings during the complete bidding process with a view to:-

Enabling the BPC to select the bidder as TSP in conformity with the defined procedures by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling Bidder to abstain from bribing or indulging in any corrupt practice in order to emerge as selected bidder by providing assurance to them that their competitors will also abstain from bribing and other practices and the BPC will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:



**Commitments of BPC**

- 1.1 The BPC undertakes that no official of the BPC, connected directly or indirectly with the bidding process, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the bidding process in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
- 1.2 The BPC will, during the bidding stage, treat all bidders alike, and will provide to all bidders the same information and will not provide any such information to any particular bidder which could afford an advantage to that particular bidder in comparison to the other bidders.
- 1.3 All the officials of the BPC will report the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
- 2 In case of any such preceding misconduct on the part of such official(s) is reported by the Bidder to the BPC with the full and verifiable facts and the same is prima facie found to be correct by the BPC, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BPC and such a person shall be debarred from further dealings related to the bidding process. In such a case while an enquiry is being conducted by the BPC the proceedings under the bidding process would not be stalled.

**Commitments of Bidder**

- 3 The Bidder commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre award stage in order to emerge as Selected Bidder or in furtherance to secure it and in particular commits itself to the following: -
  - 3.1 The Bidder will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BPC, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the bidding process in exchange for any advantage in the bidding, evaluation, contracting and implementation of the bidding process.
  - 3.2 The Bidder further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement



to any official of the BPC or otherwise in bidding process or for bearing to do or having done any act in relation to bidding process or any other contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the bidding process or any other contract with the Government.

- 33 The Bidder shall disclose the name and address of agents and representatives and Indian Bidder shall disclose their foreign principals or associates.
- 34 The Bidder shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid.
- 35 The Bidder further confirms and declares to the BPC that the Bidder has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BPC or any of its functionaries, whether officially or unofficially for selection of Bidder as TSP, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
- 36 The Bidder, either while presenting the bid or during pre-award negotiations or before signing the Share Purchase Agreement, shall disclose any payments he has made, is committed to or intends to make to officials of the BPC or their family members, agents, brokers or any other intermediaries in connection with the bidding process and the details of services agreed upon for such payments.
- 37 The Bidder will not collude with other parties interested in the bidding process to impair the transparency, fairness and progress of the bidding process.
- 38 The Bidder will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 39 The Bidder shall not use improperly, for purpose of competition or personal gain, or pass on to others, any information provided by the BPC as part of the business relationship, regarding plans, technical proposal and business details, including information contained in any electronic data carrier. The Bidder also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.10 The Bidder commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11 The Bidder shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.12 The Bidder shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BPC.



**4 Previous Transgression**

- 4.1 The Bidder declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify Bidder's exclusion from the bidding process.
- 4.2 The Bidder agrees that if it makes incorrect statement on this subject, Bidder can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

**5 Bid Bond (Security Deposit)**

- 5.1 Along with the technical bid, the Bidder shall submit Bid Bond for an amount of Rs. .... (as per the amount specified in Request for Proposal (RFP) Document) issued by ..... [Insert Name of the Banks from the list provided in RFP Document] as Earnest Money/Security Deposit, with the BPC.
- 5.2 The Earnest Money/Security Deposit shall be valid & retained by the BPC for such period as specified in the RFP Document.
- 5.3 No interest shall be payable by the BPC to the Bidder on Earnest Money/Security Deposit for the period of its currency.

**6 Sanctions for Violations**

- 6.1 Any breach of the aforesaid provisions by the Bidder or any one employed by it or acting on its behalf (whether with or without the knowledge of the Bidder) shall entitle the BPC to take all or anyone of the following actions, wherever required: -
- (i) To immediately call off the pre-award negotiations without assigning any reason or giving any compensation to the Bidder. However, the proceedings with the other Bidder (s) would continue.
  - (ii) The Bid Bond (in pre-award stage) shall stand forfeited either fully or partially, as decided by the BPC and the BPC shall not be required to assign any reason therefore.
  - (iii) To immediately cancel the award, if already awarded, without giving any compensation to the Bidder.
  - (iv) To cancel all or any other contracts with the Bidder. The Bidder shall be liable





to pay compensation for any loss or damage to the BPC resulting from such cancellation/rescission.

(v) To debar the Bidder from participation in any tender or RFP issued by any BPC for an indefinite period.

(vi) To recover all sums paid in violation of this Pact by Bidder to any middleman or agent or broker with a view to securing the award.

62 The BPC will be entitled to take all or any of the actions mentioned at para 6.1 (i) to (vi) of this Pact also on the Commission by the Bidder or anyone employed by it or acting on its behalf (whether with or without the knowledge of the Bidder), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

63 The decision of the BPC to the effect that a breach of the provisions of this Pact has been committed by the Bidder shall be final and conclusive on the Bidder. However, the Bidder can approach the Independent Monitor(s) appointed for the purposes of this Pact.

#### 7. Independent Monitors

7.1 The BPC has appointed Independent Monitors (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission (Names and Addresses of the Monitors to be given).

7.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

7.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

7.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.

7.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BPC.

7.6 The Bidder accepts that the Monitors has the right to access without restriction to all Project documentation of the BPC including that provided by the Bidder. The Monitor shall be under contractual obligation to treat the information and documents of the



Bidder /Subcontractors(s) with confidentially. [As all the bid documents are with BPC only]

- 7.7 The BPC will provide to the Monitors sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the monitor the option to participate in such meetings.
- 7.8 The Monitor will submit a written report to the designated Authority of the BPC/Secretary in the Department within 8 to 10 weeks from the date of reference or intimation to him by the BPC / Bidder and, should the occasion arise, submit proposals for correcting problematic situations.

#### **8 Facilitation of Investigation**

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BPC or its agencies shall be entitled to examine all the documents including the Books of Accounts of the Bidder and the Bidder shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

#### **9 Law and Place of Jurisdiction**

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BPC.

#### **10 Other Legal Actions**

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the any extent law in force relating to any civil or criminal proceedings.

#### **11 Validity**

- 11.1 The validity of this Integrity Pact shall be from date of its signing and upto 6 months from the date of transfer of project specific SPV i.e. signing of Share Purchase Agreement with BPC. In case Bidder is unsuccessful, this Integrity Pact shall expire after 15 days from the date of transfer of project specific SPV to successful bidder.
- 11.2 Should one or several provisions of this Pact turn out to be invalid, the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

- 12 The Parties hereby sign this Integrity Pact at \_\_\_\_\_ on \_\_\_\_\_

REC Power Development and Consultancy Limited

129



<b>Bid Process Coordinator (BPC)</b>  Name of the Officer Designation Name of the BPC with address  Witness:  1. _____  2. _____	<b>BIDDER</b>  Name of Whole time Director/Authorized Signatory Name of the Bidder with address  Witness:  1. _____  2. _____
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## ANNEXURE C

### Technical Specifications of Transmission System

#### SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINE

- A.1.0 The design, routing and construction of transmission lines shall be in accordance with Chapter V, Part-A of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time. Other CEA Regulations and MoP guidelines, as applicable, shall also be followed.

The technical parameters indicated in this document are applicable for up to an altitude of 1000 m above mean sea level. However, altitude exceeding 1000 m above mean sea level, necessary altitude correction factor (as applicable) as per relevant standard shall be considered by the TSP.

- A.2.0 Selection of tower type shall be made as per CEA Regulations, however in case lattice type towers are used, the following shall also be applicable:
- A.2.1 Steel section of grade E 250 and/or grade E 350 as per IS 2062, only are permitted for use in towers, extensions, gantry structures and stub setting templates. For towers in snowbound areas, steel sections shall conform to Grade-C of IS-2062.
- A.2.2 Towers shall be designed as per IS-802:2015, however the drag coefficient of the tower shall be as follows: -

Solidity Ratio	Drag Coefficient
Up to 0.05	3.6
0.1	3.4
0.2	2.9
0.3	2.5
0.4	2.2
0.5 and above	2.0

- A.3.0 Transmission Service Provider (TSP) shall adopt any additional loading/design criteria for ensuring reliability of the line, if so desired and /or deemed necessary.
- A.4.0 Transmission line shall be designed considering wind zones as specified in wind map given in National Building Code 2016, Vol.1. The developer shall also make his own assessment of local wind conditions and frequent occurrences of high intensity winds (HIW) due to thunderstorms, dust-storms, downburst etc. along the transmission line route and wherever required, higher wind zone than that given in wind map shall be considered for tower design for ensuring reliability of line. Further, for the transmission line sections passing within a distance of 50 km from the boundary of two wind zones, higher of the two wind zones shall be considered for the design of towers located in such sections.



- A.5.0 Selection of reliability level for design of tower shall be as per CEA Regulation (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.
- A.6.0 A) For power line crossing of 400 kV or above voltage level, large angle and dead end towers (i.e. D/DD/QD) shall be used on either side of power line crossing.
- B) For power line crossing of 132 kV and 220 kV voltage level, angle towers (B/C/D/DB/DC/DD/ QB/QC/QD) shall be used on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.
- C) For power line crossing of 66 kV and below voltage level, suspension/tension towers shall be provided on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.
- D) For crossing of railways, national highways and state highways, the rules/regulations of appropriate authorities shall be followed.
- A.7.0 (a) The relevant conductor configuration shall be as follows: -

**Type of conductor: ACSR / AAAC / AL59**

**Basic parameters:**

Transmission line	ACSR Conductor specified	Equivalent AAAC conductor based on 53% conductivity of Al Alloy	Equivalent minimum size of AL59 conductor based on 59% conductivity of AL Alloy*	Sub-conductor Spacing
400 kV D/C (Quad Bundle) Transmission lines	<p><b>Moose: Stranding</b> 54/3.53 mm-Al + 7/3.53 mm-Steel, 31.77 mm diameter</p> <p>528.5 mm<sup>2</sup>, Aluminium area,</p> <p>Maximum DC Resistance at 20°C (Ω/km): 0.05552</p> <p>Minimum UTS: 161.20 kN</p>	<p><b>Stranding details:</b> 61/3.55 mm 31.95 mm diameter;</p> <p>604 mm<sup>2</sup> Aluminium alloy area</p> <p>Maximum DC Resistance at 20°C (Ω/km): 0.05506</p> <p>Minimum UTS: 159.80 kN</p>	<p><b>Stranding details:</b> 61/3.31 mm 29.79 mm diameter;</p> <p>525 mm<sup>2</sup> Aluminium alloy area</p> <p>Maximum DC Resistance at 20°C (Ω/km): 0.0566</p> <p>Minimum UTS: 124.70 kN</p>	457 mm



Transmission line	ACSR Conductor specified	Equivalent AAAC conductor based on 53% conductivity of Al Alloy	Equivalent minimum size of AL59 conductor based on 59% conductivity of AL Alloy*	Sub-conductor Spacing
400 kV D/C (Twin Bundle) Transmission lines	<p><b>Zebra:</b> Stranding 54/3.18 mm-Al + 7/3.18 mm-Steel,</p> <p>28.62 mm diameter;</p> <p>428 mm<sup>2</sup> Aluminium area,</p> <p>Maximum DC Resistance at 20°C (Ω/km): 0.06868</p> <p>Minimum UTS: 130.32 kN</p>	<p><b>Stranding details:</b> 61/3.19 mm,</p> <p>28.71 mm diameter;</p> <p>487.5 mm<sup>2</sup> Aluminium alloy area</p> <p>Maximum DC Resistance at 20°C (Ω/km): 0.06815</p> <p>Minimum UTS: 135.6 kN</p>	<p><b>Stranding details:</b> 61/3.08 mm,</p> <p>27.72 mm diameter;</p> <p>454 mm<sup>2</sup> Aluminium alloy area</p> <p>Maximum DC Resistance at 20°C (Ω/km): 0.0653</p> <p>Minimum UTS: 108 kN</p>	450 mm

**Note:**

- \*To select any size above the minimum, the sizes mentioned in the Indian standard IS-398 (part-6) should be followed.
- The transmission lines shall have to be designed for a maximum operating conductor temperature of 85 °C.

**(b) Type of conductor: HTLS (High Temp and Low Sag)**

Transmission Line	Basic parameter of single conductor			Sub-conductor Spacing (mm)
	Minimum Ampacity of HTLS conductor	Minimum Conductor diameter (mm)	Maximum DC Resistance at 20°C (Ω/km)	
400 kV Transmission line with Twin HTLS conductor	1516 A	28.62	0.05552	450





- A.8.0 The required phase to phase spacing and horizontal spacing for 400 kV line(s) shall be governed by the tower design as well as minimum live metal clearances for 400 kV voltage level under different insulator swing angles. However, the phase to phase spacing for 400 kV lines shall not be less than 8 m respectively.
- A.9.0 All electrical clearances including minimum live metal clearance, ground clearance and minimum mid span separation between earth wire and conductor as given below shall be considered:

**Minimum live metal clearances for 400 kV line:**

- a) (i) Under stationary conditions:

**From tower body: 3.05 m**

- (ii) Under Swing conditions

Wind Pressure Condition	Minimum Electrical Clearance
a) Swing angle (22°)	3.05 m
b) Swing angle (44°)	1.86 m

- b) Minimum ground clearance: 8.84 m
- c) Minimum mid span separation between earth wire and conductor: 9.0 m

- A.10.0 Shielding angle shall not exceed 20 deg for 400 kV transmission line.
- A.11.0 The Fault current for design of line shall be 63 kA for 1 sec for 400 kV.
- A.12.0 In case of 400 kV voltage class lines, at least one out of two earth wires shall be OPGW and second earth wire, if not OPGW, shall be either of Galvanized Stranded Steel (GSS) or Aluminum Alloy Conductor Steel Reinforced (AACSR) conductor type or any other suitable conductor type depending upon span length and other technical consideration.
- A.13.0 Each tower shall be earthed such that the tower footing impedance does not exceed 10 ohm. Pipe type or Counterpoise type earthing shall be provided in accordance with relevant IS. Additional earthing shall be provided on every 7 to 8 km distance for direct earthing of both shield wires. If site condition demands, multiple earthing or use of earthing enhancement compound shall be used.
- A.14.0 Pile type foundation shall be used for towers located in river or creek bed or on bank of river having scourable strata or in areas where river flow or change in river course is anticipated, based on detailed soil investigation and previous years' maximum flood discharge of the river, maximum velocity of water, highest flood level, scour depth and anticipated change in course of river based on river morphology data of at least past 20 years to ensure availability and reliability of the transmission line.



- A.15.0 Transmission line route shall be finalized, in consultation with appropriate authorities so as to avoid the habitant zones of endangered species and other protected species. Bird diverters, wherever required, shall be provided on the line.
- A.16.0 Wherever, the transmission lines are passing through cyclone prone areas (i.e. areas up to 60 km from coast)/ creek regions/ aggressive soil areas following shall also be applicable:
- a) The fabricated tower parts and stubs shall have a minimum overall zinc coating of 900 g/m<sup>2</sup> of surface area except for plates and sections below 5 mm which shall have a minimum overall zinc coating of 610 g/ m<sup>2</sup> of surface area. The average zinc coating for all sections and plates 5 mm and above shall be maintained as 127 microns and that for plates and sections below 5 mm shall be maintained as 87 micron.
  - b) Ready mix concrete of M30 Grade shall be used to avoid use of locally available saline water. However, design mix concrete of M30 Grade conforming to IS 456 with potable water can be used at locations where transportation of ready-mix concrete is not feasible. The minimum cement content in any case shall not be less than 330 kg/m<sup>3</sup>.
  - c) The surface of the reinforced steel shall be treated with epoxy-based coating to enhance corrosion performance of the foundation. Use of epoxy coated reinforcement in foundation shall be as per IS 13620. In addition, two (2) coats of bituminous painting of minimum 1.6 kg/m<sup>2</sup> per coat shall be applied on all exposed faces of foundation (i.e. pedestal and base slab).
  - d) Double coat 20 mm thick cement plaster shall be provided on all exposed concrete surface as well up to 300 mm below ground level to give protection to concrete surface from environmental and saline effect.
  - e) Before coping of chimney top portion, three coats of anti-corrosive paint of minimum 30-35 micron dry film thickness each shall be applied on the stub in the 50 mm coping portion as well as up to 350 mm above CL portion.
- A.17.0 The raised chimney foundation is to be provided in areas prone to flooding/water stagnation like paddy field /agricultural field and undulated areas to avoid direct contact of water with steel part of tower. The top of the chimney of foundation should be at least above High Flood Level (HFL) or the historical water stagnation/ logging level (based on locally available data) or above High Tide Level or 500 mm above Natural Ground level (whichever is higher).
- A.18.0 Routing of transmission line through protected areas of India shall be avoided to the extent possible. In case, it is not possible to avoid protected areas, the towers of the transmission line upto 400 kV level which are installed in protected areas shall be designed for Multi-circuit (4 circuits) configuration of same voltage level considering reliability level of at least two (2). The top two circuits of these multi-circuit towers shall be used for stringing of the transmission line under present scope and the bottom two



circuits shall be made available for stringing of any future transmission line of any transmission service providers/ State transmission utilities/Central transmission utilities passing through the same protected area. Further, the configuration and coordinates of such transmission towers shall be submitted to CEA, CTU and BPC by the TSP.

- A.19.0 The TSP shall abide by the Guidelines of CEA w.r.t. shifting of transmission lines for NHAI projects and other projects.
- A.20.0 Safety precautions in regard to gas/oil pipelines in vicinity of Transmission lines shall be taken in coordination with gas/ petroleum authorities.



### SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION

**Extension of 400 kV Kishtwar** substation shall be GIS type generally conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

**Extension of 400 kV Kishenpur, Extension of 400 kV Samba and Extension of 400 kV Jalandhar** substation shall be AIS type generally conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

The technical parameters indicated in this document are applicable for installations up to an altitude of 1000 m above mean sea level. In case, the altitude exceeds 1000 m above mean sea level, necessary altitude correction factor as per relevant standard shall be considered by the TSP.

Other CEA Regulations and MoP guidelines as amended up to date, as applicable, shall also be followed.

#### **B.1.0 Salient features of Substation Equipment and Facilities**

The design and specification of substation equipment are to be governed by the following factors:

##### **B.1.1 Insulation Coordination**

The system design parameters for substations/switchyards shall be as given below:

Sl No.	Description of parameters	Extn. of 400 kV Kishtwar / Kishenpur / Samba/ Jalandhar S/s
		400 kV System
1.	System operating voltage	400 kV
2.	Maximum voltage of the system (rms)	420 kV
3.	Rated frequency	50 Hz
4.	No. of phases	3
5.	Rated Insulation levels	
i)	Lightning Impulse withstand voltage for (1.2/50 micro sec.)	
	- for Equipment other than Transformer and Reactor	1425 kVp
	- for Insulator String	1550 kVp



Sl No.	Description of parameters	Extn. of 400 kV Kishtwar / Kishenpur / Samba/ Jalandhar S/s
		400 kV System
ii)	Switching Impulse withstand voltage (250/2500 micro sec.) dry and wet	1050 kVp
iii)	One-minute power frequency dry withstand voltage (rms)	630 kV (650 kV for GIS)
iv)	One minute power frequency dry and wet withstand voltage (rms)	-
6.	Corona extinction voltage	320 kV
7.	Max. radio interference voltage for frequency between 0.5 MHz and 2 MHz	1000 micro-volts at 266 kV rms
8.	Minimum creepage distance for insulator string/ longrod insulators/ outdoor bushings	13020 mm (31mm/ kV)
9.	Minimum creepage distance for switchyard equipment	10500mm (25 mm/ kV)
10.	Max. fault current	63 kA
11.	Duration of fault	1 Sec

### B.1.2 Switching Scheme

The switching schemes, as mentioned below, shall be adopted at various voltage levels of substation/switchyard:

Substation	400 kV side
Extn. of 400 kV Kishtwar S/s	One and Half Breaker
Extn. of 400 kV Kishenpur S/s	One and Half Breaker
Extn. of 400 kV Samba S/s	One and Half Breaker
Extn. of 400 kV Jalandhar S/s	One and Half Breaker

Notes: -

- (i) For one and half breaker switching scheme, any double circuit line consisting of two numbers of feeders and originating from the transmission or generating switchyard shall not be terminated in one diameter.
- (ii) Two transformers of same HV rating shall not be connected in the same diameter and similarly, two bus reactors of same HV rating shall also not be connected in the same diameter.



- (iii) A diameter in one and half breaker scheme is a set of 3 circuit breakers with associated isolators, earth switches, current transformers etc. for controlling 2 (two) numbers of feeders.
- (iv) Connection arrangement of Switchable Line reactors shall be such that it can be used as Line reactor as well as Bus reactor with suitable NGR bypass arrangement.
- (v) TSP shall plan distribution of line and transformer feeders to bus bar in such a way that all power can be evacuated successfully without crossing the thermal limit at any point of bus bar.

### B.2.0 Substation Equipment and facilities:

The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All equipment shall be designed considering the following capacity.

Sl. No	Description of bay	Extn. of 400 kV Kishtwar S/s	Extn. of 400 kV Kishenpur S/s	Extn. of 400 kV Samba S/s	Extn. of 400 kV Jalandhar S/s
		400 kV	400 kV	400 kV	400 kV
1.	Bus Bar	As per existing	As per existing	As per existing	As per existing
2.	Line bay	3150 A	3150 A	3150 A	3150 A
3.	Switched Line Reactor Bay	--	--	3150 A	3150 A

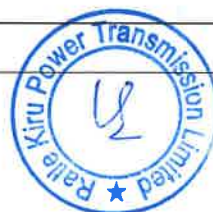
### B.2.1 420 kV, 3-phase, Shunt Reactor

63 MVAR, 420 kV, 3-Phase Reactor shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class)" available on CEA website and as amended up to date.

80 MVAR, 420 kV, 3-Phase Reactor shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class)" available on CEA website and as amended up to date.

The resistive value of NGR for Samba end of 400 kV Kishtwar – Samba line (Quad) shall be considered 300 ohms.

The resistive value of NGR for each circuit at Jalandhar end of 400 kV D/C Kishenpur – Jalandhar direct line (Twin) shall be considered 300 ohms.





The resistive value of NGR for Samba end of 400 kV Samba-Nakodar direct line (Quad) shall be considered 300 ohms.

## **B.2.2 400 kV AIS Substation equipment (as applicable)**

### **B.2.2.1 Circuit Breakers (AIS)**

The circuit breakers and accessories shall conform with IEC: 62271-100, IEC: 62271-1 and shall be of SF<sub>6</sub> Type. The circuit breakers shall be of class C2-M2 (as per IEC) with regard to restrike probability during capacitive current breaking and mechanical endurance. The rated break time shall not exceed 40 ms for 400 kV circuit breakers. 400 kV Circuit breakers shall be provided with single phase and three phase auto reclosing. Each breaker would have two sets of trip circuits which would be connected to separate DC supplies for greater reliability. The Circuit breakers controlling 400 kV lines shall be provided with pre insertion closing resistor of about 400 ohms with 8 ms insertion time or Controlled Switching Device (CSD) for lines longer than 200 km. The short line fault capacity shall be same as the rated capacity and this is proposed to be achieved without use of opening resistors. The controlled switching device shall be provided in Circuit breakers of switchable line reactor and in Main and Tie circuit breakers of line with non-switchable line reactors and Bus reactors and 765/400 kV Transformers.

### **B.2.5.2 Isolators (AIS)**

The isolators shall comply with IEC 62271-102 in general. The 400 kV isolators shall be double break type. All isolators and earth switches shall be motor operated. Earth switches shall be provided at various locations to facilitate maintenance. Isolator rated for 400 kV shall be of extended mechanical endurance class - M2 as per IEC-62271-102. Main blades and earth blades shall be interlocked and interlock shall be fail safe type. 400 kV earth switch for line isolator shall be suitable for induced current switching duty as defined for Class-B.

### **B.2.5.3 Current Transformers (AIS)**

Current Transformers shall comply with IEC 61869 in general. All ratios shall be obtained by secondary taps only. Generally, Current Transformers (CT) for 400 kV shall have six cores (four for protection and two for metering). The burden and knee point voltage shall be in accordance with the requirements of the system including possible feeds for telemetry. The accuracy class for protection core shall be PX and for metering core it shall be 0.2S. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 20 VA for metering core) for better sensitivity and accuracy. The instrument security factor shall be less than 5 for CTs up to 400 kV.



**B.2.5.4 Capacitive Voltage Transformers (AIS)**

Capacitive Voltage Transformers shall comply with IEC 61869 in general. These shall have three secondaries out of which two shall be used for protection and one for metering. The accuracy class for protection cores shall be 3P and for metering core shall be 0.2. The Capacitive Voltage Transformers on lines shall be suitable for Carrier Coupling. The Capacitance of CVT for 400 kV shall be of 4400/8800 pF depending on PLCC requirements. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 50 VA for metering core) for better sensitivity and accuracy.

**B.2.5.5 Surge Arresters (AIS)**

336 kV Station High (SH) duty duty gapless type Surge arresters with thermal energy (Wth) of minimum 12 kJ/kV conforming to IEC 60099-4 in general shall be provided for 420 kV systems. Other characteristics of Surge arrester shall be chosen in accordance with system requirements. Surge arresters shall be provided at line entrances, near Transformers and Reactors to achieve proper insulation coordination. Surge Arresters shall be provided with porcelain/ polymer housing fitted with pressure relief devices. A leakage current monitor with surge counter shall be provided with each surge arrester.

**B.2.6 400 kV GIS Substation equipment (as applicable)**

GIS (Gas Insulated Switchgear) shall be Indoor type in accordance to IEC: 62271-203. The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All the switchgear such as Circuit Breaker, Isolator, Earth switch including CT, PT etc. shall be GIS type. The Surge Arrester and Voltage Transformer shall be either GIS or outdoor AIS type.

The GIS assembly shall consist of separate modular compartments e.g. Circuit Breaker compartment, Bus bar compartment filled with SF6 Gas and separated by gas tight partitions so as to minimize risk to human life, allow ease of maintenance and limit the effects of gas leaks failures and internal arcs etc. These compartments shall be designed to minimize the risk of damage to adjacent sections and protection of personnel in the event of a failure occurring within the compartments. Rupture diaphragms with suitable deflectors shall be provided to prevent uncontrolled bursting pressures developing within the enclosures under worst operating conditions, thus providing controlled pressure relief in the affected compartment. The arrangement of gas sections or compartments shall be such as to facilitate future extension of any make without any drilling, cutting or welding on the existing equipment. To add equipment, it shall not be necessary to move or dislocate the existing switchgear bays. The layout of Gas Insulated Bus Ducts shall be properly planned to optimize the length of bus ducts and for easy accessibility for maintenance. The length of busbars, bus ducts, isolator sections shall be optimized considering effects of fast transient voltage due to isolator operations.



The bus bar modules including auxiliary bus modules (wherever applicable) shall be provided with suitable End Piece (Interface) module on both sides with the test link facility for future extension as per provisions of future requirements. The end piece module shall be designed in such a way so that future GIS modules may be tested without extending test voltage to existing bus and vice-versa by removing the test link.

TSP shall make available the complete details for the design of interface module such as cross section, enclosure material, enclosure dimensions (inner and outer), Flange diameter (inner and outer), conductor cross-section and connection arrangement, bolt spacing and dimension, rated gas pressure, Gasket detail etc. Further, adequate space for GIS busbar interface module shall be taken into account for future scope.

Each section shall have plug-in or easily removable connection pieces to allow for easy replacement of any component with the minimum disturbance to the remainder of the equipment. Inspection windows (View Ports) shall be provided for Disconnect Switches and both type of earth switches i.e. Maintenance and fast operating.

Local Control Cabinets (LCC) shall be provided as per requirement. The alarm and annunciation of GIS equipment shall be wired to the SCADA System.

The material and thickness of the enclosures shall be such as to withstand an internal flashover without burns through for a period of 300 ms at rated short time withstand current. The material shall be such that it has no effect of environment as well as from the by-products of SF6 breakdown under arcing conditions. This shall be validated with Type Test.

#### **Service continuity requirement for GIS:**

The GIS equipment with the given bus switching arrangement shall be divided into different gas compartments. During the work such as a fault repair or major maintenance, requiring the dismantling of a gas compartment for which more than one compartments may need to be de-gassed.

TSP shall meet following Service continuity conditions (to the extent possible) with ensuring equipment and operating personnel's safety:

- For One and half breaker bus switching scheme, during a fault in Circuit Breaker compartment, no bus bar and feeder is permitted out of service during maintenance and repair/replacement.
- For Double Main bus switching scheme, during a fault in Circuit Breaker compartment, no bus bar is permitted out of service during maintenance and repair/replacement.



- During a fault in a GIS compartment other than Circuit Breaker compartment, maximum one bus bar and/or one feeder is permitted out of service during maintenance and repair/replacement.

UHF sensors in GIS for PD (Partial Discharge) detection:

The adequate number of Ultra High Frequency (UHF) sensors shall be provided in the offered GIS along with suitable portable type Partial Discharge (PD) measuring instrument for detection of Partial discharge (of 5 pC and above as per IEC 60270). The number and location of these sensors shall be based on laboratory tests on the typical design of GIS as per recommendations of CIGRE Document No. 654 (Application Guide for sensitivity verification for UHF Partial discharge detection system for GIS).

#### **B.2.6.1 Circuit Breakers (GIS)**

GIS Circuit breakers shall in general be of C2-M2 class and comply with IEC-62271-100. The rated break time shall not exceed 40 ms for 400 kV. Circuit breakers shall be provided with single phase and three phase auto reclosing. Each breaker would have two sets of trip circuits which would be connected to separate DC supplies for greater reliability. The Circuit breakers controlling 400 kV lines wherever required shall be provided with pre-insertion closing resistor of about 400 ohms with 8 ms insertion time or Controlled Switching Device (CSD) for lines longer than 200 km. The short line fault capacity shall be same as the rated capacity and this is proposed to be achieved without use of opening resistors. Control switching device shall be provided in the Circuit Breaker of switchable line reactor bay and in Main and Tie bay circuit breakers of line with non-switchable line reactors, Bus reactors and Transformer.

#### **B.2.6.2 Isolators (GIS)**

The isolators shall comply with IEC 62271-102 in general. Earth switches shall be provided at various locations to facilitate maintenance. Main blades and earth blades shall be interlocked and interlock shall be fail safe type. All isolators and earth switches shall be motor operated type.

The isolator shall be of extended mechanical endurance class-M2 as per IEC standards. High speed earthing switches shall be provided for grounding purposes at overhead line terminations and cable terminations and shall have fault making capability as specified. Earth switch for line isolator shall be of earthing switch class E1 and shall be suitable for induced current switching duty as defined for Class-B as per relevant standard.



### B.2.6.3 Current Transformers (GIS)

Current Transformers shall comply with IEC 61869 in general. All ratios shall be obtained by secondary taps only. For 400 kV and above voltage class, generally Current Transformers (CT) shall have five cores (four for protection and one for metering) whereas; CT in Tie bays shall have six cores (four for protections and two for metering) suitably distributed on both sides of CB. The burden and knee point voltage shall be in accordance with the requirements of the system including possible feeds for telemetry. The accuracy class for protection core shall be PX and for the metering core it shall be 0.2S. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 20 VA for metering core) for better sensitivity and accuracy.

The instrument security factor shall be less than 5 for CTs up to 400 kV voltage class.

### B.2.6.4 Voltage Transformers (GIS)

The voltage transformers shall conform to IEC-61869. Voltage transformers shall be of electromagnetic type with SF<sub>6</sub> gas insulation. The earth end of the high voltage winding and the ends of the secondary winding shall be brought out in the terminal box. The voltage transformers shall be located as a separate bay module and will be connected phase to ground and shall be used for protection, metering and synchronization. The voltage transformers shall be of inductive type, nonresistant and shall be contained in their own-SF<sub>6</sub> compartment, separated from other parts of installation. The voltage transformer shall be effectively shielded against high frequency electromagnetic transients. The voltage transformer shall have three secondary windings out of which two shall be used for protection and one for metering. The voltage transformer should be thermally and dielectrically safe when the secondary terminals are loaded with the guaranteed thermal burdens. The accuracy class for protection cores shall be 3P. The accuracy of 0.2 on metering core should be maintained throughout the entire burden range on all the three windings without any adjustments during operation. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 50 VA for metering core) for better sensitivity and accuracy.

### B.2.6.5 Surge Arresters (GIS)

336kV Station High (SH) duty gapless type Surgearresters with thermal energy ( $W_{th}$ ) of minimum 12 kJ/kV conforming to IEC 60099-4 in general shall be provided for 420 kV. Other characteristics of Surge arrester shall be chosen in accordance with system requirements. Surge arresters shall be provided at line entrances, near Transformers and Reactors so as to achieve proper insulation coordination. Surge Arresters shall be





provided with porcelain/ polymer housing fitted with pressure relief devices. A leakage current monitor with surge counter shall be provided with each surge arrester.

#### **B.2.6.6 SF<sub>6</sub> to Air Bushing**

Outdoor bushings, for the connection of conventional external conductors to the SF<sub>6</sub> metal enclosed switchgear, shall be provided. Bushings shall generally be in accordance with the requirements of IEC-60137. The creepage distance over the external surface of outdoor bushings shall not be less than 31 mm/kV. SF<sub>6</sub> to air Bushing shall be of Polymer/ Composite type and shall be robust and designed for adequate cantilever strength to meet the requirement of seismic conditions. The electrical and mechanical characteristics of bushings shall be in accordance with IEC 60137. Polymer/ Composite insulator shall be seamless sheath of silicon rubber compound. The housing and weather sheds should have silicon content of minimum 30% by weight. It should protect the bushing against environmental influences, external pollution and humidity. The hollow silicon composite insulators shall comply with the requirements of IEC 61462 and the relevant parts of IEC 62217.

#### **B.2.7 Protection Relaying and Control System**

The protective relaying system proposed to be provided for transmission lines, auto-transformers, reactors and bus bars to minimize the damage to the equipment in the events of faults and abnormal conditions, is dealt in this section. All main protective relays shall be numerical type with IEC 61850 communication interface and should have interoperability during integration of numerical relays to communicate over IEC 61850 protocol with RTU/SAS/IEDs of different OEMs. All numerical relays shall have built in disturbance recording feature.

The protection circuits and relays of the transformer and reactor shall be electrically and physically segregated into two groups each being independent and capable of providing uninterrupted protection even in the event of one of the protection groups failing, to obtain redundancy, and to take protection systems out for maintenance while the equipment remains in service.

##### **a) Transmission Lines Protection**

400 kV shall have Main-I numerical three zone distance protection scheme with carrier aided inter-tripping feature. 400 kV lines shall also have Main-II numerical distance protection scheme like Main-I but from different make that of Main-I. The Main-I and Main-II protection relays of same make may be provided only if they are of different hardware and manufacturing platform or different principle of operation.

However, Line Current Differential relay (with back up distance protection feature) as Main-I and Main-II shall be considered at both ends for short lines (line length below 30





km) having Fiber Optic Communication Link. Differential relay at remote end shall be provided by the TSP. Associated power and control cabling and integration with SAS at remote end shall be provided by respective bay owner.

In case of loop in loop out of transmission lines, the existing protection scheme shall be studied and suitable up-gradation (if required) shall be carried out.

Further, all 400 kV lines shall be provided with single and three phase auto-reclosing facility to allow reclosing of circuit breakers in case of transient faults. These lines shall also be provided with distance to fault locators to identify the location of fault on transmission lines.

All 400 kV lines shall also be provided with two stages over voltage protection. Over voltage protection and distance to fault locator may be provided as in-built feature of Main-I and Main-II protection relays. Auto reclose as built-in function of Bay Control Unit (BCU) is also acceptable.

The Main-I and Main-II protection relays shall be fed from separate DC sources and shall be mounted in separate panels.

For 400 kV transmission lines, directional IDMT earth fault relay should be provided as standalone unit or in-built feature of Main-I and Main -II feature.

**b) 400 kV Reactor Protection**

Reactor shall be provided with the following protections:

- i) Numerical Differential Protection.
- ii) Numerical Restricted Earth Fault Protection
- iii) Numerical Back-up Impedance Protection

Besides these, reactors shall also be provided with Buchholz relay, MOG with low oil level alarm, protection against oil and winding temperatures and pressure relief device, etc.

**c) Bus Bar Protection**

The high-speed low impedance type bus bar differential protection, which is essential to minimize the damage and maintain system stability at the time of bus bar faults, shall be provided for 400 kV buses. Duplicated bus bar protection is envisaged for 400 kV bus-bar protection. Bus bar protection scheme shall be such that it operates selectively for each bus and incorporate necessary features required for ensuring security. The scheme shall have complete bus bar protection for present as well as future bays envisaged i.e. input / output modules for future bays shall also be provided.

Bus Bar protection system for new substation shall be de-centralized (distributed) type.



In case, the bus section is provided, then each side of bus section shall have separate set of bus bar protection schemes.

For existing substations, the existing bus bar protection shall be augmented as per requirement.

#### d) Local Breaker Back up Protection

This shall be provided for each 400 kV circuit breakers and will be connected to de-energize the affected stuck breaker from both sides.

*Notes:*

1. *LBB and REF relays shall be provided separately from transformer differential relay.*
2. *LBB relay may also be provided as built-in protection function of distributed bus bar protection scheme; however, in such case separate LBB relay shall be provided for tie bays (in case of One and Half breaker scheme).*
3. *Over fluxing and overload protection can be provided as built-in feature of differential relay.*
4. *In 765 kV and 400 kV switchyard, if spare bay of half diameter is identified as future, Tie CB relay panel shall be with Auto-reclosure feature.*

### B.2.8 Substation Automation System

- a) For all the new substations, state of art Substation Automation System (SAS) conforming to IEC-61850 shall be provided. The distributed architecture shall be used for Substation Automation system, where the controls shall be provided through Bay control units. The Bay control unit is to be provided bay wise for voltage level 220 kV and above. All bay control units as well as protection units are normally connected through an Optical fibre high speed network. The control and monitoring of circuit breaker, dis-connector, re-setting of relays etc. can be done from Human Machine Interface (HMI) from the Control Room.

The functions of control, annunciation, disturbance recording, event logging and measurement of electrical parameters shall be integrated in the Substation Automation System.

At new substations, the Substation Automation System (SAS) shall be suitable for the operation and monitoring of the complete substation including proposed future bays/elements.

In existing substations with a Substation Automation System (SAS), augmentation of existing SAS shall be done for bays under the present scope.



In existing Substations where Substation automation is not provided, control functions shall be done through control panels.

Necessary gateway and modems (as required) shall be provided to send data to RLDC/SLDC as per their requirement and shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation. Accordingly, all the hardware for communication services of station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs. Any augmentation work at RLDC/SLDC is excluded from TSP's scope. However, all the configuration work at substation end required to send data to RLDC/SLDC shall be in the scope of TSP.

**b) Time Synchronization Equipment**

Time synchronization equipment complete in all respects including antenna, cable and processing equipment required to receive time signal through GPS or from National Physical Laboratory (NPL) through INSAT shall be provided at new substations. This equipment shall be used to synchronize SAS and IEDs etc.

**B.3.0 Substation Support Facilities**

Certain facilities required for the operation and maintenance of substations as described below shall be provided at the new substation. In existing substation, these facilities have already been provided and will be extended/ augmented as per requirement.

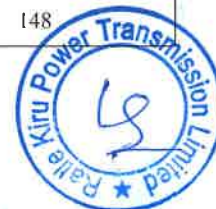
**B.3.1 AC and DC power supplies**

For catering the requirements of three phase and single-phase AC supply and DC supply for various substation equipment, for substation extensions, existing facilities shall be augmented as required.

**B.3.2 Fire Fighting System**

Fire-fighting system for substation including Transformer and Reactor shall conform to CEA (Measures Relating to Safety and Electric Supply) Regulations, 2023 as amended from time to time.

Further, adequate water hydrants and portable fire extinguishers shall be provided in the substations. The main header of the firefighting system shall be suitable for extension to bays covered under the future scope; necessary piping interface in this regard shall be provided.



At existing substations, the fire-fighting systems as available shall be augmented/extended to meet the additional requirements.

### **B.3.3 Oil evacuating, filtering, testing and filling apparatus**

To monitor the quality of oil for satisfactory performance of Transformers, Shunt Reactors and for periodical maintenance necessary oil evacuating, filtering, testing and filling apparatus would be provided at new substations. Oil storage tanks of adequate capacities for storage of transformer oil would be provided.

Online Transformer Oil Drying Out System shall be provided in line with the provisions of Standard Specification and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class) as amended up to date available on CEA website.

### **B.3.4 Illumination**

Normal and emergency AC and DC illumination shall be provided adequately in the control room and other buildings of the substation. The switchyard shall also be provided with adequate illumination.

The lighting of the entire control room building, fire-fighting pump house, other building (if any) and switchyard shall be done by LED based low power consumption luminaries.

### **B.3.5 Control Room**

For the new substation, substation control room shall be provided to house substation work stations for station level control (SAS) along with its peripheral and recording equipment, AC and DC distribution boards, DC batteries and associated battery chargers, Fire Protection panels, Telecommunication panels and other panels as per requirements. Air conditioning shall be provided in the building as functional requirements. Main cable trenches from the control room shall have adequate space provision for laying of cables from the control room for all the future bays.

At existing substations, the adequacy of size of control room shall be ascertained and the same shall be augmented as per requirement.

### **B.3.6 GIS hall**

The Gas Insulated Switchgear (GIS) of each voltage level along with other associated equipment shall be housed inside separate GIS building. The panels i.e. Bay level units, bay mimic, relay and protection panels, RTCC panels, PLCC panels, panels for telecommunication system etc. are to be placed in a separate room in the GIS building. The size of the room shall be such that all the panels for the bays under present scope shall be accommodated. The panel room shall be air-conditioned. Further, the temperature of the



room shall be monitored through substation automation system by providing necessary temperature transducers. Ventilation system of suitable capacity shall be provided for each GIS hall.

One EOT Crane of suitable capacity for Erection and Maintenance of largest GIS component/assembly and all plant installed in the GIS switchgear room shall be provided in each GIS hall. The crane shall be capable of fulfilling all special requirements for erection and maintenance of GIS equipment. The capacity of the crane shall be sized to lift the heaviest GIS switchgear component.

For extension of existing GIS, existing facilities shall be suitably augmented/ extended for GIS equipment under present scope.

### B.3.7 Control Concept

All the EHV circuit breakers in substation/switching stations shall be controlled and synchronized from the switchyard control room/remote control center. All the isolators shall have control from remote/local whereas the earth switches shall have local control only.

### B.3.8 Visual monitoring system (VMS) for watch and ward of substation premises:

Visual monitoring system for effective watch and ward of substation premises shall cover all the transformers and reactors, all other major AIS Equipment (such as CB, isolators, CT, CVT, SA etc. as applicable), GIS bays, panel room, all the gates of switchyard and all entry and exit points of control room building and accordingly the location of cameras shall be decided. In addition to the gates of the switchyard, the cameras shall also be located around the boundaries at suitable locations. The camera shall be high definition color CCD camera with night vision feature. The VMS data partly/completely shall be recorded (minimum for 15 days) at least @25fps (or better) and stored on network video recorder. The system shall use video signals from various cameras installed at different locations, process them for viewing on workstations/monitors in the control room and simultaneously record all the cameras. The VMS data should go only to the intended personnel/facility and not to the remote server of the Camera (VMS supplier).

Mouse/keyboard controllers shall be used for pan, tilt, zoom and other functions of the desired camera. The Visual Monitoring System shall have provision of WAN connectivity for remote monitoring.

All camera recordings shall have Camera ID and location/area of recording as well as date/time stamp. The equipment should generally conform to Electromagnetic compatibility requirement for outdoor equipment in EHV substation.

At existing substations, the visual monitoring system if available shall be augmented as per existing or better specification as required.



**B.4.0 General Facilities**

- a) Line Gantry/Towers are envisaged for bays under present scope only. However, for adjacent future line bay, tower shall be designed for extension (considering Quad conductors 400 kV future lines) wherever applicable.
- b) Bay extension works at existing substation shall be executed by TSP in accordance with the requirements/provisions mentioned above. However, interface points shall be considered keeping in view the existing design/arrangement at the substation.
- c) TSP has to arrange for construction power and water on its own.
- d) All outdoor steel structures including anchor/foundation bolts shall be fully galvanized. The weight of the zinc coating shall be at least 610 gm/m<sup>2</sup> and 900 gm/m<sup>2</sup> for coastal/ creek regions (if applicable).
- e) In 400 kV switchyard, if spare bay of half diameter is identified as future, all the equipment for Tie and Future Bay shall be designed considering the current rating of line bay i.e. 3150 A.
- f) All electrical equipment shall be installed above the Highest Flood Level (HFL) and where such equipment is not possible to be installed above HFL, it shall be ensured that there is no seepage or leakage or logging of water.
- g) As per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 and CEA Manual on Transmissions Planning criteria 2023, Line approaching substation shall normally be perpendicular to the substation boundary for a stretch of 2-3 km. Accordingly, TSP shall ensure that line terminations at substations are arranged in a manner to avoid hindrance to future line terminations at the substations.

**B.5.0 EXTENSION OF EXISTING SUBSTATION**

Bidder is advised to visit the substation sites and acquaint themselves with the topography, infrastructure such as requirement of roads, cable trench, drainage, space availability in control rooms and LT panel room etc. and also the design philosophy.





### SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION

The communication requirement shall be in accordance to CEA (Technical Standards for Communication System in Power System Operations) Regulations, 2020, CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, CERC (Communication System for inter-State transmission of electricity) Regulations, 2017, and CEA (Cyber Security in Power Sector) Guidelines, 2021, and CERC Guidelines on "Interface Requirements" 2024 all above documents as amended from time to time.

The communication services viz. SCADA, AGC (wherever applicable), VoIP, AMR and PMU have been identified as critical services and therefore shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation.

PMU to PDC communication (wherever required) shall be through 2 channels to the PDC (main) as there is no backup PDC at present.

Accordingly, all the hardware for communication services of station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs

The complete ISTS communication system commissioned by TSP under the RFP shall be the asset of ISTS and shall be available for usage of ISTS requirements as suggested by CTU from time to time.

In order to meet the requirement for grid management and operation of substations, Transmission Service Provider (TSP) shall provide the following:

#### **C.1.0 LILO of 400 kV Kishenpur- Dulhasti S/c line at Kishtwar S/s**

On LILO of 400 kV Kishenpur- Dulhasti S/c line at Kishtwar S/s, TSP shall supply, install and commission OPGW and earthwire as per Tower Configurations:

- (I) Loop-In and Loop out Ckt on Single Towers: Two (2) No. OPGW cable containing 24 Fibres (24F) to be installed and commissioned by the TSP on both the Earthwire peaks.
- (II) Loop-In and Loop out Ckt on Two separate Towers: One (1) No. OPGW cable containing 24 Fibres (24F) on one earthwire peak and conventional earthwire on other E/W peak for both Loop In and Loop Out Lines.

The TSP shall install OPGW cables from gantry of Kishtwar S/s up to the LILO tower with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate at Joint Boxes at Kishtwar S/s. The transmission line length is **3 km (approx.)**. After LILO, if fiber

length for links Kishtwar - Kishenpur and Kishtwar - Dulhasti is above 225 kms then repeater shall be envisaged, otherwise line can be managed as a repeater less link.

TSP shall finalize the location of repeater station (if required) depending upon the actual site conditions. Further TSP shall comply to the requirements mentioned as per **Appendix-F.1**

Maintenance of OPGW Cable and OPGW Hardware shall be responsibility of TSP.

### C.2.0 FOTE requirement at 400 kV Kishtwar S/s

- (I) TSP shall supply, install and commission 1 No. FODP (72F or higher) alongwith panel and required Approach Cable (24F) with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.
- (II) TSP shall supply, install and commission One STM-16 (FOTE) equipment alongwith panel/s supporting minimum Three (3) directions with MSP (Multiplex Section Protection – 1+1) with necessary interfaces to meet the voice and data communication requirement among 400 kV Dulhasti S/s, 400 kV Kishenpur S/s and local patching with Control Room FOTE. The suitable DC Power Supply and backup to be provided for communication equipment.
- (III) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of 400 kV Kishtwar S/s which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.

In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, The TSP may integrate the FOTE under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).

- (IV) FOTE and FODP can be accommodated in same panel to optimize space.
- (V) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank shall be the responsibility of TSP.

**C.3.0 400 kV Kishenpur-Samba D/C line**

- (I) On 400 kV Kishenpur - Samba D/C line (Quad), TSP shall supply, install and commission One (1) No. OPGW cable containing 24 Fibres (24F) on one E/W peak and conventional earth wire on other E/W peak.
- (II) The TSP shall install this OPGW from gantry of 400 kV Kishenpur S/s up to the gantry of 400 kV Samba S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called **OPGW Hardware** hereafter) and finally terminate in Joint Boxes at end Substations. The transmission line length is **36 km (approx.)**, where repeater may not be required to meet the link budget requirement of 400 kV Kishenpur-Samba D/C link.
- (III) Maintenance of OPGW Cable and OPGW Hardware shall be responsibility of TSP.

**C.4.0 400 kV Samba-Jalandhar D/C line and Bypassing of Jalandhar – Nakodar line at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line thus forming 400 kV Samba –Nakodar direct line**

- I. On 400 kV Samba-Jalandhar D/C line, TSP shall supply, install and commission two (2) No. OPGW cable containing 24 Fibres (24F) on both the E/W peaks of D/C Tower.
- II. One number OPGW (24F) shall terminate at Gantry of Jalandhar and another shall be by-passing Jalandhar S/s to form a link between Samba – Nakodar in similar transmission line route.
- III. The TSP shall install one No. OPGW from gantry of Samba S/s up to the gantry of Jalandhar S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called **OPGW Hardware** hereafter) and finally terminate in Joint Boxes at end Substation. The transmission line length is **145 km (approx.)**.
- IV. The TSP shall install one No. OPGW from gantry of Samba S/s up to the bypassing tower of Samba-Jalandhar D/C line of second circuit and forming a link between Samba- Nakodar. TSP shall install all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called **OPGW Hardware** hereafter) and finally terminate in Joint Boxes at bypass tower. The transmission line length is **145 kms (approx.)**. **After forming complete link between Samba- Nakodar if repeater is required to meet the link budget requirement of Samba-Nakodar link, the same shall be provided by TSP.**

**TSP shall also provide necessary optical interfaces in the FOTE of Nakodar as per revised link budget of link after making a link between Samba- Nakodar.**

TSP shall finalize the location of repeater station (if required) depending upon the actual site conditions. Further TSP shall comply to the requirements mentioned as per **Appendix-F.1**



V. Maintenance of OPGW Cable and OPGW Hardware shall be responsibility of TSP.

#### C.5.0 Specific Requirement for Phasor Measurement Units (PMUs)

TSP shall supply, install and commission required No. of Phasor Measurement Units (PMUs) at all the locations under the scope this RFP as per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 (alongwith all amendments if any) and all the other applicable Regulations, Standards, Guidelines issued time to time. The signal list shall be as per the Annexure-I Part-B of CERC Guidelines on "Interface Requirements" 2024. These PMUs shall be provided with GPS clock and LAN switch and shall connect with LAN switch of control room of respective substations/ generating stations with Fibre Optic cable. These PMUs shall be connected with the FOTE at Substation/ generating stations for onwards data transmission to the PDC (Phasor Data Concentrator) located at respective RLDC. Configuration work in existing PDC at RLDC for new PMU integration shall be done by respective RLDC, however all the necessary support in this regard shall be ensured by TSP. The maintenance of all the PMUs and associated equipment shall be the responsibility of TSP.

Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g. Communication (through FOTE), Voice etc. for smooth operation and monitoring of new added grid elements.



## Appendix-F.1

### Repeater Requirements

- If the repeater location is finalized in the Control Room of a nearby substation, TSP shall provide 1 No. OPGW (48F) on a single Earthwire peak with OPGW Hardware and mid-way Joint Boxes etc. of the line crossing the main line and 1 No. Approach Cable (48F) with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the repeater equipment in substation control room.

TSP shall co-ordinate for Space and DC power supply sharing for repeater equipment.

TSP shall provide FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link.

OR

- If the repeater location is finalized in the nearby substation premises, the TSP shall identify the Space for repeater shelter in consultation with station owner. Further TSP shall provide 1 No. OPGW (48F) on a single Earthwire peak with OPGW Hardware and mid-way Joint Boxes etc. of the line crossing the main line and 1 No. Approach Cable (48F) / UGFO (48F) with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the substation where the repeater shelter is to be housed.

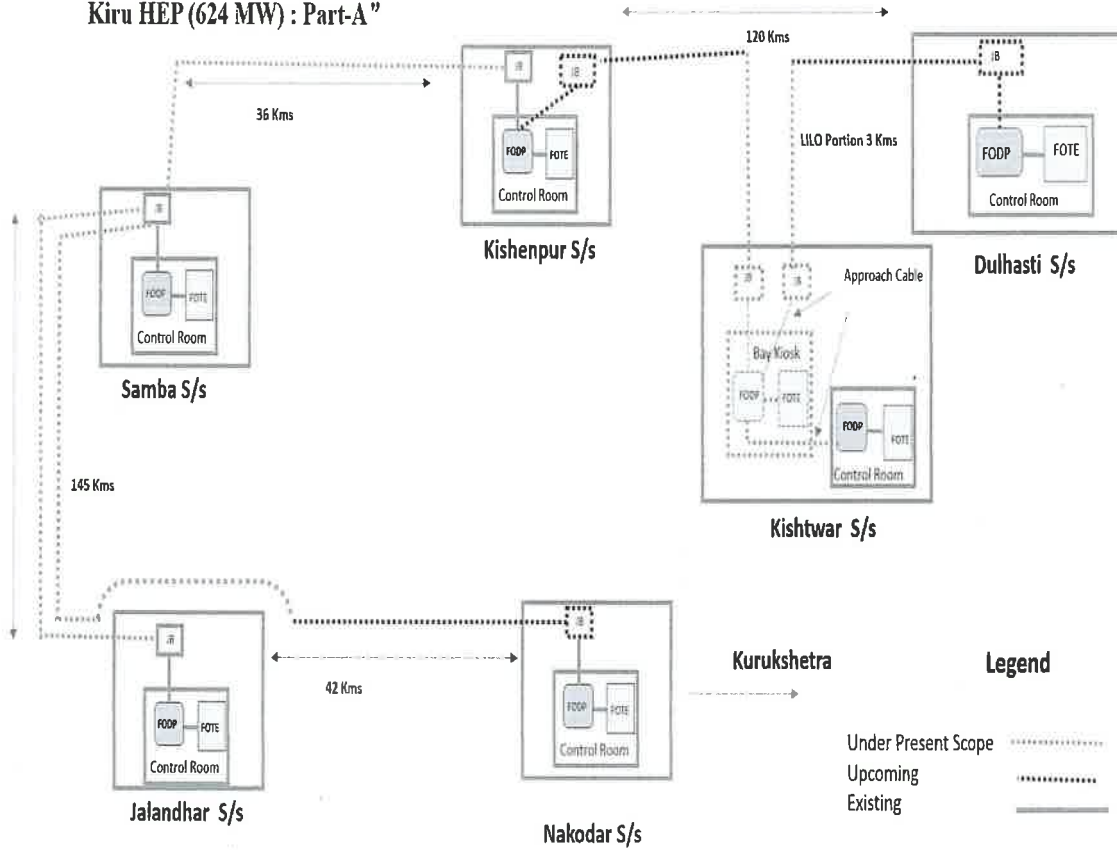
TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems.

OR

- If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide 1 No. Approach Cable (48F) / UGFO (48F) with all associated hardware fittings to establish connectivity up to the location of repeater shelter. TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems

Maintenance of OPGW Cable and OPGW Hardware, repeater equipment and items associated with repeater shelter shall be responsibility of TSP.

Proposed Communication for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW) : Part-A"





### C.6.0 PLCC and PABX:

Power line carrier communication (PLCC) equipment complete for speech, tele-protection commands and data channels shall be provided on each transmission line. The protections for transmission line and the line compensating equipment shall have hundred percent back up communication channels i.e. two channels for tele-protection in addition to one channel for speech plus data for each direction. The PLCC equipment shall in brief include the following: -

- Coupling device, Coupling filters, line traps, carrier terminals, protection couplers, HF cables, PABX (if applicable) and maintenance and testing instruments.
- At new substation, a telephone exchange (PABX) of 24 lines shall be provided as a means of effective communication among various buildings of the substation, remote end substations and with control centres (RLDC/SLDC) etc.
- Coupling devices shall be suitable for phase-to-phase coupling for 765 kV Transmission lines. The pass band of coupling devices shall have sufficient margin for adding communication channel in future if required. Necessary protection devices for safety of personnel and low voltage part against power frequency voltages and transient over voltage shall also be provided.
- The line traps shall be broadband tuned suitable for blocking the complete range of carrier frequencies. Line Trap shall have necessary protective devices such as lightning arresters for the protection of tuning device. Decoupling network consisting of line traps and coupling capacitors may also be required at certain substation in case of extreme frequency congestion.
- The carrier terminals shall be of single sideband (SSB) amplitude modulation (AM) type and shall have 4 kHz band width. PLCC Carrier terminals and Protection couplers shall be considered for both ends of the line.
- PLCC equipment for all the transmission lines covered under the scheme (consisting of one set of analog PLCC channel along with circuit protection coupler and one set of Digital protection coupler for both ends) shall be provided by TSP. CVT and Wave trap for all the line bays under present scope shall be provided by TSP. PLCC to be provided for following lines under present scope:
- TSP shall provide new set of PLCC as per following configuration:



Sl. No.	Line Section	PLCC configuration
1.	400 kV Kishenpur - Kishtwar TL [after LILO]	1 set Analog PLCC + 1 set Digital Protection Coupler for one circuit at both ends.
2.	400 kV Dulhasti - Kishtwar TL [after LILO]	1 set Analog PLCC + 1 set Digital Protection Coupler for one circuit at both ends.
3.	400 kV Kishenpur-Samba line	1 set Analog PLCC and 1 set Digital Protection Coupler for one circuit at both ends.
4.	400 kV Kishtwar- Samba line [after bypassing]	1 set Analog PLCC and 1 set Digital Protection Coupler for one circuit at both ends.
5.	400 kV Samba- Jalandhar line	1 set Analog PLCC and 1 set Digital Protection Coupler for one circuit at both end.
6.	400 kV Samba- Nakodar line [after bypassing]	1 set Analog PLCC and 1 set Digital Protection Coupler for one circuit at both end.

- All other associated equipment like cabling, coupling device and HF cable shall also be provided by the TSP.



**SPECIFIC TECHNICAL REQUIREMENTS FOR INTEGRATION OF COMMUNICATION EQUIPMENT WITH REGIONAL LEVEL NMS / REGIONAL UNMS:**

The new communication equipment/ system for all the substations under the present scope shall be compatible for integration with existing regional level NMS system/ Centralized Supervision and Monitoring System (CSMS) i.e. Regional UNMS. The local configuration of the new communication equipment at the station end shall be the responsibility of TSP as per **Annexure G.1**. The configuration work in the existing centralized NMS/ CSMS at Control center end, for integration of new Communication equipment/ system shall be done by Regional ULDC Team/ NMT, however all the necessary support in this regard shall be ensured by TSP.

**Annexure G.1**

**Requirement for integration of Communication Equipment with Regional UNMS:**

1. TSP shall ensure that NMS/EMS/NE supplied by them is NBI compliant and all FCAPS functionality is supported in the NBI such as NE Inventory, Hardware Inventory – Shelf/Slot/Card/SFP/Port, Topology, Protections, Alarms, Performance-real time and periodic, Performance KPI parameters (E-1, STM, Ethernet), Remote Configuration, Cross Connects, Trails and Circuits, Services Provisioning (NE), E-1, STM, Ethernet, TX and RS Trace, loop back and details are published in the NBI guide for the configuration parameters.
2. TSP shall be obliged to provide/share all necessary documentations such as NBI Guide/MIB/IDL/WSDL/API files/ etc. for onward integration of their NMS/EMS/NE with regional UNMS.
3. The following support shall be provided by TSP for integration of their supplied equipment with regional UNMS:
  - Enabling and activating NBI license in their EMS/NMS and providing NBI login access along with User credentials
  - Assist in verifying NBI Connectivity with UNMS vendor for the successful communication and retrieval of data.
  - Assist in troubleshooting (if required) for NBI connectivity along with UNMS vendor for the communication and retrieval of data.
4. For standalone NE which is not integrated with any EMS/NMS, TSP shall provide modality of complete FCAPS data acquisition as above through industry standard programmatic methods and provide the CLI command manual.



**Frequently Asked Queries:****1.0 Transmission Line:**

- 1.1 Please clarify that whether shutdowns for crossing of existing transmission lines of POWERGRID/STUs/ Power Evacuation Lines from Generation Plants/ Any other Transmission Licensee will be given to TSP on chargeable basis or free of cost.

**Reply:** Shutdowns for crossing of existing transmission lines of POWERGRID/ STUs/ Power Evacuation Lines from Generation Plants/ Any other Transmission Licensee will be given to TSP by the concerned owner of the lines as per their own terms and conditions. As far as shutdown of ISTS lines are concerned the same can be availed by approaching respective Regional Power Committee.

- 1.2 We understand that the suggested swing angle criteria are applicable for Suspension Insulator in Suspension Tower. Further, you are requested to provide similar swing angle and clearance criteria for Pilot Insulator with Jumper and Jumper.

**Reply:** It is clarified that the swing angle criteria (as mentioned in RFP) for transmission lines is applicable for Suspension Insulator in Suspension Tower. Further, as per Clause 3.0 of Specific Technical Requirements for transmission lines, Transmission service Provider (TSP) shall adopt any additional loading/design criteria for ensuring reliability of the line, if so desired and /or deemed necessary.

- 1.3 We request you to kindly allow that use of diamond configuration at Power line crossings and the existing owner of the lines may be directed to allow the same for the successful bidders.

**Reply:** Power line crossing including Diamond configuration is responsibility of the TSP. TSP shall formally submit the profile of the crossing section to the owner of the existing line suggesting proposed crossing alternatives. The crossing will have to be carried out as per approval of owner of the existing line.

- 1.4 It is requested you to kindly provide present status of Forest Clearances if any transmission line corridor area falling in wildlife forest / reserve forest/ mangroves.

**Reply:** Based on the preliminary route survey, the process of initiation of forest clearance for the forest stretches, if any, enroute the proposed line alignment will be initiated by way of writing letters to the concerned authority (ies). However, it may be noted that it will be the responsibility of TSP for obtaining forest clearance for the forest stretches as provided in the survey report and also for any forest area encountered during detailed survey.



- 1.5 For transmission line, no special requirement is specified for type of Insulator and creepage in RFP document. Hence it is understood that bidder can decide the type of insulator along with creepage requirement based on general CEA regulations and relevant standards. Kindly confirm.

**Reply:** The minimum specific creepage distances shall be decided for the pollution condition in the area of installation. It shall be as per CEA regulations and relevant standards.

## 2.0 Substation

- 2.1 We understand that space for storage of O&M spare shall be provided by existing owner within the station boundary without any cost. Kindly confirm.

**Reply:** Space for storage of O&M spares shall be arranged by TSP on its own.

- 2.2 We presume that the O&M for the end Termination bays will be in the scope of the TSP and TSP shall not be liable for any payment towards O&M to the existing owner of the substation. Kindly confirm.

**Reply:** Operation and maintenance of the bays is solely responsibility of the TSP. TSP shall follow CEA's "Operation and Maintenance (O&M) guidelines and Standard Format for Memorandum of Understanding between New TSP and Existing TSP" issued by CEA vide its letter No. I/28514/2023 dated 22.06.2023. Copy of the guideline is available on CEA website at following link:

[https://cea.nic.in/wp-content/uploads/pse td/2023/06/om\\_guidelines.pdf](https://cea.nic.in/wp-content/uploads/pse td/2023/06/om_guidelines.pdf)

- 2.3 With reference to subject scheme of existing sub-station, we assumed following scope of work:

- (a) We assumed internal road is available and need not to consider in the present scope of work.
- (b) Drainage is available and need not to consider in the present scope of work.
- (c) Cable trench extension in adjacent to Main cable trench only under present scope of work.
- (d) Levelled area being provided by developer for bay extension.

**Reply:** Regarding requirement of internal road, drainage, cable trench, leveling of the bay extension area, bidder is advised to visit site and acquaint themselves with the provisions/facilities available at substation.

2.4 Kindly provide the soil investigation report of soil parameters of existing substation.

**Reply:** Bidder is advised to visit the substation site and ascertain the requisite parameters.

2.5 Kindly confirm, energy accounting of aux. power consumption. Whether it will be on chargeable basis or part of transmission loss.

**Reply:** It will be on chargeable basis.

2.6 We understand that VMS requirement is for unmanned stations only. For Manned stations VMS is not compulsory.

**Reply:** VMS shall be provided in line with requirements of RfP document.

2.7 It is understood that Construction water and power shall be provided free of cost to TSP by respective substation owner for construction of new bays.

**Reply:** Arrangement of construction power and water is in the scope of TSP.

2.8 It is understood that existing fire hydrant system shall be extended by the TSP for bay extension.

**Reply:** Existing fire hydrant system shall be extended from existing system (if required)

2.9 Please clarify that Status of land acquisition for Substations. Whether the lands have been acquired by BPC and will be transferred to TSP.

**Reply:** The acquisition of land for substation is in the scope of TSP.

2.10 We understood that no any dedicated metering CT and CVT required for Line/feeders. Further, we understood that requisite Energy meters for various 765 kV, 400 kV and 220 kV Feeders shall be provided and installed by CTU free of cost to TSP.

**Reply:** Dedicated metering CT and CVT are not required for line/feeders. Metering core of existing CT/CVT can be used provided accuracy class is matching with metering requirement. Requisite Special Energy Meters shall be provided and installed by CTU at the cost of TSP in C&P panel subject to space availability, else, in separate metering panel (to be provided by TSP at its cost).

2.11 A draft copy of the Connection Agreement may be furnished. A draft copy of the Connection Agreement may be furnished.





**Reply:** Web page link [https://www.ctuil.in/formats\\_gna\\_transition](https://www.ctuil.in/formats_gna_transition)

- 2.12 Please clarify whether the spare 765 kV single phase Reactor unit for Bus reactor shall be provided with 1ph 765 kV CB.

**Reply:** As per RfP, the spare 1-Ph reactor unit shall be utilized for all the bus and switchable line reactor banks (including for future reactor banks). Hence, 1ph 765 kV CB shall also be provided with spare 1-Ph reactor for utilizing with bus reactor as well as switchable line reactor.

- 2.13 It is understood that existing busbar protection have provision for future bays and also PUs are available for future bays. BPC to confirm availability of CU and PU for bays under present scope of work at existing substations. BPC may kindly confirm availability of communication ports for integrating new PUs with the existing CUs at existing substations.

**Reply:** Bus Bar Protection with Central Unit (CU) is required for new bus section as specified in RfP. Peripheral Units (PUs) shall be provided by the respective bay owner. Further, augmentation/replacement of existing CU, if required, to meet the system requirement shall also be provided for proper functioning of bus bar protection.

- 2.14 For SCADA, it is understood that necessary process I/O shall be available for future bays and accordingly license for same. BPC to confirm.

**Reply:** Necessary process I/O along with license shall be in the scope of the successful bidder.

- 2.15 No separate FF system is envisaged under the present scope of work for existing substation. BPC to confirm.

**Reply:** Existing fire-fighting systems shall be extended to meet the additional requirements under present scope.

- 2.16 PLCC for 220 kV Lines are not under the scope of TSP. BPC to Confirm. It is requested to provide Type of Coupling for 220 kV Transmission Lines under present scope.

**Reply:** PLCC for 220 kV line is in the scope of developer of the line. Inter circuit coupling for 220 kV D/C and phase to phase coupling for 220 kV S/C shall be applicable for PLCC.

- 2.17 BPC is requested to confirm the availability of space in the existing control rooms at existing substation for execution of extension work under current project.



**Reply:** Switchyard Panel Rooms are generally required for AIS type substation and relay room are required for GIS type substation. Further, if needed, control room shall be augmented as per requirement.

### 3.0 Communication

3.1 What are the usage of OPGW, FOTE, PMU etc. under communication requirement of RFP?

**Reply:** User shall be responsible for providing compatible equipment along with appropriate interface for uninterrupted communication with the concerned control center and shall be responsible for successful integration with the communication system provided by CTU.

Communication systems e.g. OPGW, FOTE etc. and PMU are required for grid operation through RLDC/SLDC, speech communication, tele-protection and tele-metering.

3.2 Is space for installation of communication panels are provided to TSP in existing Substations incase new bays are in the scope of TSP?

**Reply:** The space related issues are deliberated in the RFP itself. TSP to install FOTE/FODP panels in the new Bay Kiosk (Switchyard Panel Room (SPR)) / Bay Kisok/ Relay Panel Room (in case of GIS S/s). Further, TSP to connect and integrate the proposed FOTE with the existing FOTE in the control room to complete communication path upto RLDC.

In Case 132 kV Substation TSP shall accommodate the said panels either by extension of existing control room or other arrangements.

3.3 How is the OPGW laying done in case of LILO lines?

**Reply:** In case LILO lines are on same towers (e.g. both Line in and Line Out portion are on same towers, generally done LILO of S/C lines). Then 2x24F OPGW shall be required to install by TSP on both earthwire peak on 400 kV and 765 kV lines where two E/W peaks are available. On 220 kV and 132 kV lines where only one E/W peak is available TSP to install one No. 48F OPGW.

Incase LILO lines are on different towers (e.g. both Line In and Line Out portion are on different towers, generally done LILO of D/C lines). Then 1x24F OPGW shall be required to install by TSP on one earthwire peak and conventional earthwire on second earthwire peak, on both Line In and Line Out portion towers of 400 kV and 765 kV lines. On 220 kV and 132 kV lines where only one E/W peak is available TSP to install one No. 24F OPGW in place of conventional earthwire.

3.4 How is the OPGW laying done in case Multi circuit Towers?



**Reply:** In case two different lines are using common multi circuit portion for some distance (originating from different stations, may be terminating on same or on different stations). Two No. 24F OPGW to be installed on both E/W peaks for common M/C portion of 765 kV and 400 kV lines.

Incase 220/132 kV lines using multi circuit portion where single E/W peak is available one No. 48F may be installed for common multi circuit portion.

3.5 How PMUs are integrated for new bays at existing Substations?

**Reply:** PMU data of new bays to be provided in the ethernet port of switch at control room and thereafter to be connected with existing FOTE of existing substation to send data to PDC of RLDC by TSP. These PMUs shall be provided with GPS clock and LAN switch and shall connect with LAN switch of control room of respective substations with Fibre Optic cable

3.6 Is Spare direction available in existing FOTE for integration with new bay kiosk FOTE

**Reply:** The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of substation for onwards data transmission.

In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room.

3.7 What is the distance from LILO point to proposed substation for feasibility of repeater station?

**Reply:** Tentative Location of LILO point shall be as per survey report of BPC however exact location to be ascertained after detailed survey by TSP.

3.8 What is the make and model of existing OPGW in case LILO of main line at new substation?

**Reply:** All OPGW (alongwith optical fibers) meet Central Electricity Authority (Technical Standards for Communication System in Power System Operations) Regulations, 2020 and bidder shall install OPGW accordingly.

3.9 In case of LILO of existing line at new substation who shall provide PMUs at existing substation bays?

**Reply:** TSP to provide PMUs for all bays under their scope of RFP.

#### 4.0 Planning:



4.1 Whether the Project/ Elements are eligible for early commissioning incentive as per MoP, GoI order dated 15.07.2015.?

**Reply:** Commissioning is to be done as per the timeline mentioned in RfP. However, early commissioning shall be treated as per applicable CERC Regulations/orders.



Amendment-I dated 30.10.2024 on the Request for Proposal Document and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process.

Sl. No.	Clause No.	Existing Provisions	New / Revised Provisions
1.	RFP, TSA & SPA	Name of the Project Specific SPV	All the reference to the name of the SPV may be read as " <u>RATLE KIRU POWER TRANSMISSION LIMITED</u> ".



**Amendment-II dated 28.11.2024 on the Request for Proposal Document and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process.**

**300**

Sl. No.	Clause No.	Existing Clause	New/Revised Clause																																				
1	2.7.1 of RFP	<p>The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e., on or before 1500 hours (IST) on <u>29.11.2024</u>. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of Lol.</p> <p>Important timelines are mentioned below:</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Event</th> </tr> </thead> <tbody> <tr> <td><u>29.11.2024</u></td> <td>Submission of Bid (Online submission of Bid through electronic bidding portal)</td> </tr> <tr> <td><u>29.11.2024</u></td> <td>Opening of Technical Bid</td> </tr> <tr> <td><u>09.12.2024</u></td> <td>Shortlisting and announcement of Qualified Bidders on bidding portal</td> </tr> <tr> <td><u>10.12.2024</u></td> <td>Opening of Financial Bid - Initial Offer</td> </tr> <tr> <td><u>11.12.2024</u></td> <td>Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.</td> </tr> <tr> <td><u>16.12.2024</u></td> <td>Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer</td> </tr> <tr> <td><u>19.12.2024</u></td> <td>Selection of Successful Bidder and issue of LOI</td> </tr> <tr> <td><u>30.12.2024</u></td> <td>Signing of RFP Project Documents and transfer of Ratle Kiru V Power Transmission Limited</td> </tr> </tbody> </table>	Date	Event	<u>29.11.2024</u>	Submission of Bid (Online submission of Bid through electronic bidding portal)	<u>29.11.2024</u>	Opening of Technical Bid	<u>09.12.2024</u>	Shortlisting and announcement of Qualified Bidders on bidding portal	<u>10.12.2024</u>	Opening of Financial Bid - Initial Offer	<u>11.12.2024</u>	Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.	<u>16.12.2024</u>	Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer	<u>19.12.2024</u>	Selection of Successful Bidder and issue of LOI	<u>30.12.2024</u>	Signing of RFP Project Documents and transfer of Ratle Kiru V Power Transmission Limited	<p>The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e., on or before 1500 hours (IST) on <u>06.12.2024</u>. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of Lol.</p> <p>Important timelines are mentioned below:</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Event</th> </tr> </thead> <tbody> <tr> <td><u>06.12.2024</u></td> <td>Submission of Bid (Online submission of Bid through electronic bidding portal)</td> </tr> <tr> <td><u>06.12.2024</u></td> <td>Opening of Technical Bid</td> </tr> <tr> <td><u>16.12.2024</u></td> <td>Shortlisting and announcement of Qualified Bidders on bidding portal</td> </tr> <tr> <td><u>17.12.2024</u></td> <td>Opening of Financial Bid - Initial Offer</td> </tr> <tr> <td><u>18.12.2024</u></td> <td>Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.</td> </tr> <tr> <td><u>23.12.2024</u></td> <td>Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer</td> </tr> <tr> <td><u>26.12.2024</u></td> <td>Selection of Successful Bidder and issue of LOI</td> </tr> <tr> <td><u>06.01.2025</u></td> <td>Signing of RFP Project Documents and transfer of Ratle Kiru V Power Transmission Limited</td> </tr> </tbody> </table>	Date	Event	<u>06.12.2024</u>	Submission of Bid (Online submission of Bid through electronic bidding portal)	<u>06.12.2024</u>	Opening of Technical Bid	<u>16.12.2024</u>	Shortlisting and announcement of Qualified Bidders on bidding portal	<u>17.12.2024</u>	Opening of Financial Bid - Initial Offer	<u>18.12.2024</u>	Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.	<u>23.12.2024</u>	Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer	<u>26.12.2024</u>	Selection of Successful Bidder and issue of LOI	<u>06.01.2025</u>	Signing of RFP Project Documents and transfer of Ratle Kiru V Power Transmission Limited
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3	2.13.1 of RFP	<p>Opening of Envelope (Technical Bid): 1530 hours (IST) on <u>29.11.2024</u></p> <p>Opening of Initial Offer: Initial Offer shall be opened by the Bid Opening Committee in presence of the Bid Evaluation Committee at 1530 hours (IST) on <u>10.12.2024</u> in the office of CEA.</p>	<p>Opening of Envelope (Technical Bid): 1530 hours (IST) on <u>06.12.2024</u></p> <p>Opening of Initial Offer: Initial Offer shall be opened by the Bid Opening Committee in presence of the Bid Evaluation Committee at 1530 hours (IST) on <u>17.12.2024</u> in the office of CEA.</p>																																				





**301**

Amendment-III dated 05.12.2024 to the Request for Proposal Documents for selection of bidder as Transmission Service Provider to establish “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process.

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2.	Clause B.5.0 of RFP & TSA SPECIFIC TECHNICAL REQUIREMENT S FOR SUBSTATION	B.5.0 EXTENSION OF EXISTING SUBSTATION  Bidder is advised to visit the substation sites and acquaint themselves with the topography, infrastructure such as requirement of roads, cable trench, drainage, space availability in control rooms and LT panel room etc. and also the design philosophy.	B.5.0 EXTENSION OF EXISTING SUBSTATION  .....  <table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Drawing Title</th> <th>Drawing No./Details</th> <th>Rev. No.</th> </tr> </thead> <tbody> <tr> <td><u>A.</u></td> <td><u>400 kV Kishtwar S/s</u></td> <td></td> <td></td> </tr> <tr> <td><u>1.0</u></td> <td><u>Single Line Diagram</u></td> <td><u>KIST-KSW-11-02-001</u></td> <td><u>08</u></td> </tr> <tr> <td><u>2.0</u></td> <td><u>Earthmat Layout</u></td> <td><u>KIST-KSW-11-03-002</u></td> <td><u>01</u></td> </tr> <tr> <td><u>3.0</u></td> <td><u>Bus Bar Protection (400 kV System)</u></td> <td><u>Make: TOSHIBA</u> <u>Model: GRB200</u></td> <td>--</td> </tr> <tr> <td><u>4.0</u></td> <td><u>Substation Automation System (SAS)</u></td> <td><u>Make: Toshiba</u> <u>Model: GSC1000</u></td> <td>--</td> </tr> </tbody> </table>	Sl. No.	Drawing Title	Drawing No./Details	Rev. No.	<u>A.</u>	<u>400 kV Kishtwar S/s</u>			<u>1.0</u>	<u>Single Line Diagram</u>	<u>KIST-KSW-11-02-001</u>	<u>08</u>	<u>2.0</u>	<u>Earthmat Layout</u>	<u>KIST-KSW-11-03-002</u>	<u>01</u>	<u>3.0</u>	<u>Bus Bar Protection (400 kV System)</u>	<u>Make: TOSHIBA</u> <u>Model: GRB200</u>	--	<u>4.0</u>	<u>Substation Automation System (SAS)</u>	<u>Make: Toshiba</u> <u>Model: GSC1000</u>	--
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3.	Clause A.6.0 RFP & TSA SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINE	(A) For power line crossing of 400 kV or above voltage level large angle and dead end towers (i.e. D/DD/QD) shall be used on either side of power line crossing. (B) For power line crossing of 132 kV and 220 kV voltage level, angle towers (B/C/D/DB/DC/DD/QB/QC/QD) shall be used on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement. (C) For power line crossing of 66 kV and below voltage level, suspension/tension towers shall be provided on either side of power line crossing	<u>D.</u>	<u>400 kV Jalandhar S/s</u>		
			<u>1.0</u>	<u>Single Line Diagram</u>	<u>G&amp;B PGSS-JLN-E-001</u>	<u>1</u>
			<u>2.0</u>	<u>General Arrangement</u>	<u>G&amp;B-PGSS-JLN-E-002 (SHEET 1 OF 2 &amp; 2 OF 2)</u>	<u>1</u>
			<u>3.0</u>	<u>Earthmat Layout</u>	<u>G&amp;B-PGSS-JLN-E-012</u>	<u>00</u>
			<u>4.0</u>	<u>Visual Monitoring System</u>	<u>Make: PELCO</u> <u>Model: ---</u>	<u>--</u>
			<u>5.0</u>	<u>Bus Bar Protection (400 kV System)</u>	<u>400KV</u> <u>Make: GE</u> <u>Model: B90</u> <u>220KV</u> <u>Make: ABB</u> <u>Model: RADSS</u>	<u>--</u>
		(A) Under crossing of the existing transmission line of same Voltage shall not be allowed. In the case where it is inevitable to under-cross the existing transmission line then TSP shall seek prior approval from Chief Electrical Inspector, CEA with detailed study ensuring that all statutory electrical clearances and Electric Field limit of 10 kV/m at 1 m and 1.8 m from ground level is not violated. (B) For power line crossing of 400 kV or above voltage level large angle and dead end towers (i.e. D/DD/QD) shall be used on either side of power line crossing. (C) For power line crossing of 132 kV and 220 kV voltage level, angle towers (B/C/D/DB/DC/DD/QB/QC/QD) shall be used on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.				





Amendment-IV dated 09.12.2024 to the Request for Proposal Documents for selection of bidder as Transmission Service Provider to establish "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process.

Sl. No.	Clause No.	Existing/New Clause	New/Revised Clause
		depending upon the merit of the prevailing site condition and line deviation requirement. (D)For crossing of railways, national highways and state highways, the rules/ regulations of appropriate authorities shall be followed.	<b>(D)</b> For power line crossing of 66 kV and below voltage level, suspension/tension towers shall be provided on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement. <b>(E)</b> For crossing of railways, national highways and state highways, the rules/ regulations of appropriate authorities shall be followed.
4.	Clause A.21.0 RFP & TSA Specific Technical Requirements for Transmission Line	<b>New Clause</b>	<u>The stringing of the transmission line in forest area shall be carried out through drone.</u>
5.	Clause A.22.0 RFP & TSA Specific Technical Requirements for Transmission Line	<b>New Clause</b>	<u>The tower shall be designed considering the porcelain Insulators with creepage factor of 31 mm/ kV irrespective of type of insulator used.</u>
6.	Clause A.23.0 RFP & TSA Specific Technical Requirements for Transmission Line	<b>New Clause</b>	<u>RoW width and Span in different terrain shall be as per Schedule VII of CEA (Technical Standards for Construction of Electrical plants and Electric Lines) Regulations 2022 and RoW guidelines issued vide CEA-PS-14-86/2/2019-PSETD Division dated 24.09.2024.</u>



**306**  
**Amendment-V dated 13.12.2024 on the Request for Proposal Document and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process.**

Sl. No.	Clause No.	Existing Clause	New/Revised Clause																																				
1	2.7.1 of RFP	<p>The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e., on or before <b>1500</b> hours (IST) on <b>13.12.2024</b>. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of Lol.</p> <p>Important timelines are mentioned below:</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Event</th> </tr> </thead> <tbody> <tr> <td><b>13.12.2024</b></td> <td>Submission of Bid (Online submission of Bid through electronic bidding portal)</td> </tr> <tr> <td><b>13.12.2024</b></td> <td>Opening of Technical Bid</td> </tr> <tr> <td><b>23.12.2024</b></td> <td>Shortlisting and announcement of Qualified Bidders on bidding portal</td> </tr> <tr> <td><b>26.12.2024</b></td> <td>Opening of Financial Bid - Initial Offer</td> </tr> <tr> <td><b>27.12.2024</b></td> <td>Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.</td> </tr> <tr> <td><b>01.01.2025</b></td> <td>Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer</td> </tr> <tr> <td><b>06.01.2025</b></td> <td>Selection of Successful Bidder and issue of LOI</td> </tr> <tr> <td><b>16.01.2025</b></td> <td>Signing of RFP Project Documents and transfer of Ratle Kiru Power Transmission Limited</td> </tr> </tbody> </table>	Date	Event	<b>13.12.2024</b>	Submission of Bid (Online submission of Bid through electronic bidding portal)	<b>13.12.2024</b>	Opening of Technical Bid	<b>23.12.2024</b>	Shortlisting and announcement of Qualified Bidders on bidding portal	<b>26.12.2024</b>	Opening of Financial Bid - Initial Offer	<b>27.12.2024</b>	Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.	<b>01.01.2025</b>	Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer	<b>06.01.2025</b>	Selection of Successful Bidder and issue of LOI	<b>16.01.2025</b>	Signing of RFP Project Documents and transfer of Ratle Kiru Power Transmission Limited	<p>The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e., on or before <b>1600</b> hours (IST) on <b>20.12.2024</b>. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of Lol.</p> <p>Important timelines are mentioned below:</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Event</th> </tr> </thead> <tbody> <tr> <td><b>20.12.2024</b></td> <td>Submission of Bid (Online submission of Bid through electronic bidding portal)</td> </tr> <tr> <td><b>20.12.2024</b></td> <td>Opening of Technical Bid</td> </tr> <tr> <td><b>30.12.2024</b></td> <td>Shortlisting and announcement of Qualified Bidders on bidding portal</td> </tr> <tr> <td><b>31.12.2024</b></td> <td>Opening of Financial Bid - Initial Offer</td> </tr> <tr> <td><b>01.01.2025</b></td> <td>Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.</td> </tr> <tr> <td><b>06.01.2025</b></td> <td>Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer</td> </tr> <tr> <td><b>09.01.2025</b></td> <td>Selection of Successful Bidder and issue of LOI</td> </tr> <tr> <td><b>20.01.2025</b></td> <td>Signing of RFP Project Documents and transfer of Ratle Kiru Power Transmission Limited</td> </tr> </tbody> </table>	Date	Event	<b>20.12.2024</b>	Submission of Bid (Online submission of Bid through electronic bidding portal)	<b>20.12.2024</b>	Opening of Technical Bid	<b>30.12.2024</b>	Shortlisting and announcement of Qualified Bidders on bidding portal	<b>31.12.2024</b>	Opening of Financial Bid - Initial Offer	<b>01.01.2025</b>	Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.	<b>06.01.2025</b>	Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer	<b>09.01.2025</b>	Selection of Successful Bidder and issue of LOI	<b>20.01.2025</b>	Signing of RFP Project Documents and transfer of Ratle Kiru Power Transmission Limited
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**307**

**Amendment-VI dated 19.12.2024 on the Request for Proposal Document and Transmission Service Agreement for selection of bidder as Transmission Service Provider to establish "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process.**

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1	2.7.1 of RFP	<p>The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e., on or before 1600 hours (IST) on <u>20.12.2024</u>. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of Lol.</p> <p>Important timelines are mentioned below:</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Event</th> </tr> </thead> <tbody> <tr> <td><u>20.12.2024</u></td> <td>Submission of Bid (Online submission of Bid through electronic bidding portal)</td> </tr> <tr> <td><u>20.12.2024</u></td> <td>Opening of Technical Bid</td> </tr> <tr> <td><u>30.12.2024</u></td> <td>Shortlisting and announcement of Qualified Bidders on bidding portal</td> </tr> <tr> <td><u>31.12.2024</u></td> <td>Opening of Financial Bid - Initial Offer</td> </tr> <tr> <td><u>01.01.2025</u></td> <td>Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.</td> </tr> <tr> <td><u>06.01.2025</u></td> <td>Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer</td> </tr> <tr> <td><u>09.01.2025</u></td> <td>Selection of Successful Bidder and issue of LOI</td> </tr> <tr> <td><u>20.01.2025</u></td> <td>Signing of RFP Project Documents and transfer of Ratle Kiru Power Transmission Limited</td> </tr> </tbody> </table>	Date	Event	<u>20.12.2024</u>	Submission of Bid (Online submission of Bid through electronic bidding portal)	<u>20.12.2024</u>	Opening of Technical Bid	<u>30.12.2024</u>	Shortlisting and announcement of Qualified Bidders on bidding portal	<u>31.12.2024</u>	Opening of Financial Bid - Initial Offer	<u>01.01.2025</u>	Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.	<u>06.01.2025</u>	Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer	<u>09.01.2025</u>	Selection of Successful Bidder and issue of LOI	<u>20.01.2025</u>	Signing of RFP Project Documents and transfer of Ratle Kiru Power Transmission Limited	<p>The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e., on or before 1600 hours (IST) on <u>27.12.2024</u>. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of Lol.</p> <p>Important timelines are mentioned below:</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Event</th> </tr> </thead> <tbody> <tr> <td><u>27.12.2024</u></td> <td>Submission of Bid (Online submission of Bid through electronic bidding portal)</td> </tr> <tr> <td><u>27.12.2024</u></td> <td>Opening of Technical Bid</td> </tr> <tr> <td><u>06.01.2025</u></td> <td>Shortlisting and announcement of Qualified Bidders on bidding portal</td> </tr> <tr> <td><u>07.01.2025</u></td> <td>Opening of Financial Bid - Initial Offer</td> </tr> <tr> <td><u>08.01.2025</u></td> <td>Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.</td> </tr> <tr> <td><u>13.01.2025</u></td> <td>Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer</td> </tr> <tr> <td><u>16.01.2025</u></td> <td>Selection of Successful Bidder and issue of LOI</td> </tr> <tr> <td><u>27.01.2025</u></td> <td>Signing of RFP Project Documents and transfer of Ratle Kiru Power Transmission Limited</td> </tr> </tbody> </table>	Date	Event	<u>27.12.2024</u>	Submission of Bid (Online submission of Bid through electronic bidding portal)	<u>27.12.2024</u>	Opening of Technical Bid	<u>06.01.2025</u>	Shortlisting and announcement of Qualified Bidders on bidding portal	<u>07.01.2025</u>	Opening of Financial Bid - Initial Offer	<u>08.01.2025</u>	Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.	<u>13.01.2025</u>	Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer	<u>16.01.2025</u>	Selection of Successful Bidder and issue of LOI	<u>27.01.2025</u>	Signing of RFP Project Documents and transfer of Ratle Kiru Power Transmission Limited
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Amendment-VII dated 21.12.2024 to the Request for Proposal Documents for selection of bidder as Transmission Service Provider to establish "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process.



Sl. N	Clause No.	Existing Clause	New/Revised Clause
1.	<p>Clause C.1.0 of RFP &amp; TSA</p> <p>Specific Technical Requirements for Communication</p>	<p><b>C.1.0 LILO of 400 kV Kishenpur- Dulhasti S/c line at Kishtwar S/s</b></p> <p>On LILO of 400 kV Kishenpur- Dulhasti S/c line at Kishtwar S/s, TSP shall supply, install and commission OPGW and earthwire as per Tower Configurations:</p> <p>(I) Loop-In and Loop out Ckt on Single Towers: Two (2) No. OPGW cable containing <b>24 Fibres (24F)</b> to be installed and commissioned by the TSP on both the Earthwire peaks.</p> <p>(II) Loop-In and Loop out Ckt on Two separate Towers: One (1) No. OPGW cable containing <b>24 Fibres (24F)</b> on one earthwire peak and conventional earthwire on other E/W peak for both Loop In and Loop Out Lines.</p> <p>The TSP shall install OPGW cables from gantry of Kishtwar S/s up to the LILO tower with all associated hardware including Vibration Dampers, mid-way and Gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at Kishtwar S/s. The transmission line length is 3 km (approx.). After LILO, if fiber length for links Kishtwar - Kishenpur and Kishtwar - Dulhasti is above 225 kms then repeater shall be envisaged, otherwise line can be managed as a repeater less link.</p>	<p><b>C.1.0 LILO of 400 kV Kishenpur- Dulhasti S/c line at Kishtwar S/s</b></p> <p>On LILO of 400 kV Kishenpur- Dulhasti S/c line at Kishtwar S/s, TSP shall supply, install and commission OPGW and earthwire as per Tower Configurations:</p> <p>(I) Loop-In and Loop out Ckt on Single Towers: Two (2) No. OPGW cable containing <b>48 Fibres (48F)</b> to be installed and commissioned by the TSP on both the Earthwire peaks.</p> <p>(II) Loop-In and Loop out Ckt on Two separate Towers: One (1) No. OPGW cable containing <b>48 Fibres (48F)</b> on one earthwire peak and conventional earthwire on other E/W peak for both Loop In and Loop Out Lines.</p> <p>The TSP shall install OPGW cables from gantry of Kishtwar S/s up to the LILO tower with all associated hardware including Vibration Dampers, mid-way and Gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at Kishtwar S/s. The transmission line length is 3 km (approx.). After LILO, if fiber length for links Kishtwar - Kishenpur and Kishtwar - Dulhasti is above 225 kms then repeater shall be envisaged, otherwise line can be managed as a repeater less link.</p>

Amendment-VII dated 21.12.2024 to the Request for Proposal Documents for selection of bidder as Transmission Service Provider to establish "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process.

2.	Clause C.2.0 of RFP & TSA Specific Technical Requirements for Communication	<p><b>C.2.0 FOTE requirement at 400 kV Kishtwar S/s</b></p> <p>(I) TSP shall supply, install and commission 1 No. FODP <u>(72F or higher)</u> alongwith panel and required Approach Cable <u>(24F)</u> with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.</p> <p>(II) TSP shall supply, install and commission One STM-16 (FOTE) equipment alongwith panel/s supporting minimum Three (3) directions with MSP (Multiplex Section Protection – 1+1) with necessary interfaces to meet the voice and data communication requirement among 400 kV Dulhasti S/s, 400 kV Kishenpur S/s and local patching with Control Room FOTE. The suitable DC Power Supply and backup to be provided for communication equipment.</p> <p>(III) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of 400 kV Kishtwar S/s which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.</p> <p>In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, The TSP may integrate the FOTE</p>	<p><b>C.2.0 FOTE requirement at 400 kV Kishtwar S/s</b></p> <p>(I) TSP shall supply, install and commission 1 No. FODP <u>(144F or higher)</u> alongwith panel and required Approach Cable <u>(48F)</u> with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.</p> <p>(II) TSP shall supply, install and commission One STM-16 (FOTE) equipment alongwith panel/s supporting minimum Three (3) directions with MSP (Multiplex Section Protection – 1+1) with necessary interfaces to meet the voice and data communication requirement among 400 kV Dulhasti S/s, 400 kV Kishenpur S/s and local patching with Control Room FOTE. The suitable DC Power Supply and backup to be provided for communication equipment.</p> <p>(III) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of 400 kV Kishtwar S/s which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.</p> <p>In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to</p>
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Amendment-VII dated 21.12.2024 to the Request for Proposal Documents for selection of bidder as Transmission Service Provider to establish “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process.

		<p>under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).</p> <p>(IV) FOTE and FODP can be accommodated in same panel to optimize space.</p> <p>(V) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank shall be the responsibility of TSP.</p>	<p>reconfigure the directions in existing FOTE at control room. Alternatively, The TSP may integrate the FOTE under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).</p> <p>(IV) FOTE and FODP can be accommodated in same panel to optimize space.</p> <p>(V) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank shall be the responsibility of TSP.</p>
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Amendment-VII dated 21.12.2024 to the Request for Proposal Documents for selection of bidder as Transmission Service Provider to establish "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process.

3.	<p>Clause C.3.0 of RFP &amp; TSA</p> <p>Specific Technical Requirements for Communication</p>	<p><b>C.3.0 400 kV Kishenpur-Samba D/C line</b></p> <p>(I) On 400 kV Kishenpur - Samba D/C line (Quad), TSP shall supply, install and commission One (1) No. OPGW cable containing <b>24 Fibres (24F)</b> on one E/W peak and conventional earth wire on other E/W peak.</p> <p>(II) The TSP shall install this OPGW from gantry of 400 kV Kishenpur S/s up to the gantry of 400 kV Samba S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at end Substations. The transmission line length is 36 km (approx.), where repeater may not be required to meet the link budget requirement of 400 kV Kishenpur-Samba D/C link.</p> <p>(III) Maintenance of OPGW Cable and OPGW Hardware shall be responsibility of TSP.</p>	<p><b>C.3.0 400 kV Kishenpur-Samba D/C line</b></p> <p>(I) On 400 kV Kishenpur - Samba D/C line (Quad), TSP shall supply, install and commission One (1) No. OPGW cable containing <b>48 Fibres (48F)</b> on one E/W peak and conventional earth wire on other E/W peak.</p> <p>(II) The TSP shall install this OPGW from gantry of 400 kV Kishenpur S/s up to the gantry of 400 kV Samba S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at end Substations. The transmission line length is 36 km (approx.), where repeater may not be required to meet the link budget requirement of 400 kV Kishenpur-Samba D/C link.</p> <p>(III) Maintenance of OPGW Cable and OPGW Hardware shall be responsibility of TSP.</p>
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<p>4. Clause C.4.0 of RFP &amp; TSA Specific Technical Requirements for Communication</p>	<p><b>C.4.0 400 kV Samba-Jalandhar D/C line and Bypassing of Jalandhar – Nakodar line at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line thus forming 400 kV Samba –Nakodar direct line</b></p> <p>I. On 400 kV Samba-Jalandhar D/C line, TSP shall supply, install and commission two (2) No. OPGW cable containing <b>24 Fibres (24F)</b> on both the E/W peaks of D/C Tower.</p> <p>II. One number OPGW <b>(24F)</b> shall terminate at Gantry of Jalandhar and another shall be by-passing Jalandhar S/s to form a link between Samba – Nakodar in similar transmission line route.</p> <p>III. The TSP shall install one No. OPGW from gantry of Samba S/s up to the gantry of Jalandhar S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at end Substation. The transmission line length is 145 km (approx.).</p> <p>IV. The TSP shall install one No. OPGW from gantry of Samba S/s up to the bypassing tower of Samba-Jalandhar D/C line of second circuit and forming a link between Samba- Nakodar. TSP shall install all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at bypass tower. The transmission line length is 145 kms (approx.).</p>	<p><b>C.4.0 400 kV Samba-Jalandhar D/C line and Bypassing of Jalandhar – Nakodar line at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line thus forming 400 kV Samba –Nakodar direct line</b></p> <p>I. On 400 kV Samba-Jalandhar D/C line, TSP shall supply, install and commission two (2) No. OPGW cable containing <b>48 Fibres (48F)</b> on both the E/W peaks of D/C Tower.</p> <p>II. One number OPGW <b>(48F)</b> shall terminate at Gantry of Jalandhar and another shall be by-passing Jalandhar S/s to form a link between Samba – Nakodar in similar transmission line route.</p> <p>III. The TSP shall install one No. OPGW from gantry of Samba S/s up to the gantry of Jalandhar S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at end Substation. The transmission line length is 145 km (approx.).</p> <p>IV. The TSP shall install one No. OPGW from gantry of Samba S/s up to the bypassing tower of Samba-Jalandhar D/C line of second circuit and forming a link between Samba- Nakodar. TSP shall install all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at bypass tower.</p>
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Amendment-VII dated 21.12.2024 to the Request for Proposal Documents for selection of bidder as Transmission Service Provider to establish “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process.

		<p>After forming complete link between Samba-Nakodar if repeater is required to meet the link budget requirement of Samba-Nakodar link, the same shall be provided by TSP.</p> <p>TSP shall also provide necessary optical interfaces in the FOTE of Nakodar as per revised link budget of link after making a link between Samba- Nakodar.</p>	<p>The transmission line length is 145 kms (approx.). After forming complete link between Samba- Nakodar if repeater is required to meet the link budget requirement of Samba-Nakodar link, the same shall be provided by TSP.</p> <p>TSP shall also provide necessary optical interfaces in the FOTE of Nakodar as per revised link budget of link after making a link between Samba- Nakodar.</p>
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<p>5. Appendix F.1: SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION</p>	<p><b>Repeater Requirements</b></p> <ul style="list-style-type: none"> <li>If the repeater location is finalized in the Control Room of a nearby substation, TSP shall provide <u>1 no. OPGW (48F)</u> on a single Earthwire peak with OPGW Hardware &amp; mid-way Joint Boxes etc. of the line crossing the main line and <u>1 no. Approach Cable (48F)</u> with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the repeater equipment in substation control room.</li> </ul> <p>TSP shall co-ordinate for Space &amp; DC power supply sharing for repeater equipment.</p> <p>TSP shall provide FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link.</p> <p>OR</p> <ul style="list-style-type: none"> <li>If the repeater location is finalized in the nearby substation premises, the TSP shall identify the Space for repeater shelter in consultation with station owner. Further TSP shall provide <u>1 no. OPGW (48F)</u> on a single Earthwire peak with OPGW Hardware &amp; mid-way Joint Boxes etc. of the line crossing the main line and <u>1 no. Approach Cable (48F) / UGFO (48F)</u> with all associated hardware fittings, to establish connectivity between</li> </ul>	<p><b>Repeater Requirements</b></p> <ul style="list-style-type: none"> <li>If the repeater location is finalized in the Control Room of a nearby substation, TSP shall provide <u>OPGW to accommodate all the fibers in main transmission line</u> on a single Earthwire peak with OPGW Hardware &amp; mid-way Joint Boxes etc. of the line crossing the main line <u>and required approach Cable to accommodate all the OPGW fibers</u> with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the repeater equipment in substation control room.</li> </ul> <p>TSP shall co-ordinate for Space &amp; DC power supply sharing for repeater equipment.</p> <p>TSP shall provide FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link.</p> <p>OR</p> <ul style="list-style-type: none"> <li>If the repeater location is finalized in the nearby substation premises, the TSP shall identify the Space for repeater shelter in consultation with station owner. Further TSP shall provide <u>OPGW to accommodate all the fibers in main transmission line</u> on a single Earthwire peak with OPGW Hardware &amp; mid-way Joint Boxes etc. of the line crossing the main line and <u>required approach Cable/UGFO to accommodate all the</u></li> </ul>
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	<p>crossing point of main transmission line up to the substation where the repeater shelter is to be housed.</p> <p>TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems.</p> <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> <li>If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide <b>1 no. Approach Cable (48F) / UGFO (48F)</b> with all associated hardware fittings to establish connectivity up to the location of repeater shelter.</li> </ul> <p>TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems</p>	<p><b>OPGW fibers</b> with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the substation where the repeater shelter is to be housed.</p> <p>TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems.</p> <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> <li>If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide <b>required approach Cable to accommodate all the OPGW fibers</b> with all associated hardware fittings to establish connectivity up to the location of repeater shelter.</li> </ul> <p>TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems</p> <p>Maintenance of OPGW Cable and OPGW Hardware, repeater equipment &amp; items associated with repeater shelter shall be responsibility of TSP.</p>
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Amendment-VII dated 21.12.2024 to the Request for Proposal Documents for selection of bidder as Transmission Service Provider to establish "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process.

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6.	Frequently Asked Queries: 3.3 Communication	<p>3.3 How is the OPGW laying done in case of LILO lines?</p> <p><b>Reply:</b> In case LILO lines are on same towers (e.g. both Line In and Line Out portion are on same towers, generally done LILO of S/C lines). Then <u>2x24F</u> OPGW shall be required to install by TSP on both earthwire peak on 400 kV &amp; 765 kV lines where two E/W peaks are available. On 220 &amp; 132 kV lines where only one E/W peak is available TSP to install one no. <u>48F</u> OPGW.</p> <p>Incase LILO lines are on different towers (e.g. both Line In and Line Out portion are on different towers, generally done LILO of D/C lines). Then <u>1x24F</u> OPGW shall be required to install by TSP on one earthwire peak and conventional earthwire on second earthwire peak, on both Line In and Line Out portion towers of 400 kV &amp; 765 kV lines. On 220 &amp; 132 kV lines where only one E/W peak is available TSP to install one no. <u>24F</u> OPGW in place of conventional earthwire.</p>	<p>3.3 How is the OPGW laying done in case of LILO lines?</p> <p><b>Reply:</b> In case LILO lines are on same towers (e.g. both Line In and Line Out portion are on same towers, generally done LILO of S/C lines). Then <u>2x48F</u> OPGW shall be required to install by TSP on both earthwire peak on 400 kV &amp; 765 kV lines where two E/W peaks are available. On 220 &amp; 132 kV lines where only one E/W peak is available TSP to install one no. <u>96F</u> OPGW.</p> <p>Incase LILO lines are on different towers (e.g. both Line In and Line Out portion are on different towers, generally done LILO of D/C lines). Then <u>1x48F</u> OPGW shall be required to install by TSP on one earthwire peak and conventional earthwire on second earthwire peak, on both Line In and Line Out portion towers of 400 kV &amp; 765 kV lines. On 220 &amp; 132 kV lines where only one E/W peak is available TSP to install one no. <u>48F</u> OPGW in place of conventional earthwire.</p>
		<p>3.4 How is the OPGW laying done in case Multi circuit Towers?</p> <p><b>Reply:</b> In case two different lines are using common multi circuit portion for some distance (originating from different stations, may be terminating on same or on different stations). Two</p>	<p>3.4 How is the OPGW laying done in case Multi circuit Towers?</p> <p><b>Reply:</b> In case two different lines are using common multi circuit portion for some distance (originating from different stations, may be terminating on same or on different stations). Two</p>



Amendment-VII dated 21.12.2024 to the Request for Proposal Documents for selection of bidder as Transmission Service Provider to establish "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process.

		<p>no. <u>24F</u> OPGW to be installed on both E/W peaks for common M/C portion of 765 kV &amp; 400 kV lines.</p> <p>Incase 220/132 kV lines using multi circuit portion where single E/W peak is available one no <u>48F</u> may be installed for common multi circuit portion.</p>	<p>no. <u>48F</u> OPGW to be installed on both E/W peaks for common M/C portion of 765 kV &amp; 400 kV lines.</p> <p>Incase 220/132 kV lines using multi circuit portion where single E/W peak is available one no <u>96F</u> may be installed for common multi circuit portion.</p>
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**319**  
**Amendment-VIII dated 27.12.2024 on the Request for Proposal Document and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process.**

Sl. No.	Clause No.	Existing Clause	New/Revised Clause																																				
1	2.7.1 of RFP	<p>The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e., on or before <b>1600</b> hours (IST) on <b>27.12.2024</b>. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of Lol.</p> <p>Important timelines are mentioned below:</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Event</th> </tr> </thead> <tbody> <tr> <td><b>27.12.2024</b></td> <td>Submission of Bid (Online submission of Bid through electronic bidding portal)</td> </tr> <tr> <td><b>27.12.2024</b></td> <td>Opening of Technical Bid</td> </tr> <tr> <td><b>06.01.2025</b></td> <td>Shortlisting and announcement of Qualified Bidders on bidding portal</td> </tr> <tr> <td><b>07.01.2025</b></td> <td>Opening of Financial Bid - Initial Offer</td> </tr> <tr> <td><b>08.01.2025</b></td> <td>Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.</td> </tr> <tr> <td><b>13.01.2025</b></td> <td>Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer</td> </tr> <tr> <td><b>16.01.2025</b></td> <td>Selection of Successful Bidder and issue of LOI</td> </tr> <tr> <td><b>27.01.2025</b></td> <td>Signing of RFP Project Documents and transfer of Ratle Kiru Power Transmission Limited</td> </tr> </tbody> </table>	Date	Event	<b>27.12.2024</b>	Submission of Bid (Online submission of Bid through electronic bidding portal)	<b>27.12.2024</b>	Opening of Technical Bid	<b>06.01.2025</b>	Shortlisting and announcement of Qualified Bidders on bidding portal	<b>07.01.2025</b>	Opening of Financial Bid - Initial Offer	<b>08.01.2025</b>	Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.	<b>13.01.2025</b>	Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer	<b>16.01.2025</b>	Selection of Successful Bidder and issue of LOI	<b>27.01.2025</b>	Signing of RFP Project Documents and transfer of Ratle Kiru Power Transmission Limited	<p>The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e., on or before <b>1500</b> hours (IST) on <b>03.01.2025</b>. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of Lol.</p> <p>Important timelines are mentioned below:</p> <table border="1"> <thead> <tr> <th>Date</th> <th>Event</th> </tr> </thead> <tbody> <tr> <td><b>03.01.2025</b></td> <td>Submission of Bid (Online submission of Bid through electronic bidding portal)</td> </tr> <tr> <td><b>03.01.2025</b></td> <td>Opening of Technical Bid</td> </tr> <tr> <td><b>13.01.2025</b></td> <td>Shortlisting and announcement of Qualified Bidders on bidding portal</td> </tr> <tr> <td><b>14.01.2025</b></td> <td>Opening of Financial Bid - Initial Offer</td> </tr> <tr> <td><b>15.01.2025</b></td> <td>Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.</td> </tr> <tr> <td><b>20.01.2025</b></td> <td>Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer</td> </tr> <tr> <td><b>23.01.2025</b></td> <td>Selection of Successful Bidder and issue of LOI</td> </tr> <tr> <td><b>03.02.2025</b></td> <td>Signing of RFP Project Documents and transfer of Ratle Kiru Power Transmission Limited</td> </tr> </tbody> </table>	Date	Event	<b>03.01.2025</b>	Submission of Bid (Online submission of Bid through electronic bidding portal)	<b>03.01.2025</b>	Opening of Technical Bid	<b>13.01.2025</b>	Shortlisting and announcement of Qualified Bidders on bidding portal	<b>14.01.2025</b>	Opening of Financial Bid - Initial Offer	<b>15.01.2025</b>	Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.	<b>20.01.2025</b>	Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer	<b>23.01.2025</b>	Selection of Successful Bidder and issue of LOI	<b>03.02.2025</b>	Signing of RFP Project Documents and transfer of Ratle Kiru Power Transmission Limited
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3	2.13.1 of RFP	<p>Opening of Envelope (Technical Bid): <b>1630</b> hours (IST) on <b>27.12.2024</b></p> <p>Opening of Initial Offer: Initial Offer shall be opened by the Bid Opening Committee in presence of the Bid Evaluation Committee at <b>1630</b> hours (IST) on <b>07.01.2025</b> in the office of CEA.</p>	<p>Opening of Envelope (Technical Bid): <b>1530</b> hours (IST) on <b>03.01.2025</b></p> <p>Opening of Initial Offer: Initial Offer shall be opened by the Bid Opening Committee in presence of the Bid Evaluation Committee at <b>1530</b> hours (IST) on <b>14.01.2025</b> in the office of CEA.</p>																																				



Amendment-IX dated 01.01.2025 to the Request for Proposal Documents for selection of bidder as Transmission Service Provider to establish "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process.

Sl. No.	Clause No.	Existing/New Clause	New/Revised Clause
1.	Clause A.22.0 RFP & TSA Specific Technical Requirements for Transmission Line	<u>The tower shall be designed considering the porcelain Insulators with creepage factor of 31 mm/ kV irrespective of type of insulator used.</u>	deleted




**321**

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
1.	RFP & TSA	General	We request you to clarify whether there are any deviations/addition in the RFP/TSA documents from the Standard Bidding documents (SBD) and if any, whether approval for the same has been taken or not. Please provide the list of the same, if any.			The RFP/ TSA Documents are as per the Standard Bidding Documents (SBDs) and subsequent amendments issued by the Ministry of Power, GoI.
2.	RFP	General	Please let us know the status of Regulatory Approvals for the project.		SPV Acquisition is linked to regulatory approval and it is very important to get the clearance before RFP Submission as this will impact the initiation of projects.	Transmission scheme is approved and notified by Central Government in terms of Electricity (Transmission System Planning, Development and Recovery of Inter-State Transmission Charges) Rules, 2021.
3.	RFP	General	We request you to let us know the status of TSA signing.		SPV Acquisition is linked to TSA Signing and it is very important to get the clearance before RFP Submission as this will impact the initiation of projects	As per revised TBCB Guidelines and SBD issued by MoP, GoI, TSP on the date of acquisition of SPV from the BPC will enter into a Transmission Service Agreement (TSA) with the Nodal Agency.
4.	RFP	Clause 1.6.2.1 (2): To obtain approval for laying of	It is requested you to kindly provide present status of process initiated by BPC with			The approval of Electricity Act will be shared with the successful bidder.



Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process


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		overhead transmission lines under Section 68 of Electricity Act, from the Government at least twenty (20) days prior to Bid Deadline.	regard to section 68 approval.			
5.	RFP	<b>Clause 1.6.2.1 (4):</b> To initiate process of seeking forest clearance, if required.	It is requested you to kindly provide present status of Forest Clearances if any transmission line corridor area falling in wildlife forest / reserve forest/ mangroves.			BPC will complete its responsibilities as listed in the RFP documents. Please also refer Clause 1.6 & 2.5.7 of the RFP document.
6.	RFP	<b>Clause 1.6.2.2:</b> The details and documents as may be obtained by the BPC/ project specific SPV in relation to the Project shall be handed over to the TSP on an as-is-where-is basis, so that it may take further actions to obtain Consents,	Please provide copy of all such document available with you from the State Government and/or Ministry of Power and/or kindly facilitate for State Support Agreement.			The support will be provided on case-to-case basis, within applicable laws and regulatory framework.  

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process

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7.	RFP	Clearances and Permits Clause 1.10 The Ministry of Power and the appropriate state government(s) shall provide their support to the TSP, on best endeavor basis, in enabling the TSP to develop the Project.	We request you to share all such documents or correspondence happened with MOP and State Government, this will help the TSP is taking further approvals for the project.			The support will be provided on case-to-case basis, within applicable laws and regulatory framework.
8.	RFP	Clause 2.15.2 Within ten (10) days of the issue of the Letter of Intent, the Selected Bidder shall: a) provide the Contract Performance Guarantee in favour of the Nodal Agency as per the provisions of Clause 2.12	BPC will appreciate that the completion of said activities by the Selected Bidder within ten (10) days after issuance of Lol is very stringent. Also, execution of SPV / signing of share purchase agreement is not within the control of TSP as it is dependent on certain regulatory approvals as well. We therefore request to consider at least 30 days' time for completion of these activities as well as provide a carve out for consequences if the delay is not			This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.




Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process


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		<p>b) execute the Share Purchase Agreement and the Transmission Service Agreement</p> <p>acquire, for the Acquisition Price, one hundred percent (100%) equity shareholding of [Insert the name of the SPV] from REC Power Development and Consultancy Limited, who shall sell to the Selected Bidder, the equity shareholding of [Insert the name of the SPV], along with all its related assets and liabilities;</p>	<p>on account of TSP.</p>			



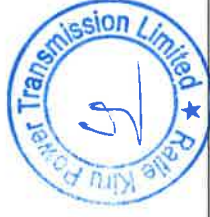
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9.	RFP	Clause 2.15.2 Stamp duties payable on purchase of one hundred percent (100%) of the equity shareholding of [Insert the name of the SPV], along with all its related assets and liabilities, shall also be borne by the Selected Bidder.	We request you to provide Applicable Stamp Duty Charges and Amount of Stamp Paper for the following agreements: i. Transmission Service Agreement ii. Share Purchase Agreement iii. Power of Attorney iv. Share Transfer Form It will be helpful if you can specify the name of 1st party and 2nd party for purchase of stamp papers.			Kindly refer Clause 2.5.7 of the RFP Document.  Name of the 1st party and 2nd party would be as per respective document / agreement.
10.	RFP	Clause 2.15.4 Within five (5) working days of the issue of the acquisition of the SPV by the Successful Bidder, the TSP shall apply to the Commission for grant of Transmission License and make an application to		Clause 2.15.4 may be reworded as below -  Within ten (10) working days of the issue of the acquisition of the SPV by the Successful Bidder, the TSP shall apply to the Commission for grant of Transmission License and make an application to the	The condition to apply for grant of transmission license and make application for adoption of transmission charges within 5 days is onerous. Request to please change the relevant provisions as per the suggested text in RFP and TSA	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.  

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-~~State~~ Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process

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11.	RFP	<p>the Commission for the adoption of Transmission Charges, as required under Section – 63 of The Electricity Act 2003.</p> <p>Clause 2.15.5</p> <p>If the Selected Bidder / TSP fails or refuses to comply with any of its obligations under Clauses 2.15.2, 2.15.3 and 2.15.4, and provided that the other parties are willing to execute the Share Purchase Agreement and REC Power Development and Consultancy Limited is willing to sell the entire equity shareholding</p>	<p>It is requested to kindly clarify as to what will be the consequences if the Selected Bidders fails to comply with any of its obligations under 2.15.2, 2.15.3 and 2.15.3 due to reasons beyond the control of or not attributable to Selected Bidder / TSP.</p> <p>As the consequences for failure to comply the obligations under 2.15.2, 2.15.3 and 2.15.3 is the cancellation of Letter of Intent (LOI). We request you to reconsider the same as it would be unfair if LOI of selected bidder is cancelled due to reasons beyond its control.</p>	<p>Commission for the adoption of Transmission Charges, as required under Section – 63 of The Electricity Act 2003.</p>		<p>Provisions of RFP Document are amply clear in this regard and shall prevail.</p> 

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

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		of [Insert the name of the SPV], along with all its related assets and liabilities, to the Selected Bidder, such failure or refusal on the part of the Selected Bidder shall constitute sufficient grounds for cancellation of the Letter of Intent. In such cases, the BPC / its authorized representative(s) shall be entitled to invoke the Bid Bond of the Selected Bidder.				
12.	RFP	<b>Clause 2.4.3</b> The amendment to the RFP shall be notified to all the Bidders through the electronic bidding platform and shall be	We understand that the BPC will also continue to share amendments / corrigendum through emails as per the current practice.			Yes 

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

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13.	RFP	binding on them. <b>Clause 3.6.1</b> However, if no bid is received during the e-reverse bidding stage then the Bidder with lowest quoted initial transmission charges ("Initial Offer") during e-bidding stage shall be declared as the Successful Bidder, .....	We request you to clarify, if two or more bidders quote the same initial offer which turns out to be prevailing lowest levelized tariff and no further discount is offered by any bidder during e-reverse auction. In such case what will be the modality BPC will follow for award of project. BPC to confirm			As per provisions of RFP, bidders have to quote transmission charges upto 2 decimal points. Therefore, it is practically not possible to have same Initial Offer from two or more bidders. However, if such situation arises, appropriate decision will be taken by the competent authority.
14.	RFP	General	We request you to kindly accept the Board resolutions passed by Management Committees formed by the Board of Directors of Bidding Company and TEE / affiliate respectively and duly authorized by the Board of Directors for participation in various tenders issued by Govt. authorities in response to the RFP submission.		The board meeting of Bidding Company / TEE may not be scheduled till RFP submission.  Thus, we request you to kindly consider the board resolution passed by the management committee formed by the board of directors' w.r.t. Authorization from Bidding Company	Provisions of RFP Document are amply clear in this regard.




Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-~~State~~ Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

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15.	RFP	ANNEXURE 22 – FORMAT FOR AFFIDAVIT	We understand that the declaration and details with respect to conviction and investigation is to be provided for Affiliate / Parent company of the Bidding company only if such an Affiliate / Parent company is being used for meeting financial / technical qualification requirements.		and TEE.	The declaration and details with respect to Clause 2.1.9 of RFP is to be provided by the bidding company including Affiliate / Parent company of the Bidding company being used for meeting financial / technical qualification requirements as per Annexure 22 of the RFP document.
16.	TSA	<b>Article 3.3.1</b> If any of the conditions specified in Article 3.1.3 is not duly fulfilled by the TSP even within three (3) Months after the time specified therein, then on and from the expiry of such period and until the TSP has satisfied all the conditions specified in Article 3.1.3, the TSP shall, on a monthly basis, be liable to	In view of the rationale provided here, it is requested to amend the provision regarding refund of additional CPG on fulfillment of Conditions Subsequent.		Additional CPG shall be recovered for the non-fulfillment of Conditions Subsequent. However, this additional CPG is then forming part of CPG and is being retained by Nodal Agency. Considering the fact that additional CPG is consequential guarantee for performance related to condition subsequent, it is requested to review the provision and amend the provision to refund the	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.





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		furnish to Central Transmission Utility of India Limited (being the Nodal Agency) additional Contract Performance Guarantee of Rs. 1.84 Crore (Rupees One Crore Eighty Four Lakh Only) within two (2) Business Days of expiry of every such Month. Such additional Contract Performance Guarantee shall be provided to Central Transmission Utility of India Limited (being the Nodal Agency) in the manner provided in Article 3.1.1 and shall become part of the Contract Performance Guarantee and all			additional CPG on fulfillment of Conditions Subsequent.	



Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-<sup>State</sup> Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process


S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		the provisions of this Agreement shall be construed accordingly. Central Transmission Utility of India Limited (being the Nodal Agency) shall be entitled to hold and / or invoke the Contract Performance Guarantee, including such additional Contract Performance Guarantee, in accordance with the provisions of this Agreement.				
17.	TSA	<b>Clause 1.6.1.5</b> The TSP shall seek approval under Section 164 of Electricity Act, from CEA after acquisition of [Insert the name of the SPV], The	It is requested you to kindly clarify whether process of obtaining authorization U/s 164 of Electricity Act, 2003 would be initiated by BPC.	It is suggested that BPC may initiate the process for obtaining approval U/s 164 based on the survey undertaken by BPC.	It may be appreciated that obtaining approval U/s 164 takes considerable time. In the interest of timely completion of project, it is suggested that BPC may initiate the	BPC will complete its responsibilities as listed in the RFP documents.  Please also refer Clause 1.6 & 2.5.7 of the RFP document.



Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-<sup>State</sup> Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process

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18.	TSA	approval shall be granted by CEA generally within 30 days but in no case later than 45 days from the date of receipt of application (complete in all aspects).	TSP is required to obtain certain clearances/ approval such as authorization u/s 164, Forest clearance, Grant of Transmission License and approval for adoption of tariff etc. In case if there is any delay in these approvals beyond stipulated time, such delay shall be considered for extension of SCOD of the project and any consequential increase in cost shall be allowed through appropriate adjustment in the tariff.		Clearances/ approval such as authorization u/s 164, Forest clearance, Grant of Transmission License and approval for adoption of tariff are not within the control of TSP once it has been applied after fulfilling all the necessary compliance, any consequential delay is required to be allowed.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.
19.	TSA	<b>Article 5.1.2</b> The TSP acknowledges and agrees that it shall not be relieved	TSP cannot be burdened with impact of unsuitability of the site or transmission line route due to reasons beyond control. Therefore, suitable revision may		There may be number of reasons for unsuitability of the site or transmission line route which are beyond	This is as per the SBD and amendments thereof issued by the Ministry of Power and hence, no change is envisaged.

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20.	TSA	<p>from any of its obligations under this Agreement or be entitled to any extension of time or any compensation whatsoever by the reason of the unsuitability of the Site or Transmission Line route(s).</p> <p><b>Article 5.6 Site regulations and Construction Documents</b> The TSP shall abide by the Safety Rules and Procedures as mentioned in Schedule 3 of this Agreement The TSP shall retain at the Site and make available for inspection at all reasonable times copies of the</p>	<p>be carried out in clause 5.1.2.</p> <p>Inspection of Construction drawings and other documents related to construction may be deleted from clause no. 5.6.</p>	<p>control of the TSP. For such instances, suitable extension of time and appropriate adjustment in tariff shall be provided.</p> <p>Construction drawings and few specific documents may be proprietary/ confidential and is against commercial interest of the TSP.</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>	

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21.	TSA	Consents, Clearances and Permits, construction drawings and other documents related to construction.  <b>Article. 6.4.1</b> Liquidated Damages for Delay in achieving COD of Project by TSP.	If the TSP fails to achieve COD for any Element of the Project or for the Project by SCOD, then the TSP is required to pay liquidated damages. It is noted that, Clause 6.4.1 of the TSA does not exclude delays caused due to a Force Majeure or Nodal Agency's default. This may well be a drafting oversight and may be clarified. The TSP should also not be liable to pay liquidated damages in the event the delay is not attributable to the TSP. Accordingly, it may be clarified that no damages will be payable in the event the delay is on account of Force Majeure or Nodal Agency's default.			This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.
22.	TSA	<b>Article 11.3 Force Majeure</b> A 'Force Majeure'		Underlined text may be added under Article 11.3 :	TSA	This is as per the SBD and amendments thereof, issued by the Ministry of Power and



Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-~~State~~ Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

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		means any event or circumstance or combination of events and circumstances including those stated below that wholly or partly prevents or unavoidably delays an Affected Party in the performance of its obligations/ roles under this Agreement, but only if and to the extent that such events or circumstances are not within the reasonable control, directly or indirectly, of the Affected Party and could not have been avoided if the Affected Party had taken reasonable care or complied with Prudent Utility		A 'Force Majeure' means any event or circumstance or combination of events and circumstances including those stated below that wholly or partly prevents or unavoidably delays an Affected Party or makes performance of obligation commercially unviable for the Affected Party in the performance of its obligations/ roles under this Agreement, but only if and to the extent that such events or circumstances are not within the reasonable control, directly or indirectly, of the Affected Party and could not have been avoided if the Affected Party had taken reasonable care or		hence, no change is envisaged.






Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

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23.	TSA & RFP	Practices:  <u>Provisions in TSA</u> <i>(Provision related to non fulfillment of condition subsequent)</i>  <b>3.3.6</b> The Nodal agency, on the failure of the TSP to fulfil its obligations, if it considers that there are sufficient grounds for so doing, apart from invoking the Contract Performance Guarantee under para 3.3.3 may also initiate proceedings for blacklisting the TSP as per provisions of Article 13.2 of TSA.		complied with Prudent Utility Practices:	The blacklisting of TSP for a period of 5 years for default, failure to complete conditions & subsequent annulment of award, and for indefinite period for error in online and physical submission is onerous and harsh on TSP.  TSP's event of default covers a lot of activities, and if TSP fails to comply with even one activity, TSP is at risk of getting blacklisted.  Further, TSA provides discretionary right to Nodal agency to decide whether TSP would be blacklisted.  In case of discrepancy in submission, it is	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.







Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

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		<p><i>(Termination procedure for TSP event of default)</i></p> <p><b>13.2</b></p> <p>Further, the Nodal Agency may also initiate proceedings to blacklist the TSP &amp; its Affiliates from participation in any RFP issued by BPCs for a period of 5 years.</p> <p><b><u>Provisions in RFP</u></b></p> <p><i>(Non fulfillment of Obligations by TSP post issuance of Lol and post acquisition of SPV)</i></p> <p><b>2.15.8</b></p> <p>The annulment of the award, under Clause 2.15.5 or 2.15.6 of this RFP,</p>			<p>requested that BPC shall seek clarification from bidder and upon failure to provide clarification and complete investigation only, should construe such activity as fraudulent practice.</p> <p>Hence it is requested to include blacklisting only in extreme cases and provide definite guidelines on Nodal Agency's right to blacklist bidders. Also in RFP, blacklisting for annulment of project award would be done by government, while in other cases it would be done by Nodal Agency. It is requested that blacklisting rights shall only reside with government.</p>	


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		<p>shall be sufficient grounds for blacklisting the bidder, whose award has been annulled, for a period of five years or more, as decided by the National Committee on Transmission, provided that the blacklisting shall be done only after giving the bidder an opportunity for showing cause.</p> <p><i>(Discrepancy in online and physical submission of selected bidder)</i></p> <p><b>3.6.1</b></p> <p>In case, there is a discrepancy between the online submission and</p>				


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		physical documents, the bid would be out rightly rejected and the bidder shall be construed to have engaged in the fraudulent practice as defined in Clause 2.19.3 with consequences as mentioned in Clause 2.19.2. Further, in such a case, the provisions of Clause 2.5.6 (j) shall apply.				
24.	TSA	<p><b>13.3 Procedure for Nodal Agency's non-fulfilment of Role</b></p> <p>a. Upon the Nodal Agency not being able to fulfil its role under Article 4.2. the TSP may serve notice on the Nodal Agency, with a copy to CEA and</p>		<p><b>13.3 Procedure for Nodal Agency's non-fulfilment of Role</b></p> <p>a. Upon the Nodal Agency not being able to fulfil its role under Article 4.2. the TSP may serve <b>TERMINATION</b> notice on the Nodal Agency, with a copy to CEA and the Lenders' and the Lenders'</p>	<p>The contract clauses as per TSA favors the Nodal Agency. All the termination rights are provided to Nodal Agency and the agreement does not provide the other party (TSP) right to terminate in case of default of Nodal Agency.</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p> 


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		the Lenders' Representative (a "TSP's Preliminary Notice"), which notice shall specify in reasonable detail the circumstances giving rise to such non-fulfillment of role by the Nodal Agency.		Representative (a "TSP's Preliminary <u>Termination Notice</u> ").	In absence of termination right, TSP is at risk commercially, if Nodal agency fails to fulfill its assigned responsibilities, for example failure of Nodal Agency to pay the quoted transmission charges.  Also, the methodology for computation of compensation to TSP, in case of mutual agreement to terminate, should be defined upfront.	
25.	TSA	3.3.4 In case of inability of the TSP to fulfill the conditions specified in Article 3.1.3 due to any Force Majeure Event, the time period for fulfillment of the condition as subsequent mentioned in		3.3.4 In case of inability of the TSP to fulfill the conditions specified in Article 3.1.3 due to any Force Majeure Event, the time period for fulfillment of the condition subsequent as mentioned in Article 3.1.3, may be extended for a period	In case of delay in SCOD due to FM event, the provision gives discretionary right to Nodal Agency to terminate TSA after occurrence of FM event. There should be gestation period of at least 6 months after start of FM event. Post completion of 6	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.  

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-<sup>State</sup> Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process


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		<p>Article 3.1.3, may be extended for a period of such Force Majeure Event. Alternatively, if deemed necessary, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement and the Contract Performance Guarantee shall be returned as per the</p>		<p>of such Force Majeure Event.  <u>In case the Force Majeure Event continues even after a period of one hundred and eighty (180) days if deemed necessary, the Nodal Agency or TSP, upon mutual agreement may terminate the Agreement as per the provisions of Article 13.4 by giving a Termination Notice to the other party,</u>  in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement and the Contract Performance</p>	<p>months, both parties may decide to terminate the contract on mutual agreement. In case of FM, there should not be any unilateral right to terminate. Also, the methodology for computation of compensation to TSP, in case of mutual agreement to terminate, should be defined upfront.</p>	

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

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		<p>provisions of Article 6.5.1.</p> <p>4.4.2 In the event that an Element or the Project cannot be commissioned by its Scheduled COD on account of any Force Majeure Event as per Article11, the Scheduled COD shall be extended, by a 'day to day' basis for a period of such Force Majeure Event.</p> <p><b>Alternatively, if deemed necessary, the Nodal Agency may terminate the Agreement as per the provisions of Article 13.4 by giving a Termination Notice to the TSP, in writing, of at least</b></p>		<p>Guarantee shall be returned as per the provisions of Article 6.5.1.</p> <p>4.4.2 In the event that an Element or the Project cannot be commissioned by its Scheduled COD on account of any Force Majeure Event as per Article11, the Scheduled COD shall be extended, by a 'day to day' basis for a period of such Force Majeure Event.</p> <p><b><u>In case the Force Majeure Event continues even after a period of one hundred and eighty (180) days if deemed necessary, the Nodal Agency or TSP, upon mutual agreement may terminate the</u></b></p>		



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		<p>seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.</p> <p>13.4 Termination due to Force Majeure 13.4.1 In case the Parties could not reach an agreement pursuant to Articles 3.3.4 and 4.4.2 of this Agreement and the Force Majeure Event or its effects continue to be present, the Nodal Agency shall have the right to cause termination of the</p>		<p>Agreement as per the provisions of Article 13.4 by giving a Termination Notice to the other party, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.</p>		

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		Agreement. In case of such termination, the Contract Performance Guarantee shall be returned to the TSP as per the provisions of Article 6.5.1.				
26.	TSA	Clause 5.8 "Remedial Measures: The TSP shall take all necessary actions for remedying the shortfall in achievement of timely progress in execution of the Project, if any, as intimated by the Independent Engineer and/ or CEA and/ or the Nodal Agency. However, such intimation by the Independent			This is very stringent clause and provides for agreement termination at the subjective discretion of Nodal Agency. Request to modify the clause as:  ..... If the shortfalls as intimated to the TSP are not remedied to the satisfaction of the CEA and/ or the Nodal Agency, it may refer the same to the Appropriate Commission for appropriate action.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.




**Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

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		<p>Engineer and/ or CEA and/ or the Nodal Agency and the subsequent effect of such remedial measures carried out by the TSP shall not relieve the TSP of its obligations in the Agreement. Independent Engineer and/ or CEA and/ or the Nodal Agency may carry out random inspections during the Project execution, as and when deemed necessary by it. If the shortfalls as intimated to the TSP are not remedied to the satisfaction of the CEA and/ or the Nodal Agency, this Agreement may be</p>				


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		terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement."				
27.	TSA	13.7 Termination Payment 13.7.1 If Agreement is terminated on account of Force Majeure Events, no requirement of any Element or Project during Construction, Nodal Agency's			Guidelines on valuation of project assets conducted should be provided to ensure there is no ambiguity.  Further if TSA is terminated during operating period of project, guidelines on valuation of assets in such event to be	Valuation of project assets shall be done as per the prevailing industry practices. Further, please refer Clause 18.2 e) of TSA.  

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
28.	TSA	<p>non-fulfilment of Role &amp; TSP's Event of Default, the TSP shall be entitled for Termination Payment equivalent to valuation of Project Assets. Upon payment, the Nodal Agency shall take over the Project Assets.</p> <p>13.5 Termination or amendment due to non-requirement of any Element or Project during construction</p> <p>13.5.1 In case any Element or Project, which is under construction, is no longer required due to any reason whatsoever, the Nodal Agency may issue a notice to</p>			<p>provided.</p> <p>Guidelines on amendment of TSA in case of non-requirement of any element during construction should be clearly specified, especially the treatment of Quoted Transmission Charges and capital cost of element no longer required.</p> <p>For example, if 50% construction of an</p>	<p>Valuation of project assets shall be done as per the prevailing industry practices.</p> <p>Further, please refer Clause 18.2 e) of TSA.</p> 

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		<p>this effect to the TSP.</p> <p>13.5.2 Nodal agency may also issue notice to the TSP seeking their response to the proposed termination/ amendment (as the case may be) of the Agreement. The Nodal Agency shall issue copy of such notice to Lenders. In the notice, Nodal Agency shall also include an assessment of the physical progress made by TSP in the Element/ Project (as the case may be) that is no longer required.</p> <p>13.5.3 The TSP shall neither carry</p>			<p>element is completed and that element is not required, how would the TSP be compensated for the capital cost of the element.</p>	



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		<p>out further investment nor carry out any work on the Element/Project (as the case may be) that is no longer required after delivery of the notice.</p> <p>13.5.4 After taking into account the comments of the TSP, the Nodal Agency may terminate the Agreement or amend it if both Parties agree to the amendment.</p>				
29.	TSA	12. Change in Law	Inclusion of change in acquisition price in Change in Law		As SPV acquisition price is part of capital cost of project, any change in Acquisition price after bidding would directly affect the bidder commercially and it is totally beyond the control of TSP.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.



Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Integrated Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

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30.	TSA	D)The TSP has agreed to make an application for a Transmission License to the Commission for setting up the Project on <b>build, own, operate and transfer basis.</b>		D)The TSP has agreed to make an application for a Transmission License to the Appropriate Commission for setting up the Project on <b>build, own, operate and maintain basis.</b>	Hence, it is requested to kindly allow change in acquisition price under CIL event.  As per revised TSA, asset to be transferred to Nodal agency post 35 years (BOOT). The assets created would be <b>Financial assets instead of Fixed assets.</b> Under IndAS accounting rules, <b>depreciation</b> of financial assets is <b>not allowed.</b>  Further, TSP would be at risk of authorities levying 18% GST upfront on construction revenue recognized on COD. <b>Higher taxation</b> would impact the project economics eventually leading to higher tariff for the Consumers.  Under BOOT model,	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged



Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process

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31.	TSA	5.5.6 For any delay in commissioning any critical Element(s), as identified in Schedule 1 & Schedule 2 of this Agreement, beyond a period of 45 days shall lead to a sequestration of 10% of the Contract Performance Guarantee.  6.4.5 For avoidance of doubt, it is clarified		5.5.6 For any delay in commissioning any critical Element(s), as identified in Schedule 1 & Schedule 2 of this Agreement, beyond a period of 6 months (as per clause 13.1.b) unless extended by Nodal Agency due to FM/CIL as per provisions of this agreement, shall lead to a sequestration of 10% of the Contract Performance Guarantee.	asset condition may degrade towards end of concession period due to lack of incentive for developer to maintain the asset by incurring some capex. Hence it is requested to continue with the BOOM model.  Clause 13.1.b of TSA allows upto 6 months' delay in commissioning of element after SCOD. 10% sequestration clause does not cover any delay due FM or CIL event. If in case all the elements of projects are declared as "critical elements", TSP is liable for 10% CPG sequestration. It is requested to kindly extend period beyond which CPG shall sequestration occur to 6 months.  Further, TSP should	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.




Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-~~State~~<sup>334</sup> Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

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		that amount payable by TSP under this Article is over and above the penalty payable by TSP under Article 5.5.6 of this Agreement.			not be made liable for LD payments on account of delay in project / element commissioning more than as identified under clauses 6.4.1 and 6.4.2	
32.	TSA	AA- Actual Availability ; MTC-Monthly transmission charges; $Tmn =$ transmission charges for month "m" in contract year "n" For incentive a. If $98\% < AA < 98.5\%$ ; $MTC = Tmn * 1$ ; b. If $98.5\% < AA < 99.75\%$ ; $MTC = Tmn * (AA / 98.5\%)$ ; c. If $AA > 99.75\%$ ;		Incentive = $0.02 \times$ Annual Transmission Charges x (Actual Annual Availability – Target Availability) Target Availability: AC -98% & HVDC -95% Incentive = $0.02 \times$ Annual Transmission Charges x (Actual Annual Availability – Target Availability) Target Availability: AC -98% & HVDC -95%	The tariff for projects under TBCB has seen a reduction of 30%-50% as compared to RTM projects. The incentive for maintaining availability above target availability aids in increasing reliability of the transmission system. As the incentive is reduced as per revised provisions, developers may increase the Quoted tariffs to compensate which may result in increased cost of electricity to end consumer. Further there is no incentive for maintaining actual	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.



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33.	TSA	<p><math>MTC = Tmn^* (99.75 \% / 98.5 \%)</math>;</p> <p><i>For Penalty</i>  <i>d. If <math>95 \% &lt; AA &lt; 98 \%</math></i>  <math>MTC = Tmn^* (AA / 98 \%)</math>;</p> <p><i>e. If <math>AA &lt; 95 \%</math></i></p> <p><math>MTC = Tmn^* (AA/98 \%) - 0.02^* (Tmn^* (AA/98\%))</math></p>		<p>3.3.4 Provided, that due to the provisions of Article 3.3.4, any increase in the time period for completion of conditions subsequent mentioned under Article 3.1 .3, shall lead to an equal increase in the time period for the Scheduled COD. <b>The TSP will be allowed</b></p>	<p>availability between 98% and 98.5%.  Hence it is requested to continue with existing provisions for penalty and incentive calculation.</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p> 




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		the Scheduled COD is extended beyond a period of one hundred eighty (180) days due to the provisions of this Article 3.3.4, the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9.		to recover the interest cost during construction corresponding for the period of FM/CIL event by adjustment in the Transmission Charges in accordance with Schedule 9.	of project cost is funded through debt, repayment of which does not start till COD, any delay in SCOD leads to higher interest built up. This severely affects the project economics of developer. Hence it is requested to allow for recovery of interest cost during construction for entire period of FM/CIL event.	
34.	TSA	18. 1 The Nodal Agency shall appoint an agency/company as Independent Engineer (IE).....			It is requested to not appoint an external agency (Independent Engineer-IE) and the Nodal Agency to execute the functions	This is as per the SBD and amendments thereof issued by the Ministry of Power and hence, no change envisaged.





Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-<sup>State</sup> Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process


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		Responsibilities of IE include progress monitoring, ensuring quality, determine costs of works/services, determine valuation of project assets, assist parties in dispute resolution.			such as progress monitoring, quality assurance, determination of works/services, valuation of projects assets.  Any delay in appointment of IE would delay the project execution. Further addition of an external agency would also be an additional expense which would eventually result in tariff increase.	
35.		3.1 Satisfaction of Conditions Subsequent by the TSP  c. Execute this Agreement;			Since the execution of TSA will require coordination with the CTU, it is requested that the TSA be executed before project acquisition by the project SPV in the interest of saving time. This will also facilitate early	As per revised TBCB Guidelines and SBDs issued by MOP, GoI, TSP on the date of acquisition of SPV from the BPC will enter into a Transmission Service Agreement (TSA) with the Nodal Agency. 

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Integrated Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process

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36.		3.1.3 The TSP agrees and undertakes to duly perform and complete the following activities within six (6) months from the Effective Date .....	While the TSP will apply to the respective commission for grant of license, time required for the issuance is beyond the control of TSP once the application is made. We request to modify the clause suitably to incorporate the above.		completion of the project critical activities	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.
37.	SPA	Clause 3.5 The Selected Bidder hereby acknowledges and agrees that after the date of acquisition of one hundred percent (100%) of the Shares of the Company by the Selected Bidder as	We understand that acquisition price towards acquisition of one hundred percent (100%) of the equity shareholding of the Company, communicated to bidder would include all liabilities pertaining to SPV prior to closing date. Please confirm			Yes

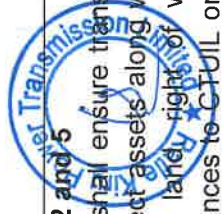


Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		<p>per Clause 3.3, (a) the authority of the BPC in respect of the Bid Process shall forthwith cease and any actions to be taken thereafter regarding the Bid Process will be undertaken by the Central Transmission Utility of India Limited themselves, (b) all rights and obligations of the BPC shall cease forthwith, (c) all other rights and obligations of the Company shall be of the TSP and (d) any decisions taken by the BPC on behalf of the Company prior to the date of acquisition, shall continue to be</p>				

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
38.	RFP	binding on the Company and/or Central Transmission Utility of India Limited as the case may be. "Final Offer" shall mean the Quoted Transmission Charges, required to be submitted as part of the Financial Bid on the electronic bidding platform during the e-reverse bidding stage. In case, no Final Offer is received during the e-reverse bidding stage then the lowest "Initial Offer" shall be deemed to be the Final Offer;	Presently, details of L-1 bidder are not displayed on conclusion of e-RA if there is no receipt of counterbids.  In case, two bidders have quoted the same L1, they would be under false impression of having L1 tariff of their own and may not offer further competitive offer. In such scenario, e-RA shall end resulting in premature conclusion of e-RA process.  It is requested to update the e-RA platform accordingly to reflect the status of L1 bidder under the above scenario.		For transparency of the competitive price discovery through e-RA	As per provisions of RFP, bidders have to quote transmission charges up to 2 decimal points. Therefore, it is practically not possible to have same Initial Offer from two or more bidders.  However, if such situation arises, appropriate decision will be taken by the competent authority.
39.	RFP document and TSA	Provisions of RFP Clause 1.5 .... The TSP shall	Query-1 Treatment of tax application at the end of the life of assets.			<b>Query-1, 2 and 5</b> The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTUUL or its




Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-<sup>State</sup> Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		ensure transfer of all project assets along with substation land, right of way and clearances to CTU or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto.	As per section 50C of Income tax act, in case sale consideration received or claimed to be received by seller on sale of land or building or both is less than value adopted by stamp valuation authority (SVA), such value adopted by SVA would become actual sale consideration received or accruing to the seller. Therefore, capital gain would be Valuation as per stamp valuation authority reduced by cost/indexed cost of acquisition.  Treatment of Capital tax and applicable TDS to be clarified.  Query-2  Modality of transfer of assets to be defined.  In case only assets to be transferred then application of stamp duty & other taxes and its treatment to be clarified.  Query-3			successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability. Any taxes, stamp duties and liabilities, as may be applicable, has to be borne by the TSP.  <b>Query-3 and 6</b>  The transfer of all project assets along with substation land, right of way and clearances shall be completed at the end of 35 years from COD of the Project.  All the expenditure till the transfer of all project assets along with substation land, right of way and clearances shall be borne by TSP.  <b>Query-4</b> Definition of Project Assets is amply clear in this regard.




Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Integrated Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process


S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		<p>Provisions of TSA</p> <p>Definitions:</p> <p>"Project Assets" shall mean all</p>	<p>Modalities for O&amp;M, other expenditure etc. for the transition period of 90 days may be confirmed.</p> <p>Availability calculation for the said period?</p> <p>Query-4</p> <p>There could be delay in receipt of payment against receivables. Further, the TSP might have some pending claims against insurance company.</p> <p>How shall TSP receive these legitimate pending claim or charges after transfer of asset to CTU?</p> <p>Query-5</p> <p>Please confirm that any taxes or charges or cost to be borne by the TSP at the transfer time including sale at value lower than fair value shall be reimbursed to the TSP.</p>			



Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Integrated State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		<p>physical and other assets relating to and forming part of the Project including:</p> <p>(a) rights over the Site for substations, ROW for transmission lines;</p> <p>(b) tangible &amp; intangible assets such as civil works and equipment including foundations, embankments, pavements, electrical systems, communication systems, relief centres, administrative offices, Substations, software, tower and sub-</p>	<p>These costs are not known at this point of time and might be significant in amount. TSP cannot be exposed such charges.</p> <p>Query-6</p> <p>Modalities for O&amp;M, other expenditure etc. for the transition period of 90 days may be confirmed.</p>			

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Integrated Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		<p>stations designs etc;</p> <p>(c) project facilities situated on the Site;</p> <p>(d) all rights of the TSP under the project agreements;</p> <p>(e) financial assets, such as receivables, security deposits etc;</p> <p>(f) insurance proceeds; and</p> <p>(g) Applicable Permits and authorisations relating to or in respect of the Transmission System;"</p> <p><b>2.2.2</b> Post the Expiry Date of this Agreement, the TSP shall ensure transfer of Project</p>				

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
40.	RFP	Assets to CTU or its successors or an agency as decided by the State Government at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days of expiry of this Agreement failing which CTU shall be entitled to take over the Project Assets Suo moto Clause 2.7.2	The important timelines are mentioned in the table including shortlisting and announcement of Qualified bidder, proposed date of issuance of Lol, transfer of SPV etc.  It is observed in the past that in case, there is extension in bid submission date, the revised timelines are not being provided regarding issuance of Lol,		For clarity and to comply with SBD requirement	The qualification status is being informed to the bidders invariably. Further, all relevant dates are informed to the bidders, as per provisions of RFP.



Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-<sup>State</sup> Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
41.	RFP	2.15.3 After the date of acquisition of the equity shareholding of SPV [which is under incorporation], along with all its related assets and liabilities, by the Selected Bidder, i. the authority of	transfer of SPV etc.  Further, in case of delay in shortlisting of qualified bidders, it is requested to provide the updated dates of financial bid opening and date of conduction of e-RA etc., atleast 1 week prior to financial bid opening, to enable bidders to take appropriate action for participation in e-RA  It is requested to kindly provide the updated table in case of extension in bid submission date/ delay in shortlisting of qualified bidders.  Role of BPC has to be complete.	i. the authority of the BPC in respect of this Bid Process shall forthwith cease and any actions to be taken thereafter will be undertaken by the Nodal Agency, save for those which are related to and consequent to the bidding process	The BPC shall not relinquish its role after the acquisition but shall have to undertake all activities including providing the certification from the Bid Evaluation Committee etc., and other requirements to enable the Bidder to obtain Transmission	The role of BPC is as per the SBD and hence no change envisaged.  However, it may be noted that the BPC shall fulfil its responsibility of providing the certification from the Bid Evaluation Committee to enable the TSP to obtain Transmission licence and adoption of Transmission charges.



Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-~~State~~ Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
42.	RFP	the BPC in respect of this Bid Process shall forthwith cease and any actions to be taken thereafter will be undertaken by the Nodal Agency,	What are the obligations that the BPC has undertaken which needs to be fulfilled by the TSP?	adopted by the BPC	license and adoption of Transmission charges. Furthermore, any activity which has an origin traced to the BPC activity/process has to be owned by BPC and the TSP / LTTC is neither aware nor can be made responsible.	The details of the contractual obligations (if any) of BPC to be fulfilled by the TSP shall be provided to the bidders along with the tentative Acquisition price of SPV.
42.	RFP	2.15.3 contractual obligations undertaken by the BPC shall continue to be fulfilled by the TSP.	What are the obligations that the BPC has undertaken which needs to be fulfilled by the TSP?	2.15.3 iv. Contractual obligations undertaken by the BPC shall continue to be fulfilled by the TSP if only such contractual obligations have been made available to the bidders 15 days prior to the bid deadline.	Nature of contractual obligations cannot be left open as the same is to be fulfilled by the TSP.	The details of the contractual obligations (if any) of BPC to be fulfilled by the TSP shall be provided to the bidders along with the tentative Acquisition price of SPV.
43.	RFP & TSA	Provision of RFP 2.15.4 Within five (5) working days of the issue of the acquisition of the SPV by the	Query-1 We request you to consider at least 30 days' time for completion of these activities. Query-2 Definition of working day is not	Within thirty (30) working days of the issue of the acquisition of the SPV by the Successful Bidder, the TSP shall apply to the Commission for grant		Query-1 This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged. Query-2 For this purpose, working day




Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		<p>Successful Bidder, the TSP shall apply to the Commission for grant of Transmission License and make an application to the Commission for the adoption of Transmission Charges, as required under Section – 63 of The Electricity Act 2003</p> <p>Provision of TSA</p> <p>3.1.1.....The TSP shall, within five (5) working days from the date of acquisition of SPV by the Selected Bidder, undertake to apply to the Commission for the grant of Transmission License and for the adoption of tariff as</p>	<p>defined in the TSA. Therefore, it is requested to define working day to avoid ambiguity and litigation later on</p>	<p>of Transmission License and make an application to the Commission for the adoption of Transmission Charges, as required under Section – 63 of The Electricity Act 2003</p>		<p>shall mean a day on which the office of the Central Commission i.e. CERC is functioning.</p>





Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Integrated Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process


S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
44.	RFP	required under section-63 of the Electricity Act ..... 2.15.6 If the TSP fails to obtain the Transmission License from the Commission, it will constitute sufficient grounds for-annulment of the award of the Project	In case TSP fails to obtain the Transmission License the reasons for the same have to be examined.	2.15.6 If the TSP fails to obtain the Transmission License from the Appropriate Commission, the treatment shall be as per provisions 3.3 of the TSA.	Provisions of 3.3 of TSA provides for non-consequences for non-fulfilment of conditions subsequent. The provisions of RFP as such have to be reflective of TSA.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.
45.	RFP and TSA	<b>The definition of Contract Year in RFP is as under:</b>  "Contract Year" shall mean the period beginning on the <b>Scheduled COD</b> , and ending on the immediately succeeding March 31 and thereafter each period of 12 .... And the definition	As per RFP, the Contract Year shall start from the Scheduled CoD whereas as per TSA, the Contract Year shall start the CoD. As such, both the definitions are contradictory in nature.  It is requested to clarify the correct definition of Contract Year.	To avoid ambiguity	The provisions of TSA are amply clear in this regard and shall prevail.	

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process


S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
46.	TSA	<p>of Contract Year in TSA is as under:</p> <p>"Contract Year", for the purpose of payment of Transmission Charges, shall mean the period beginning on the COD, and ending on the immediately</p> <p>Clause no 2.3: Conditions prior to the expiry of the Transmission License</p> <p>2.3.1 In order to continue the Project beyond the expiry of the Transmission License, the TSP shall be obligated to make an application to the Commission at</p>	<p>There should be a provision in the TSA to cover the revenue loss that may be incurred by the TSP, in the case of the Appropriate Commission not granting extension of the Transmission License beyond the period of 25 years.</p>		<p>The Transmission Charges to be quoted by the bidders would be based on the cash flow generated from the Project for 35 years and if, for any reason not attributable to the TSP (including any change in law), the Transmission License is not extended by the Appropriate Commission beyond 25 years the TSP will suffer significant</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power.</p> <p>Please also refer Article 4.1 (a) of the TSA.</p>




Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-~~State~~ Transmission system for "Transmission scheme for evacuation of power from Rate HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		<p>least two (2) years before the date of expiry of the Transmission License, seeking the Commission's approval for the extension of the term of the Transmission License up to the Expiry Date.</p> <p>2.3.2 The TSP shall timely comply with all the requirements that may be laid down by the Commission for extension of the term of the Transmission License beyond the initial term of twenty-five (25) years &amp; upto the Expiry Date and the TSP shall keep the Nodal Agency fully informed</p>			<p>losses.</p> <p>The RFP / TSA should be suitably modified to provide security of the continuation of the transmission business for at least 35 years.</p>	

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
47.	TSA	<p>about the progress on its application for extension of the term of the Transmission License.</p> <p>3.1.3 The TSP agrees and undertakes to duly perform and complete the following activities <b>within six (6) months</b> from the Effective Date (except for c) below),                      .....                      c) To submit to the Nodal Agency, CEA &amp; Independent Engineer, the Project Execution Plan, immediately after award of contract(s) and maximum within one hundred and</p>	<p>As per clause 3.1.3 h, the EPC contracts to be awarded in 6 months. Whereas as per clause 3.1.3 c, TSP is required to submit Project Execution Plan after awards of Contracts within 120 days. TSP shall not be in a position to submit project plan within 120 days from effective date if the award of EPC contract is awarded after 120 days, but before 6 months period.                      As such, the timelines mentioned in above clauses are contradictory and the same may be reviewed.</p>		For clarity	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p> 

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
48.	TSA	<p>twenty (120) days from the Effective Date. ....</p> <p>h) To award the Engineering, Procurement and Construction contract ("EPC contract") for the design and construction of the Project and shall have given to such Contractor an irrevocable notice to proceed;</p> <p>Clause 3.3.1: If any of the conditions specified in Article 3.1.3 is not duly fulfilled by the TSP even within three (3) Months..... in accordance with the provisions of this Agreement</p>		<p>Suggested text to be added at the end of this Article:                      "..... The additional Contract Performance Guarantee, if any provided by the TSP for delay in fulfilment of condition subsequent, shall be returned by the CTUIL on fulfilment of conditions subsequent</p>	<p>The additional CPG is for specific default(s) and once such default(s) cease to exist, this additional amount of CPG should be returned.                      Additional CPG cannot be held back by the CTUIL till COD of the Project.</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p> 


Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
49.	TSA	Clause no 3.3.4: In case of inability of the TSP to fulfil the conditions specified in Article 3.1.3 due to any Force Majeure Event, the time period for fulfilment of the condition subsequent as mentioned in Article 3.1.3, may be extended for a period of such Force Majeure Event. Alternatively, if deemed necessary, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days,	The terms and conditions for termination of the TSA under this Article, including the termination payment and status of the SPV, need to be provided in the TSA.	by the TSP”	In case the Force majeure event continues, the TSA will be terminated and the CPG will be returned. Other expenses that would have been incurred till the date of termination of the TSA including the Acquisition Price paid for Acquiring the SPV and other incurred costs shall also be explicitly stated. There should be an explicit provision for refund of the Acquisition Price, along with the other expenses incurred by the TSP / Selected Bidder till such date of termination.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.






Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
50.	TSA	with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement and the Contract Performance Guarantee shall be returned as per the provisions of Article 6.5.1. ..... 3.3.4 ..... Provided, that due to the provisions of this Article 3.3.4, ..... If the Scheduled COD is extended beyond a period of one hundred eighty (180) days due to the provisions of this Article 3.3.4,	In case project suffers from Force Majeure event for a period less than 6 months, interest cost during construction may be considered.		For project viability.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.  

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-~~State~~<sup>State</sup> Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process


S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		<p>the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9</p> <p>11.7 (e) Available Relief for a Force Majeure Event For avoidance of doubt, the TSP acknowledges that for extension of Scheduled COD a period up to one hundred eighty (180) days due to Force Majeure event, no compensation on the grounds such</p>				

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-~~State~~<sup>3/3</sup> Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process


S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
51.	TSA	as interest cost,..... 4.6 Interconnection Facilities: 4.6.1 Subject to the terms and conditions of this Agreement, the TSP shall be responsible for connecting the Project with the interconnection point(s) specified in Schedule 1 of this Agreement. The Interconnection Facilities shall be developed as per the scope of work and responsibilities assigned in Schedule 1 of this Agreement. The Nodal Agency shall be responsible for coordinating to make available the Interconnection Facilities.	It is understood that if interconnection facilities at the interconnection point is not available, whereas TSP has completed rest of the scope of the project, the project shall be considered as deemed COD and TSP shall be entitled to all the benefits envisaged under the TSA.		For clarity.	The provisions of TSA are amply clear in this regard & shall prevail.



Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Integrate Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
52.	Section-I of RFP  And	4.6.2 In order to remove any doubts, it is made clear that the obligation of the TSP within the scope of the project is to construct the Project as per Schedule-1 of this Agreement and in particular to connect it to the Interconnection Facilities as specified in this Agreement.  <b>6.1 Connection with the Inter-connections Facilities:</b> 6.1.1 The TSP shall give the RLDC(s), CTU, / STU, as the case may be, and any other agencies as required, at least sixty (60) days			Order of CERC dated 4/ADP/2016 23.03.2016.	This shall be treated as per applicable CERC Regulations/ Orders/ TSA.  

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
	TSA	<p>advance written notice of the date on which it intends to connect an Element of the Project, which date shall not be earlier than its Scheduled COD or Schedule COD extended as per Article 4.4.1 &amp; 4.4.2 of this Agreement, unless mutually agreed to by Parties. Further, any preponing of COD of any element prior to Scheduled COD must be approved by the Nodal Agency.</p> <p>6.2.1 An Element of the Project shall be declared to have achieved COD twenty four (24) hours following the</p>	<p>as per MOP Policy) on account of non-readiness of the upstream or downstream transmission assets while the petitioner's transmission system is ready for commissioning, the COD of the transmission assets of the petitioner may be declared in accordance with the provisions of Article 6.2 of the TSA (to be known as "deemed COD") and the LTTCs/developers of the upstream and downstream assets shall be liable to pay the transmission charges from the deemed COD till the transmission assets are put into actual use."</p> <p>From above, it is seen that even in case of SCOD when the systems are declared deemed COD as per Article 6.2 of TSA, till the transmission assets are put into actual use, the transmission charges are liable to be paid by DICs/developers of the upstream and downstream assets.</p> <p>In such situations, it shall be</p>			

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-<sup>State</sup> Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		connection of the Element with the Interconnection Facilities pursuant to Article 6.1 or seven (7) days after the date on which it is declared by the TSP to be ready for charging but is not able to be charged for reasons not attributable to the TSP subject to Article 6.1.2.	construed that BPC has obtained consent of the DICs/ Upstream / Downstream / Generators (as applicable) for payment of transmission charges.  Further, as per CERC order no. 104/MP/2018 dated 18 <sup>th</sup> September 2018, downstream was directed to pay transmission charges to TSP.			
		Provided that an Element shall be declared to have achieved COD only after all the Element(s), if any, which are pre-required to have achieved COD as defined in Schedule 2 of this Agreement, have been declared to				






Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-~~State~~ State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process


S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		have achieved their respective COD. 6.2.2 Once any Element of the Project has been declared to have achieved deemed COD as per Article 6.2.1 above, such Element of the Project shall be deemed to have Availability equal to the Target Availability till the actual charging of the Element and to this extent, TSP shall be eligible for the Monthly Transmission Charges applicable for such Element.				
53.	TSA	<b>Clause 6.3.1 (b)</b> In case of delay due to Indirect Non-Natural Force Majeure Event or Natural Force	Clause 6.3.1 (b) covers the loss on debt amount which includes, due to Indirect Non-Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, TSP is			This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.



Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-~~State~~ Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

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		<p>Majeure Event affecting the Nodal Agency, TSP is entitled for payment for debt service which is due under the Financing Agreements, subject to a maximum of Transmission Charges calculated on Target Availability, for the period of such events in excess of three (3) continuous or non-continuous Months in the manner provided in (c) below.</p>	<p>entitled for payment for debt service which is due under the Financing Agreements. However, any loss on the equity is not covered in the above clause.</p> <p>In order to compensate for the loss due to Indirect Non-Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, compensation to both equity as well as debt to be covered as per clause 6.3.1 (a).</p>			
54.	TSA	<p>10 BILLING AND PAYMENT OF TRANSMISSION CHARGES</p> <p>10.3 Rebate &amp; Late Payment</p>	<p>Any changes in CERC regulations, which have an implication on Billing cycle and/or cost implication to the TSP due to change in rebate and late payment surcharge, the same shall be allowed to be</p>			<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, <del>the</del> <sup>the</sup> Tranche is envisaged</p> 

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

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55.	TSA	<p>Surcharge</p> <p>Clause no. 10.1: Subject to provisions of this Article 10, the Monthly Transmission Charges shall be paid to the TSP, in Indian Rupees, on monthly basis as per the provisions of this agreement, from the date on which an Element(s) has achieved COD until the Expiry Date of this Agreement, unless terminated earlier and in line with the provisions of Schedule 4 of this Agreement.</p>	recovered under Change in law.	<p>Subject to provisions of this Article 10, the Monthly Transmission Charges shall be paid to the TSP, in Indian Rupees, on monthly basis as per the provisions of the Sharing Regulations, from the date on which an Element(s) has achieved COD <u>or deemed to have achieved COD</u> until the Expiry Date of this Agreement, unless terminated earlier and in line with the provisions of Schedule 4 of this Agreement.</p>	<p>As per clause 6.2 of the TSA, the TSP is eligible for payment of Transmission charges from the date of deemed COD.</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>
56.	TSA	<p>11.4 Force Majeure Exclusions</p> <p>11.4.1 (g) Any error or omission in the survey report</p>	The survey report furnished by BPC has to be accurate and any error or omission has to be owned by the BPC. Professional fees including fees for survey report is also claimed by BPC.			<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged</p> 

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-<sup>State</sup> Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process

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57.	TSA Clause 12.1.1	provided by BPC during the bidding process. Clause 12.1.1 Change in Law means the occurrence of any of the following <b>after the Bid Deadline</b> resulting into any additional recurring / non-recurring expenditure by the TSP or any savings of the TSP....	It is mentioned that in case any change in law event occurs on bid submission date or just prior to bid submission date, the bidders shall not have adequate time to understand the cost implication of such change in law event. Bidders cannot be exposed to such uncertainties and thereafter it is requested to consider any event <b>after 7 days prior to bid deadline as Change in Law event.</b>  Furthermore, the bid submission is fixed at 12 noon. Whereas change in event could happen during the day even after 12 noon. Such clause can have serious implications on the viability of the project.			Please also refer Clause 2.5.7 of RFP Document.  This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.  Please also refer Clause 2.5.7 of RFP Document.
58.	TSA	12.1.2 Notwithstanding anything contained in this Agreement, Change in Law	Any tax applied on the income or profits of the TSP need to be covered under change in law.		Tax is an element beyond the control of the TSP.  Change in tax or	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.




Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-~~State~~ Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
59.	TSA	<p>shall not cover any change:</p> <p>a. Taxes on corporate income; and;</p> <p>and</p> <p>b. Withholding tax on income or dividends distributed to the shareholders of the TSP.</p> <p><b>Clause 13.7</b></p> <p>If Agreement is terminated on account of Force Majeure Events, nonrequirement of any Element or Project during Construction, Nodal Agency's non-fulfillment of Role &amp; TSP's Event of Default, the TSP shall be</p>	<p>Kindly furnish the methodology of calculation of valuation of project asset.</p>	<p>For clarity</p>	<p>introduction of any tax is covered under change in law.</p> <p>Tax rate applicable on the income or profits of the TSP is beyond the control of the TSP and to assume the same for 35 years shall be a risk which is best assumed by the LTTCs accordingly this is to be reviewed.</p>	<p>Also, please refer to clause 2.5.7 of the RFP.</p> <p>Valuation of project assets shall be done as per the prevailing industry practices. Further, please refer Clause 18.2 e) of TSA.</p>






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60.	TSA	<p>entitled for Termination Payment equivalent to valuation of Project Assets. Upon payment, the Nodal Agency shall take over the Project Assets</p> <p><b>Clause 10.1.2.1</b></p> <p><b>10.1.2.1</b> 1 Any amount payable under an Invoice shall be paid in immediately available and freely transferable clear funds, for value on or before the Due Date, to such account of the TSP or Long Term Transmission Customer as shall have been previously notified to Long Term Transmission</p>	<p>Timelines for payment of transmission charges is linked to "due date". However, the "due date" is not defined in the TSA.</p> <p>It is requested to provide the definition of "due date" to avoid confusion and litigation.</p>		For clarity	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p> 



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		<p>Customer or the TSP, as the case may be</p> <p><b>10.3 Rebate &amp; Late Payment Surcharge:</b></p> <p><b>10.3.1 Rebate:</b> In case the Long Term Transmission Customer pays to the TSP through any mode of payment in respect of a Monthly Transmission Charge Invoice or Supplementary Bill, the following shall apply:</p> <p>a. For payment of Invoices through any mode of payment, a Rebate of 2% shall be allowed on the Monthly Transmission Charge Invoice or Supplementary Bill</p>				

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response		
61.	RFP	<p>for payments made in full within two Business Day of the receipt of the Invoice; or</p> <p>b. For payment of Invoices subsequently, but within the Due Date, a Rebate of 1% shall be allowed on the payments made in full.</p> <p>and</p> <p><b>others</b></p> <p>Clause 2.1.2</p> <p>" Experience of development of projects in the Infrastructure Sector in the last five (5) years with aggregate capital expenditure of not less than Rs..... Crore or equivalent</p>				<p>As per QR, the capital expenditure under reference shall be as capitalised and reflected in the audited books of accounts of Technically Evaluated Entity.</p> <p>In above regard, please clarify the following:</p> <p>Whether entire capital expenditure of various</p>	<p>For more clarity of submission of appropriate QR credentials</p>	<p>Provisions of RFP Document are amply clear in this regard and shall prevail.</p>



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		<p>USD (calculated as per provisions in Clause 3.4.1). However, the capital expenditure of each project shall not be less than Rs..... Crore or equivalent USD (calculated as per provisions in Clause 3.4.1</p> <p>For this purpose, capital expenditure incurred on projects that have been commissioned/ completed at least seven (7) days prior to Bid Deadline shall be considered. The capital expenditure discussed above shall be as capitalized and reflected in the audited books of</p>	<p>Project(s), meeting the value-wise threshold requirements of QR, as capitalised in last five years in the audited books of accounts of Technically Evaluated Entity, shall be considered;</p> <p>OR</p> <p>Whether only the capital expenditure incurred in the last five years of such Project(s), capitalised in last five years in the audited books of accounts of Technically Evaluated Entity, shall be considered.</p>			

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

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62.	RFP	accounts of the Technically Evaluated Entity.....". Clause 2.11 Each Bidder shall submit the Bid accompanied by Bid Bond issued by any of the Banks listed in Annexure-17. The Bid Bond shall be valid for a period of thirty (30) days beyond the validity of the Bid.	Verification of issued bid bond is done by the beneficiary bank of the BPC through SFMS platform from the issuing bank of the bidder.  In above regard, BPC is requested to provide following details.  - Bank account detail of beneficiary alongwith IFSC code and Branch address  Unique Identifier of the beneficiary (if applicable) (The unique identifier needs to be incorporated by the issuing bank in Field 7037 of the IFIN 760 COV/IFIN COV while transmitting verification messages to the Beneficiary Bank through SFMS).		Bidder information needs for issuance of Bid Bond	Requisite details have already been provided in the RFP document.
63.	RFP	Annexure 14 (Format of the Bid Bond) Addressee details	Addressee details to whom Bid Bond is to be addressed are not mentioned in the Bid Bond Format. It is requested to			This is as per the SBP and amendments thereof issued by the Ministry of Power and hence, no change is




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64.	RFP	are not mentioned in the beginning of the format  Annexure 14 (Format of the Bid Bond) "....In consideration of the....." "	mention the followings at starting of the format:  Annexure 14 (Format of the Bid Bond) " <b>To,</b> <b>Designation of officer</b> <b>Name of BPC</b> <b>Address of BPC</b>  In consideration of the....."  BPC to get the <b>GST registration and GST TAN</b> in the name of SPV in the State of Project execution where supply of Goods and Services shall take place.		For immediate commencement of work by the SPV upon acquisition by the successful bidder.	BPC will complete its responsibilities as listed in the RFP documents. Please also refer Clause 1.6 & 2.5.7 of the RFP document.
65.	SPA	Clause 1.2 (i)  Clause 1.2 (i)			Audited financial	Provisions of SPA shall prevail.



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		<p>"Acquisition Price" shall mean INR _____ (Rupees _____ only) [Insert the value of the Acquisition Price, both in figures and in words respectively], which is the aggregate consideration payable by the Selected Bidder towards purchase of the Sale Shares at par along with assets and liabilities of the Company as on the Closing Date subject to adjustment as per the <b>audited accounts of the Company</b> as on the Closing Date;</p>	<p>As per clause 1.2 (i) of the Share Purchase agreement, BPC is required to provide audited financial statement as on the closing date for adjustment, if any, in regard to aggregate consideration for acquisition of the SPV.</p> <p>It is requested to BPC to furnish <b>audited financial statement within 15 days</b> of the closing date.</p>		<p>statement is required for accounting in the books of successful bidder to ascertain acquisition price on closing date. An undertaking that the audited financial statements shall be provided within 15 days from the closing date may be furnished by BPC for making the payment of acquisition price by successful bidder.</p>	




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66.	ANNEXURE 3 - FORMAT FOR EVIDENCE OF AUTHORIZED SIGNATORY'S AUTHORITY	...Know all men by these presents, We ..... ..... ....(name and address of the registered office of the Bidder...	As per the format of Power of Attorney, the bidder is required to mention the name and registered office of the bidder.  In case corporate office of the bidder is in different state than that of its registered office, can the bidder execute the Power of Attorney in the state of its corporate office?		For clarity and simplification of bidding process	PoA will be given on stamp paper of the State where the person is executing it and getting it notarised. Since corporate office is generally the functional office of the company, Bidder can execute the PoA in the state of its corporate office if that is the seat of the Principal executing the PoA.
67.	Clause No. 2.5, Section - II of RFP Documents	2.5 The Bidding Process .....  The initial period for conducting the e-reverse bidding should be 2 hours which will be extended by 30 minutes from the last received bid time, if the bid is received during the last 30 minutes of the scheduled or extended bid time. Subsequently, it		2.5 The Bidding Process .....  The initial period for conducting the e-reverse bidding should be 2 hours which will be extended by 15 minutes from the last received bid time, if the bid is received during the last 15 minutes of the scheduled or extended bid time. Subsequently, it will	As per revised Bidding Documents, the bidders are required to quote single annual Transmission Charge from the date of SCOD of the project till expiry date in initial bid and in the e-RA. During e-RA, the initial time period for e-RA is 2 hours with extension of 30 minutes from last bid.  In this regard, it is submitted that the bidder is required to quote single number as	This is as per the SBD and amendments thereof, issued by the Ministry of Power. hence, no change is envisaged.



Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-<sup>State</sup> Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

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		<p>will be extended again by <b>30 minutes</b> from the latest received bid time.</p> <p>.....</p>		<p>be extended again by <b>15 minutes</b> from the latest received bid time.</p> <p><b>In case e-Reverse Bidding is not completed by 20:00 Hrs (IST), then the e-Reverse Bidding shall be paused and will resume on the next working day at 10:00 Hrs (IST). The prevailing L1 bidder at the time of pause on the previous day shall continue to be the L1 bidder at resumption of e-Reverse Auction. On resuming, the e-Reverse Bidding shall conducted for 60 minutes, which will be extended by 15 minutes from the last received bid time, if the bid is received during the</b></p>	<p>annual transmission charges. Further, there is option for automatic reduction in e-RA portal. Therefore, the extension of 30 minutes from last bid submission may be reduced to 15 minutes.</p> <p>Further, in case the bidding extends beyond office hours, the e-RA may be paused and resumed on the next working day as being followed by major eps providers including Mjunction etc.</p>	

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68.	RFP	1.5 The objective of the bidding process is to select a Successful Bidder pursuant to this RFP, who shall acquire one hundred percent (100%) of the equity shares of SPV [which is under incorporation] along with all its related assets and liabilities as per the provisions of the Share Purchase	RfP bid submission shall be scheduled accordingly.	last 15minutes. Subsequently, it will be extended again by 15 minutes from the latest received bid time.  The above shall continue till the e-Reverse Bidding gets concluded.	For preparation and submission of RfP Bid on time.	Noted



Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-~~State~~ Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

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69.	RFP	<p>Agreement, at the Acquisition Price to be intimated by the BPC, twenty (20) days prior to the Bid Deadline.</p> <p><b>a. Clarifications and Pre-Bid Meeting</b></p> <p><b>2.3.1</b> The Bidders may seek clarifications or suggest amendments to the RFP by sending an email to the BPC at the email id indicated in Clause 2.14 within the date and time RFP for Selection of Bidder as Transmission Service Provider mentioned in Clause 2.7.2. For any such clarifications or amendments, the</p>	<p>The response for clarifications sought by prospective bidders shall be provided atleast 2 weeks prior to bid deadline, so that price implications, if any, can be accounted for in the RfP bid.</p>		<p>For preparation and submission of RfP Bid on time.</p>	<p>Timelines as specified in the RFP Document shall prevail.</p>



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70.	RFP	<p>Bidders should adhere to the format as per Annexure – 19.</p> <p><b>2.5 The Bidding Process</b> The entire bidding process shall be conducted on electronic bidding platform created by <b>MSTC Limited.</b></p>	<p>The event of Bid Submission shall be kept live on the MSTC portal atleast 1 week prior to bid deadline.</p>		<p>For preparation and submission of RfP Bid on time.</p>	<p>Sufficient time shall be given to the bidders after creation of event on the MSTC portal.</p>
71.	Transmission Service Agreement	<p>TSA ARTICLE: 5 Clause 5.5.6 For any delay in commissioning any critical Element(s), as identified in Schedule 1 &amp; Schedule 2 of this Agreement, beyond a period of 45 days shall lead to a sequestration of 10% of the Contract Performance Guarantee.</p>	<p>As a general practice, the CERC considers any request for extension of time post COD of the Project. BPC to clarify that whether the 10% of CPBG will be invoked even when such delay is caused due to FM events and without adjudication on the validity of such claims?</p>		<p>Bidder needs the information for proper estimation</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power.</p>






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72.	Transmission Service Agreement	Clause 2.2.2 It is required that post the Expiry Date, the TSP to transfer the Project to CTU within a period of 90 days.	BPC to clarify the following: a. Who will be responsible for O&M of the Project post Expiry Date till the Project is transferred as the Agreement will automatically terminate on Expiry Date? b. Whether the TSP will be paid for the O&M for the period post Expiry Date till the Project is transferred if the TSP will manage the O&M post Expiry Date?		Bidder needs the information for proper estimation	The transfer of all project assets along with substation land, right of way and clearances shall be completed at the end of 35 years from COD of the Project. All the expenditure till the transfer of all project assets along with substation land, right of way and clearances shall be borne by TSP.
73.	RFP for Selection of Bidder as Transmission Service Provider	RFP, section-1, Clause 1.5, Para 3 "The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTU or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from	i. Please note that there is no clarity about the liability of the TSP post Transfer of asset. We request BPC to define the process of Transfer. ii. As the project is BOOT basis, we request BPC to provide Transfer Agreement for bidder's review and assessment. iii. As the project is BOOT basis, what will be the Liability of TSP in case of any Default post Transfer to CTU. iv. As per the RFP, the transfer		Bidder needs the information for proper estimation.	1. The project assets along with substation land, right of way and clearances shall be transferred to nodal agency or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability and no elaborate process is required to be laid down. Further, other issues, if any, shall be dealt as per prevailing laws & regulations. 2. Transfer Agreement, if required, may be mutually





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		any encumbrance and liability. The transfer shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto. We request BPC to confirm whether the Project is required to be given on as is where is basis or if CTU can ask for certain refurbishments to be done? v. It is requested to BPC to confirm will there be an obligation of the TSP to obtain re obtain the clearance at the time of Transfer, in case of NHAI, Road, Highways etc.	shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto. We request BPC to confirm whether the Project is required to be given on as is where is basis or if CTU can ask for certain refurbishments to be done? v. It is requested to BPC to confirm will there be an obligation of the TSP to obtain re obtain the clearance at the time of Transfer, in case of NHAI, Road, Highways etc.			agreed between the parties at that point of time. 3. In case there is any liability due to an event that has occurred post transfer to CTU, the same shall be dealt with as per prevailing laws & regulations 4. The project assets will be transferred in working condition subject to observations of Nodal agency in the examination to be carried out three (3) years prior to the expiry of the project to assess the need of upgradation of the system or renovation and modernization of the existing system. 5. Please refer to the definition of "Project Assets" in this regard which is amply clear and shall prevail.
74.	Transmission Service Agreement	Clauses 4.1(f) and 4.2.1(e) These clauses provide assistance by Nodal Agency or TSP to the Arbitrators as	BPC to provide the definition of Arbitrators used as defined term.		Bidder needs the information for proper estimation	This is as per the SBD and amendments thereof, issued by the Ministry of Power 

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
75.	RFP for Selection of Bidder as Transmission Service Provider	required for the performance of their duties and responsibilities. RFP, Clause 1.6. Clause no. 1.6.1.5 – <b>Scope of Transmission Service Provider</b> The TSP shall seek approval under Section 164 of Electricity Act, from CEA after acquisition of SPV [which is under incorporation]. The approval shall be granted by CEA generally within 30 days but in no case later than 45 days from the date of receipt of application (complete in all aspects).	We request BPC to confirm that in case of delay in grant of section 164 approval beyond 45 days by CEA, will this qualify as Force Majeure (FM) event under TSA, and we can get relief as per TSA.		Bidder needs the information for proper estimation days but in no case later than 45 days from the date of receipt of application (complete in all aspects).	This is as per the SBD and amendments thereof, issued by the Ministry of Power. The provisions of RFP shall prevail.
76.	RFP for Selection of Bidder as	Definitions: "Bid Bond" shall mean the	We would like to bring to your kind attention the Government's progressive decision to allow		Bidder needs the information for proper estimation	This is as per the SBD and amendments thereof, issued by the Ministry of Power.




Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process


S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
	Transmission Service Provider	unconditional and irrevocable bank guarantee for Rupees Seven Crore and Thirty-Six Lakh Only (Rs. 7.36 Crore), to be submitted along with the Technical Bid by the Bidder under Clause 2.11 of this RFP, as per the format prescribed in Annexure 14;	Insurance Surety bonds as a security mechanism. This was announced by the Hon'ble finance minister during the Union budget for FY-23.			hence, no change is envisaged.
77.	RFP for Selection of Bidder as Transmission Service Provider	Clause 2.5.2 <b>Technical Bid comprising of</b> 19. For each project listed in Annexure 7(D), certified true copy of the certificates of final acceptance	As per RFP clause 2.1.2 (ii), "Experience in construction of project in infrastructure sector" is allowed for meeting the technical requirement by the bidders. In reference to the same, bidders need to provide the details of above experience as per "Annexure 7D - Additional Information for verification of financial & technical capabilities of the bidders" The Part iii, attachment 3, (a) states		Requirement of certificates of good operating performance is not applicable for EPC contracts due to the intrinsic nature of such contracts.	Provisions of RFP Document are amply clear in this regard and shall prevail.



Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-~~40~~<sup>60</sup> State Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
			<p>“For each project listed in Attachment 2 above, <b>certificates of final acceptance and/or certificates of good operating performance duly issued by owners for the project and the same shall be certified as true by authorized signatory of the Bidding Company or the Lead Member of Consortium). In case the project listed in Attachment 2 is under BOOT / DBFOT mechanism, the certificates of final acceptance and/or certificates of good operating performance must be issued by the authority / independent engineer of the project as defined in the respective project agreement”</b>                      Further, as per the RFP Clause 2.5.2 (19)                      “For each project listed in Annexure 7(D), certified true copy of the certificates of final acceptance and / or certificates of good operating performance duly issued by owners or clients for the project, duly signed by</p>			

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-~~State~~<sup>State</sup> Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
			<p><i>authorized signatory</i>". The experience in construction of infrastructure sector is obtained through Engineering, Procurement &amp; Construction contracts (EPC Contracts) having a construction</p>			
78.	RFP for Selection of Bidder as Transmission Service Provider	Clause 2.15.2 Stamp duties payable on purchase of one hundred percent (100%) of the equity shareholding of [Insert the name of the SPV], along with all its related assets and liabilities, shall also be borne by the Selected Bidder.	As per the Indian Stamp Act, 1899 ('Act') read with Delhi Schedule 1A ('Schedule'), Section 5 of Act read with (i) Item no. 5(b) of Schedule- sale of shares in an incorporated company: Rs. 1000/-, (ii) Item 5(c) Arbitration: Rs. 50/-, (iii) Item No. 34 Indemnity: Rs. 100/- In view of the above we understand that the Share Purchase Agreement (SPA) shall be executed on Stamp Paper of INR 1,200/-. Please confirm.		Bidder needs the information for proper estimation	Kindly refer Clause 2.5.7 of the RFP Document.
79.	RFP for Selection of Bidder as Transmission Service Provider	RFP, section-1, Clause 1.5, Para 3 "The TSP shall ensure transfer of all project assets along with substation land, right of way and	<p>1. Please note that there is no clarity about the liability of the TSP post Transfer of asset. We request BPC to define the process of Transfer.</p> <p>2. As the project is BOOT basis, we request BPC to</p>		Bidder needs the information for proper estimation.	<p>1. The project assets along with substation land, right of way and clearances shall be transferred to nodal agency or its successors or an agency as decided by the Central Government after 35 years from COD project at zero</p> 




Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-<sup>State</sup> Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
80.	RFP for Selection of Bidder as Transmission Service Provider	clearances to CTU or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability. The transfer shall be Request for Proposal Notification, Disclaimer This RFP may be withdrawn or cancelled by the BPC at any time without assigning any reasons thereof. BPC further reserves the right, at its complete discretion to reject any or all of the Bids without assigning any reasons	provide Transfer Agreement for bidder's review and assessment.			cost and free from any encumbrance and liability and no elaborate process is required to be laid down. Further, other issues, if any, shall be dealt as per prevailing laws & regulations. 2. Transfer Agreement, if required, may be mutually agreed between the parties at that point of time.
			We would like to mention that it will be unreasonable on the part of BPC to reject a bid without assigning any reason. Since the BPC can be construed as 'state' under the Constitution, conduct of BPC ought to have transparent and as such BPC cannot take any decision without assigning proper reason/ justification.		Bidder needs the information for proper estimation.	This is as per the SBD and amendments thereof, issued by the Ministry of Power. The provisions of RFP shall prevail.





Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-<sup>State</sup> Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
81.	RFP for Selection of Bidder as Transmission Service Provider	Conflict of Interest" A Bidder shall be considered to be in a Conflict of Interest with one or more Bidders in the same bidding process if they have a relationship with each other, directly or through a common company, that puts them in a position to have access to information about or influence the Bid of another Bidder	It needs to be noted that this definition is vague and wide in as much as it only requires that an entity is able to have access; it is immaterial whether information was accessed or not, just the fact that a party is in a position to access information or influence bid of another party is enough. As far as this aspect is concerned, this definition should be amended. This should further cover any conflict-of-interest situation between the BPC and any of the bidder		Bidder needs the information for proper estimation.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.
82.	RFP for Selection of Bidder as Transmission Service Provider	Annexure-B, Clause 3.3 provides that "the Bidder shall disclose the name and address of agents and representatives and Indian Bidder shall disclose their	BPC is requested to clarify the rationale for having this clause? We understand that The Bidder is free to engage any consultant as long as it is under the purview of applicable law.		Bidder needs the information for proper estimation	This is as per the SBD and amendments thereof, issued by the Ministry of Power. The provisions of RFP shall prevail. 

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
83.	Transmission Service Agreement	foreign principals or associates". Clause 3.4 states that "the Bidder shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid".	TSA: Clause F The TSP has agreed to execute the agreement(s) required, if any, under Sharing Regulations within fifteen (15) days from the date of grant of Transmission License from the Commission.		Bidder needs the information for proper estimation.	This is as per the SBD and amendments thereof, issued by the Ministry of Power. Please also refer Clause 2.5.7 of RFP Document.
84.	Transmission Service Agreement	TSA: Clause H The billing, collection, and disbursement of the Transmission	In case of the default in the payment by the DIC, BPC is requested to clarify following a) How will the Transmission charges be recovered?		Bidder needs the information for proper estimation.	The payment of transmission Charges by the CTU to the ISTS licensees shall be governed as per CERC Sharing Regulations, as



Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-<sup>State</sup> Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		Charges by the CTU to the ISTS Licensee shall be governed as per Sharing Regulations.	b) what is the assurance for recovery of Transmission charges in view of the repeal of the Regulation of the power supply 2010 by the CERC.			amended from time to time.
85.	Transmission Service Agreement	TSA ARTICLE: 1 Definitions and Interpretations Independent Engineer" shall mean an agency/company, appointed by Nodal Agency in accordance with the Guidelines for Encouraging Competition in Development of Transmission Projects TSA ARTICLE: 18 18.3 Remuneration of Independent Engineer	We understand that as the Independent Engineer to be appointed by Nodal Agency (CTU), The fee and charges of the Independent Engineer shall be paid by CTU and TSP does not have to consider any fee and charges of the Independent Engineer in its bid.		Bidder needs the information for proper estimation.	Provisions of the TSA are amply clear in this regard and shall prevail.
86.	Transmission Service Agreement	TSA ARTICLE: 1 Definitions and Interpretations Definition of Nodal	The proviso to the definition states that while taking major decisions, CTU shall consult CEA on technical matters and		Bidder needs the information for proper estimation.	Provisions of the TSA are amply clear in this regard and shall prevail



Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-~~State~~ State Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		Agency Nodal Agency” shall mean CTU, which shall execute and implement the Transmission Service Agreement (TSA);	any other matter if it feels necessary. BPC is requested to provide clarity on what would constitute ‘major decisions’; further, what would be the nature of consultation is not clear, whether such consultation would be binding or just advisory in nature? Further, there is an element of discretion as well on the part of CTU, which should be done away with.			
87.	Transmission Service Agreement	TSA ARTICLE: 11 Clause no. 11.4.1 ..... (g) Any error or omission in the survey report provided by BPC during the bidding process	We request BPC to remove the point no g form the Force Majeure Exclusions.		Bidder needs the information for proper estimation	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.
88.	Transmission Service Agreement	TSA ARTICLE: 13 Clause no.13.7 Termination Payment - If Agreement is terminated on account of Force Majeure Events,	As there is no mechanism for termination payment. We request BPC to provide the mechanism for compensating the cost incurred by the TSP for construction of asset, in case of non-requirement of any element during construction stage.		Bidder needs the information for proper estimation.	Valuation of project assets shall be done as per the prevailing industry practices. Further, please refer Clause 18.2 e) of TSA.



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S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		nonrequirement of any Element or Project during Construction, Nodal Agency's non-fulfilment of Role & TSP's Event of Default, the TSP shall be entitled for Termination Payment equivalent to valuation of Project Assets. Upon payment, the Nodal Agency shall take over the Project Assets.				
89.	Transmission Service Agreement	TSA ARTICLE: 3 Clause No. 3.3.4 Provided, that due to the provisions of this Article 3.3.4, any increase in the time period for completion of conditions subsequent mentioned under	What is the rationale for only IDC recovery and no other expenditure like project cost overrun (such as overheads & price variation etc.)		Bidder needs the information for billing purpose.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.






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S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		Article 3.1.3, shall lead to an equal increase in the time period for the Scheduled COD. If the Scheduled COD is extended beyond a period of one hundred eighty (180) days due to the provisions of this Article 3.3.4, the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9.				
90.	Transmission Service Agreement	TSA ARTICLE: 8 8.2 availability The Target	As per previous TSA, target availability was at project level not for each element. We request BPC to maintain target		Bidder needs the information for proper estimation.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change







Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		Availability of each Element and the Project shall be 98%.	availability at Project level only.			envisaged.
91.	Transmission Service Agreement	TSA ARTICLE: 12 Relief for change in law 12.2.3 - 12.2.3 For any claims made under Articles 12.2.1 and 12.2.2 above, the TSP shall provide to the Nodal Agency documentary proof of such increase / decrease in cost of the Project / revenue for establishing the impact of such Change in Law.	Please note that No timelines defined for response by CTU in case of CIL event. We request BPC to define timeline in which CTU will respond to the TSP.		Bidder needs the information for proper estimation.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged
92.	Transmission Service Agreement	TSA ARTICLE: 12 Payment on account of Change in Law 12.4.1 The payment for Change in Law shall be through a separate Bill.	BPC is requested to provide the format and timeline for submission of separate bill of events?		Bidder needs the information for proper estimation.	The provisions of TSA are amply clear in this regard. 


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S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		However, in case of any change in Monthly Transmission Charges by reason of Change in Law, as determined in accordance with this Agreement, the Bills to be raised by the Nodal Agency after such change in Transmission Charges shall appropriately reflect the changed Monthly Transmission Charges.				
93.	Transmission Service Agreement	Schedule 2 The payment of Transmission Charges for any Element, irrespective of its successful commissioning on or before its Scheduled COD, shall only be	BPC is requested to clarify that in case an element is successfully commissioned and is put to use/power flows, but the pre-required element is not successfully commissioned. Will TSP be eligible for getting Tariff?		Bidder needs the information for proper estimation.	The provisions of TSA are amply clear in this regard and shall prevail.  

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
94.	Transmission Service Agreement	considered after successful commissioning of the Element(s), which are prerequisites for the declaring the commercial operation of such Element as mentioned in the above table. Schedule 9 Methodology for determining the Relief Under Force Majeure Event & Change in Law during Construction Period The relief in the form of revision in tariff due to Force Majeure Event leading to extension of Scheduled COD for a period beyond one hundred eighty	What is the rationale for the increase in Transmission Charges as stated above shall be applicable only if the value of increase in Transmission Charges as calculated above exceeds 0.30% (zero-point three percent) of the quoted Transmission Charges of the TSP.		Bidder needs the information for proper estimation	This is as per the SBD and amendments thereof, issued by the Ministry of Power.  

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

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95.	RFP for Selection of Bidder as Transmission Service Provider	(180) days and/ or Change in Law during the construction period shall be as under: $\Delta T = [(P \times d)] + [1 - (1 + d)^{-n}]$	We would like to mention that with reference to the RFP Clause 2.1.9 Bidders shall confirm a notarized affidavit as per Annexure 22. Please note for large conglomerates signing on behalf of all the affiliates can run into hundreds of numbers and different geographies, is practically impossible. We request you to allow Annexure-22 to be signed by the Authorized signatory of the Bidding company on behalf of Bidding entity only.		Bidder needs the information for preparation of techno-commercial bid.	The declaration and details with respect to Clause 2.1.9 of RFP is to be provided by the bidding company including Affiliate / Parent company of the Bidding company being used for meeting financial / technical qualification requirements as per Annexure 22 of the RFP document. The signing of the format has to be done as per provisions of RFP Document.
96.	RFP for Selection of Bidder as Transmission Service Provider	Definitions: Transmission Service Agreement" or "TSA" shall mean the agreement	As per the bidding documents TSA shall be signed between Nodal agency and TSP only. We request BPC to clarify role of Designated ISTS Customers and linkage of Designated ISTS		Bidder needs the information for proper estimation	Please refer Clause 2.5.7 of RFP. 

Clarifications dated 07.11.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-<sup>State</sup> Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
97.	RFP for Selection of Bidder as Transmission Service Provider	entered into between Nodal Agency and the TSP, pursuant to which the TSP shall build, own, operate and transfer the Project and make available the assets of the Project on a commercial basis.	Customers to TSA.			
97.	RFP for Selection of Bidder as Transmission Service Provider	Annexure no. 15- format for Contract Performance Guarantee/ Last Para Notwithstanding anything ..... (365) days thereafter. This BANK GUARANTEE shall be extended from time to time for such period, as may be desired by..... [Insert name of the Selected Bidder or Consortium or SPV and	Kindly note that the Government banks are not issuing the contract Performance Guarantee. We request BPC to modify the last Para of the Performance Guarantee format as highlighted in red font below: Notwithstanding anything ..... (365) days thereafter. This BANK GUARANTEE shall may be extended from time to time for such period, as may be desired by..... [Insert name of the Selected Bidder or Lead Member in case of the Consortium or SPV and		Bidder needs the information for proper estimation	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.





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		Lead Member in case of the Consortium or SPV].	..... [Insert name of the Bank].			
98.	Transmission Service Agreement	Schedule: 9 Methodology for determining the Relief Under Force Majeure Event & Change in Law during Construction Period.	CERC notified 'Discount rate for computation of levelized transmission charges' is 9.25% on 2nd April 2024, please confirm if this Discount rate for computation of levelized transmission charges is to be considered for this calculation under schedule-9		Bidder needs information for proper estimation	This is as per the SBD and amendments thereof, issued by the Ministry of Power.
99.	Transmission Service Agreement	Clause 5.5.6: For any delay in commissioning any critical Element(s), as identified in Schedule 1 & Schedule 2 of this Agreement, beyond a period of 45 days shall lead to a	Clause 5.5.6 of the TSA provides that for any delay in commissioning any critical Element(s), as identified in Schedule 1 & Schedule 2 of this Agreement, beyond a period of 45 days shall lead to a sequestration of 10% of CPG.		Bidder needs information for proper estimation	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.





Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
1.	RFP	General	Kindly confirm: whether the Project / Elements are covered under "Generation linked Project" or "System Strengthening Project"			Transmission scheme is to be implemented for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW).
2.	RFP	General	Kindly confirm: Whether the Project/ Elements are eligible for early commissioning incentive as per MoP, Govt order dated 15.07.2015.			The provisions in TSA pertaining to commissioning shall prevail which interalia covers the matter of preponing of CoD. The TSP may approach the Committee constituted by MoP vide its OM No. 15/1/2013-Trans dated 14.12.2021 to ensure smooth operationalization of the Policy for early commissioning.
3.	RFP	General	BPC is requested to confirm, whether the project/Elements of the project are a part of Associated Transmission System (ATS) as per definition of Connectivity and General Network Access to the inter-State Transmission System, Regulations, 2022.	Bidder needs information for proper estimation.		Elements covered under present transmission scheme are part of common transmission system.
4.	RFP	General	BPC is requested to provide the details of transmission element(s) of subject project, for which any delay in construction of transmission elements by TSP	Bidder needs information for proper estimation		Provisions of RFP shall prevail.



**Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

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			resulting in mismatch of these elements viz-a-viz. generation station(s) or Unit(s), TSP shall be liable to make payments viz., transmission charges to generation station(s) or unit(s). under clause 13.8, Sharing of Inter-State Transmission Charges and Losses, Regulations, 2020			
5.	RFP	General	We have noted that the Transmission Line passing near to international border, we request you to specify the NOC's required to be taken from Armed forces during construction and operation of the project.		We request BPC to provide the same for proper bid estimation.	Please refer Clause No. 2.5.7 of the RFP Document.
6.	RFP	General	Mentioned in the RFP (ANNEXURE-C Technical Specifications of Transmission System clause no A.18.0) that successful bidder to install multi-circuit tower in the protected area. The top two circuits of these multi-circuit towers shall be used for stringing of the transmission line under present scope and the bottom two circuits shall be made available for stringing of any future transmission line of any transmission service providers/		We request BPC to provide the same for proper bid estimation.	Bidder has not indicated the name of the line. Further, bidder to meet the requirement of RFP.



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7.	RFP	General Scope of Work 400kV Line Bays at Kishtwar. 400kV Line Bays at Samba. 400kV Line Bays at Jalandhar.	State transmission utilities/Central transmission utilities passing through the same protected area. Further, the configuration and coordinates of such transmission towers shall be submitted to CEA, CTU & BPC by the TSP.  Please clarify bidder has to go with two nos. of double circuit tower for loop-in and loop out separately or shall consider multi-circuit tower option. In case of multi circuit option whether the bidder shall install separate multi circuit tower for Loop in and Loop out transmission line or they can use single multi circuit tower for Loop-In and Loop-Out (Top 2 circuit for Loop in and Bottom 2 circuit to Loop out). BPC to share the Existing:			Refer Amendment-IV dated 09.12.2024.  The drawings are enclosed at <b>Appendix-A</b> . Further, for existing details bidder is advised to visit S/S site.




Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
8.	RFP	General	<p>6. VMS Details. 7. Soil Test report.</p> <p>with present scope and other existing drawing for better clarity</p> <p>We request you to provide the existing Drawing of Kishtwar substation.</p> <ol style="list-style-type: none"> <li>1. Layout marked with present scope area.</li> <li>2. SLD marked with present scope with clear identification for number of main and tie bays.</li> <li>3. Earthing Layout</li> <li>4. Existing Busbar protection details (type &amp; make) and requirement of PU.</li> <li>5. Existing FOTE detail and availability of FO ports.</li> <li>6. Availability of LT AC supply and feeders in ACDB board.</li> </ol> <p>Availability of LT DC supply and feeders in DCDB board.</p>			<p>Refer Amendment-IV dated 09.12.2024.</p> <p>The drawings are enclosed at Appendix-A.</p> <p>Further, for existing details bidder is advised to visit S/s site.</p>
9.	RFP	General	<p>We request you to provide the existing Drawing of Samba substation.</p> <ol style="list-style-type: none"> <li>1. Layout marked with present scope area.</li> </ol>		Required for proper estimation.	<p>Refer Amendment-IV dated 09.12.2024.</p> <p>The drawings are enclosed at Appendix-A.</p>



Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
			<p>2. SLD marked with present scope with clear identification for number of main and tie bays. Earthing Layout</p> <p>3. Busbar protection details (type &amp; make) and requirement of PU.</p> <p>4. Existing Drawing of Samba substation.</p> <p>5. FOTE detail and availability of FO ports.</p> <p>6. Availability of LT AC supply and feeders in ACDB board.</p> <p>Availability of LT DC supply and feeders in DCDB board.</p>			For existing details bidder is advised to visit S/s site.
10.	RFP	General	<p>We request you to provide the existing Drawing of Jalandhar substation.</p> <p>1. Layout marked with present scope area.</p> <p>2. SLD marked with present scope with clear identification for number of main and tie bays. Earthing Layout</p> <p>3. Busbar protection details (type &amp; make) and requirement of PU.</p>		Required for proper estimation.	<p>Refer Amendment-IV dated 09.12.2024.</p> <p>The drawings are enclosed at Appendix-A.</p> <p>For existing details bidder is advised to visit S/s site.</p> 




Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-  
State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A"  
through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
11.	RFP for Selection of Bidder as Transmission Service Provider	Section-1, Clause 1.2, Scope of the Transmission Scheme Sr.no. 2: 400 kV Kishenpur-Samba D/C line (Quad) (only one circuit is to be terminated at Kishenpur utilizing 1 No. of 400 kV vacated line bay at Kishenpur S/s (formed with bypassing of one ckt of 400 kV Kishwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur) while second circuit would be connected to bypassed circuit of 400 kV	<p>4. Existing Drawing of Samba substation.</p> <p>5. FOTE detail and availability of FO ports.</p> <p>6. Availability of LT AC supply and feeders in ACDB board.</p> <p>BPC is requested to provide following documents for the extension work envisaged at Kishenpur SS:</p> <ol style="list-style-type: none"> <li>SLD and GA drawing with coordinates and scope of work marked clearly on it.</li> <li>Soil investigation report</li> <li>Cable trench layout</li> <li>Earthmat layout</li> <li>Fire-hydrant arrangement layout</li> <li>Make and model of VMS</li> </ol>		Bidder needs the information for proper estimation	<p>Refer <b>Amendment-IV</b> dated <b>09.12.2024</b>.</p> <p>The drawings are enclosed at <b>Appendix-A</b>.</p> <p>For existing details bidder is advised to visit S/s site.</p>
12.	RFP for Selection of Bidder as Transmission Service Provider	Section-1, Clause 1.2, Scope of the Transmission Scheme Sr.no. 2- 400 kV Kishenpur-Samba D/C	<p>BPC is requested to provide the following details for extension work at Kishenpur S/S:</p> <ol style="list-style-type: none"> <li>Availability of space in control room</li> </ol>		Bidder needs the information for proper estimation	<p>New battery and battery charger, LT transformer, ACDB and DCDB are not envisaged under the present scope of work as per</p>





Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish ~~Water~~ State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process


S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
	Provider	line (Quad) (only one circuit is to be terminated at Kishenpur utilizing 1 No. of 400 kV vacated line bay at Kishenpur S/s (formed with bypassing of one ckt of 400 kV Kishwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur) while second circuit would be connected to bypassed circuit of 400 kV	<ol style="list-style-type: none"> <li>2. Sufficiency of battery and battery charger for current scope of work</li> <li>3. Sufficiency of LT transformer for extension work</li> <li>4. Availability of space in existing cable trench for new cables</li> </ol>			<p>RFP.</p> <p>Any other details, bidder is advised to visit S/s site</p>
13.	RFP for Selection of Bidder as Transmission Service Provider	Section-1, Clause 1.2, Scope of the Transmission Scheme Sr. no. 4. 1x80 MVAR Switchable line reactor at Samba end of 400 kV Kishwar-Samba 400 kV line-165 km (Quad) [formed after bypassing of 400 kV Kishwar -- Kishenpur line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad)]	<p>BPC is requested to provide the following details for extension work at Samba S/S:</p> <ol style="list-style-type: none"> <li>1. Availability of space in control room</li> <li>2. Sufficiency of fire hydrant system for scope of work</li> <li>3. Sufficiency of battery and battery charger for current scope of work</li> <li>4. Sufficiency of LT transformer for extension work</li> <li>5. Availability of space in existing cable trench for new cables</li> </ol>		<p>Bidder needs the information for proper estimation</p>	<p>New battery and battery charger, LT transformer, ACDB and DCDB are not envisaged under the present scope of work as per RFP.</p> <p>Any other details, bidder is advised to visit S/s site</p> 

Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
14.	RFP for Selection of Bidder as Transmission Service Provider	Section-1, Clause 1.2, Scope of the Transmission Scheme Sr. no. 5: 1x63 MVAR Switchable line reactor on each ckt at Jalandhar end of Kishenpur-Jalandhar D/C direct line -171 km (Twin) (formed after bypassing both ckts of 400 kV Kishenpur - Samba D/C line (Twin) and 400 kV Samba - Jalandhar D/C line (Twin) at Samba and connecting them together to form Kishenpur-Jalandhar D/C direct line (Twin))	BPC is requested to provide following documents for the extension work envisaged at Jalandhar SS: 1. SLD and GA drawing with coordinates and scope of work marked clearly on it. 2. Soil investigation report 3. Cable trench layout 4. Earthmat layout 5. Fire-hydrant arrangement layout 6. Make and model of VMS		Bidder needs the information for proper estimation	Refer Amendment-IV dated 09.12.2024.  The drawings are enclosed at Appendix-A.  For existing details bidder is advised to visit S/s site.
15.	RFP for Selection of Bidder as Transmission Service Provider	Section-1, Clause 1.2, Scope of the Transmission Scheme Sr. no. 4. 1x80 MVAR Switchable line reactor at Samba end of 400 kV Kishwar-Samba 400 kV line-165 km (Quad) [formed after bypassing of 400 kV Kishwar - Kishenpur line (Quad) at	BPC is requested to provide following documents for the extension work envisaged at Samba SS: 1. SLD and GA drawing with coordinates and scope of work marked clearly on it. 2. Soil investigation report 3. Cable trench layout 4. Earthmat layout 5. Fire-hydrant arrangement		Bidder needs the information for proper estimation	Refer Amendment-IV dated 09.12.2024.  The drawings are enclosed at Appendix-A.  For existing details bidder is advised to visit S/s site.



**Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
16.	RFP for Selection of Bidder as Transmission Service Provider	Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad)) Section-1, Clause 1.2, Scope of the Transmission Scheme Sr. no. 5: 1x63 MVAR Switchable line reactor on each ckt at Jalandhar end of Kishenpur-Jalandhar D/C direct line -171 km (Twin) (formed after bypassing both ckts of 400 kV Kishenpur - Samba D/C line (Twin) and 400 kV Samba - Jalandhar D/C line (Twin) at Samba and connecting them together to form Kishenpur-Jalandhar D/C direct line (Twin))	layout 6. Make and model of VMS  BPC is requested to provide following details for extension work at Jalandhar S/S: 1. Availability of space in control room 2. Sufficiency of fire hydrant system for scope of work 3. Sufficiency of battery and battery charger for current scope of work 4. Sufficiency of LT transformer for extension work 5. Availability of space in existing cable trench for new cables		Bidder needs the information for proper estimation	New battery and battery charger, LT transformer, ACDB and DCDB are not envisaged under the present scope of work as per RFP.  Any other details, bidder is advised to visit S/s site
17.	RFP for Selection of Bidder as Transmission Service Provider	Section-1, Clause 1.2, Scope of the Transmission Scheme Extension work at Samba, Jalandhar, Kishenpur S/S	We understand, encumbrance free, level land as per required FGL as per existing station owner, shall be provided to TSP for present scope of Bay extrn. Work.		Bidder needs the information for proper estimation	TSP has to mutually coordinate with the owner of Samba, Jalandhar, Kishenpur S/s.  Further, the prospective bidders are requested to visit the site

**Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-  
State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A"  
through tariff based competitive bidding process**

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
18.	RFP for Selection of Bidder as Transmission Service Provider	Section-1, Clause 1.2, Scope of the Transmission Scheme Extension work at Samba, Jalandhar, Kishenpur S/S	Please confirm.  We understand TSP has to follow RFP requirement only. Existing station owner practice and requirement are not binding on TSP.		Bidder needs the information for proper estimation	physically to acquaint themselves with the condition of land.  TSP shall follow the requirement of RfP.
19.	RFP for Selection of Bidder as Transmission Service Provider	Section-1, Clause 1.2, Scope of the Transmission Scheme Extension work at Samba, Jalandhar and Kishenpur SS	As per RFP, TSP needs to use existing line bays at Samba, Jalandhar and Kishenpur S/S for termination of 400kV lines under scope of work. We understand that unavailability of Transmission line due to unavailability of line bay (of different owner) shall not be considered as loss of availability for the line. Please confirm.		Bidder needs the information for proper estimation	Provisions of TSA shall prevail.
20.	RFP Section 1 (INTRODUCTION Scope of the Transmission Scheme) 1.2 /SN5/Page-	1x63 MVAR Switchable line reactor on each ckt at Jalandhar end of Kishenpur- Jalandhar D/C direct line - 171km(Twin) (formed after bypassing both ckt of 400 kV Kishenpur - Samba D/C line (Twin) and 400 kV Samba -	Bidder understands that to accommodate Switchable Line Reactor/s & switching equipment in the bays of Jalandhar-Samba D/C circuit at Jalandhar S/S, dismantling & relocating of existing Closed type Store is in scope of TSP.			It is in the scope of bidder to provide Switchable Line reactor along with switching equipment for the bays for the Kishenpur- Jalandhar D/C direct line (formed after bypassing both ckt of 400 kV Kishenpur - Samba D/C line (Twin) and 400 kV Samba - Jalandhar D/C line (Twin) at Samba and connecting them



Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-  
State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A"  
through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
19	(SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION ON B.2.1 420 kV, 3-phase, Shunt Reactor Page 139)	Jalandhar D/C line (Twin) at Samba and connecting them together to form Kishenpur-Jalandhar D/C direct line (Twin)) • 420 kV, 63 MVAR switchable line reactors at Jalandhar S/s end-2 Nos. Switching equipment for 420kV, 63 MVAR switchable line reactors at Jalandhar S/s end – 2 Nos.				together to form Kishenpur-Jalandhar D/C direct line) at Jalandhar Substation. Site shall be provided as is and where is basis. In case of dismantling is required, the same shall be in the scope of TSP.
21.	RFP for Selection of Bidder as Transmission Service Provider	Section-1, Clause 1.2, Scope of the Transmission Scheme Sr. no. 1: LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishitwar S/s along with associated bays at Kishitwar S/s	BPC is requested to confirm the availability of OPGW in the existing Kishenpur-Dulhasti line. Also, please share the make and model details of associated OPGW equipment.		Bidder needs the information for proper estimation	OPGW installation work on the existing Kishenpur - Dulhasti line (twin) has been awarded to POWERGRID along with reconductoring work. OPGW is passive element and not affect the integration of FOTE, however OPGW specification shall be as per CEA Technical standards of communication, 2020 regulation. Further bidder may coordinate with POWERGRID
22.	RFP for Selection of Bidder as	Section-1, Clause 1.2, Scope of the Transmission Scheme	1. As per RFP scope, we understand that 4 nos of 400kV line bays available after		Bidder needs the information for proper estimation	4 Nos. of vacated 400 kV line bays at Samba S/s will be utilized for 400 kV Kishenpur-Samba D/C

Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
	Transmission Service Provider	<p>Sr. no. 1.: 400 kV Kishenpur-Samba D/C line (Quad)</p> <p>Sr. no. 5: 1x63 MVAR Switchable line reactor on each ckt at Jalandhar end of Kishenpur-Jalandhar D/C direct line - 171 km (Twin) (formed after bypassing both ckt of 400 kV Kishenpur - Samba D/C line (Twin) and 400 kV Samba - Jalandhar D/C line (Twin) at Samba and connecting them together to form Kishenpur-Jalandhar D/C direct line (Twin))</p> <p>ANNEXURE 18 - GRID MAP OF THE PROJECT</p>	<p>bypassing of Kishenpur-samba(twin) and Samba-Jalandhar(twin) lines are to be utilized for bays required for termination of 400kV Kishenpur-Samba (quad) line and 400kV Samba-Jalandhar (Quad) line. Please confirm our understanding.</p> <p>2. As per ANNEXURE 18 - GRID MAP OF THE PROJECT of RFP, bypassing of Kishenpur-Samba 400kV (twin) line and Samba-Jalandhar 400kV (twin) line at Samba SS to form Kishenpur-Jalandhar D/C direct line is to be done under ISTS Tr Scheme for Ratle HEP (Part-B).</p> <p>3. BPC is requested to mention the date/timeline for completion of this bypass scheduled in Part-B package so that bidder can assess the timeline of availability of 400kV bays at Samba S/S for termination of lines under part-A at Samba S/S.</p>			<p>line (Quad) and 400 kV Samba-Jalandhar D/C line (Quad).</p> <p>As per 20<sup>th</sup> NCT, time line for Part-B is 24 Months or matching with Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part A scheme whichever is later.</p>






**Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process**

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
23.	RFP	Scope Table / Point 2,3 &5 / Page 5,6 of 176	We understand that there is no bay augmentation at Kishenpur SS		Kindly confirm.	In order with respect to scope of work mentioned in the RFP.
24.	RFP	Scope Table / Point 3 / Page 6 of 176	<p>Bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad), thus forming 400 kV Kishtwar - Samba (Quad) direct line (one ckt).</p> <p>We understand that TSP has to consider only line bypassing work in their scope. However necessary augmentation in CRP/SAS and communication (PLCC/FOTE) network shall be done by existing owner.</p>		Kindly confirm.	Necessary augmentation (including augmentation in CRP/SAS and communication PLCC/FOTE network) required for the present Reactor bays shall be done under present scope.
25.	RFP	Scope Table/point 3 /page 6 of 176	<p>Bypassing 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line (Quad Moose), thus forming 400kV Samba – Nakodar (Quad) direct line</p> <p>We understand that TSP has to consider only line bypassing work in their scope. However</p>		Kindly confirm.	Necessary augmentation (including augmentation in CRP/SAS and communication PLCC/FOTE network) required for the present Reactor bays shall be done under present scope.



**Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
26.	RFP	Scope Table/point 4,5,7 /page 6 of 176	necessary augmentation in CRP/SAS and communication (PLCC/FOTE) network shall be done by existing owner. Requests you to clarify the NGR requirement for line reactors.		Kindly confirm	Refer clause B.2.1 of RfP.
27.	RFP Document SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION Page 141 Sr. no. B.2.6	400 kV GIS Substation equipment (as applicable).... GIS (Gas Insulated Switchgear) shall be Indoor type in accordance to IEC: 62271-203	Bidder understands that Suitable end piece/extension/interface module in existing 400 kV GIS Bus bars for extension of GIS is already available in Existing GIS at 400kV Kishtwar (STERLITE) substation. Kindly confirm.			Bidder is requested to visit site.
28.	RFP	400kV Line Bays at Kishtwar. 400kV Line Bays at Samba. 400kV Line Bays at Jalandhar. B.2.7. c)	It is understood that existing busbar protection have provision for future bays and also PUs are available for future bays. BPC to confirm. Also confirm the existing make and model for Bus bar protection for each location.			Refer FAQ of RfP. 
29.	RFP	B.2.8 Substation Automation System /	Kindly provide details of existing SAS.		We request BPC to provide the	Refer Amendment-IV dated 09.12.2024.

Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish <sup>Hydro</sup> State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process


S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
30.	RFP	page 156 of 176 400kV Line Bays at Kishtwar. 400kV Line Bays at Samba. 400kV Line Bays at Jalandhar. B.2.8 a)	For SCADA, it is understood that necessary process I/O shall be available for future bays and accordingly license for same. BPC to confirm.		same for proper bid estimation.	Further, Bidder is requested to visit site to get acquaint himself. All necessary upgradation work shall be under the present scope of work. Bidder is also advised to visit site for details.
31.	RFP	400kV Line Bays at Kishtwar. 400kV Line Bays at Samba. 400kV Line Bays at Jalandhar. B.3.1	BPC to confirm the availability of AC & DC feeders in existing ACDB/DCDB for future bays.			Bidder is advised to visit site to confirm the availability of AC and DC feeders in existing ACDB/DCDB.
32.	RFP	400kV Line Bays at Kishtwar. 400kV Line Bays at Samba. 400kV Line Bays at Jalandhar. B.3.1	We understand that existing equipment such as DG Set, LT Transformer, Battery & Battery charger have sufficient capacity to cater the requirements of bay under present scope of work, hence no need to consider new DG Set, LT Transformer, Battery & Battery charger in the existing sub stations. BPC to confirm the same.			New battery and battery charger, LT transformer, ACDB and DCDB are not envisaged under the present scope of work as per RFP. For any other details, bidder is advised to visit <del>Site</del> <sup>Site</sup>



Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish 130 MW State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
33.	RfP Document SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION Page 148 Sr. no. B.3.1	For substation extensions, existing facilities shall be augmented as required.	It is requested to provide number of spare AC/DC feeders in existing ACDB/DCDB at Kishtwar (STERLITE) that can be used for present scope of work.			AC/DC Module for the present scope of work is available in the existing ACDB/DCDB at Kishtwar. Further Bidders is advised to visit the site to get acquaint himself.
34.	RFP	400kV Line Bays at Kishtwar. 400kV Line Bays at Samba. 400kV Line Bays at Jalandhar. B.3.2	No separate FF system is envisaged under the present scope of work. BPC to confirm			Bidder to meet the scope of work as per RfP. Further bidder is advised to visit the site to get acquaint himself.
35.	RFP	B.3.2 Fire Fighting System/ page 157 of 176	Kindly provide details of existing firefighting system.		We request BPC to provide the same for proper bid estimation.	Bidder is advised to visit site.
36.	RfP Document SPECIFIC TECHNICAL	For extension of existing GIS, existing facilities shall be suitably augmented/ extended for GIS equipment under	1. Bidder understands that space is available inside existing 400kV GIS Building at 400kV Kishtwar (STERLITE) substation to place 420kV GIS			Bidder is advised to visit site. Extension of existing GIS hall / Panel room for control and relay and PLCC Panels shall be provided in case space is not

Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
37.	REQUIREMENTS FOR SUBSTATION Page 136 Sr. no. B.3.6	present scope	Equipment/modules (one diameter) for LILO of Kishenpur-Dulhasti Kishtwar. 2. Further confirmation is also required for space availability in the existing panel room of 400kV GIS building at Kishtwar (STERLITE) Substation to place Control and relay and PLCC Panels of 400kV bays under present scope.			available in existing hall.
	RfP SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION B3.6 Page: 150	<b>B.3.6 GIS hall</b> One EOT Crane of suitable capacity for Erection and Maintenance of largest GIS component/assembly and all plant installed in the GIS switchgear room shall be provided in each GIS hall. The crane shall be capable of fulfilling all special requirements for erection and maintenance of GIS equipment. The capacity of the crane shall be	1. Bidder understands that there will be no requirement of new EOT crane envisaged in scope of GIS bay extension of Kishtwar Substation and existing EOT crane will be utilized by extending under present scope			Requirement of EOT crane shall be as per requirement of extension of GIS hall. 



Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
38.	RFP	sized to lift the heaviest GIS switchgear component. For extension of existing GIS, existing facilities shall be suitably augmented/ extended for GIS equipment under present scope.	Kindly provide details of existing VMS system.		We request BPC to provide the same for proper bid estimation.	Refer Amendment-IV dated 09.12.2024. Further, for existing details bidder is advised to visit S/s site.
39.	RfP Document SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION	At existing substations, the visual monitoring system if available shall be augmented as per existing or better specification as required.	It is requested to provide make and model of Existing Visual Monitoring System at 400kV Kishtwar (STERLITE) substation. Existing VMS Layout may kindly be shared			For existing details bidder is advised to visit S/s site.
40.	RFP	400kV Line Bays at Kishtwar . 400kV Line Bays at	BPC to confirm the adjacent gantry suitable for bay extension.			Bidder is advised to visit S/s site.





Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
41.	RfP Document SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION	Samba. 400kV Line Bays at Jalandhar. OF EXISTING SUBSTATION	It is requested to provide spacing of existing Earthmat at 400kV Kishtwar (STERLITE) substation. Further, it is requested to provide Existing Earth mat layout drawing of 400kV Kishtwar (STERLITE) substation S/S			For existing details bidder is advised to visit S/s site.
42.	RfP SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION Page 150 Sr. no. B.5	Extension of 400 kV Kishenpur	Bidder understands that there is no extension work envisaged at Kishenpur Substation under the scope of RFP			Refer scope of work mentioned in the RfP.
43.	RfP for Selection of Bidder as Transmissi	It is believed that the land will be provided in levelled condition free of cost by the respective	Developer of Kistwar S/s shall provide space for 2 Nos. of 400 kV line bays .		Bidder needs the information for proper estimation	The prospective bidders are requested to visit the site physically to acquaint themselves with the condition of land.



**Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
	on Service Provider & Transmission Service Agreement	owner(s) for implementation of bays.	<p>POWERGRID to provide space for 1 Nos. of 80 MVar Switchable line reactor at Samba S/s.</p> <p>POWERGRID to provide space for 2 Nos. of 63 MVar Switchable line reactor at S/s.</p> <p>POWERGRID to provide space for 1 Nos. of 80 MVar Switchable line reactor at Samba S/s</p> <p>Hence, we request BPC to confirm that levelled land for implementation of bays to be provided by respective substation owner.</p> <p>Lack of clarity w.r.t scope of TSP.</p>			
44.	RFP for Selection of Bidder as Transmission Service Provider BPC survey report for the subject bid	Common to all tapping points/towers: Ratle HEP(850MW) and Kiru HEP(624MW): Part A E2_400 kV Kishenpur-Samba D/C line (Quad) E6_400 kV Samba-Jalandhar D/C line(Quad)	BPC is requested to confirm that, for the termination at existing transmission line, whether dismantling activity is in scope of TSP or owner of respective transmission element.		Bidder needs the information for proper estimation	All associated dismantling works are also included in the present scope.




**Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
45.	Transmission Service Agreement	<p>Schedule 1 Scope of the Project provides that:</p> <ul style="list-style-type: none"> <li>M/s POWERGRID shall provide space for 1 No. 80 MVAR Switchable line reactor (along with switching equipment) at Samba end of 400 kV Kishwar-Samba 400 kV line</li> <li>M/s POWERGRID shall provide space for 2 Nos. 63 MVAR Switchable line reactor (along with switching equipment) at Jalandhar end of Kishenpur-Jalandhar D/C direct line (on each ckt)</li> <li>M/s POWERGRID shall provide space for 1 No. 80 MVAR Switchable line reactor (along with switching equipment) at Samba end of Samba - Nakodar direct line</li> </ul>	<p>The construction of scope of work by the selected bidder would depend on provision of spaces to be provided by POWERGRID and would be out of control of the selected bidder. BPC to clarify the following:</p> <p>a. Whether the spaces provided by POWERGRID will be compatible for the selected bidder for the scope of work?</p> <p>b. Under which documents or transactions POWERGRID shall be obligated to provide spaces to the selected bidder?</p> <p>c. BPC to share the copy of the documents under which POWERGRID is obligated to provide spaces to the selected bidder.</p> <p>d. In case of any delay on the part of POWERGRID in providing spaces to the Selected Bidder, whether the extension of SCOD and reimbursement of the cost will</p>		<p>Bidder needs the information for proper estimation</p>	<p>a. The prospective bidders are requested to visit the site physically to acquaint themselves with the condition of land.</p> <p>b. Please refer Gazette Notification dated 21.08.2024.</p> <p>c, d and e</p> <p>Provisions of the RFP Documents are amply clear in this regard and shall prevail.</p>



**Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
46.	RFP for Selection of Bidder as Transmission Service Provider	FAQ Clause 2.2 & Central Electricity Regulatory Commission guidelines dt. 15.03.2024	We understand that CERC (O&M) guidelines dt. 15.03.2024 shall prevail for the bay O&M charges at Samba & Jalandhar substation . BPC to please confirm.  e. Whether the delays on the part of POWERGRID in providing the space will cover under force majeure?  be provided to the selected bidder?		Bidder needs the information for proper estimation.	Regarding O&M, CEA's "Operation and Maintenance (O&M) guidelines and Standard Format for Memorandum of Understanding between New TSP and Existing TSP" issued by CEA vide its letter No. 1/28514/2023 dated 22.06.2023 shall be followed.  Bidder may refer the relevant clause mentioned in the above guidelines regarding CERC charges.
47.	Transmission Service Agreement	Clause 5.1.2 The TSP acknowledges and agrees that it shall not be relieved from any of its obligations under this Agreement or be entitled to any extension of time or any compensation whatsoever by reason of	BPC to clarify that as the spaces for scope of work shall be provided by POWERGRID, who shall be responsible in case of unsuitability of the land provided by POWERGRID?		Bidder needs the information for proper estimation	The prospective bidders are requested to visit the site physically to acquaint themselves with the condition of land. 

**Additional Clarifications dated 09.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process**

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		the unsuitability of the Site or Transmission Line route(s).				





Additional Clarifications dated 14.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S.	Name of the document	Clause No. and Existing	Clarification required	Suggested	Rationale for	RECPDCL Response
1.	RFP for Selection of Bidder as Transmission Service Provider and BPC survey report for the subject bid	Ratle HEP(850MW) and Kiru HEP(624MW): Part A E2_400 kV Kishenpur-Samba D/C line (Quad) E3 Bypassing of one ckt of 400 kV Kishenpur - Kishenpur 400 kV D/C line (Quad) at Kishenpur E6_400 kV Samba-Jalandhar D/C line(Quad) E8_Bypassing 400 kV Jalandhar - Nakodar line (Quad) at Jalandhar	We understand that for termination of transmission lines i.e. Kishenpur-Samba D/C line, Kishenpur - Samba D/C line, Samba - Jalandhar D/C line and Samba Nakodar D/C line at Samba SS- 4 nos. Bays are required. BPC is requested to share exact location for termination of these lines and substation layout of Samba SS.		Bidder needs the information for proper estimation	Please refer <b>Amendment-IV dated 09.12.2024</b> issued along with the drawings of existing substations.  Further, for existing details bidder is advised to visit S/s site.
2.	RFP for Selection of Bidder as Transmission Service Provider and BPC survey report for the subject bid	Ratle HEP (850MW) and Kiru HEP(624MW): Part A E2_400 kV Kishenpur-Samba D/C line (Quad) E6_400 kV Samba-Jalandhar D/C line(Quad)	Please note that based on site visit assessment, we understand that 4 line Bays at Samba SS will be disconnected and shall be allotted for present scope transmission lines work i.e 400kV Kishenpur -Samba and Samba-Jalandhar. BPC is requested to share:  a. Timeline for Bay vacating or disconnection b. Tower details with their identification no. for		Bidder needs the information for proper estimation	a) As per NCT letter dated 13.07.24 and CTU OM dated 15.07.24, bypassing at Samba S/s (4 Nos. of 400 kV line bays at Samba S/s shall be vacated after bypassing) along with upgradation works of above vacated bays (2000 A to 3150 A) is being implemented by POWERGRID as part of "Transmission scheme for evacuation of power from





**Additional Clarifications dated 14.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

			<p>Bypassing arrangement near Samba SS by other developer (PGCIL)</p> <p>c. Who will perform dismantling of exiting tower</p>		<p>Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-B" with implementation schedule of 24 Months or matching with Transmission scheme for evacuation of power from Ratle HEP (850 MW) &amp; Kiru HEP (624 MW): Part-A scheme whichever is later</p> <p>In this regard, implementing agency/TSP of part-A and part-B may closely coordinate with each other for timeline of vacation and upgradation of 400 KV line bays (4 Nos.) at Samba S/s to avoid any mismatch and timely implementation of transmission scheme.</p> <p>b) The survey report has already been issued with relevant details.</p> <p>Further, the Bypassing arrangement (wherever required) to be finalized in coordination with the existing tower owner. Bidder may also visit the site and acquaint themselves with the site conditions.</p>
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**Additional Clarifications dated 14.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

						<p>Please also refer Clause no 2.5.7 of the RFP Document.</p> <p>c) Existing tower shall be dismantled (if required) by the successful bidder in coordination with the existing tower owner.</p>
3.	<p>RFP for Selection of Bidder as Transmission Service Provider</p> <p>BPC survey report for the subject bid</p>	<p>Ratle HEP (850MW) and Kiru HEP (624MW): Part A</p> <p>E1_LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s</p>	<p>BPC is requested to provide the timeline for reconductoring work to be done under the scope of the scheme Transmission Scheme for Evacuation Of Power From Ratle HEP (850 MW) &amp; Kiru HEP (624 MW): Part-B of the (Kishtwar - Kishenpur line formed after LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s.</p>	<p>Bidder needs the information for proper estimation</p>	<p>As per CTU OM dated 15.07.24 and NCT letter dated 13.07.2024, implementation timeline for said reconductoring works (as part of Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part B) is 24 Months or matching with Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part A scheme whichever is later.</p>	
4.	<p>RFP for Selection of Bidder as Transmission Service Provider</p> <p>BPC survey report for the subject bid</p>	<p>Ratle HEP(850MW) and Kiru HEP(624MW): Part A</p> <p>Bypassing arrangement near Kishenpur &amp; Jalandhar</p>	<p>BPC is requested to clarify if there <b>OPGW arrangement to be performed</b> along with Bypassing arrangement near Kishenpur &amp; Jalandhar substation. If yes, BPC is requested to provide details of</p>	<p>Bidder needs the information for proper estimation</p>	<p>1. It is understood that Kishtwar – Kishtwar line may have been mistyped in the query for Kishtwar – Kishenpur line. Bidder needs to do survey and coordination</p>	



**Additional Clarifications dated 14.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**



			<p>following:</p> <p><b>1. Details of OPGW ( no. of fibres, Junction box etc.) of Kishtwar -Kishtwar Line which is required to be bypassed near Kishenpur</b></p> <p><b>2. Details of OPGW (no. of fibres, Junction box etc.) of Jalandhar -Nakodar Line which is required to be bypassed near Jalandhar.</b></p>		<p>with POWERGRID for termination of OPGW and other hardware.</p> <p>2. OPGW on Jalandhar – Nakodar line is 24 fiber, however bidder shall coordinate with PSTCL and POWERGRID for further information and survey for integration purpose of existing OPGW.</p>
<p>5. RFP for Selection of Bidder as Transmission Service Provider</p>	<p>RoW policy in J&amp;K U.T.</p>	<p>We understand that at present there is no Land Compensation Policy in Jammu &amp; Kashmir U.T. &amp; only Crop Compensation prevails as per Indian Telegraph Act 1885. However as per recent RoW guidelines issued by MoP dated 14th June'24 (Ref: F. No. 3/4/20 1 6-Trans-part(4), states where there is no existing RoW guidelines, the guidelines issued by the Central Government shall apply for determining compensation. As Jammu &amp; Kashmir U.T doesn't have any existing RoW guidelines, BPC is requested to</p>	<p>Clarification required for better understanding of scope and cost estimation.</p>	<p>RoW Guidelines issued by MoP on 14.06.2024 is amply clear in this regard.</p>	

**Additional Clarifications dated 14.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

		<p>provide clarity whether RoW for Jammu &amp; Kashmir U.T will be decided by the MoP RoW guidelines.</p> <p>Please note that as per BPC survey report, proposed route alignment of 400 KV Samba-Jalandhar D/C line(Quad) is at 7 km from Beas Airstrip that possess Aviation restrictions as per GSR-751 &amp; its amendments. This Airstrip is operated by Private Airstrip.</p> <p>Therefore, we request BPC to clarify whether Private Airstrip operator shall permit the construction of transmission line in such proximity to its airstrip?</p> <p>In case Private Airstrip operator shall not permit the construction of transmission line, then request BPC to issue revised survey report.</p>		<p>Ratle HEP(850MW) and Kiru HEP(624MW): Part A</p> <p>E6_400 kV Samba-Jalandhar D/C line(Quad)</p>	<p>RFP for Selection of Bidder as Transmission Service Provider</p> <p>BPC survey report for the subject bid</p>	<p>The transmission route mentioned in the survey report is indicative in nature.</p> <p>Bidder shall finalize the route after their detailed survey as per provisions of CEA Regulations and Indian Standards considering the requirement of RFP.</p> <p>Bidder may also visit the site and acquaint themselves with the site conditions.</p> <p>Please also refer Clause no 2.5.7 of the RFP Document.</p>	<p>Bidder needs the information for proper estimation</p>				
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**Additional Clarifications dated 14.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

						
<p>7. RFP for Selection of Bidder as Transmission Service Provider BPC survey report for the subject bid</p>	<p>Ratle HEP(850MW) and Kiru HEP(624MW): Part A E1_LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s</p>	<p>As per understanding, there are 2 single ckt lines from Kishenpur S/s- Dulhasti on ground. We request BPC to provide the clarity on which line/circuit, the present scope LILO is to be tapped.</p>		<p>Bidder needs the information for proper estimation</p>	<p>The route indicated in the survey report is indicative.  The exact coordinates of the LILO tapping points are to be obtained from the owner of the transmission line i.e. (400 kV Kishenpur-Dulhasti line) for construction of LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s during execution stage. Bidder may also visit the site and acquaint themselves with the site conditions.</p> <p>Please also refer Clause no 2.5.7 of the RFP</p>	
<p>8. RFP for Selection of Bidder as Transmission Service Provider BPC survey report for the subject bid</p>	<p>Common to all tapping points/towers: Ratle HEP(850MW) and Kiru HEP(624MW): Part A E1_LILO of 400 kV</p>	<p>Please confirm whether bidder is free to choose tapping point/tower as per site location or to follow tapping location as per the BPC Survey Report KMZ.</p>		<p>Bidder needs the information for proper estimation</p>	<p>The tapping points/tower for LILO lines are to be finalized in coordination with the owner of transmission line.</p>	

Additional Clarifications dated 14.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

		<p>Kishenpur- Dulhasti line (Twin) at Kishtwar S/s</p> <p>E2_400 kV Kishenpur-Samba D/C line (Quad)</p> <p>E3_Bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 KV kV D/C line (Quad) at Kishenpur</p> <p>E6_400 kV Samba-Jalandhar D/C line(Quad)</p> <p>E8_Bypassing 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar.</p>			
<p>9. RFP for Selection of Bidder as Transmission Service Provider</p> <p>BPC survey report for the subject bid</p>	<p>Common to all tapping points/towers: Ratle HEP(850MW) and Kiru HEP(624MW): Part A</p> <p>E2_400 kV Kishenpur-Samba D/C line (Quad)</p> <p>E6_400 kV Samba-Jalandhar D/C line (Quad)</p>	<p>BPC is requested to confirm that, for the termination at existing transmission line, whether dismantling activity is in scope of TSP or owner of respective transmission element.</p>		<p>Bidder needs the information for proper estimation</p>	<p>Existing tower shall be dismantled (if required) by the successful bidder in coordination with the existing tower owner.</p>





**Additional Clarifications dated 17.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
1.	RFP/ Survey Report.	Clause A.23.0 RFP & TSA Specific Technical Requirements for Transmission Line (New Clause)	<p>1) As per Amendment-IV dt. 09/12/2024, Design span are to be considered for various categories as per Regulations 2022. In this regard following may be clarified.</p> <p>a) For forest area, whether the individual span is to be restricted to the design span specified in Regulations or individual spans can be increased more than the design span without exceeding tower loading.</p> <p>b) Length of approach section near the substation may be specified for spotting of towers as per design span specified in Regulations. Substation for approach section.</p> <p>c) It may be mentioned that subject line(s) are passing through hilly/undulated area having forest. Since in the hilly areas towers can only be spotted on hill peak to hill peak basis, individual spans are in the range of 500 to 1000m. Accordingly, it</p>		The bidder can provide the realistic tariff bid.	<p>(a) In general Design span in the forest area shall be followed. However at some particular locations if there is obstruction, the individual span may be changed provided RoW specified for the Forest area as per CEA (Technical Standards for Construction of Electrical plants and Electric Lines) Regulations 2022 and RoW guidelines issued vide CEA-PS-14-86/2/2019-PSETD Division dated 24.09.2024 is not violated.</p> <p>(b) Length of the approach section near the substation shall be minimum 2 km.</p> <p>(c) The span and RoW specified in CEA regulation is for the plain terrain. Spotting in hilly terrain may be done as per site condition.</p>



**Additional Clarifications dated 17.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
			is not possible to spot towers restricted to design span specified in the regulations. May please confirm.			
2.	RFP	General	Kindly confirm availability of space in control room at Kishtwar.		Required for proper estimation.	Space is not available inside the control room. TSP needs to make suitable arrangement in all respect including the operational requirement.
3.	RFP for Selection of Bidder as Transmission Service Provider	Clause 1.2 Note: • M/s Sterlite shall provide space for 2 Nos. of 400 kV line bays (GIS) at Kishtwar S/s	We understand that the mentioned space for execution of present scope of work at Kishtwar shall be provided to TSP free of cost.  Please confirm.		Bidder needs the information for proper estimation	Land space will be available as-is-where-is basis for present scope of work only with Free of cost. For any additional requirement of TSP, TSP needs to mutually align with the existing station owner.



Additional Clarifications dated 21.12.2024 on the RFP Documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through Tariff Based Competitive Bidding Process

Sl.	Name of the Document	Clause No. and REQUIREMENTS FOR COMMUNICATION	Clarification required	Rationale for the Clarification or	RECPDCL Response
1.	RFP & TSA Document	SPECIFIC REQUIREMENTS FOR COMMUNICATION	<p>BPC to please confirm the availability of FOTE at the existing bays (after vacating) at the Substation for the termination of the following transmission line:</p> <p>(a) At Kishenpur for the Kishenpur-Samba line</p> <p>(b) At Samba for:</p> <p>(i) Kishtwar- Samba line</p> <p>(ii) Kishenpur- Samba line</p> <p>(iii) Samba – Jalandhar line</p> <p>(iv) Samba- Nakodar line</p> <p>(c) At Jalandhar for Samba – Jalandhar line</p> <p>(d) At Nakodar – For Samba- Nakodar line</p>		<p>FOTE which are not part of "Transmission scheme for evacuation of power from Ratle HEP (850 MW) &amp; Kiru HEP (624 MW): Part-A" (under TBCB) for providing connectivity to various links formed after bypassing / vacating bays have been considered under RTM Scheme namely "Transmission scheme for evacuation of power from Ratle HEP (850 MW) &amp; Kiru HEP (624 MW): Part-B" awarded to POWERGRID. FOTE requirement has been communicated to POWERGRID with OM letter dtd. 15.07.2024.</p> <p>Further, Connectivity diagram also attached at <b>Annexure-A</b> for RTM scheme.</p> <p>Availability of FOTE at the existing bays (after vacating) at the Substation for the termination of the following transmission line:</p> <p>(a) At Kishenpur for the Kishenpur- Samba line – FOTE is in the scope of Part-B scheme under RTM mode awarded to POWERGRID</p> <p>(b) At Samba for:</p> <p>(i) Kishtwar- Samba line</p> <p>(ii) Kishenpur- Samba line</p> <p>Not required as another connectivity shall be utilised using Samba- Kishenpur &amp; Kishenpur – Kishtwar OPGW links</p> <p>Kishenpur- Samba line</p>



**Additional Clarifications dated 21.12.2024 on the RFP Documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through Tariff Based Competitive Bidding Process**

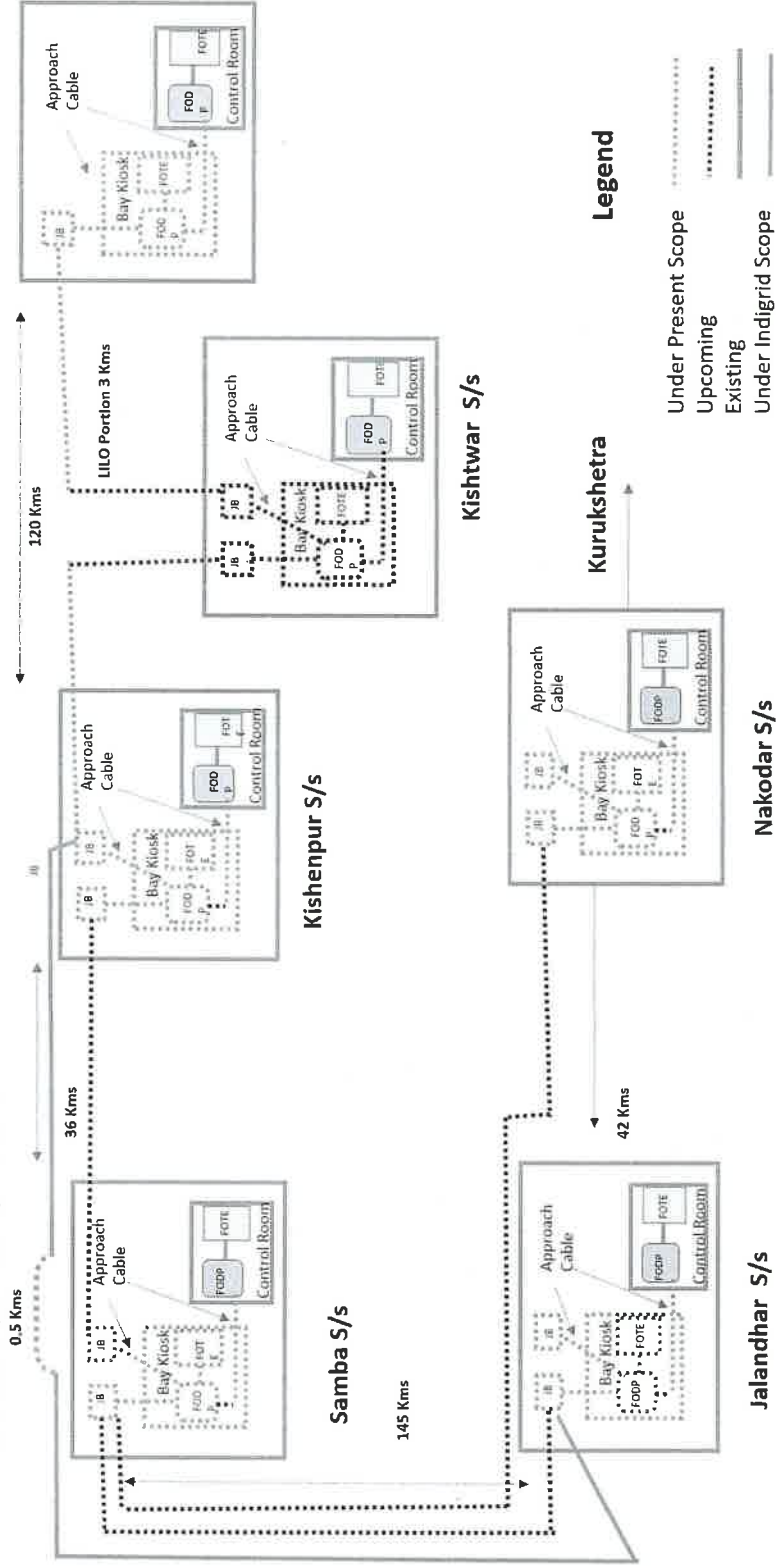
										FOTE is in the scope of Part-B scheme under RTM mode awarded to POWERGRID
										(iii) Samba – Jalandhar line
										FOTE is in the scope of Part-B scheme under RTM mode awarded to POWERGRID
										(iv) Samba- Nakodar line
										FOTE is in the scope of Part-B scheme under RTM mode awarded to POWERGRID
										(c) At Jalandhar for Samba – Jalandhar line
										FOTE is in the scope of Part-B scheme under RTM mode awarded to POWERGRID
										(d) At Nakodar – For Samba- Nakodar line
										FOTE is in the scope of Part-B scheme under RTM mode awarded to POWERGRID



Additional Clarifications dated 21.12.2024 on the RFP Documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for "Transmission scheme for evacuation of power from Ratle HEP (850 MW); Part-A" through Tariff Based Competitive Bidding Process

**Annexure A**

**Proposed Communication for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW) : Part-B"**




Additional Clarifications dated 23.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
1.	RFP	General	Kindly confirm availability of space in control room at Samba SS.		Required for proper estimation.	Space for C&R panel is not available in control room but available in existing switchyard panel room. TSP needs to coordinate with the existing substation owner.
2.	RFP	General	Kindly confirm availability of space in control room at Jalandhar SS.		Required for proper estimation.	Space for C&R panel is not available in existing control room. TSP needs to make their own arrangement.
3.	RFP Selection of Bidder as Transmission Service Provider	Clause 1.2 Note: • M/s POWERGRID shall provide space for 1 No. 80 MVAR Switchable line reactor (along with switching equipment) at Samba end of 400 kV Kishtwar-Samba 400 kV line • M/s POWERGRID shall provide space for 2 Nos. 63 MVAR Switchable line reactor (along with switching equipment) at Jalandhar end of Kishenpur- Jalandhar D/C direct line (on each ckt) • M/s POWERGRID shall provide space for 1 No. 80	We understand that the mentioned space for execution of present scope of work at Samba and Jalandhar substation shall be provided to TSP free of cost. Please confirm.		Bidder needs the information for proper estimation	Land space at Samba and Jalandhar substation will be available as-is-where-is basis for present scope of work on Free of cost.  For any additional requirement of TSP, TSP needs to coordinate with the existing substation owner.





Additional Clarifications dated 23.12.2024 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

S. N.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
4.	Transmission Service Agreement	<p>MVAR Switchable line reactor (along with switching equipment) at Samba end of Samba –Nakodar direct line</p> <p>Schedule 1 Scope of the Project provides that:</p> <ul style="list-style-type: none"> <li>M/s POWERGRID shall provide space for 1 No. 80 MVAR Switchable line reactor (along with switching equipment) at Samba end of 400 kV Kishtwar-Samba 400 kV line</li> <li>M/s POWERGRID shall provide space for 2 Nos. 63 MVAR Switchable line reactor (along with switching equipment) at Jalandhar end of Kishenpur–Jalandhar D/C direct line (on each ckt)</li> <li>M/s POWERGRID shall provide space for 1 No. 80 MVAR Switchable line reactor (along with switching equipment) at Samba end of Samba –Nakodar direct line</li> </ul>	<p>The construction of scope of work by the selected bidder would depend on provision of spaces to be provided by POWERGRID and would be out of control of the selected bidder. BPC to clarify the following:</p> <p>a. Whether the spaces will be provided by POWERGRID as free of cost?</p>		<p>Bidder needs the information for proper estimation</p>	<p>Land space at Samba and Jalandhar substation will be available as-is-where-is basis for present scope of work on Free of cost. For any additional requirement of TSP, TSP needs to coordinate with the existing substation owner.</p> 

**Additional Clarifications dated 02.01.2025 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

Sr. No.	Name of the Document	Clause No. and Existing provision	Clarification needed on	Suggested text for the amendment	Rationale for the Clarification or Amendment	RECPDCL Response
1.	RFP	General	We assume that Relay coordination and modification in CRP for LILO of Kishenpur- Dulhasti line at both end shall be in the scope of existing owner		We request BPC to provide the same for proper bid estimation.	Bidder has not mentioned the reference clause of the RfP.  However, it is clarified that Relay coordination and modification in CRP for LILO of Kishenpur- Dulhasti line at both ends shall be under present scope of work of successful bidder.
2.	RFP	General	We assume that Relay recommissioning of PLCC for Jalandar- Kishenpur line and Nakodar- Samba line at both end shall be in the scope of existing owner		We request BPC to provide the same for proper bid estimation.	Bidder has not mentioned the reference clause of the RfP.  However, bidder may refer clause C 6.0 of RfP regarding PLCC.
3.	RFP	General	We assume that Relay coordination and modification in CRP for Jalandar- Kishenpur line and Nakodar- Samba line at both end shall be in the scope of existing owner		We request BPC to provide the same for proper bid estimation.	Bidder has not mentioned the reference clause of the RfP.  However, it is clarified that all necessary modifications and coordination of relay shall be under the scope of respective bay owners.
4.	RFP for Selection of Bidder as Transmission Service Provider	Section-1, Clause 1.2, Scope of the Transmission Scheme Sr. no. 1: 400 kV line bays at Kishwar – 2 Nos. (GIS) (line bays at Kishwar S/s end shall be rated accordingly)	We understand that the extension work under present scope at Kishwar SS shall be done in a new GIS hall. Please confirm.		Bidder needs the information for proper estimation	Bidder may extend the existing GIS hall or may construct a new GIS hall. Bidder shall coordinate with the existing TSP.



**Additional Clarifications dated 02.01.2025 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

Sr. No.	Name of the Document	Clause No. and Existing provision	Clarification needed on	Suggested text for the amendment	Rationale for the Clarification or Amendment	RECPDCL Response
5.	RFP	B.3.6 GIS hall /page 158 of 176	We understand that space is available inside GIS hall for 400 kV bays at Kishtwar.		Kindly confirm.	Bidder may visit the Substation to acquaint himself with the space availability in existing GIS hall. Further, Bidder shall coordinate with the existing TSP.
6.	RFP	400kV Line Bays at Kishtwar. B.3.6 GIS Hall	BPC to confirm the space availability in existing GIS Hall for bay under present scope. Further share the existing make of GIS and module suitability for extension.			Bidder may visit the Substation to get the details of space availability in existing GIS hall, make of GIS and module suitability. Further, Bidder shall coordinate with the existing TSP.
7.	Appendix A	Kishtwar SLD KIST-KSW-11-02-001 Rev07	As per provided SLD Bay number 12 & 15 is in the scope of Ratle Project and bay number 10 & 13 in the scope of CVPPL. But scope for tie bays 11 & 14 is not defined. Also, timeline of both projects to be same to connect with both bus.		We request BPC to provide the same for proper bid estimation.	Bay No. 16, 17 and 18 shall be under present scope of work as per issued amendment.
8.	Appendix A	Kishtwar Earthing Layout KIST-KSW-11-03-002 Rev01	Bay position is not marked in provided layout		We request BPC to provide the same for proper bid estimation.	Existing drawing has been provided for reference only. Detail drawing w.r.t to the scope of work mentioned in the RFP shall be developed by the successful bidder.

**Additional Clarifications dated 02.01.2025 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

Sr. No.	Name of the Document	Clause No. and Existing provision	Clarification needed on	Suggested text for the amendment	Rationale for the Clarification or Amendment	RECPDCL Response
9.	Appendix A	Kishenpur SLD JKEEPL/PGCIL/KSS/KISHENPUR-01 -Rev00	As per RFP Ratle (Part-A), 1. There is no line interconnecting between kishenpur and Jalandhar. However, in provided SLD of Kishenpur F-6 & F-9 shows connection to Jalandhar.  Conversion of 125MVA bus reactor into Line reactor with CB and addition of line side equipment's However in provided SLD of kishenpur F-2 shows connection to Jalandhar.		We request BPC to clarify the same for proper bid estimation.	Existing drawing has been provided for reference only.  Detail drawing w.r.t to the scope of work mentioned in the RFP shall be developed by the successful bidder
10.	Appendix A	Samba SLD V-30/E-DRG/SLD/S/001-R00	As per RFP Ratle (Part-A), Line from Samba is- 1. Samba – Kishenpur 2. Samba – Jalandhar 3. Samba – Kishtwar after bypassing Kishenpur 4. Samba – Nakodar after bypassing Jalandhar		We request BPC to clarify the same for proper bid estimation.	Existing drawing has been provided for reference only.  Detail drawing wrt to the scope of work mentioned in the RFP shall be developed by the successful bidder. Termination of lines at Samba S/s shall be done by TSS




Additional Clarifications dated 02.01.2025 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

Sr. No.	Name of the Document	Clause No. and Existing provision	Clarification needed on	Suggested text for the amendment	Rationale for the Clarification or Amendment	RECPDCL Response
11.	Appendix A	Samba SLD V-30/E-DRG/SLD/S/001-R00	Above is not reflecting in the provided SLD. Comments marked in provided dwg- "All equipments in the bay & dia will be upgraded for accomodating Quad Lines in old Kishenpur (new Nakodar with 80MVAR Line Reactor) & Jalandhar3) & old Jalandhar Bays ( Kisthwar with 80MVAR Line Reactor & new Kishanpur)" However as per RFP there is no requirement of bay equipment upgradation.		We request BPC to clarify the same for proper bid estimation.	Existing drawing has been provided for reference only.  Detail drawing wrt to the scope of work mentioned in the RFP shall be developed by the successful bidder.  Bidders understanding of no requirement of upgradation of bay equipment at samba S/s is in order. However, necessary co-ordination with existing S/s owner shall be in the scope of successful bidder.
12.	Additional clarifications dated 09-12-2024	<b>Query Sr. No 22:</b> As per RFP scope, we understand that 4 nos of 400kV line bays available after .....	1. BPC is requested to confirm "tower numbers of both the existing lines", which shall be interconnected in the bypass arrangement under the scope of work of Part B scheme. This information is critical to ascertain that space, and electrical clearance is available to terminate		Bidder needs information for proper estimation.	1. The Bypassing arrangement (wherever required) to be finalized in coordination with the existing tower owner. Bidder may also visit the site and acquaint themselves with the site conditions.  Please also refer Clause No. 2.5.7 of the RFP Document.  2. Dismantling, if any.





**Additional Clarifications dated 02.01.2025 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

Sr. No.	Name of the Document	Clause No. and Existing provision	Clarification needed on	Suggested text for the amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		<p>(Quad) and 400 kV Samba-Jalandhar D/C line (Quad).</p> <p>As per 20th NCT, timeline for Part-B is 24 Months or matching with Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part A scheme whichever is later.</p>	<p>proposed lines of Part A scheme at existing gantry points at Samba substation. Since there is limited space available on the ground.</p> <p>2. Further, we presume that unused towers after the above interconnection shall be dismantled and removed by the other agency &amp; it shall not be in the scope of bidder.</p> <p>3. Since, the 4 circuits of the upcoming transmission lines (Jalandhar-Samba &amp; Kishenpur/Kishtwar-Samba line) shall be terminated on the vacated bays after the above <u>(point 1 above)</u> interconnection at Samba substation. Due to limited space and fixed corridors for the upcoming lines, we</p>			<p>required for completion of present scope shall be done by successful bidder of present scheme.</p> <p>3. It shall be coordinated with the existing owner.</p> <div style="text-align: right;">  </div>



Additional Clarifications dated 02.01.2025 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

Sr. No.	Name of the Document	Clause No. and Existing provision	Clarification needed on	Suggested text for the amendment	Rationale for the Clarification or Amendment	RECPDCL Response
13.	Additional clarifications dated 09-12-2024	<p><b>Query Sr. No 22:</b> As per RFP scope, we understand that 4 nos of 400KV line bays available after .....</p> <p><b>RECPDCL Response</b> ... As per 20th NCT, timeline for Part-B is 24 Months or matching with Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part A scheme whichever is later.</p>	<p>presume that bidder shall be allowed to use the vacated tower locations and TL corridor. BPC to confirm.</p> <p>Please note that it is mentioned that the timeline for Part-B is 24 Months or matching with Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part A scheme whichever is later. However please note that Part A is heavily dependent on due bypassing &amp; bay upgradation work in Part B bid.</p> <p>Hence, in view of the above, the timeline for Part A bid should be at least 6 months more from the completion timeline of Part B. BPC is requested to review the timelines of Part A bid accordingly.</p>		<p>Bidder needs information for proper estimation.</p>	<p>As per 20<sup>th</sup> NCT, time line for Part-B is 24 months or matching with Transmission scheme for evacuation of power from Ratle HEP (850 MW) &amp; Kiru HEP (624 MW) : Part A scheme whichever is later.</p>




**Additional Clarifications dated 02.01.2025 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

Sr. No.	Name of the Document	Clause No. and Existing provision	Clarification needed on	Suggested text for the amendment	Rationale for the Clarification or Amendment	RECPDCL Response
14.	Additional clarifications dated 09-12-2024	Appendix A GA Drawings for Samba SS 1.3 Project Description As part of separate transmission scheme under RTM (Part-B), bypassing of both ckts of 400 kV Kishenpur – Samba D/C line (Twin) and 400 kV Samba – Jalandhar D/C line (Twin) at Samba S/s is being implemented (connecting them together to form 400 kV Kishenpur– Jalandhar D/C direct line (Twin)). Further, reconductoring of 400 kV Kishenpur-Kishtwar section (up to LILO point) (with Twin HTLS) and Bay upgradation works (2000 A to 3150 A) at Samba end is also being implemented as part of this separate scheme.	1. As per RFP, upgradation of the 400kV bays to be utilised for termination of Kishenpur-Samba and Samba-Jalandhar 400kV lines at Samba are to be done under Part-B pkg. As the upgradation work is envisaged prior to line charging, BPC is requested to inform us about the timeline for completion of bay upgradation work. 2. Also, as per the GA drawing provided, for accommodation of 2 nos of 80MVAR switchable line reactors at Samba S/S, shifting of line side equipment i.e. (WT, LA, CVT, Isolator, LA) is required to be done. As the upgradation of these equipment are in scope of Part-B, we understand that shifting and re-		Bidder needs the information for proper estimation	1. As per 20 <sup>th</sup> NCT, time line for Part-B is 24 months or matching with Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW) : Part A scheme whichever is later. 2. Associated shifting of existing equipment (Isolator, LA, CVT, WT) as required for installation of reactors is in the present scope.



Additional Clarifications dated 02.01.2025 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

Sr. No.	Name of the Document	Clause No. and Existing provision	Clarification needed on	Suggested text for the amendment	Rationale for the Clarification or Amendment	RECPDCL Response
			installation of these equipment keeping space for accommodation of Line reactors shall be done under Part-B. Please confirm our understanding.			
15.	Additional clarifications dated 09-12-2024	Appendix A GA drawing of Jalandhar SS	As per GA drawing, for the installation of 63MVAR Switchable line reactors at Jalandhar SS, shifting of the existing line side equipment is required for creating space for Line reactors. We understand that shifting of these equipment (Isolator, LA, CVT, WT) will be done by the owner of the SS and shall not be under the scope of work under this project for TSP. Please confirm.		Bidder needs the information for proper estimation	Associated shifting of existing equipment (Isolator, LA, CVT, WT) as required for installation of reactors is in the present scope.
16.	Additional clarifications dated 09-12-2024	Appendix A GA drawing of Jalandhar SS	BPC is requested to mark the space allocated for the installment of the Line reactor at the Jalandhar SS.		Bidder needs the information for proper estimation	Existing drawing has been provided for reference only w.r.t existing. 

**Additional Clarifications dated 02.01.2025 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

Sr. No.	Name of the Document	Clause No. and Existing provision	Clarification needed on	Suggested text for the amendment	Rationale for the Clarification or Amendment	RECPDCL Response
17.	Additional clarifications dated 09-12-2024	Appendix A SLD for Kishenpur SS	As per RFP, there is no bay work to be done by TSP at Kishenpur SS. However, as per the SLD provided in Appendix A, 1 CB (connected to line reactor), and line side equipment (LA, Isolator, CVT and Wave trap) are shown as present scope of work. We understand that the indication given in the SLD of Appendix A for Kishenpur is not related to scope of work under this project and line equipment for termination of Kishenpur-Samba line will be utilized from the available equipment from the bypass of Kishenpur-Kistewar Line.			Detail drawing wrt to the scope of work mentioned in the RfP shall be developed by the successful bidder. As mentioned in clause B.5.0 of RfP, bidder is also requested to visit S/s site.  Existing drawing has been provided for reference only w.r.t existing.  The scope of work shall be as mentioned in the RfP.



**Additional Clarifications dated 02.01.2025 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process**

Sr. No.	Name of the Document	Clause No. and Existing provision	Clarification needed on	Suggested text for the amendment	Rationale for the Clarification or Amendment	RECPDCL Response
18.	Additional Clarifications dated 09.12.2024	SI No 25 Query: Bypassing 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line (Quad Moose), thus forming 400kV Samba – Nakodar (Quad) direct line We understand that TSP has to consider only line bypassing work in their scope. However necessary augmentation in CRP/SAS and communication (PLCC/FOTE) network shall be done by existing owner.  Reply: Necessary augmentation (including necessary augmentation in CRP/SAS and communication PLCC/FOTE network) required for the present Reactor bays shall be done under present scope.	Please confirm our understanding. As per BPC reply, we understand that the augmentation work done in CRP and SAS for line reactor bays at Samba and Jalandhar are to be done by TSP. However, the augmentation required in FOTE and PLCC for the change in line length resulting after bypassing, shall not be under scope of work. Please confirm.		Bidder needs the information for proper estimation	Augmentation required in existing FOTE for the existing bays is envisaged in the scope of the existing owner of FOTE. . However PLCC is under present scope. Kindly refer Clause C 6.0
19.	Additional clarifications	Appendix A: SLD for Samba SS	As per site visit, it was observed that in existing		Bidder needs the	02 Nos. wave traps need to be provided by successful bidder to meet




Additional Clarifications dated 02.01.2025 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process

Sr. No.	Name of the Document	Clause No. and Existing provision	Clarification needed on	Suggested text for the amendment	Rationale for the Clarification or Amendment	RECPDCL Response
	dated 09-12-2024		Kishenpur-Samba double ckt line, 1 Wave Trap per circuit is used. After bypassing, these both circuits will be terminated at two different SS and hence, 2 more wave trap will be required to meet the communication requirement. We understand that above mentioned upgrade work for PLCC at Samba SS is not under the present scope of work. Please confirm.		information for proper estimation	the requirement of phase to phase coupling for 400 kV.
20.	Amendment IV dated 09-12-2024	Sr. No. 6 A.23.0 Specific Technical Requirements for Transmission Line  <b>New Clause:</b> RoW width and Span in different terrain shall be as per Schedule VII of CEA (Technical Standards for Construction of Electrical plants and Electric Lines) Regulations 2022 and RoW guidelines issued vide	With reference to referred clause, it is understood that the Spans mentioned in the regulation & guidelines are provided with intention to reduce the Transmission line impact on environment & also lower the ROW compensation. It is also understood that in terrain such as forest/ Urban/ Populated areas,		Bidder needs information for proper estimation.	In general Design span in the forest/urban/populated area shall be followed. However at some particular locations if there is obstruction, the individual span may be changed provided RoW specified for the forest/urban/populated area as per CEA (Technical Standards for Construction of Electrical plants and Electric Lines) Regulations 2022 and RoW guidelines issued vide CEA-PS-



**Additional Clarifications dated 02.01.2025 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” through tariff based competitive bidding process**

Sr. No.	Name of the Document	Clause No. and Existing provision	Clarification needed on	Suggested text for the amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		CEA-PS- 14-86/2/2019-PSETD Division dated 24.09.2024	<p>TSP is free to evaluate the options available and finalize the best scenario from compliance as well as techno commercial point of view.</p> <p>Restriction of span in forest may lead to increased tree cutting as number of locations shall increase in forest. This may lead to rejection/revision of forest approval eventually delaying the completion of project. Also, unless the ROW width &amp; spans are updated in MOEF guidelines, reduction in ROW width as specified in CEA regulations &amp; guidelines may not be applicable.</p> <p>Similarly spotting in Urban/ Populated areas is restricted by availability of locations to construct tower.</p>			<p>14-86/2/2019-PSETD Division dated 24.09.2024 is not violated.</p> 

**Additional Clarifications dated 02.01.2025 to RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for "Transmission Scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process**

Sr. No.	Name of the Document	Clause No. and Existing provision	Clarification needed on	Suggested text for the amendment	Rationale for the Clarification or Amendment	RECPDCL Response
			<p>Restriction of span on lower side than normal span may hamper the possibility of utilizing a better corridor or location.</p> <p>Hence, it is requested to clarify whether the TSP is allowed to evaluate the best solution based on ROW width &amp; spans specified in the regulation &amp; guideline without span restriction.</p>			



**Kunal Kumar**

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**From:**  
**Sent:**  
**To:**  
**Subject:**

**Attachments:**

General

FYI..

Sent from [Outlook for Android](#)

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**From:** TBCB Projects <tbc@recpdcl.in>  
**Sent:** Thursday, November 14, 2024 6:03:09 pm  
**To:** TBCB Projects <tbc@recpdcl.in>  
**Cc:** Satyaban Sahoo <satyabhan.sahoo@recpdcl.in>; Anil Kumar Perala <anilkperala@recpdcl.in>; Ritam Biswas <ritam.biswas@recpdcl.in>  
**Subject:** RECPDCL: Unexecuted finalized Transmission Service Agreement (TSA) for "Transmission system for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part A" through Tariff Based Competitive Bidding process.

Mail from External Sender - be careful with Links, Attachments and Responses.

Dear Sir,

This has reference to the RFP dated 26.09.2024 for selection of Transmission Service Provider to establish "Transmission system for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part A" (hereinafter referred to as "the Project") through tariff based competitive bidding process.

As per clause 9.4.3 of Tariff based Competitive-bidding Guidelines for Transmission Service, "*The TSP on the date of acquisition of SPV from the BPC will enter into a Transmission Service Agreement (TSA) with the Nodal Agency (in case of interstate projects)/ the concerned utilities (in case of intra State projects)*". Accordingly, TSA has to be executed between Nodal Agency i.e., CTU and TSP on the day of transfer of project specific SPV to the selected bidder.

In terms of provisions of Clause 1.6.2.1 (6) of RFP document please find attached copy of unexecuted finalized Transmission Service Agreement after incorporating amendments issued till date of the subject project.

Thanks & Regards



Komal  
TBCB division, RECPDCL



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Ref No.: RECPDCL/TBCB/Rattle-Kiru/2024-25/4015

Date: 28.02.2025

To,

**M/s IndiGrid 2 Private Limited**

Unit No. 101, First Floor, Windsor Village,  
KoleKalyan Off CST Road,  
Vidyanagari Marg, Santacruz (East) Mumbai,  
Maharashtra – 400098

**Kind Attention: Sh. Nitin Mahajan**

**Subject:** Establishment of "Transmission scheme for evacuation of power from Rattle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through Tariff Based Competitive Bidding Process (TBCB) – **Letter of Intent.**

Dear Sir,

We refer to:

1. The Request for Proposal (RfP) dated 26.09.2024 comprising RfP, Draft Transmission Service Agreement, Share Purchase Agreement and Survey Report dated 01.10.2024 issued to M/s IndiGrid 2 Private Limited, as regards participation in the Global Invitation for Bids for establishment of "Transmission scheme for evacuation of power from Rattle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through Tariff Based Competitive Bidding process including all correspondence/clarifications/amendments/errata/corrigendum issued by REC Power Development and Consultancy Limited in regard thereto (hereinafter collectively referred to as the 'Final RFP') till the submission of Bid Deadline and as listed below:
  - (i) Amendment-I dated 30.10.2024,
  - (ii) Clarifications dated 07.11.2024,
  - (iii) Amendment-II dated 28.11.2024,
  - (iv) Amendment-III dated 05.12.2024,
  - (v) Amendment-IV and Additional Clarifications dated 09.12.2024,
  - (vi) Amendment-V dated 13.12.2024,
  - (vii) Additional Clarifications dated 14.12.2024
  - (viii) Additional Clarifications dated 17.12.2024
  - (ix) Amendment-VI dated 19.12.2024,
  - (x) Amendment-VII and Additional Clarifications dated 21.12.2024,
  - (xi) Additional Clarifications dated 23.12.2024
  - (xii) Amendment-VIII dated 27.12.2024,
  - (xiii) Amendment-IX dated 01.01.2025;
  - (xiv) Additional Clarifications dated 02.01.2025
2. The offer of M/s IndiGrid 2 Private Limited by way of a Technical Bid pursuant to (1) above submitted on 03.01.2025 in response to the Final RFP.
3. The Initial Price Offer of M/s IndiGrid 2 Private Limited as submitted on 03.01.2025 in response to the Final RFP.
4. The final offer of M/s IndiGrid 2 Private Limited, discovered during e-Reverse Auction, conducted on 23.01.2025 in response to the Final RFP.
5. The Technical Bid as in (2) above, the Initial Price Offer as in (3) above and the Final Offer as in (4) above hereinafter collectively referred to as the 'Bid'.




We are pleased to inform you that your proposal and offer received by way of the 'Bid' has been accepted and M/s IndiGrid 2 Private Limited is hereby declared as Successful Bidder as per clause 3.6.1 of the Final RFP for the above project and consequently, this Letter of Intent (hereinafter referred to as the 'Lol') is being issued in 2 copies, One original plus One copy.

This Lol is based on the Final RFP and is further contingent upon you satisfying the following conditions:

- (a) Acknowledging its issuance and unconditionally accepting its contents and recording 'Accepted unconditionally' under the signature and stamp of your authorized signatory on each page of the duplicate copy of this letter attached herewith and returning the same to REC Power Development and Consultancy Limited within 7 (Seven) days from the date of issuance of Lol.
- (b) Completion of various activities as stipulated in the RFP including in particular Clause 2.15.2, Clause 2.15.3 and Clause 2.15.4 of the Final RFP within the timelines as prescribed therein.
- (c) Provide the Contract Performance Guarantee of Rs. 18.40 Crore (Rupees Eighteen Crore Forty Lakh Only) within 10 (Ten) days from issue of this Lol, in favour of the Central Transmission Utility of India Limited, as per the provisions of Clause 2.12.

It may be noted that REC Power Development and Consultancy Limited has the rights available to them under the Final RFP, including rights under clause 2.15.5 and 3.6.3 thereof, upon your failure to comply with the aforementioned conditions.

As you are aware, the issuance and contents of this Lol are based on the Bid submitted by you as per the Final RFP including the Transmission Charges and other details regarding the Scheduled COD as contained therein. The Quoted Transmission Charges as submitted by you and the Scheduled COD of transmission elements as agreed by you in your Bid, as per Annexure 21 and Format-1 of Annexure-8 respectively of the Final RFP is enclosed herewith as Schedule-A and incorporated herein by way of reference.

Further, please note that relationship of M/s IndiGrid 2 Private Limited with the REC Power Development and Consultancy Limited & Central Transmission Utility of India Limited will be governed solely on the basis of the Final RFP.

You are requested to unconditionally accept the Lol, and record on one copy of the Lol, 'Accepted unconditionally', under the signature of the authorized signatory of your Company and return such copy to us within 7 (Seven) days of issue of Lol.

Yours faithfully

  
(Saroj Kumar)  
General Manager (Tech)

**Enclosures:**

1. Schedule A: Quoted Transmission Charges and the scheduled COD of transmission element submitted in your Bid, as per Annexure 21 and Format-1 of Annexure-8 respectively of the Final RFP.





**Copy for kind information to:**

1. **The Secretary,**  
Central Electricity Regulatory Commission,  
6<sup>th</sup> Floor, Tower B, World Trade Centre,  
Nauroji Nagar, New Delhi-110029.
2. **The Chairperson,**  
Central Electricity Authority,  
Sewa Bhawan, R K Puram,  
New Delhi-110086.
3. **The Joint Secretary (Transmission),**  
Ministry of Power,  
Shram Shakti Bhawan,  
Rafi Marg, New Delhi- 110 004.
4. **The Director (Transmission),**  
Ministry of Power, Govt, of India,  
Shram Shakti Bhawan, Raft Marg,  
New Delhi 110001
5. **The Chief Engineer (PSP & PA -I)**  
Central Electricity Authority,  
Sewa Bhawan, R.K. Puram,  
New Delhi – 110066.
6. **The Chief Operating Officer,**  
Central Transmission Utility of India Limited,  
5<sup>th</sup> to 10<sup>th</sup> Floor, Ircon International Tower,  
Tower No.-1, Plot No. 16, Sector 32,  
Gurugram, Haryana - 122003



**ANNEXURE 21 - FORMAT FOR FINANCIAL BID****Quoted Annual Transmission Charges: Rs. 1952.32 Million****Notes:**

1. The Bidders are required to ensure compliance with the provisions of Clause 2.5.3 of this RFP.
2. Quotes to be in Rupees Millions and shall be up to two (2) decimal points.
3. The contents of this format shall be clearly typed.
4. The Financial Bid shall be digitally signed by the authorized signatory in whose name power of attorney as per Clause 2.5.2 is issued.
5. Ensure only one value for annual Transmission Charges is quoted. The same charge shall be payable every year to TSP for the term of TSA.



IndiGrid 2 Private Limited  
(formerly known as IndiGrid 2 Limited)



**Annexure 8- Undertaking And Details of Equity Investment**  
**Format 1: Bidders' Undertakings**

**Date: 26-12-2024**

**To,**  
**Chief Executive Officer,**  
**REC Power Development and Consultancy Limited**  
(formerly REC Power Distribution Company Limited)  
(A wholly owned subsidiary of REC Limited)  
**REC Corporate Head Quarter,**  
**D Block, Plot No. I – 4, Sec – 29 Gurugram – 122 001**

**Dear Sir,**

**Sub: Bidders' Undertakings in respect of Bid for selection of Bidder as TSP to establish Inter-State transmission system for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A"**

We hereby undertake on our own behalf and on behalf of the TSP, that if selected as the Successful Bidder for the Project:

1. The Project shall comply with all the relevant electricity laws, codes, regulations, standards and Prudent Utility Practices, environment laws and relevant technical, operational and safety standards, and we shall execute any agreements that may be required to be executed as per law in this regard.
2. We confirm that the Project shall also comply with the standards and codes as per Clause 1.6.1.2 of the RFP and the TSP shall comply with the provisions contained in the Central Electricity Regulatory Commission Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-state Transmission and related matters Open Access) Regulations, 2009.
3. We give our unconditional acceptance to the **RFP dated 26.09.2024** issued by the BPC and the RFP Project Documents, as amended, and undertake to ensure that the TSP shall execute all the RFP Project Documents, as per the provisions of this RFP.
4. We have submitted the Bid on the terms and conditions contained in the RFP and the RFP Project Documents. Further, the Financial Bid submitted by us is strictly as per the format provided in Annexure 21 of the RFP, without mentioning any deviations, conditions, assumptions or notes in the said Annexure.
5. Our Bid is valid up to the period required under Clause 2.8 of the RFP.

Registered & Corporate Office: Unit No101, First Floor, Windsor, Village Kole Kalyan Off CST Road, Vidyasagar Wing, Santacruz (East), Mumbai, Maharashtra-400098, India | CIN: U29130MH2012PTC3530  
Email: [complianceofficer@indigrid.com](mailto:complianceofficer@indigrid.com) | [www.indigrid.co.in](http://www.indigrid.co.in) | Ph: +91 7208492580



IndiGrid 2 Private Limited  
(formerly known as IndiGrid 2 Limited)



6. Our Bid has been duly signed by authorized signatory and stamped in the manner and to the extent indicated in this RFP and the power of attorney / Board resolution in requisite format as per RFP has been enclosed with this undertaking.
7. ~~We have assumed that if we are selected as the Successful Bidder, the provisions of the Consortium Agreement, to the extent and only in relation to equity lock in and our liability thereof shall get modified to give effect to the provisions of Clause 2.5.8 of this RFP and Article 18.1 of the Transmission Service Agreement. (Note: This is applicable only in case of a Bidding Consortium)~~
8. We confirm that our Bid meets the Scheduled COD of each transmission Element and the Project as specified below:

Sl. No.	Name of the Transmission Element	Scheduled COD in months from Effective Date	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1	LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s along with associated bays at Kishtwar S/s	24 months from SPV transfer	100%	All elements of scheme are required to be commissioned simultaneously as their utilization is dependent on each other.
2	400 kV Kishenpur-Samba D/C line (Quad) (only one circuit is to be terminated at Kishenpur utilizing 1 No. of 400 kV vacated line bay at Kishenpur S/s (formed with bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur) while second circuit would be connected to bypassed circuit of 400 kV Kishtwar – Kishenpur line (Quad))			
3	Bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad), thus forming 400 kV Kishtwar - Samba (Quad) direct line (one ckt)			

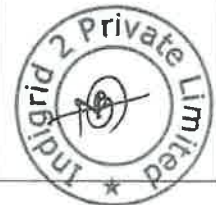
Registered & Corporate Office: Unit No101, First Floor, Windsor, Village Kole Kalyan Off CST Road, Juvanguda Marg, Santaacruz (East), Mumbai, Maharashtra-400098, India | CIN: U29130MH2014PTC353042  
Email: complianceofficer@indigrd.com | www.indigrd.co.in | Ph: 022 72681937/5



IndiGrid 2 Private Limited  
(formerly known as IndiGrid 2 Limited)



4.	1x80 MVA Switchable line reactor at Samba end of 400 kV Kishtwar-Samba 400 kV line-165 km (Quad) [formed after bypassing of 400 kV Kishtwar – Kishenpur line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad)]		
5.	1x63 MVA Switchable line reactor on each ckt at Jalandhar end of Kishenpur–Jalandhar D/C direct line – 171 km (Twin) (formed after bypassing both ckts of 400 kV Kishenpur – Samba D/C line (Twin) and 400 kV Samba – Jalandhar D/C line (Twin) at Samba and connecting them together to form Kishenpur– Jalandhar D/C direct line (Twin))		
6.	400 kV Samba- Jalandhar D/C line (Quad) (only one circuit is to be terminated at Jalandhar utilizing 1 No. of 400 kV vacated line bay at Jalandhar S/s (formed with bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar) while second circuit would be connected to bypassed circuit of Jalandhar –Nakodar 400 kV line (Quad))		
7.	1x80 MVA Switchable line reactor at Samba end of Samba –Nakodar direct line (Quad) (187km) formed after bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line (Quad Moose), thus forming Samba – Nakodar line (Quad)		
8.	Bypassing 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line(Quad Moose), thus forming 400 kV Samba – Nakodar (Quad) direct line		



We agree that the payment of Transmission Charges for any Element irrespective of its successful commissioning on or before its Scheduled COD shall only be considered after the successful commissioning of Element(s) which are pre - required for declaring the commercial operation of such Element as mentioned in the above table.

IndiGrid 2 Private Limited  
(formerly known as IndiGrid 2 Limited)



Scheduled COD for the Project: 24 months from the date of SPV Transfer.

9. We confirm that our Financial Bid conforms to all the conditions mentioned in this RFP, and in particular, we confirm that:
- Financial Bid in the prescribed format of Annexure 21 has been submitted duly signed by the authorized signatory.
  - Financial Bid is unconditional.
  - Only one Financial Bid has been submitted.
10. We have neither made any statement nor provided any information in this Bid, which to the best of our knowledge is materially inaccurate or misleading. Further, all the confirmations, declarations and representations made in our Bid are true and accurate. In case this is found to be incorrect after our acquisition of **Ratle Kiru Power Transmission Limited** [Insert the name of the SPV], pursuant to our selection as Selected Bidder, we agree that the same would be treated as a TSP's Event of Default under Transmission Service Agreement, and relevant provisions of Transmission Service Agreement shall apply.
11. We confirm that there are no litigations or other disputes against us which materially affect our ability to fulfill our obligations with regard to the Project as per the terms of RFP Project Documents.
12. Power of attorney/ Board resolution as per Clause 2.5.2 is enclosed.

**Signature and name of the authorized signatory of the Company and stamp of Bidding Company or Lead member of Consortium**

.....  
Name: **Nitin Mahajan**

Designation : **Authorized Signatory**

Address : **IndiGrid 2 Private Limited**

**Unit No. 101, First Floor, Windsor, Village KoleKalyan, off CST Road,  
Vidyanagari Marg, Kalina, Santacruz (East), Mumbai – 400 098**

Date: 26-12-2024

Place: Noida

**Company Rubber Stamp**

**Note:**

In case of foreign Bidders, refer to clause 2.5.6 (p).





**Kunal Kumar**

---

**From:**  
**Sent:**  
**To:**  
**Cc:**  
**Subject:**

**Attachments:**

Dear Sir,

This has reference to RECPDCL Letter of Intent (LoI) dated 28.02.2025 for the subject mentioned transmission scheme.

Please find enclosed copy of the duly "Accepted unconditionally" LoI. We already submitted the hard copy of LoI in the office of RECPDCL.

Thanks & Regards,

**Kunal Kumar**

**Bidding & Business Development**



**IndiGrid Limited**

10th Floor, Berger Tower

Delhi One Complex, Sector-16 B

Noida, Uttar Pradesh-201301 (INDIA)

Email : [kunal.kumar@indigrid.com](mailto:kunal.kumar@indigrid.com)





संदर्भ संख्या: आरईसीपीडीसीएल/टीबीसीबी/Ratle-Kiru/2024-25/4273

दिनांक: 24.03.2025

मेसर्स इंडीग्रिड 2 प्राइवेट लिमिटेड,  
यूनिट नंबर 101, पहली मंजिल, विंडसर विलेज  
कोलेकल्याण ऑफ सीएसटी रोड,  
विद्यानगरी मार्ग, सांताक्रुज़ (पूर्व) मुंबई,  
महाराष्ट्र - 400098

M/s IndiGrid 2 Private Limited  
Unit No. 101, First Floor, Windsor Village,  
KoleKalyan Off CST Road,  
Vidyanagari Marg, Santacruz (East) Mumbai,  
Maharashtra - 400098

(सादर ध्यानाकर्षण: श्री नितिन महाजन)

विषय: Establishment of "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A" through tariff based competitive bidding process – Extension of Lol- regarding.

संदर्भ: RECPDCL/TBCB/Ratle-Kiru/2024-25/4015, Dated 28.02.2025

Dear Sir,

This is in reference to above referred Letter of Intent dated 28<sup>th</sup> February, 2025 issued to M/s IndiGrid 2 Private Limited for Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A.

To complete the activities mentioned under Clause 2.15.2, Clause no. 2.15.3 and Clause no. 2.15.4 of Request for Proposal (RFP) document, the last date for completion of various activities, is extended till 01<sup>st</sup> April, 2025.

धन्यवाद।

भवदीय,

24/03/2025

(अनिल कुमार पेराला)

मुख्य प्रबंधक (तकनीकी)



No. 27-44/1/2024-REC DESK  
Government of India  
Ministry of Power  
\*\*\*

Shram Shakti Bhawan, Rafi Marg,  
New Delhi, dated: the 18<sup>th</sup> March , 2025

To

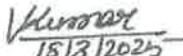
The Chairman & Managing Director,  
REC Limited, Plot No. I-4, Sector-29,  
Gurugram, Haryana -122001.

**Subject: Approval for Sale and transfer of Ratle Kiru Power Transmission Limited to M/s IndiGrid 2 Private Limited – Regarding.**

Sir,

I am directed to refer to RECPDCL's letter No. SEC No. 1/219/2024/4065 dated 7<sup>th</sup> March, 2025 on the subject mentioned above and to convey the approval of competent authority for sale and transfer of 50,000 equity shares of Rs. 10 each of Ratle Kiru Power Transmission Limited to the Successful Bidder, selected through Tariff Based Competitive Bidding Process i.e. M/s IndiGrid 2 Private Limited .

Yours faithfully,

  
15/3/2025  
(Vikash Kumar)

Under Secretary to the Govt. of India  
Tel.: 011-23711302

Copy for information and necessary action to:

1. US (Trans), MoP with the request that transmission wing should also write to concerned states informing about the project for extending all possible help in assessment of compensation to be paid to landowners and also expediting forest clearance, if involved in the project.
2. CEO, RECPDCL
3. HOD (Finance & CS), RECPDCL



**TRANSMISSION SERVICE AGREEMENT**

**FOR**

**DEVELOPMENT AND OPERATION OF INTER-  
STATE TRANSMISSION SYSTEM**

**FOR TRANSMISSION OF ELECTRICITY  
THROUGH TARIFF BASED COMPETITIVE  
BIDDING FOR**

**TRANSMISSION SCHEME FOR  
EVACUATION OF POWER FROM RATLE HEP  
(850 MW) & KIRU HEP (624 MW): PART-A**

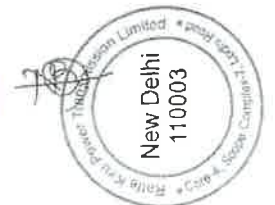
**BETWEEN THE**

**CENTRAL TRANSMISSION UTILITY OF INDIA  
LIMITED  
(NODAL AGENCY)**

**AND**

**RATLE KIRU POWER TRANSMISSION LIMITED**

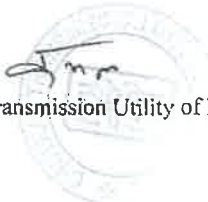
*24<sup>th</sup> March, 2025*



## Transmission Service Agreement

**CONTENTS**

1	Definitions and Interpretations .....	5
2	Effectiveness and Term of Agreement.....	17
3	Conditions Subsequent.....	19
4	Development of the Project .....	23
5	Construction of the Project .....	27
6	Connection and commissioning of the Project.....	31
7	Operation and Maintenance of the Project .....	36
8	Availability of the project.....	37
9	Insurances .....	38
10	Billing And Payment of Transmission Charges.....	39
11	Force Majeure .....	40
12	Change in Law.....	44
13	Events of Default and Termination .....	47
14	Liability and Indemnification.....	52
15	Assignments and Charges.....	58
16	Governing Law and Dispute Resolution .....	60
17	Representation and Warranties .....	62
18	Independent Engineer .....	64
19	Miscellaneous Provisions .....	66



Central Transmission Utility of India Limited

2



Ratle Kiru Power Transmission Limited



Bond



Indian-Non Judicial Stamp  
Transmission Service Agreement  
Haryana Government



480

Date : 04/02/2025

Certificate No. GOD2025B1442



Stamp Duty Paid : ₹ 101

(Rs Only)

GRN No. 127668913



Penalty : ₹ 0

(Rs Zero Only)

**Deponent**

Name : Central Transmission utility of India ltd  
H.No/Floor : 2 Sector/Ward : 29 Landmark : Na  
City/Village : Gurugram District : Gurugram State : Haryana  
Phone : 98\*\*\*\*\*10



Purpose : ARTICLE 5 GENERAL AGREEMENT to be submitted at Concerned office

The authenticity of this document can be verified by scanning this QrCode Through smart phone or on the website <https://egrashry.nic.in>

**THIS TRANSMISISON SERVICE AGREEMENT** (hereinafter referred to as "TSA" or "Agreement" or "the Agreement" or "this Agreement") is made on the 24<sup>th</sup> [Insert day] of March.. [Insert month] of Two Thousand and Twenty Five.

**BETWEEN:**

The Central Transmission Utility of India Limited, having its registered address at "Saudamini", 1st Floor, Plot No. 2, Sector-29, Gurugram-122001, Haryana and correspondence address at 5th to 10th Floor, Ircon International Tower, Tower no-1, Plot no -16, Sector-32, Gurugram, Haryana-122003, acting as a Nodal Agency (referred to as the "Nodal Agency"), which expression shall unless repugnant to the context or meaning thereof include its successors, and permitted assigns) as Party of the one part;

**AND**

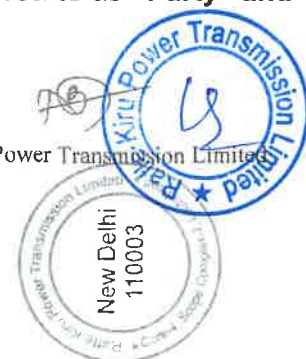
**Ratle Kiru Power Transmission Limited**, incorporated under the Companies Act, 2013, having its registered office at Core-4, Scope Complex 7, Lodhi Road Delhi, South Delhi, Delhi 110003 (herein after referred to as "Transmission Service Provider" or "TSP" or "ISTS Licensee", which expression shall unless repugnant to the context or meaning thereof include its successors, and permitted assigns) as Party of the other part;

**("Nodal Agency" and "TSP" are individually referred to as "Party" and collectively as the "Parties")**

  
Central Transmission Utility of India Limited

3

  
Ratle Kiru Power Transmission Limited







**AND WHEREAS:**

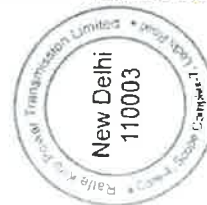
- A) In accordance with the Bidding Guidelines, the Bid Process Coordinator (hereinafter referred to as BPC) had initiated a competitive e-reverse bidding process through issue of RFP for selecting a Successful Bidder to build, own, operate and transfer the Project comprising of the Elements mentioned in Schedule 1 (hereinafter referred to as the Project)
- B) Pursuant to the said e-reverse bidding process, the BPC has identified the Successful Bidder, who will be responsible to set up the Project on build, own, operate and transfer basis to provide Transmission Service in accordance with the terms of this Agreement and the Transmission License.
- C) The Selected Bidder has submitted the Contract Performance Guarantee and acquired one hundred percent (100%) of the equity shareholding of **Ratle Kiru Power Transmission Limited**, along with all its related assets and liabilities in terms of the provisions of the Share Purchase Agreement.
- D) The TSP has agreed to make an application for a Transmission License to the Commission for setting up the Project on build, own, operate and transfer basis.
- E) The TSP has further agreed to make an application to the Commission for the adoption of the Transmission Charges under Section 63 of the Electricity Act, 2003, along with a certification from the Bid Evaluation Committee in accordance with the Bidding Guidelines issued by Ministry of Power, Government of India.
- F) The TSP has agreed to execute the agreement(s) required, if any, under Sharing Regulations within fifteen (15) days from the date of grant of Transmission License from the Commission.
- G) The TSP agrees to the terms and conditions laid down under Sharing Regulations, for making available the ISTS and charge the Transmission Charges in accordance with the terms and conditions of Sharing Regulations.
- H) The billing, collection and disbursement of the Transmission Charges by the CTU to the ISTS Licensee shall be governed as per Sharing Regulations.
- I) The terms and conditions stipulated in the Transmission License issued by the Commission to the TSP shall be applicable to this Agreement and the TSP agrees to comply with these terms and conditions. In case of inconsistency between the Transmission License terms & conditions and the conditions of this Agreement, the conditions stipulated in the Transmission License granted by the Commission shall prevail.

**NOW, THEREFORE, IN CONSIDERATION OF THE PREMISES AND MUTUAL AGREEMENTS, COVENANTS AND CONDITIONS SET FORTH HEREIN, IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:**

  
Central Transmission Utility of India Limited

4

  
Ratle Kiru Power Transmission Limited



**ARTICLE: 1****1 DEFINITIONS AND INTERPRETATIONS****1.1 Definitions:**

- 1.1.1 The words / expressions used in this Agreement, unless as defined below or repugnant to the context, shall have the same meaning as assigned to them by the Electricity Act, 2003 and the rules or regulations framed there under including those issued / framed by the Commission (as defined hereunder), as amended or re-enacted from time to time or the General Clauses Act, failing which it shall bear its ordinary English meaning.

The words/expressions when used in this Agreement shall have the respective meanings as specified below:

**“Acquisition Price”** shall have the same meaning as defined in the Share Purchase Agreement;

**“Act” or “Electricity Act” or “Electricity Act 2003”** shall mean the Electricity Act, 2003 and any amendments made to the same or any succeeding enactment thereof;

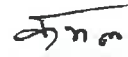
**“Affiliate”** shall mean a company that either directly or indirectly

- i. controls or
- ii. is controlled by or
- iii. is under common control with

a Bidding Company (in the case of a single company) or a Member (in the case of a Consortium) and **“control”** means ownership by one entity of at least twenty six percent (26%) of the voting rights of the other entity;

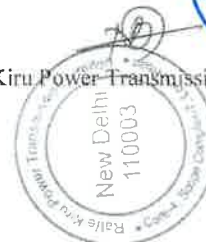
**“Availability”** in relation to the Project or in relation to any Element of the Project, for a given period shall mean the time in hours during that period the Project is capable to transmit electricity at its Rated Voltage and shall be expressed in percentage of total hours in the given period and shall be calculated as per the procedure contained in Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, attached herewith in Schedule 6;

**“Bid”** shall mean technical bid and financial bid submitted by the Bidder in response to the RFP, in accordance with the terms and conditions of the RFP;

  
Central Transmission Utility of India Limited

5

  
Ratle Kiru Power Transmission Limited



**“Bid Deadline”** shall mean the last date and time for submission of the Bid in response to RFP, as specified in the RFP;

**“Bidding Company”** shall refer to such single company that has made a Response to RFP for the Project;

**“Bidding Consortium / Consortium”** shall refer to a group of companies that has collectively made a Response to RFP for the Project;

**“Bid Documents”** or **“Bidding Documents”** shall mean the RFP, along with all attachments thereto or clarifications thereof;

**“Bidding Guidelines”** shall mean the “Tariff Based Competitive Bidding Guidelines for Transmission Service” and “Guidelines for Encouraging Competition in Development of Transmission Projects” issued by Government of India, Ministry of Power under Section – 63 of the Electricity Act as amended from time to time;

**“Bid Process Coordinator”** or **“BPC”** shall mean a person or its authorized representative as notified by the Government of India, responsible for carrying out the process for selection of Bidder who will acquire Transmission Service Provider;

**“Bill”** shall mean any bill raised by the CTU on the DICs to recover the Transmission Charges pursuant to the Sharing Regulations;

**“Business Day”** shall mean a day other than Sunday or a statutory holiday, on which the banks remain open for business in the State in which the Nodal Agency’s registered office is located and the concerned TSP are located;

**“CEA”** shall mean the Central Electricity Authority constituted under Section -70 of the Electricity Act;

**“Change in law”** shall have the meaning ascribed thereto in Article 12;

**“Commercial Operation Date”** or **“COD”** shall mean the date as per Article 6.2;

**“Commission”** or **“CERC”** shall mean the Central Electricity Regulatory Commission referred to in sub-section (1) of Section 76 of the Electricity Act, 2003 or its successors and assigns;

**“Competent Court of Law”** shall mean the Supreme Court or any High Court, or any tribunal or any similar judicial or quasi-judicial body in India that has jurisdiction to adjudicate upon issues relating to the Project;



## Transmission Service Agreement

**“Connection Agreement”** shall mean the agreement between the CTU or STU or any other concerned parties and the TSP, setting out the terms relating to the connection of the Project to the Inter-connection Facilities and use of the Inter State Transmission System as per the provisions of the IEGC, as the case may be;

**“Consultation Period”** shall mean the period of sixty (60) days or such longer period as the Parties may agree, commencing from the date of issue of a TSP's Preliminary Notice or a Nodal Agency's Preliminary Termination Notice, as provided in Article 13 of this Agreement, for consultation between the Parties to mitigate the consequence of the relevant event having regard to all the circumstances;

**“Consents, Clearances and Permits”** shall mean all authorizations, licenses, approvals, registrations, permits, waivers, privileges, acknowledgements, agreements, or concessions required to be obtained from or provided by any concerned authority for the development, execution and operation of Project including without any limitation for the construction, ownership, operation and maintenance of the Transmission Lines and/or sub-stations;

**“Construction Period”** shall mean the period from (and including) the Effective Date of the Transmission Service Agreement up to (but not including) the COD of the Element of the Project in relation to an Element and up to (but not including) the COD of the Project in relation to the Project;

**“Contractors”** shall mean the engineering, procurement, construction, operation & maintenance contractors, surveyors, advisors, consultants, designers, suppliers to the TSP and each of their respective sub-contractors (and each of their respective successors and permitted assigns) in their respective capacities as such;

**“Contract Performance Guarantee”** shall mean the irrevocable unconditional bank guarantee, submitted and to be submitted by the TSP or by the Selected Bidder on behalf of the TSP to the Nodal Agency from a bank mentioned in Annexure 17 of the RFP, in the form attached here to as Schedule 8, in accordance with Article 3 of this Agreement and which shall include the additional bank guarantee furnished by the TSP under this Agreement;

**“Contract Year”**, for the purpose of payment of Transmission Charges, shall mean the period beginning on the COD, and ending on the immediately succeeding March 31 and thereafter each period of 12



months beginning on April 1 and ending on March 31 provided that the last Contract Year shall end on the last day of the term of the TSA;

“**CTU**” or “**Central Transmission Utility**” shall have same meaning as defined in the Electricity Act, 2003;

“**Day**” shall mean a day starting at 0000 hours and ending at 2400 hours;

“**D/C**” shall mean Double Circuit;

“**Designated ISTS Customers**” or “**DICs**” shall have the meaning as ascribed in the Sharing Regulations;

“**Dispute**” shall mean any dispute or difference of any kind between the Parties, in connection with or arising out of this Agreement including any issue on the interpretation and scope of the terms of this Agreement as provided in Article 16;

“**Effective Date**” for the purposes of this Agreement, shall have the same meaning as per Article 2.1 of this Agreement;

“**Electrical Inspector**” shall mean a person appointed as such by the Government under sub-section (1) of Section 162 of the Electricity Act 2003 and also includes Chief Electrical Inspector;

“**Electricity Rules 2005**” shall mean the rules framed pursuant to the Electricity Act 2003 and as amended from time to time;

“**Element**” shall mean each Transmission Line or each circuit of the Transmission Lines (where there are more than one circuit) or each bay of Sub-station or switching station or HVDC terminal or inverter station of the Project, including ICTs, Reactors, SVC, FSC, etc. forming part of the ISTS, which will be owned, operated and maintained by the concerned ISTS Licensee, and which has a separate Scheduled COD as per Schedule 2 of this Agreement and has a separate percentage for recovery of Transmission Charges on achieving COD as per Schedule 5 of this Agreement;

“**Event of Default**” shall mean the events as defined in Article 13 of this Agreement;

“**Expiry Date**” shall be the date which is thirty five (35) years from the COD of the Project;

“**Financial Closure**” shall mean the first Business Day on which funds are made available to the TSP pursuant to the Financing Agreements;





**“Financially Evaluated Entity”** shall mean the company which has been evaluated for the satisfaction of the financial requirement set forth in the RFP;

**“Financing Agreements”** shall mean the agreements pursuant to which the TSP is to finance the Project including the loan agreements, security documents, notes, indentures, security agreements, letters of credit and other documents, as may be amended, modified, or replaced from time to time, but without in anyway increasing the liabilities of the Designated ISTS Customers / Nodal Agency;

**“Financial Year”** shall mean a period of twelve months at midnight Indian Standard Time (IST) between 1st April & 31st March;

**“Force Majeure”** and **“Force Majeure Event”** shall have the meaning assigned thereto in Article 11;

**“GOI”** shall mean Government of India;

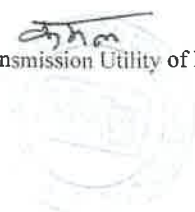
**“Grid Code” / “IEGC”** shall mean the Grid Code specified by the Central Commission under Clause (h) of sub-section (1) of Section 79 of the Electricity Act;

**“Independent Engineer”** shall mean an agency/ company, appointed by Nodal Agency in accordance with the Guidelines for Encouraging Competition in Development of Transmission Projects.

**“Indian Governmental Instrumentality”** shall mean Government of India, Government of any State in India or any ministry, department, board, authority, agency, corporation, commission under the direct or indirect control of Government of India or any State Government or both, any political sub-division of any of them including any court or Commission or tribunal or judicial or quasi-judicial body in India but excluding the CTU, TSP and the Designated ISTS Customers;

**“Insurances”** shall mean the insurance cover to be obtained and maintained by the TSP in accordance with Article 9 of this Agreement;

**“Interconnection Facilities”** shall mean the facilities as may be set up for transmission of electricity through the use of the Project, on either one or both side of generating station's / CTU's / STU's / ISTS Licensee's / Designated ISTS Customer's substations (as the case may be) which shall include, without limitation, all other transmission lines, gantries, substations and associated equipment not forming part of the Project;



**“ISTS Licensee”** shall be the TSP under this Agreement, consequent to having been awarded a Transmission License by the CERC and shall be referred to as the TSP or the ISTS Licensee, as the context may require in this Agreement;

**“Law” or “Laws”** in relation to this Agreement, shall mean all laws including electricity laws in force in India and any statute, ordinance, rule, regulation, notification, order or code, or any interpretation of any of them by an Indian Governmental Instrumentality having force of law and shall include all rules, regulations, decisions and orders of the Commission;

**“Lead Member of the Bidding Consortium” or “Lead Member”** shall mean a company who commits at least 26% equity stake in the Project, meets the technical requirement as specified in the RFP and so designated by other Member(s) in Bidding Consortium;

**“Lenders”** means the banks, financial institutions, multilateral funding agencies, non-banking financial companies registered with the Reserve Bank of India (RBI), insurance companies registered with the Insurance Regulatory & Development Authority (IRDA), pension funds regulated by the Pension Fund Regulatory & Development Authority (PFRDA), mutual funds registered with Securities & Exchange Board of India (SEBI), etc., including their successors and assigns, who have agreed on or before COD of the Project to provide the TSP with the debt financing described in the capital structure schedule, and any successor banks or financial institutions to whom their interests under the Financing Agreements may be transferred or assigned;

Provided that, such assignment or transfer shall not relieve the TSP of its obligations to the Nodal Agency under this Agreement in any manner and shall also does not lead to an increase in the liability of the Nodal Agency;

**“Lenders Representative”** shall mean the person notified by the Lender(s) in writing as being the representative of the Lender(s) or the Security Trustee and such person may from time to time be replaced by the Lender(s) pursuant to the Financing Agreements by written notice to the TSP;

**“Letter of Intent” or “LOI”** shall have the same meaning as in the RFP;

**“Member in a Bidding Consortium / Member”** shall mean each company in the Bidding Consortium;

**“Month”** shall mean a period of thirty (30) days from (and excluding) the date of the event;

Central Transmission Utility of India Limited 10

Ratle Kiru Power Transmission Limited



**“Monthly Transmission Charges”** for any Element of the Project, after COD of the Element till COD of the Project, and for the Project after COD of the Project, shall mean the amount of Transmission Charges as specified in Schedule 5 of this Agreement multiplied by no. of days in the relevant month and divided by no. of days in the year;

**“National Load Despatch Centre”** shall mean the centre established as per sub-section (1) of Section 26 of the Electricity Act 2003;

**“Nodal Agency”** shall mean CTU, which shall execute and implement the Transmission Service Agreement (TSA);

Provided that while taking major decisions, CTU shall consult CEA on technical matters and any other matter it feels necessary.

**“Notification”** shall mean any notification, issued in the Gazette of India;

**“Operating Period”** for any Element of the Project shall mean the period from (and including) the COD of such Element of the Project, up to (and including) the Expiry Date and for the Project, shall mean the period from (and including) the COD of the Project, up to (and including) the Expiry Date;

**“Parent Company”** shall mean an entity that holds at least twenty six percent (26%) of the paid-up equity capital directly or indirectly in the Bidding Company or in the Member in a Bidding Consortium, as the case may be;

**“Preliminary Termination Notice”** shall mean a Nodal Agency's Preliminary Termination Notice as defined in Article 13 of this Agreement;

**“Project”** shall mean Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A, as detailed in Schedule 1 of this Agreement;

**“Project Assets”** shall mean all physical and other assets relating to and forming part of the Project including:

- (a) rights over the Site for substations, ROW for transmission lines;
- (b) tangible & intangible assets such as civil works and equipment including foundations, embankments, pavements, electrical systems, communication systems, relief centres, administrative offices, Sub-stations, software, tower and sub-stations designs etc;
- (c) project facilities situated on the Site;



## Transmission Service Agreement

- (d) all rights of the TSP under the project agreements;
- (e) financial assets, such as receivables, security deposits etc;
- (f) insurance proceeds; and
- (g) Applicable Permits and authorisations relating to or in respect of the Transmission System;”

“**Project Execution Plan**” shall mean the plan referred to in Article 3.1.3(c) hereof;

“**Prudent Utility Practices**” shall mean the practices, methods and standards that are generally accepted internationally from time to time by electric transmission utilities for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation, repair and maintenance of the Project and which practices, methods and standards shall be adjusted as necessary, to take account of:

- (i) operation, repair and maintenance guidelines given by the manufacturers to be incorporated in the Project,
- (ii) the requirements of Law, and
- (iii) the physical conditions at the Site;
- (iv) the safety of operating personnel and human beings;

“**Rated Voltage**” shall mean voltage at which the Transmission System is designed to operate or such lower voltage at which the line is charged, for the time being, in consultation with the Central Transmission Utility;

“**Rebate**” shall have the meaning as ascribed to in Article 10.3 of this Agreement;

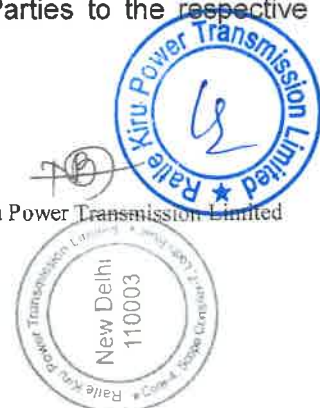
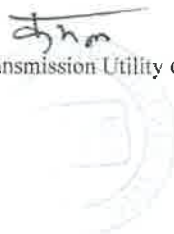
“**RFP**” shall mean Request for Proposal dated 25.09.2024 along with all schedules, annexures and RFP Project Documents attached thereto, issued by the BPC for tariff based competitive bidding process for selection of Bidder as TSP to execute the Project, including any modifications, amendments or alterations thereto;

“**RFP Project Documents**” shall mean the following documents to be entered into in respect of the Project, by the Parties to the respective agreements:

Central Transmission Utility of India Limited

12

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

- a. Transmission Service Agreement,
- b. Share Purchase Agreement,
- c. Agreement(s) required under Sharing Regulations and
- d. Any other agreement as may be required;

“**RLDC**” shall mean the relevant Regional Load Dispatch Centre as defined in the Electricity Act, 2003, in the region(s) in which the Project is located;

“**RPC**” shall mean the relevant Regional Power Committee established by the Government of India for the specific Region(s) in accordance with the Electricity Act, 2003 for facilitating integrated operation of the Power System in that Region;

“**Scheduled COD**” in relation to an Element(s) shall mean the date(s) as mentioned in Schedule 2 as against such Element(s) and in relation to the Project, shall mean the date as mentioned in Schedule 2 as against such Project, subject to the provisions of Article 4.4 of this Agreement, or such date as may be mutually agreed among the Parties;

“**Scheduled Outage**” shall mean the final outage plan as approved by the RPC as per the provisions of the Grid Code;

“**Selected Bid**” shall mean the technical Bid and the Final Offer of the Selected Bidder submitted during e-reverse bidding, which shall be downloaded and attached in Schedule 7 on or prior to the Effective Date;

“**Share Purchase Agreement**” shall mean the agreement amongst REC Power Development and Consultancy Limited, **Ratle Kiru Power Transmission Limited** and the Successful Bidder for the purchase of one hundred (100%) per cent of the shareholding of the **Ratle Kiru Power Transmission Limited** for the Acquisition Price, by the Successful Bidder on the terms and conditions as contained therein;

“**Sharing Regulations**” shall mean the Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 and as amended from time to time;

“**Site**” in relation to a substation, switching station or HVDC terminal or inverter station, shall mean the land and other places upon which such station / terminal is to be established;

  
Central Transmission Utility of India Limited

13

  
Ratle Kiru Power Transmission Limited





“**SLDC**” shall mean the State Load Despatch Centre established as per sub-section (1) of Section 31 of the Electricity Act 2003;

“**STU**” or “**State Transmission Utility**” shall be the Board or the Government company, specified as such by the State Government under sub-section (1) of Section 39 of the Electricity Act 2003;

“**Successful Bidder**” or “**Selected Bidder**” shall mean the Bidder selected pursuant to the RFP and who has to acquire one hundred percent (100%) equity shares of **Ratle Kiru Power Transmission Limited**, along with all its related assets and liabilities, which will be responsible as the TSP to establish the Project on build, own, operate and transfer basis as per the terms of the TSA and other RFP Project Documents;

“**TSP’s Preliminary Notice**” shall mean a notice issued by the TSP in pursuant to the provisions of Article 13.3 of this Agreement;

“**Target Availability**” shall have the meaning as ascribed hereto in Article 8.2 of this Agreement;

“**Technically Evaluated Entity**” shall mean the company which has been evaluated for the satisfaction of the technical requirement set forth in RFP;

“**Termination Notice**” shall mean a Nodal Agency’s Termination Notice given by the Nodal Agency to the TSP pursuant to the provisions of Articles 3.3.2, 3.3.4, 4.4.2, 5.8, 13.2 and 13.3 of this Agreement for the termination of this Agreement;

“**Term of Agreement**” for the purposes of this Agreement shall have the meaning ascribed thereto in Article 2.2 of this Agreement;

“**Transmission Charges**” shall mean the Final Offer of the Selected Bidder during the e-reverse bidding and adopted by the Commission, payable to the TSP as per Sharing Regulations;

“**Transmission License**” shall mean the license granted by the Commission in terms of the relevant regulations for grant of such license issued under the Electricity Act;

“**Transmission Service**” shall mean making the Project available as per the terms and conditions of this Agreement and Sharing Regulations;

“**Unscheduled Outage**” shall mean an interruption resulting in reduction of the Availability of the Element(s) / Project (as the case may be) that is not a result of a Scheduled Outage or a Force Majeure Event.





**"Ultimate Parent Company"** shall mean an entity which owns at least twenty six percent (26%) equity in the Bidding Company or Member of a Consortium, (as the case may be) and in the Technically Evaluated Entity and / or Financially Evaluated Entity (as the case may be) and such Bidding Company or Member of a Consortium, (as the case may be) and the Technically Evaluated Entity and / or Financially Evaluated Entity (as the case may be) shall be under the direct control or indirectly under the common control of such entity;

## 1.2 Interpretation:

**Save where the contrary is indicated, any reference in this Agreement to:**

**"Agreement"** shall be construed as including a reference to its Schedules, Appendices and Annexures;

**"Rupee", "Rupees" and "Rs."** shall denote lawful currency of India;

**"crore"** shall mean a reference to ten million (10,000,000) and a **"lakh"** shall mean a reference to one tenth of a million (1,00,000);

**"encumbrance"** shall be construed as a reference to a mortgage, charge, pledge, lien or other encumbrance securing any obligation of any person or any other type of preferential arrangement (including, without limitation, title transfer and retention arrangements) having a similar effect;

**"holding company"** of a company or corporation shall be construed as a reference to any company or corporation of which the other company or corporation is a subsidiary;

**"indebtedness"** shall be construed so as to include any obligation (whether incurred as principal or surety) for the payment or repayment of money, whether present or future, actual or contingent;

**"person"** shall have the meaning as defined in Section 2 (49) of the Act;

**"subsidiary"** of a company or corporation (the holding company) shall be construed as a reference to any company or corporation:

- (i) which is controlled, directly or indirectly, by the holding company, or
- (ii) more than half of the issued share capital of which is beneficially owned, directly or indirectly, by the holding company, or
- (iii) which is a subsidiary of another subsidiary of the holding company,



## Transmission Service Agreement

for these purposes, a company or corporation shall be treated as being controlled by another if that other company or corporation is able to direct its affairs and/or to control the composition of its board of directors or equivalent body;

**"winding-up", "dissolution", "insolvency", or "reorganization"** in the context of a company or corporation shall have the same meaning as defined in the Companies Act, 1956/ Companies Act, 2013 (as the case may be).

- 1.2.1 Words importing the singular shall include the plural and vice versa.
- 1.2.2 This Agreement itself or any other agreement or document shall be construed as a reference to this or to such other agreement or document as it may have been, or may from time to time be, amended, varied, novated, replaced or supplemented.
- 1.2.3 A Law shall be construed as a reference to such Law including its amendments or re-enactments from time to time.
- 1.2.4 A time of day shall, save as otherwise provided in any agreement or document be construed as a reference to Indian Standard Time.
- 1.2.5 Different parts of this Agreement are to be taken as mutually explanatory and supplementary to each other and if there is any inconsistency between or among the parts of this Agreement, they shall be interpreted in a harmonious manner so as to give effect to each part.
- 1.2.6 The tables of contents and any headings or sub-headings in this Agreement have been inserted for ease of reference only and shall not affect the interpretation of this Agreement.
- 1.2.7 All interest payable under this Agreement shall accrue from day to day and be calculated on the basis of a year of three hundred and sixty five (365) days.
- 1.2.8 The words "hereof" or "herein", if and when used in this Agreement shall mean a reference to this Agreement.
- 1.2.9 The contents of Schedule 7 shall be referred to for ascertaining accuracy and correctness of the representations made by the Selected Bidder in Article 17.2.1 hereof.

  
Central Transmission Utility of India Limited

16

  
Ratle Kiru Power Transmission Limited



**ARTICLE: 2****2 EFFECTIVENESS AND TERM OF AGREEMENT****2.1 Effective Date:**

This Agreement shall be effective from later of the dates of the following events:

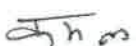
- a. The Selected Bidder, on behalf of the TSP, has provided the Contract Performance Guarantee, as per terms of Article 3.1 of this Agreement; and
- b. The Selected Bidder has acquired for the Acquisition Price, one hundred percent (100%) of the equity shareholding of REC Power Development and Consultancy Limited in **Ratle Kiru Power Transmission Limited** along with all its related assets and liabilities as per the provisions of the Share Purchase Agreement. and
- c. The Agreement is executed and delivered by the Parties;

**2.2 Term and Termination:**

- 2.2.1 Subject to Article 2.2.3 and Article 2.4, this Agreement shall continue to be effective in relation to the Project until the Expiry Date, when it shall automatically terminate.
- 2.2.2 Post the Expiry Date of this Agreement, the TSP shall ensure transfer of Project Assets to CTU or its successors or an agency as decided by the Central Government at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days of expiry of this Agreement failing which CTU shall be entitled to take over the Project Assets Suo moto.
- 2.2.3 This Agreement shall terminate before the Expiry Date in accordance with Article 13 or Article 3.3.2 or Article 3.3.4.

**2.3 Conditions prior to the expiry of the Transmission License**

- 2.3.1 In order to continue the Project beyond the expiry of the Transmission License, the TSP shall be obligated to make an application to the Commission at least two (2) years before the date of expiry of the Transmission License, seeking the Commission's approval for the extension of the term of the Transmission License up to the Expiry Date.

  
Central Transmission Utility of India Limited

17

  
Ratle Kiru Power Transmission Limited



2.3.2 The TSP shall timely comply with all the requirements that may be laid down by the Commission for extension of the term of the Transmission License beyond the initial term of twenty-five (25) years & upto the Expiry Date and the TSP shall keep the Nodal Agency fully informed about the progress on its application for extension of the term of the Transmission License.

#### 2.4 Survival:

The expiry or termination of this Agreement shall not affect any accrued rights, obligations/ roles and liabilities of the Parties under this Agreement, including the right to receive liquidated damages as per the terms of this Agreement, nor shall it effect the survival of any continuing obligations/ roles for which this Agreement provides, either expressly or by necessary implication, which are to survive after the Expiry Date or termination including those under Articles 3.3.3, 3.3.5, Article 9.3 (Application of Insurance Proceeds), Article 11 (Force Majeure), Article 13 (Events of Default and Termination), Article 14 (Liability & Indemnification), Article 16 (Governing Law & Dispute Resolution), Article 19 (Miscellaneous).

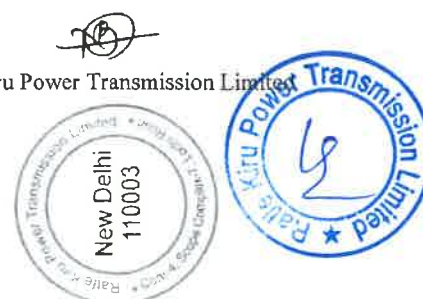
#### 2.5 Applicability of the provisions of this Agreement

2.5.1 For the purpose of Availability, Target Availability and the computation of Availability, Incentive, Penalty, the provisions provided in this Agreement shall apply and any future modifications in the relevant Rules and Regulations shall not be applicable for this Project.

2.5.2 For the purposes of this Agreement for ISTS systems developed under the tariff based competitive bidding framework, the provisions relating to the definitions (Availability and COD), Article 3 (Contract Performance Guarantee and Conditions Subsequent), Article 5 (Construction of the Project), Article 6 (Connection and Commissioning of the Project), Article 8 (Target Availability and calculation of Availability), Article 11 (Force Majeure), Article 12 (Change in Law), Article 13 (Event of Default), Article 14 (Indemnification), Article 15 (Assignment and Charges), Articles 16.1, 16.2 and 16.4 (Governing Laws and Dispute Resolution) and Article 17 (representation and warranties of the ISTS Licensee) of this agreement shall supersede the corresponding provisions under Sharing Regulations.

Central Transmission Utility of India Limited 18

Ratle Kiru Power Transmission Limited



**ARTICLE: 3****3 CONDITIONS SUBSEQUENT****3.1 Satisfaction of conditions subsequent by the TSP**

3.1.1 Within ten (10) days from the date of issue of Letter of Intent, the Selected Bidder, shall:

- a. Provide the Contract Performance Guarantee, and
- b. Acquire, for the Acquisition Price, one hundred percent (100%) equity shareholding of **Ratle Kiru Power Transmission Limited** from REC Power Development and Consultancy Limited, who shall sell to the Selected Bidder, the equity shareholding of **Ratle Kiru Power Transmission Limited**, along with all its related assets and liabilities.
- c. Execute this Agreement;

The TSP shall, within five (5) working days from the date of acquisition of SPV by the Selected Bidder, undertake to apply to the Commission for the grant of Transmission License and for the adoption of tariff as required under section-63 of the Electricity Act.

The Selected Bidder, on behalf of the TSP, will provide to the Central Transmission Utility of India Limited (being the Nodal Agency) the Contract Performance Guarantee for an amount of Rs. 18.40 Crore (Rupees Eighteen Crore Forty Lakh only).

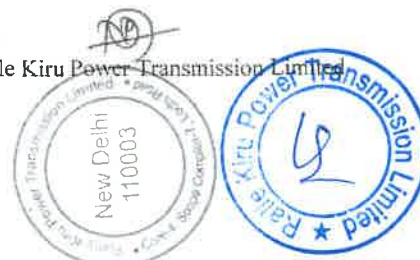
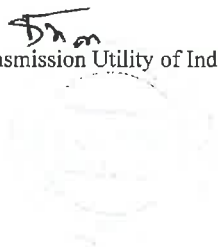
3.1.2 The Contract Performance Guarantee shall be initially valid for a period up to three (3) months after the Scheduled COD of the Project and shall be extended from time to time to be valid for a period up to three (3) months after the COD of the Project. In case the validity of the Contract Performance Guarantee is expiring before the validity specified in this Article, the TSP shall, at least thirty (30) days before the expiry of the Contract Performance Guarantee, replace the Contract Performance Guarantee with another Contract Performance Guarantee or extend the validity of the existing Contract Performance Guarantee until the validity period specified in this Article.

3.1.3 The TSP agrees and undertakes to duly perform and complete the following activities within six (6) months from the Effective Date (except for c) below), unless such completion is affected due to any Force Majeure Event, or if any of the activities is specifically waived in writing

Central Transmission Utility of India Limited

19

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

by the Nodal Agency:

- a. To obtain the Transmission License for the Project from the Commission;
- b. To obtain the order for adoption of Transmission Charges by the Commission, as required under Section 63 of the Electricity Act 2003;
- c. To submit to the Nodal Agency, CEA & Independent Engineer, the Project Execution Plan, immediately after award of contract(s) and maximum within one hundred and twenty (120) days from the Effective Date. Also, an approved copy each of Manufacturing Quality Plan (MQP) and Field Quality Plan (FQP) would be submitted to Independent Engineer & Nodal Agency in the same time period. The TSP's Project Execution Plan should be in conformity with the Scheduled COD as specified in Schedule 2 of this Agreement, and shall bring out clearly the organization structure, time plan and methodology for executing the Project, award of major contracts, designing, engineering, procurement, shipping, construction, testing and commissioning to commercial operation;
- d. To submit to the Nodal Agency, CEA & Independent Engineer a detailed bar (GANTT) chart of the Project outlining each activity (taking longer than one Month), linkages as well as durations;
- e. To submit to the Nodal Agency, CEA & Independent Engineer detailed specifications of conductor meeting the functional specifications specified in RFP;
- f. To achieve Financial Closure;
- g. To provide an irrevocable letter to the Lenders duly accepting and acknowledging the rights provided to the Lenders under the provisions of Article 15.3 of this Agreement and all other RFP Project Documents;
- h. To award the Engineering, Procurement and Construction contract ("EPC contract") for the design and construction of the Project and shall have given to such Contractor an irrevocable notice to proceed; and
- i. To sign the Agreement(s) required, if any, under Sharing Regulations.

Central Transmission Utility of India Limited 20

Ratle Kiru Power Transmission Limited





### 3.2 Recognition of Lenders' Rights by the Nodal Agency

3.2.1 The Nodal Agency hereby accepts and acknowledges the rights provided to the Lenders as per Article 15.3 of this Agreement and all other RFP Project Documents.

### 3.3 Consequences of non-fulfilment of conditions subsequent

3.3.1 If any of the conditions specified in Article 3.1.3 is not duly fulfilled by the TSP even within three (3) Months after the time specified therein, then on and from the expiry of such period and until the TSP has satisfied all the conditions specified in Article 3.1.3, the TSP shall, on a monthly basis, be liable to furnish to Central Transmission Utility of India Limited (being the Nodal Agency) additional Contract Performance Guarantee of Rupees One Crore Eighty Four Lakh Only (Rs. 1.84 Crore) within two (2) Business Days of expiry of every such Month. Such additional Contract Performance Guarantee shall be provided to Central Transmission Utility of India Limited (being the Nodal Agency) in the manner provided in Article 3.1.1 and shall become part of the Contract Performance Guarantee and all the provisions of this Agreement shall be construed accordingly. Central Transmission Utility of India Limited (being the Nodal Agency) shall be entitled to hold and / or invoke the Contract Performance Guarantee, including such additional Contract Performance Guarantee, in accordance with the provisions of this Agreement.

3.3.2 Subject to Article 3.3.4, if:

- (i) the fulfilment of any of the conditions specified in Article 3.1.3 is delayed beyond nine (9) Months from the Effective Date and the TSP fails to furnish additional Contract Performance Guarantee to the Nodal Agency in accordance with Article 3.3.1 hereof; or
- (ii) the TSP furnishes additional Performance Guarantee to the Nodal Agency in accordance with Article 3.3.1 hereof but fails to fulfil the conditions specified in Article 3.1.3 within a period of twelve (12) months from the Effective Date,

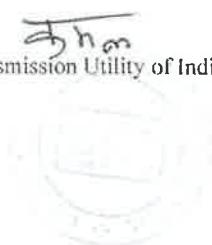
the Nodal Agency shall have the right to terminate this Agreement, by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.

3.3.3 If the Nodal Agency elects to terminate this Agreement as per the

Central Transmission Utility of India Limited

21

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

provisions of Article 3.3.2, the TSP shall be liable to pay to the Nodal Agency an amount of Rs. 18.40 Crore (Rupees Eighteen Crore Forty Lakh only) as liquidated damages. The Nodal Agency shall be entitled to recover this amount of damages by invoking the Contract Performance Guarantee to the extent of liquidated damages, which shall be required by the Nodal Agency, and the balance shall be returned to TSP, if any.

It is clarified for removal of doubt that this Article shall survive the termination of this Agreement.

- 3.3.4 In case of inability of the TSP to fulfil the conditions specified in Article 3.1.3 due to any Force Majeure Event, the time period for fulfilment of the condition subsequent as mentioned in Article 3.1.3, may be extended for a period of such Force Majeure Event. Alternatively, if deemed necessary, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement and the Contract Performance Guarantee shall be returned as per the provisions of Article 6.5.1.

Provided, that due to the provisions of this Article 3.3.4, any increase in the time period for completion of conditions subsequent mentioned under Article 3.1.3, shall lead to an equal increase in the time period for the Scheduled COD. If the Scheduled COD is extended beyond a period of one hundred eighty (180) days due to the provisions of this Article 3.3.4, the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9.

- 3.3.5 Upon termination of this Agreement as per Articles 3.3.2 and 3.3.4, the Nodal Agency may take steps to bid out the Project again.
- 3.3.6 The Nodal agency, on the failure of the TSP to fulfil its obligations, if it considers that there are sufficient grounds for so doing, apart from invoking the Contract Performance Guarantee under para 3.3.3 may also initiate proceedings for blacklisting the TSP as per provisions of Article 13.2 of TSA.

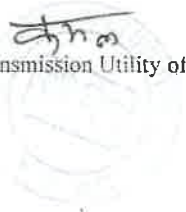
### 3.4 Progress Reports

The TSP shall notify the Nodal Agency and CEA in writing at least once a Month on the progress made in satisfying the conditions subsequent in Articles 3.1.3.

Central Transmission Utility of India Limited

22

Ratle Kiru Power Transmission Limited



**ARTICLE: 4****4 DEVELOPMENT OF THE PROJECT****4.1 TSP's obligations in development of the Project:**

Subject to the terms and conditions of this Agreement, the TSP at its own cost and expense shall observe, comply with, perform, undertake and be responsible:

- a. for procuring and maintaining in full force and effect all Consents, Clearances and Permits, required in accordance with Law for development of the Project;
- b. for financing, constructing, owning and commissioning each of the Element of the Project for the scope of work set out in Schedule 1 of this Agreement in accordance with:
  - i. the Electricity Act and the Rules made thereof;
  - ii. the Grid Code;
  - iii. the CEA Regulations applicable, and as amended from time to time, for Transmission Lines and sub-stations:
    - the Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007;
    - Central Electricity Authority (Technical Standards for construction of Electrical Plants and Electric Lines) Regulation, 2010;
    - Central Electricity Authority (Grid Standard) Regulations, 2010;
    - Central Electricity Authority (Safety requirements for construction, operation and maintenance of Electrical Plants and Electrical Lines) Regulation, 2011;
    - Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulation, 2010;
    - Central Electricity Authority (Technical Standards for Communication System in Power System Operation) Regulations, 2020.
  - iv. Safety/ security Guidelines laid down by the Government;

  
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23

  
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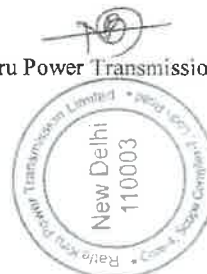
## Transmission Service Agreement

- v. Prudent Utility Practices, relevant Indian Standards and the Law;

not later than the Scheduled COD as per Schedule 2 of this Agreement;

- c. for entering into a Connection Agreement with the concerned parties in accordance with the Grid Code.
- d. for owning the Project throughout the term of this Agreement free and clear of any encumbrances except those expressly permitted under Article 15 of this Agreement;
- e. to co-ordinate and liaise with concerned agencies and provide on a timely basis relevant information with regard to the specifications of the Project that may be required for interconnecting the Project with the Interconnection Facilities;
- f. for providing all assistance to the Arbitrators as they may require for the performance of their duties and responsibilities;
- g. to provide to the Nodal Agency and CEA, on a monthly basis, progress reports with regard to the Project and its execution (in accordance with prescribed form) to enable the CEA to monitor and co-ordinate the development of the Project matching with the Interconnection Facilities;
- h. to comply with Ministry of Power order no. 25-11/6/2018 – PG dated 02.07.2020 as well as other Guidelines issued by Govt. of India pertaining to this;
- i. to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide orders No. 11/5/2018 - Coord. dated 28.07.2020 for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard (Procuring Entity as defined in above orders shall deemed to have included Selected Bidder and/ or TSP).

Also, to comply with Department of Expenditure, Ministry of Finance vide Order (Public Procurement No 1) bearing File No. 6/18/2019-PPD dated 23.07.2020, Order (Public Procurement No 2) bearing File No. 6/18/2019-PPD dated 23.07.2020 and Order (Public Procurement No. 3) bearing File No. 6/18/2019-PPD, dated 24.07.2020, as amended from time



## Transmission Service Agreement

to time, regarding public procurement from a bidder of a country, which shares land border with India;

- j. to submit to Nodal Agency information in the prescribed format [To be devised by Nodal Agency] for ensuring compliance to Article 4.1 i) above.
- k. to comply with all its obligations undertaken in this Agreement.

#### 4.2 Roles of the Nodal Agency in implementation of the Project:

4.2.1 Subject to the terms and conditions of this Agreement, the Nodal Agency shall be the holder and administrator of this Agreement and shall inter alia:

- a. appoint an Independent Engineer within 90 days of the Effective Date
- b. provide letters of recommendation to the concerned Indian Governmental Instrumentality, as may be requested by the TSP from time to time, for obtaining the Consents, Clearances and Permits required for the Project;
- c. coordinate among TSP and upstream/downstream entities in respect of Interconnection Facilities; and
- d. monitor the implementation of the Agreement and take appropriate action for breach thereof including revocation of guarantees, cancellation of Agreement, blacklisting etc
- e. provide all assistance to the Arbitrators as required for the performance of their duties and responsibilities; and
- f. perform any other responsibility (ies) as specified in this Agreement.

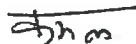
#### 4.3 Time for Commencement and Completion:

- a. The TSP shall take all necessary steps to commence work on the Project from the Effective Date of the Agreement and shall achieve Scheduled COD of the Project in accordance with the time schedule specified in Schedule 2 of this Agreement;
- b. The COD of each Element of the Project shall occur no later than the Scheduled COD or within such extended time to which the TSP shall be entitled under Article 4.4 hereto.

Central Transmission Utility of India Limited

25

Ratle Kiru Power Transmission Limited







## Transmission Service Agreement

**4.4 Extension of time:**

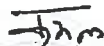
- 4.4.1 In the event that the TSP is unable to perform its obligations for the reasons solely attributable to the Nodal Agency, the Scheduled COD shall be extended, by a 'day to day' basis, subject to the provisions of Article 13.
- 4.4.2 In the event that an Element or the Project cannot be commissioned by its Scheduled COD on account of any Force Majeure Event as per Article 11, the Scheduled COD shall be extended, by a 'day to day' basis for a period of such Force Majeure Event. Alternatively, if deemed necessary, the Nodal Agency may terminate the Agreement as per the provisions of Article 13.4 by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.
- 4.4.3 If the Parties have not agreed, within thirty (30) days after the affected Party's performance has ceased to be affected by the relevant circumstance, on how long the Scheduled COD should be deferred by, any Party may raise the Dispute to be resolved in accordance with Article 16.

**4.5 Metering Arrangements:**

- 4.5.1 The TSP shall comply with all the provisions of the IEGC and the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 as amended from time to time, with regard to the metering arrangements for the Project. The TSP shall fully cooperate with the CTU / STU / RLDC and extend all necessary assistance in taking meter readings.

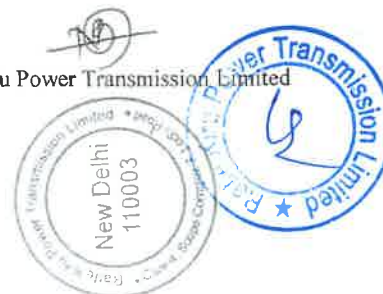
**4.6 Interconnection Facilities:**

- 4.6.1 Subject to the terms and conditions of this Agreement, the TSP shall be responsible for connecting the Project with the interconnection point(s) specified in Schedule 1 of this Agreement. The Interconnection Facilities shall be developed as per the scope of work and responsibilities assigned in Schedule 1 of this Agreement. The Nodal Agency shall be responsible for coordinating to make available the Interconnection Facilities.
- 4.6.2 In order to remove any doubts, it is made clear that the obligation of the TSP within the scope of the project is to construct the Project as per Schedule-1 of this Agreement and in particular to connect it to the Interconnection Facilities as specified in this Agreement.

  
Central Transmission Utility of India Limited

26

  
Ratle Kiru Power Transmission Limited





**ARTICLE: 5****5 CONSTRUCTION OF THE PROJECT****5.1 TSP's Construction Responsibilities:**

- 5.1.1 The TSP, at its own cost and expense, shall be responsible for designing, constructing, erecting, testing and commissioning each Element of the Project by the Scheduled COD in accordance with the Regulations and other applicable Laws specified in Article 4.1 of this Agreement.
- 5.1.2 The TSP acknowledges and agrees that it shall not be relieved from any of its obligations under this Agreement or be entitled to any extension of time or any compensation whatsoever by reason of the unsuitability of the Site or Transmission Line route(s).
- 5.1.3 The TSP shall be responsible for obtaining all Consents, Clearances and Permits related but not limited to road / rail / river / canal / power line / crossings, Power and Telecom Coordination Committee (PTCC), defence, civil aviation, right of way / way-leaves and environmental & forest clearances from relevant authorities required for developing, financing, constructing, maintaining/ renewing all such Consents, Clearances and Permits in order to carry out its obligations under this Agreement in general and shall furnish to the Nodal Agency such copy/ies of each Consents, Clearances and Permits, on demand. Nodal Agency shall provide letters of recommendation to the concerned Indian Governmental Instrumentality, as may be requested by the TSP from time to time for obtaining the Consents, Clearances and Permits required for the Project.
- 5.1.4 The TSP shall be responsible for:
- (a) **deleted;**
  - (b) **deleted;**
  - (c) survey and geo-technical investigation of line route in order to determine the final route of the Transmission Lines;
  - (d) seeking access to the Site and other places where the Project is being executed, at its own risk and costs, including payment of any crop, tree compensation or any other compensation as may be required.



## Transmission Service Agreement

5.1.5 In case the Project involves any resettlement and rehabilitation, the resettlement and rehabilitation package will be implemented by the State Government authorities, for which the costs is to be borne by the TSP and no changes would be allowed in the Transmission Charges on account of any variation in the resettlement and rehabilitation cost. The TSP shall provide assistance on best endeavour basis, in implementation of the resettlement and rehabilitation package, if execution of such package is in the interest of expeditious implementation of the Project and is beneficial to the Project affected persons.

**5.2 Appointing Contractors:**

5.2.1 The TSP shall conform to the requirements as provided in this Agreement while appointing Contractor(s) for procurement of goods & services.

5.2.2 The appointment of such Contractor(s) shall neither relieve the TSP of any of its obligations under this Agreement nor make the Nodal Agency liable for the performance of such Contractor(s).

**5.3 Monthly Progress Reporting:**

The TSP shall provide to the CEA, Nodal Agency & Independent Engineer, on a monthly basis, progress reports along with likely completion date of each Element with regard to the Project and its execution (in accordance with prescribed form). The Nodal Agency/ CEA shall monitor the development of the Project for its timely completion for improving and augmenting the electricity system as a part of its statutory responsibility.

**5.4 Quality of Workmanship:**

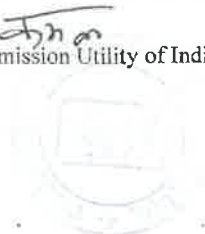
The TSP shall ensure that the Project is designed, built and completed in a good workmanship using sound engineering and construction practices, and using only materials and equipment that are new and manufactured as per the MQP and following approved FQP for erection, testing & commissioning and complying with Indian /International Standards such that, the useful life of the Project will be at least thirty five (35) years from the COD of the Project.

The TSP shall ensure that all major substation equipment / component (e.g. transformers, reactors, Circuit Breakers, Instrument Transformers (IT), Surge Arresters (SA), Protection relays, clamps & connectors etc.), equipment in terminal stations of HVDC installations including Thyristor/ IGBT valves, Converter Transformers, smoothing reactors, Transformer

bushings and wall bushings, GIS bus ducts, towers and gantry structures and transmission towers or poles and line materials (conductors, earthwire, OPGW, insulator, accessories for conductors, OPGW & earthwires, hardware fittings for insulators, aviation lights etc), facilities and system shall be designed, constructed and tested (Type test, Routine tests, Factory Acceptance Test (FAT)) in accordance with relevant CEA Regulations and Indian Standards. In case Indian Standards for any particular equipment/ system/ process is not available, IEC/ IEEE or equivalent International Standards and Codes shall be followed.

## 5.5 Progress Monitoring & Quality Assurance:

- 5.5.1 The Project Execution Plan submitted by the TSP in accordance with Article 3.1.3 c) shall comprise of detailed schedule of all the equipments/items /materials required for the Project, right from procurement of raw material till the dispatch from works and receipt at the site. Further, it should also include various stages of the construction schedule up to the commissioning of the Project.
- 5.5.2 Nodal Agency, CEA & Independent Engineer shall have access at all reasonable times to the Site and to the Manufacturer's works and to all such places where the Project is being executed.
- 5.5.3 Independent Engineer shall ensure conformity of the conductor specifications with the functional specifications specified in RFP.
- 5.5.4 The Independent Engineer shall monitor the following during construction of the Project:
- Quality of equipments, material, foundation, structures and workmanship etc. as laid down in Article 5.4 and 6.1.4 of the TSA. Specifically, quality of Sub-station equipments, transmission line material and workmanship etc. would be checked in accordance with the Article 5.4.
  - Progress in the activities specified in Condition Subsequent
  - Verification of readiness of the elements including the statutory clearances & completion of civil works, fixing of all components and finalisation of punch points (if any) prior to charging of the elements
  - Progress of construction of substation and Transmission Lines
- 5.5.5 The progress shall be reviewed by the Independent Engineer against the Project Execution Plan. The Independent Engineer shall prepare its report on monthly basis and submit the same to Nodal Agency highlighting the progress achieved till the end of respective month vis-à-vis milestone



## Transmission Service Agreement

activities, areas of concern, if any, which may result in delay in the timely completion of the Project. Based on the progress, Nodal Agency and/ or CEA shall issue written instructions to the TSP to take corrective measures, as may be prudent for the timely completion of the Project. In case of any deficiency, the Nodal Agency would be at liberty to take action in accordance with the procedure of this Agreement.

- 5.5.6 For any delay in commissioning any critical Element(s), as identified in Schedule 1 & Schedule 2 of this Agreement, beyond a period of 45 days shall lead to a sequestration of 10% of the Contract Performance Guarantee.

**5.6 Site regulations and Construction Documents**

The TSP shall abide by the Safety Rules and Procedures as mentioned in Schedule 3 of this Agreement

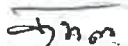
The TSP shall retain at the Site and make available for inspection at all reasonable times, copies of the Consents, Clearances and Permits, construction drawings and other documents related to construction.

**5.7 Supervision of work:**

The TSP shall provide all necessary superintendence for execution of the Project and its supervisory personnel shall be available to provide full-time superintendence for execution of the Project. The TSP shall provide skilled personnel who are experienced in their respective fields.

**5.8 Remedial Measures:**

The TSP shall take all necessary actions for remedying the shortfall in achievement of timely progress in execution of the Project, if any, as intimated by the Independent Engineer and/ or CEA and/ or the Nodal Agency. However, such intimation by the Independent Engineer and/ or CEA and/ or the Nodal Agency and the subsequent effect of such remedial measures carried out by the TSP shall not relieve the TSP of its obligations in the Agreement. Independent Engineer and/ or CEA and/ or the Nodal Agency may carry out random inspections during the Project execution, as and when deemed necessary by it. If the shortfalls as intimated to the TSP are not remedied to the satisfaction of the CEA and/ or the Nodal Agency, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.

  
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**ARTICLE: 6****6 CONNECTION AND COMMISSIONING OF THE PROJECT****6.1 Connection with the Inter-Connection Facilities:**

- 6.1.1 The TSP shall give the RLDC(s), CTU, / STU, as the case may be, and any other agencies as required, at least sixty (60) days advance written notice of the date on which it intends to connect an Element of the Project, which date shall not be earlier than its Scheduled COD or Schedule COD extended as per Article 4.4.1 & 4.4.2 of this Agreement, unless mutually agreed to by Parties. Further, any preponing of COD of any element prior to Scheduled COD must be approved by the Nodal Agency.
- 6.1.2 The RLDC / SLDC (as the case may be) or the CTU / STU (as the case may be), for reasonable cause, including non-availability of Interconnection Facilities as per Article 4.2, can defer the connection for up to fifteen (15) days from the date notified by the TSP pursuant to Article 6.1.1, if it notifies to the TSP in writing, before the date of connection, of the reason for the deferral and when the connection is to be rescheduled. However, no such deferment on one or more occasions would be for more than an aggregate period of thirty (30) days. Further, the Scheduled COD would be extended as required, for all such deferments on "day to day" basis.
- 6.1.3 Subject to Articles 6.1.1 and 6.1.2, any Element of Project may be connected with the Interconnection Facilities when:
- a. it has been completed in accordance with this Agreement and the Connection Agreement;
  - b. it meets the Grid Code, Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007 as amended from time to time and all other Indian legal requirements, and
  - c. The TSP has obtained the approval in writing of the Electrical Inspector certifying that the Element is ready from the point of view of safety of supply and can be connected with the Interconnection Facilities.
  - d. It has satisfactorily met all the testing requirements as per Articles 6.1.4



- 6.1.4 Site Acceptance Test (SAT)/ pre-commissioning tests of all major substation equipment, component, system, facilities shall be successfully carried out before commissioning. The Type tests, FAT and SAT reports should be available at the substation / terminal station of HVDC installations for ready reference of operation and maintenance staff and has to be made available to the Independent Engineer appointed for quality monitoring or their authorised representatives, as and when they wish to examine the same.

## 6.2 Commercial Operation:

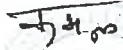
- 6.2.1 An Element of the Project shall be declared to have achieved COD twenty four (24) hours following the connection of the Element with the Interconnection Facilities pursuant to Article 6.1 or seven (7) days after the date on which it is declared by the TSP to be ready for charging but is not able to be charged for reasons not attributable to the TSP subject to Article 6.1.2.

Provided that an Element shall be declared to have achieved COD only after all the Element(s), if any, which are pre-required to have achieved COD as defined in Schedule 2 of this Agreement, have been declared to have achieved their respective COD.

- 6.2.2 Once any Element of the Project has been declared to have achieved deemed COD as per Article 6.2.1 above, such Element of the Project shall be deemed to have Availability equal to the Target Availability till the actual charging of the Element and to this extent, TSP shall be eligible for the Monthly Transmission Charges applicable for such Element

## 6.3 Compensation for Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event (affecting the Nodal Agency)

- 6.3.1 If the TSP is otherwise ready to connect the Element(s) of the Project and has given due notice, as per provisions of Article 6.1.1, to the concerned agencies of the date of intention to connect the Element(s) of the Project, where such date is not before the Scheduled COD, but is not able to connect the Element(s) of the Project by the said date specified in the notice, due to Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, provided such Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency has continued for a

  
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## Transmission Service Agreement

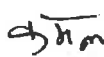
period of more than three (3) continuous or non-continuous Months, the TSP shall, until the effects of the Direct Non Natural Force Majeure Event or of Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency no longer prevent the TSP from connecting the Element(s) of the Project, be deemed to have achieved COD relevant to that date and to this extent, be deemed to have been providing Transmission Service with effect from the date notified, and shall be treated as follows:

- a. In case of delay due to Direct Non Natural Force Majeure Event, TSP is entitled for Transmission Charges calculated on Target Availability for the period of such events in excess of three (3) continuous or non continuous Months in the manner provided in (c) below.
- b. In case of delay due to Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, TSP is entitled for payment for debt service which is due under the Financing Agreements, subject to a maximum of Transmission Charges calculated on Target Availability, for the period of such events in excess of three (3) continuous or non continuous Months in the manner provided in (c) below.
- c. In case of delay due to Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, the TSP is entitled for payments mentioned in (a) and (b) above, after commencement of Transmission Service, in the form of an increase in Transmission Charges. These amounts shall be paid from the date, being the later of a) the date of cessation of such Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency and b) the completion of sixty (60) days from the receipt of the Financing Agreements by the Nodal Agency from the TSP.


Provided such increase in Transmission Charges shall be so as to put the TSP in the same economic position as the TSP would have been in case the TSP had been paid amounts mentioned in (a) and (b) above in a situation where the Force Majeure Event had not occurred.

For the avoidance of doubt, it is clarified that the charges payable under this Article 6.3.1 shall be recovered as per Sharing Regulations.

#### 6.4 Liquidated Damages for Delay in achieving COD of Project:

  
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33

  
Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

6.4.1 If the TSP fails to achieve COD of any Element of the Project or the Project, by the Element's / Project's Scheduled COD or such Scheduled COD as extended under Articles 4.4.1 and 4.4.3, then the TSP shall pay to the Nodal Agency, a sum equivalent to 3.33% of Monthly Transmission Charges applicable for the Element of the Project [in case where no Elements have been defined, to be on the Project as a whole] / Project, for each day of delay up to sixty (60) days of delay and beyond that time limit, at the rate of five percent (5%) of the Monthly Transmission Charges applicable to such Element / Project, as liquidated damages for such delay and not as penalty, without prejudice to any rights of the Nodal Agency under the Agreement.

6.4.2 The TSP's maximum liability under this Article 6.4 shall be limited to the amount of liquidated damages calculated in accordance with Article 6.4.1 for and up to six (6) months of delay for the Element or the Project.

Provided that, in case of failure of the TSP to achieve COD of the Element of the Project even after the expiry of six (6) months from its Scheduled COD, the provisions of Article 13 shall apply.

6.4.3 The TSP shall make payment to the Nodal Agency of the liquidated damages calculated pursuant to Article 6.4.1 within ten (10) days of the earlier of:

- a. the date on which the applicable Element achieves COD; or
- b. the date of termination of this Agreement.

The payment of such damages shall not relieve the TSP from its obligations to complete the Project or from any other obligation and liabilities under the Agreement.

6.4.4 If the TSP fails to pay the amount of liquidated damages to the Nodal Agency within the said period of ten (10) days, the Nodal Agency shall be entitled to recover the said amount of the liquidated damages by invoking the Contract Performance Guarantee. If the then existing Contract Performance Guarantee is for an amount which is less than the amount of the liquidated damages payable by the TSP to the Nodal Agency under this Article 6.3 and the TSP fails to make payment of the balance amount of the liquidated damages not covered by the Contract Performance Guarantee, then such balance amount shall be deducted from the Transmission Charges payable to the TSP. The right of the Nodal Agency to encash the Contract Performance Guarantee is without prejudice to the other rights of the Nodal Agency under this Agreement.




## Transmission Service Agreement

6.4.5 For avoidance of doubt, it is clarified that amount payable by TSP under this Article is over and above the penalty payable by TSP under Article 5.5.6 of this Agreement.

**6.5 Return of Contract Performance Guarantee**

6.5.1 The Contract Performance Guarantee as submitted by TSP in accordance with Article 3.1.1 shall be released by the Nodal Agency within three (3) months from the COD of the Project. In the event of delay in achieving Scheduled COD of any of the Elements by the TSP (otherwise than due to reasons as mentioned in Article 3.1.3 or Article 11) and consequent part invocation of the Contract Performance Guarantee by the Nodal Agency, Nodal Agency shall release the Contract Performance Guarantee, if any remaining unadjusted, after the satisfactory completion by the TSP of all the requirements regarding achieving the Scheduled COD of the remaining Elements of the Project. It is clarified that the Nodal Agency shall also return / release the Contract Performance Guarantee in the event of (i) applicability of Article 3.3.2 to the extent the Contract Performance Guarantee is valid for an amount in excess of Rs. 18.40 Crore (Rupees Eighteen Crore Forty Lakh only), or (ii) termination of this Agreement by the Nodal Agency as mentioned under Article 3.3.4 of this Agreement.

6.5.2 The release of the Contract Performance Guarantee shall be without prejudice to other rights of the Nodal Agency under this Agreement.

  
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35

  
Ratle Kiru Power Transmission Limited



**ARTICLE: 7**

**7 OPERATION AND MAINTENANCE OF THE PROJECT**

**7.1 Operation and Maintenance of the Project:**

The TSP shall be responsible for ensuring that the Project is operated and maintained in accordance with the regulations made by the Commission and CEA from time to time and provisions of the Act.

Central Transmission Utility of India Limited

36

Ratle Kiru Power Transmission Limited



**ARTICLE: 8****8 AVAILABILITY OF THE PROJECT****8.1 Calculation of Availability of the Project:**

Calculation of Availability for the Elements and for the Project, as the case may be, shall be as per Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, as applicable on the Bid Deadline and as appended in Schedule 6 of this Agreement.

**8.2 Target Availability:**

The Target Availability of each Element and the Project shall be 98%.

Payment of monthly Transmission charges based on actual availability will be calculated as per para 1.2 of Schedule 4 of this Agreement.

If the availability of any Element or the Project is below the Target Availability, for six consecutive months in a Contract Year, the DIC(s) or the Nodal Agency may issue a show cause notice to the TSP, asking them to show cause as to why the Transmission Service Agreement be not terminated, and if no satisfactory cause is shown it may terminate the Agreement. If the Nodal Agency is of the opinion that the transmission system is of critical importance, it may carry out or cause to carry the operation and maintenance of transmission system at the risk and cost of TSP.



Central Transmission Utility of India Limited

37

Ratle Kiru Power Transmission Limited



**ARTICLE: 9****9 INSURANCES****9.1 Insurance:**

9.1.1 The TSP shall effect and maintain or cause to be effected and maintained during the Construction Period and the Operating Period, adequate Insurances against such risks, with such deductibles including but not limited to any third party liability and endorsements and co-beneficiary/insured, as may be necessary under

- a. any of the Financing Agreements,
- b. the Laws, and
- c. in accordance with Prudent Utility Practices.

The Insurances shall be taken effective from a date prior to the date of the Financial Closure till the Expiry Date.

**9.2 Evidence of Insurance cover:**

9.2.1 The TSP shall furnish to the Nodal Agency copies of certificates and policies of the Insurances, as and when the Nodal Agency may seek from the TSP as per the terms of Article 9.1

**9.3 Application of Insurance Proceeds:**

9.3.1 Save as expressly provided in this Agreement, the policies of Insurances and the Financing Agreements, the proceeds of any insurance claim made due to loss or damage to the Project or any part of the Project shall be first applied to reinstatement, replacement or renewal of such loss or damage.

9.3.2 If a Natural Force Majeure Event renders the Project no longer economically and technically viable and the insurers under the Insurances make payment on a "total loss" or equivalent basis, the portion of the proceeds of such Insurance available to the TSP (after making admissible payments to the Lenders as per the Financing Agreements) shall be allocated only to the TSP. Nodal Agency and / or concerned Designated ISTS Customers shall have no claim on such proceeds of the Insurance.

9.3.3 Subject to the requirements of the Lenders under the Financing Agreements, any dispute or difference between the Parties as to whether the Project is no longer economically and technically viable due to a Force Majeure Event or whether that event was adequately covered in accordance with this Agreement by the Insurances shall be determined in accordance with Article 16.

**9.4 Effect on liability of the Nodal Agency / Designated ISTS Customers**

9.4.1 The Nodal Agency and / or the Designated ISTS Customers shall have no financial obligations or liability whatsoever towards the TSP in respect of this Article 9.





**ARTICLE: 10****10 BILLING AND PAYMENT OF TRANSMISSION CHARGES**

**10.1** Subject to provisions of this Article 10, the Monthly Transmission Charges shall be paid to the TSP, in Indian Rupees, on monthly basis as per the provisions of the Sharing Regulations, from the date on which an Element(s) has achieved COD until the Expiry Date of this Agreement, unless terminated earlier and in line with the provisions of Schedule 4 of this Agreement.

**10.2 Calculation of Monthly Transmission Charges:**

The Monthly Transmission Charges for each Contract Year including Incentive & Penalty payment shall be calculated in accordance with the provisions of Schedule 4 of this Agreement.

**10.3 Rebate & Late Payment Surcharge:**

The rebate and late payment surcharge shall be governed as per Sharing Regulations.

**10.4 Disputed Bills, Default in payment by the Designated ISTS Customers & Annual Reconciliation:**

Any Disputed Bill, Default in payment by the Designated ISTS Customers & Annual Reconciliation shall be governed as per Sharing Regulations.

  
Central Transmission Utility of India Limited

39

  
Ratle Kiru Power Transmission Limited



**ARTICLE: 11****11 FORCE MAJEURE****11.1 Definitions**

11.1.1 The following terms shall have the meanings given hereunder.

**11.2 Affected Party**

11.2.1 An Affected Party means any Party whose performance has been affected by an event of Force Majeure.

11.2.2 Any event of Force Majeure shall be deemed to be an event of Force Majeure affecting the TSP only if the Force Majeure event affects and results in, late delivery of machinery and equipment for the Project or construction, completion, commissioning of the Project by Scheduled COD and/or operation thereafter;

**11.3 Force Majeure**

A 'Force Majeure' means any event or circumstance or combination of events and circumstances including those stated below that wholly or partly prevents or unavoidably delays an Affected Party in the performance of its obligations/ roles under this Agreement, but only if and to the extent that such events or circumstances are not within the reasonable control, directly or indirectly, of the Affected Party and could not have been avoided if the Affected Party had taken reasonable care or complied with Prudent Utility Practices:

**(a) Natural Force Majeure Events:**

- i. act of God, including, but not limited to drought, fire and explosion (to the extent originating from a source external to the Site), earthquake, volcanic eruption, landslide, flood, cyclone, typhoon, tornado, or exceptionally adverse weather conditions, which are in excess of the statistical measures for the last hundred (100) years; and
- ii. epidemic/ pandemic notified by Indian Governmental Instrumentality.

**(b) Non-Natural Force Majeure Events :****i. Direct Non-Natural Force Majeure Events**

- Nationalization or compulsory acquisition by any Indian



## Transmission Service Agreement

Governmental Instrumentality of any material assets or rights of the Affected Party; or

- the unlawful, unreasonable or discriminatory revocation of, or refusal to renew, any Consents, Clearances and Permits required by the Affected Party to perform their obligations/ roles under the RFP Project Documents or any unlawful, unreasonable or discriminatory refusal to grant any other Consents, Clearances and Permits required for the development/ operation of the Project, provided that a Competent Court of Law declares the revocation or refusal to be unlawful, unreasonable and discriminatory and strikes the same down; or
- any other unlawful, unreasonable or discriminatory action on the part of an Indian Governmental Instrumentality which is directed against the Project, provided that a Competent Court of Law declares the action to be unlawful, unreasonable and discriminatory and strikes the same down.

ii. Indirect Non - Natural Force Majeure Events

- act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, blockade, embargo, revolution, riot, insurrection, terrorist or military action; or
- radio active contamination or ionising radiation originating from a source in India or resulting from any other Indirect Non Natural Force Majeure Event mentioned above, excluding circumstances where the source or cause of contamination or radiation is brought or has been brought into or near the Site by the Affected Party or those employed or engaged by the Affected Party; or
- industry-wide strikes and labour disturbances, having a nationwide impact in India.

#### 11.4 Force Majeure Exclusions

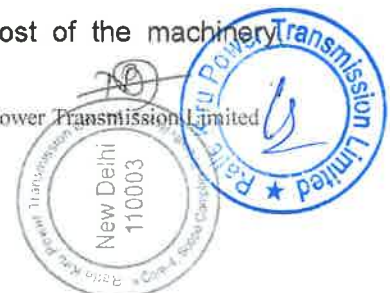
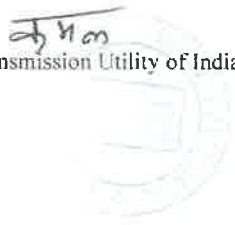
11.4.1 Force Majeure shall not include (i) any event or circumstance which is within the reasonable control of the Parties and (ii) the following conditions, except to the extent that they are consequences of an event of Force Majeure:

(a) Unavailability, late delivery, or changes in cost of the machinery

Central Transmission Utility of India Limited

41

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

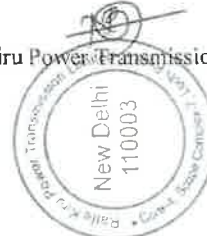
- equipment, materials, spare parts etc. for the Project;
- (b) Delay in the performance of any Contractors or their agents;
  - (c) Non-performance resulting from normal wear and tear typically experienced in transmission materials and equipment;
  - (d) Strikes or labour disturbance at the facilities of the Affected Party;
  - (e) Insufficiency of finances or funds or the Agreement becoming onerous to perform; and
  - (f) Non-performance caused by, or connected with, the Affected Party's:
    - i. negligent or intentional acts, errors or omissions;
    - ii. failure to comply with an Indian Law; or
    - iii. breach of, or default under this Agreement or any Project Documents.
  - (g) Any error or omission in the survey report provided by BPC during the bidding process.

**11.5 Notification of Force Majeure Event**

- 11.5.1 The Affected Party shall give notice to the other Party of any event of Force Majeure as soon as reasonably practicable, but not later than seven (7) days after the date on which such Party knew or should reasonably have known of the commencement of the event of Force Majeure. If an event of Force Majeure results in a breakdown of communications rendering it unreasonable to give notice within the applicable time limit specified herein, then the Party claiming Force Majeure shall give such notice as soon as reasonably practicable after reinstatement of communications, but not later than one (1) day after such reinstatement.

Provided that, such notice shall be a pre-condition to the Affected Party's entitlement to claim relief under this Agreement. Such notice shall include full particulars of the event of Force Majeure, its effects on the Party claiming relief and the remedial measures proposed. The Affected Party shall give the other Party regular reports on the progress of those remedial measures and such other information as the other Party may reasonably request about the Force Majeure.

- 11.5.2 The Affected Party shall give notice to the other Party of (i) the cessation of the relevant event of Force Majeure; and (ii) the cessation of the effects of such event of Force Majeure on the performance of its rights or obligations/ roles under this Agreement, as soon as practicable after becoming aware of each of these cessations.

**11.6 Duty to perform and duty to mitigate**

To the extent not prevented by a Force Majeure Event, the Affected Party shall continue to perform its obligations/ roles as provided in this Agreement. The Affected Party shall use its reasonable efforts to mitigate the effect of any event of Force Majeure as soon as practicable.

#### 11.7 Available Relief for a Force Majeure Event

Subject to this Article 11,

- (a) no Party shall be in breach of its obligations/ roles pursuant to this Agreement to the extent that the performance of its obligations/ roles was prevented, hindered or delayed due to a Force Majeure Event;
- (b) each Party shall be entitled to claim relief for a Force Majeure Event affecting its performance in relation to its obligations/ roles under Articles 3.3.4, 4.4.2 and 6.3.1 of this Agreement.
- (c) For the avoidance of doubt, it is clarified that the computation of Availability of the Element(s) under outage due to Force Majeure Event, as per Article 11.3 affecting the TSP shall be as per Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 as on Bid Deadline. For the event(s) for which the Element(s) is/are deemed to be available as per Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, then the Transmission Charges, as applicable to such Element(s), shall be payable as per Schedule 4, for the duration of such event(s).
- (d) For so long as the TSP is claiming relief due to any Force Majeure Event under this Agreement, the Nodal Agency may, if it so desires, from time to time on one (1) day notice, inspect the Project and the TSP shall provide the Nodal Agency's personnel with access to the Project to carry out such inspections.
- (e) For avoidance of doubt, the TSP acknowledges that for extension of Scheduled COD a period up to one hundred eighty (180) days due to Force Majeure event, no compensation on the grounds such as interest cost, incident expenditure, opportunity cost will be made to the TSP. However, if Scheduled COD is extended beyond a period of one hundred eighty (180) days due to Force Majeure event, the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9.



**ARTICLE: 12****12 CHANGE IN LAW****12.1 Change in Law**

12.1.1 Change in Law means the occurrence of any of the following after the Bid Deadline resulting into any additional recurring / non-recurring expenditure by the TSP or any savings of the TSP:

- the enactment, coming into effect, adoption, promulgation, amendment, modification or repeal (without re-enactment or consolidation) in India, of any Law, including rules and regulations framed pursuant to such Law, subject to the provisions under Article 12.1.2;
- a change in the interpretation or application of any Law by any Indian Governmental Instrumentality having the legal power to interpret or apply such Law, or any Competent Court of Law;
- the imposition of a requirement for obtaining any Consents, Clearances and Permits which was not required earlier;
- a change in the terms and conditions prescribed for obtaining any Consents, Clearances and Permits or the inclusion of any new terms or conditions for obtaining such Consents, Clearances and Permits;
- any change in the licensing regulations of the Commission, under which the Transmission License for the Project was granted if made applicable by such Commission to the TSP;
- change in wind zone; or
- any change in tax or introduction of any tax made applicable for providing Transmission Service by the TSP as per the terms of this Agreement.

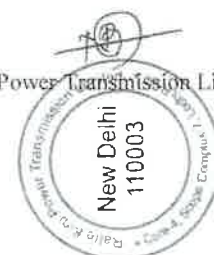
12.1.2 Notwithstanding anything contained in this Agreement, Change in Law shall not cover any change:

- a) Taxes on corporate income; and
- b) Withholding tax on income or dividends distributed to the shareholders of the TSP.

Central Transmission Utility of India Limited

44

Ratle Kiru Power Transmission Limited





## Transmission Service Agreement

**12.2 Relief for Change in Law**

12.2.1 During Construction Period, the impact of increase/decrease in the cost of the Project on the Transmission Charges shall be governed by the formula given in Schedule 9 of this Agreement.

12.2.2 During the Operation Period:

During the operation period, if as a result of Change in Law, the TSP suffers or is benefited from a change in costs or revenue, the aggregate financial effect of which exceeds 0.30% (zero point three percent) of the Annual Transmission Charges in aggregate for a Contract Year, the TSP may notify so to the Nodal Agency and propose amendments to this Agreement so as to place the TSP in the same financial position as it would have enjoyed had there been no such Change in Law resulting in change in costs or revenue as aforesaid.

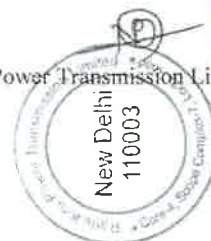
12.2.3 For any claims made under Articles 12.2.1 and 12.2.2 above, the TSP shall provide to the Nodal Agency documentary proof of such increase / decrease in cost of the Project / revenue for establishing the impact of such Change in Law.

In cases where Change in Law results in decrease of cost and it comes to the notice of Nodal Agency that TSP has not informed Nodal Agency about such decrease in cost, Nodal Agency may initiate appropriate claim.

Central Transmission Utility of India Limited

45

Ratle Kiru Power Transmission Limited



**12.3 Notification of Change in Law:**

- 12.3.1 If the TSP is affected by a Change in Law in accordance with Article 12.1 and wishes to claim relief for such Change in Law under this Article 12, it shall give notice to Nodal Agency of such Change in Law as soon as reasonably practicable after becoming aware of the same.
- 12.3.2 The TSP shall also be obliged to serve a notice to the Nodal Agency even when it is beneficially affected by a Change in Law.
- 12.3.3 Any notice served pursuant to Articles 12.3.1 and 12.3.2 shall provide, amongst other things, precise details of the Change in Law and its estimated impact on the TSP.

**12.4 Payment on account of Change in Law**

- 12.4.1 The payment for Change in Law shall be through a separate Bill. However, in case of any change in Monthly Transmission Charges by reason of Change in Law, as determined in accordance with this Agreement, the Bills to be raised by the Nodal Agency after such change in Transmission Charges shall appropriately reflect the changed Monthly Transmission Charges.

  
Central Transmission Utility of India Limited

46

  
Ratle Kiru Power Transmission Limited



**ARTICLE: 13****13 EVENTS OF DEFAULT AND TERMINATION****13.1 TSP's Event of Default**

The occurrence and continuation of any of the following events shall constitute a TSP Event of Default, unless any such TSP Event of Default occurs as a result of any non-fulfilment of its obligations as prescribed under this Agreement by the Nodal Agency or a Force Majeure Event:

- a. After having taken up the construction of the Project, the abandonment by the TSP or the TSP's Contractors of the construction of the Project for a continuous period of two (2) months and such default is not rectified within thirty (30) days from the receipt of notice from the Nodal Agency in this regard;
- b. The failure to commission any Element of the Project by the date falling six (6) months after its Scheduled COD unless extended by Nodal Agency as per provisions of this Agreement;
- c. If the TSP:
  - i. assigns, mortgages or charges or purports to assign, mortgage or charge any of its assets or rights related to the Project in contravention of the provisions of this Agreement; or
  - ii. transfers or novates any of its obligations pursuant to this Agreement, in a manner contrary to the provisions of this Agreement;

Except where such transfer is in pursuance of a Law and

- it does not affect the ability of the transferee to perform, and such transferee has the financial and technical capability to perform, its obligations under this Agreement;
- is to a transferee who assumes such obligations under the Project and this Agreement remains effective with respect to the transferee;

- d. If:
  - i. The TSP becomes voluntarily or involuntarily the subject of any bankruptcy or insolvency or winding up



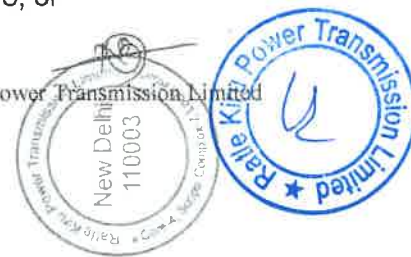
## Transmission Service Agreement

proceedings and such proceedings remain uncontested for a period of thirty (30) days; or

- ii. any winding up or bankruptcy or insolvency order is passed against the TSP; or
- iii. the TSP goes into liquidation or dissolution or a receiver or any similar officer is appointed over all or substantially all of its assets or official liquidator is appointed to manage its affairs, pursuant to Law,

Provided that a dissolution or liquidation of the TSP will not be a TSP's Event of Default, where such dissolution or liquidation of the TSP is for the purpose of a merger, consolidation or reorganization with the prior approval of the Commission as per the provisions of Central Electricity Regulatory Commission (Procedure, terms and Conditions for grant of Transmission License and other related matters) Regulations, 2006 or as amended from time to time; or

- e. Failure on the part of the TSP to comply with the provisions of Article 19.1 of this Agreement; or
- f. the TSP repudiates this Agreement and does not rectify such breach even within a period of thirty (30) days from a notice from the Nodal Agency in this regard; or
- g. after Commercial Operation Date of the Project, the TSP fails to achieve monthly Target Availability of 98%, for a period of six (6) consecutive months or within a non-consecutive period of six (6) months within any continuous aggregate period of eighteen(18) months except where the Availability is affected by Force Majeure Events as per Article 11; or
- h. any of the representations and warranties made by the TSP in Article 17 of this Agreement being found to be untrue or inaccurate. Further, in addition to the above, any of the undertakings submitted by the Selected Bidder at the time of submission of the Bid being found to be breached or inaccurate, including but not limited to undertakings from its Parent Company / Affiliates related to the minimum equity obligation; or
- i. the TSP fails to complete / fulfil all the activities / conditions within the specified period as per Article 3; or



- j. except for the reasons solely attributable to Nodal Agency, the TSP is in material breach of any of its obligations under this Agreement and such material breach is not rectified by the TSP within thirty (30) days of receipt of notice in this regard from the Nodal Agency; or
- k. deleted.

### 13.2 Termination Procedure for TSP Event of Default

- a. Upon the occurrence and continuance of any TSP's Event of Default under Article 13.1 the Nodal Agency may serve notice on the TSP, with a copy to the CEA and the Lenders' Representative, of their intention to terminate this Agreement (a "Nodal Agency's Preliminary Termination Notice"), which shall specify in reasonable detail, the circumstances giving rise to such Nodal Agency's Preliminary Termination Notice.
- b. Following the issue of a Nodal Agency's Preliminary Termination Notice, the Consultation Period shall apply and would be for the Parties to discuss as to what steps shall be taken with a view to mitigate the consequences of the relevant Event of Default having regard to all the circumstances.
- c. During the Consultation Period, the Parties shall, save as otherwise provided in this Agreement, continue to perform their respective obligations/ roles under this Agreement, and the TSP shall not remove any material, equipment or any part of the Project, without prior consent of the Nodal Agency.

Following the expiry of the Consultation Period, unless the Parties shall have otherwise agreed to the contrary or the circumstances giving rise to Nodal Agency's Preliminary Termination Notice shall have ceased to exist or shall have been remedied, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.

Further, the Nodal Agency may also initiate proceedings to blacklist the TSP & its Affiliates from participation in any RFP issued by BPCs for a period of 5 years.



**13.3 Procedure for Nodal Agency's non-fulfilment of Role**

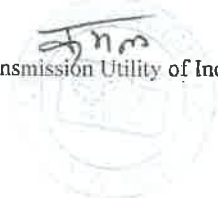
- a. Upon the Nodal Agency not being able to fulfil its role under Article 4.2, the TSP may serve notice on the Nodal Agency, with a copy to CEA and the Lenders' Representative (a "TSP's Preliminary Notice"), which notice shall specify in reasonable detail the circumstances giving rise to such non-fulfilment of role by the Nodal Agency.
- b. Following the issue of a TSP's Preliminary Notice, the Consultation Period shall apply.
- c. The Consultation Period would be for the Parties to discuss as to what steps shall be taken with a view to mitigate the consequences of the relevant non-fulfilment of role by the Nodal Agency including giving time extension to TSP, having regard to all the circumstances.
- d. During the Consultation Period, both Parties shall, save as otherwise provided in this Agreement, continue to perform their respective obligations/ roles under this Agreement.

**13.4 Termination due to Force Majeure**

- 13.4.1 In case the Parties could not reach an agreement pursuant to Articles 3.3.4 and 4.4.2 of this Agreement and the Force Majeure Event or its effects continue to be present, the Nodal Agency shall have the right to cause termination of the Agreement. In case of such termination, the Contract Performance Guarantee shall be returned to the TSP as per the provisions of Article 6.5.1.
- 13.4.2 In case of termination of this Agreement, the TSP shall provide to the Nodal Agency the full names and addresses of its Contractors as well as complete designs, design drawings, manufacturing drawings, material specifications and technical information, as required by the Nodal Agency within thirty (30) days of Termination Notice.

**13.5 Termination or amendment due to non-requirement of any Element or Project during construction**

- 13.5.1 In case any Element or Project, which is under construction, is no longer required due to any reason whatsoever, the Nodal Agency may issue a notice to this effect to the TSP.
- 13.5.2 Nodal agency may also issue notice to the TSP seeking their response to the proposed termination/ amendment (as the case may be) of the





Agreement. The Nodal Agency shall issue copy of such notice to Lenders. In the notice, Nodal Agency shall also include an assessment of the physical progress made by TSP in the Element/ Project (as the case may be) that is no longer required.

- 13.5.3 The TSP shall neither carry out further investment nor carry out any work on the Element/ Project (as the case may be) that is no longer required after delivery of the notice.
- 13.5.4 After taking into account the comments of the TSP, the Nodal Agency may terminate the Agreement or amend it if both Parties agree to the amendment.

### 13.6 Revocation of the Transmission License

- 13.6.1 The Commission may, as per the provisions of the Electricity Act, 2003, revoke the Transmission License of the ISTS Licensee. Further, in such a case, the Agreement shall be deemed to have been terminated.

### 13.7 Termination Payment

- 13.7.1 If Agreement is terminated on account of Force Majeure Events, non-requirement of any Element or Project during Construction, Nodal Agency's non-fulfilment of Role & TSP's Event of Default, the TSP shall be entitled for Termination Payment equivalent to valuation of Project Assets. Upon payment, the Nodal Agency shall take over the Project Assets.



**ARTICLE: 14****14 LIABILITY AND INDEMNIFICATION****14.1 Indemnity**

14.1.1 The TSP shall indemnify, defend and hold the Nodal Agency harmless against:

- (a) any and all third party claims, actions, suits or proceedings against the Nodal Agency for any loss of or damage to property of such third party, or death or injury to such third party, arising out of a breach by the TSP of any of its obligations under this Agreement, except to the extent that any such claim, action, suit or proceeding has arisen due to a negligent act or omission, breach of this Agreement or non-fulfilment of statutory duty on the part of Nodal Agency; and
- (b) any and all losses, damages, costs and expenses including legal costs, fines, penalties and interest actually suffered or incurred by the Nodal Agency from third party claims arising by reason of:
  - i. a breach by the TSP of any of its obligations under this Agreement, (provided that this Article 14 shall not apply to such breaches by the TSP, for which specific remedies have been provided for under this Agreement) except to the extent that any such losses, damages, costs and expenses including legal costs, fines, penalties and interest (together to constitute "Indemnifiable Losses") has arisen due to a negligent act or omission, breach of this Agreement or non-fulfilment of statutory duty on the part of the Nodal Agency, or
  - ii. any of the representations and warranties of the TSP under this Agreement being found to be inaccurate or untrue.

14.1.2 The Nodal Agency shall, in accordance with the Regulations framed by CERC in this regard, indemnify, defend and hold the TSP harmless against:

- (a) any and all third party claims, actions, suits or proceedings against the TSP, for any loss of or damage to property of such third party, or death or injury to such third party, arising out of any material breach by the Nodal Agency of any of their roles under this Agreement, except to the extent that any such claim, action, suit or proceeding has arisen due to a negligent act or omission, breach of

## Transmission Service Agreement

this Agreement or breach of statutory duty on the part of the TSP, its Contractors, servants or agents; and

- (b) any and all losses, damages, costs and expenses including legal costs, fines, penalties and interest ('Indemnifiable Losses') actually suffered or incurred by the TSP from third party claims arising by reason of:
- i. any material breach by the Nodal Agency of any of its roles under this Agreement (provided that, this Article 14 shall not apply to such breaches by the Nodal Agency, for which specific remedies have been provided for under this Agreement), except to the extent that any such Indemnifiable Losses have arisen due to a negligent act or omission, breach of this Agreement or breach of statutory duty on the part of the TSP, its Contractors, servants or agents or
  - ii. any of the representations and warranties of the Nodal Agency under this Agreement being found to be inaccurate or untrue.

#### 14.2 Patent Indemnity:

##### 14.2.1

- (a) The TSP shall, subject to the Nodal Agency's compliance with Article 14.2.1 (b), indemnify and hold harmless the Nodal Agency and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, which the Nodal Agency may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Agreement by reason of the setting up of the Project by the TSP.

Such indemnity shall not cover any use of the Project or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Agreement, any infringement resulting from the misuse of the Project or any part thereof, or any products produced in association or combination with any other equipment, plant or materials not supplied by the TSP, pursuant to the Agreement.

- (b) If any proceedings are brought or any claim is made against the Nodal Agency arising out of the matters referred to in Article

Central Transmission Utility of India Limited

53



## Transmission Service Agreement

14.2.1(a), the Nodal Agency shall promptly give the TSP a notice thereof, and the TSP shall at its own expense take necessary steps and attend such proceedings or claim and any negotiations for the settlement of any such proceedings or claim. The TSP shall promptly notify the Nodal Agency of all actions taken in such proceedings or claims.

- (c) If the TSP fails to notify the Nodal Agency within twenty-eight (28) days after receipt of such notice from the Nodal Agency under Article 14.2.1(b) above, that it intends to attend any such proceedings or claim, then the Nodal Agency shall be free to attend the same on their own behalf at the cost of the TSP. Unless the TSP has so failed to notify the Nodal Agency within the twenty eight (28) days period, the Nodal Agency shall make no admission that may be prejudicial to the defence of any such proceedings or claims.
- (d) The Nodal Agency shall, at the TSP's request, afford all available assistance to the TSP in attending to such proceedings or claim, and shall be reimbursed by the TSP for all reasonable expenses incurred in so doing.

## 14.2.2

- (a) The Nodal Agency, in accordance with the Regulations framed by CERC in this regard, subject to the TSP's compliance with Article 14.2.2(b) shall indemnify and hold harmless the TSP and its employees, officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs and expenses of whatsoever nature, including attorney's fees and expenses, which the TSP may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Agreement by reason of the setting up of the Project by the TSP.
- (b) If any proceedings are brought or any claim is made against the TSP arising out of the matters referred to in Article 14.2.2 (a) the TSP shall promptly give the Nodal Agency a notice thereof, and the Nodal Agency shall at its own expense take necessary steps and attend such proceedings or claim and any negotiations for the settlement of any such proceedings or claim. The Nodal Agency shall promptly notify the TSP of all actions taken in such proceedings or claims.

  
Central Transmission Utility of India Limited



- (c) If the Nodal Agency fails to notify the TSP within twenty-eight (28) days after receipt of such notice from the TSP under Article 14.2.2(b) above, that it intends to attend any such proceedings or claim, then the TSP shall be free to attend the same on its own behalf at the cost of the Nodal Agency. Unless the Nodal Agency has so failed to notify the TSP within the twenty (28) days period, the TSP shall make no admission that may be prejudicial to the defence of any such proceedings or claim.
- (d) The TSP shall, at the Nodal Agency request, afford all available assistance to the Nodal Agency in attending to such proceedings or claim, and shall be reimbursed by the Nodal Agency for all reasonable expenses incurred in so doing.

### 14.3 Monetary Limitation of liability

- 14.3.1 A Party ("Indemnifying Party") shall be liable to indemnify the other Party ("Indemnified Party") under this Article 14 for any indemnity claims made in a Contract Year only up to an amount of Rupees One Crore Twenty Three Lakh Only (Rs. 1.23 Crore).

### 14.4 Procedure for claiming indemnity

- 14.4.1 Where the Indemnified Party is entitled to indemnification from the Indemnifying Party pursuant to Articles 14.1 or 14.2 the Indemnified Party shall promptly notify the Indemnifying Party of such claim, proceeding, action or suit referred to in Articles 14.1 or 14.2 in respect of which it is entitled to be indemnified. Such notice shall be given as soon as reasonably practicable after the Indemnified Party becomes aware of such claim, proceeding, action or suit. The Indemnifying Party shall be liable to settle the indemnification claim within thirty (30) days of receipt of the above notice.

Provided however that, if:

- i. the Parties choose to contest, defend or litigate such claim, action, suit or proceedings in accordance with Article 14.4.3 below; and
- ii. the claim amount is not required to be paid/deposited to such third party pending the resolution of the Dispute,

the Indemnifying Party shall become liable to pay the claim amount to the Indemnified Party or to the third party, as the case may be, promptly following the resolution of the Dispute, if such Dispute is not settled in favour of the Indemnified Party.





- 14.4.2 The Indemnified Party may contest, defend and litigate a claim, action, suit or proceeding for which it is entitled to be indemnified under Articles 14.1 or 14.2 and the Indemnifying Party shall reimburse to the Indemnified Party all reasonable costs and expenses incurred by the Indemnified Party. However, such Indemnified Party shall not settle or compromise such claim, action, suit or proceedings without first getting the consent of the Indemnifying Party, which consent shall not be unreasonably withheld or delayed.
- 14.4.3 An Indemnifying Party may, at its own expense, assume control of the defence of any proceedings brought against the Indemnified Party if it acknowledges its obligation to indemnify such Indemnified Party, gives such Indemnified Party prompt notice of its intention to assume control of the defence, and employs an independent legal counsel at its own cost that is reasonably satisfactory to the Indemnified Party.

#### 14.5 Limitation on Liability

- 14.5.1 Except as expressly provided in this Agreement, neither the TSP nor the Nodal Agency nor their respective officers, directors, agents, employees or Affiliates (including, officers, directors, agents or employees of such Affiliates), shall be liable or responsible to the other Party or its Affiliates including its officers, directors, agents, employees, successors, insurers or permitted assigns for incidental, indirect or consequential, punitive or exemplary damages, connected with or resulting from performance or non-performance of this Agreement, or anything done in connection herewith, including claims in the nature of lost revenues, income or profits (other than payments expressly required and properly due under this Agreement), any increased expense of, reduction in or loss of transmission capacity or equipment used therefore, irrespective of whether such claims are based upon breach of warranty, tort (including negligence, whether of the Nodal Agency, the TSP or others), strict liability, contract, breach of statutory duty, operation of law or otherwise.
- 14.5.2 The Nodal Agency shall have no recourse against any officer, director or shareholder of the TSP or any Affiliate of the TSP or any of its officers, directors or shareholders for such claims excluded under this Article. The TSP shall also have no recourse against any officer, director or shareholder of the Nodal Agency, or any Affiliate of the Nodal Agency or any of its officers, directors or shareholders for such claims excluded under this Article.





**14.6 Duty to Mitigate**

The party entitled to the benefit of an indemnity under this Article 14 shall take all reasonable measures to mitigate any loss or damage which has occurred. If the Party fails to take such measures, the other Party's liabilities shall be correspondingly reduced.

  
Central Transmission Utility of India Limited

57

  
Ratle Kiru Power Transmission Limited  
  


**ARTICLE: 15****15 ASSIGNMENTS AND CHARGES****15.1 Assignments:**

15.1.1 This Agreement shall be binding upon, and inure to the benefit of the Parties and their respective successors and permitted assigns. This Agreement shall not be assigned by any Party, except as provided in Article 15.3.

**15.2 Permitted Charges:**

15.2.1 Neither Party shall create or permit to subsist any encumbrance over all or any of its rights and benefits under this Agreement.

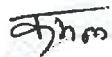
15.2.2 However, the TSP may create any encumbrance over all or part of the receivables, or the Project Assets of the Project in favour of the Lenders or the Lenders' Representative on their behalf, as security for amounts payable under the Financing Agreements and any other amounts agreed by the Parties.

Provided that:

- i. the Lenders or the Lenders' Representative on their behalf shall have entered into the Financing Agreements and agreed in writing to the provisions of this Agreement; and
- ii. any encumbrance granted by the TSP in accordance with this Article 15.2.2 shall contain provisions pursuant to which the Lenders or the Lender's Representative on their behalf agrees unconditionally with the TSP to release from such encumbrances upon payment by the TSP to the Lenders of all amounts due under the Financing Agreements.

15.2.3 Article 15.2.1 does not apply to:

- a. liens arising by operation of law (or by an agreement evidencing the same) in the ordinary course of the TSP developing and operating the Project;
- b. pledges of goods, the related documents of title and / or other related documents, arising or created in the ordinary course of the TSP developing and operating the Project; or

  
Central Transmission Utility of India Limited

58

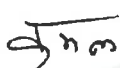
  
Ratle Kiru Power Transmission Limited



- c. security arising out of retention of title provisions in relation to goods acquired in the ordinary course of the TSP developing and operating the Project.

### 15.3 Substitution Rights of the Lenders

- 15.3.1 The TSP would need to operate and maintain the Project under the provisions of this Agreement and cannot assign the Transmission License or transfer the Project or part thereof to any person by sale, lease, exchange or otherwise, without the prior approval of the Nodal Agency.
- 15.3.2 However, in the case of default by the TSP in debt repayments or in the case of default by the TSP as per Article 13 of this Agreement during the debt repayments, the Commission may, on an application from the Lenders, assign the Transmission License to the nominee of the Lenders subject to the fulfilment of the qualification requirements and provisions of the Central Electricity Regulatory Commission (Procedure, terms and Conditions for grant of Transmission License and other related matters) Regulations, 2006 and as amended from time to time.

  
Central Transmission Utility of India Limited

59

  
Ratle Kiru Power Transmission Limited



**ARTICLE: 16****16 GOVERNING LAW AND DISPUTE RESOLUTION****16.1 Governing Law:**

This Agreement shall be governed by and construed in accordance with the Laws of India. Any legal proceedings in respect of any matters, claims or disputes under this Agreement shall be under the jurisdiction of appropriate courts in Delhi.

**16.2 Amicable Settlement:**

16.2.1 Either Party is entitled to raise any claim, dispute or difference of whatever nature arising under, out of or in connection with this Agreement, including its existence or validity or termination or whether during the execution of the Project or after its completion and whether prior to or after the abandonment of the Project or termination or breach of the Agreement by giving a written notice to the other Party, which shall contain:

- (i) a description of the Dispute;
- (ii) the grounds for such Dispute; and
- (iii) all written material in support of its claim.

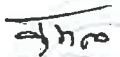
16.2.2 The other Party shall, within thirty (30) days of issue of notice issued under Article 16.2.1, furnish:

- (i) counter-claim and defences, if any, regarding the Dispute; and
- (ii) all written material in support of its defences and counter-claim.

16.2.3 Within thirty (30) days of issue of notice by the Party pursuant to Article 16.2.1, if the other Party does not furnish any counter claim or defense under Article 16.2.2, or thirty (30) days from the date of furnishing counter claims or defence by the other Party, both the Parties to the Dispute shall meet to settle such Dispute amicably. If the Parties fail to resolve the Dispute amicably within thirty (30) days from the later of the dates mentioned in this Article 16.2.3, the Dispute shall be referred for dispute resolution in accordance with Article 16.3.

**16.3 Dispute Resolution:**

All Disputes shall be adjudicated by the Commission.

  
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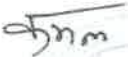
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**16.4 Parties to Perform Obligations:**

Notwithstanding the existence of any Dispute and difference referred to the Commission as provided in Article 16.3 and save as the Commission may otherwise direct by a final or interim order, the Parties hereto shall continue to perform their respective obligations/ roles (which are not in dispute) under this Agreement.

  
Central Transmission Utility of India Limited

61

  
Ratle Kiru Power Transmission Limited



**ARTICLE: 17****17 REPRESENTATION AND WARRANTIES****17.1 Representation and warranties of the Nodal Agency**

17.1.1 The Nodal Agency hereby represents and warrants to and agrees with the TSP as follows and acknowledges and confirms that the TSP is relying on such representations and warranties in connection with the transactions described in this Agreement:

- a. It has all requisite powers and authority to execute and consummate this Agreement;
- b. This Agreement is enforceable against the Nodal Agency in accordance with its terms;
- c. The consummation of the transactions contemplated by this Agreement on the part of Nodal Agency will not violate any provision of nor constitute a default under, nor give rise to a power to cancel any charter, mortgage, deed of trust or lien, lease, agreement, license, permit, evidence of indebtedness, restriction, or other contract to which the Nodal Agency is a Party or to which the Nodal Agency is bound, which violation, default or power has not been waived;

**17.2 Representation and Warranties of the TSP:**

17.2.1 The TSP hereby represents and warrants to and agrees with the Nodal Agency as follows and acknowledges and confirms that the Nodal Agency is relying on such representations and warranties in connection with the transactions described in this Agreement:

- a. It has all requisite powers and has been duly authorized to execute and consummate this Agreement;
- b. This Agreement is enforceable against it, in accordance with its terms;
- c. The consummation of the transactions contemplated by this Agreement on the part of the TSP will not violate any provision of nor constitute a default under, nor give rise to a power to cancel any charter, mortgage, deed of trust or lien, lease, agreement, license, permit, evidence of indebtedness, restriction, or other contract to which the TSP is a Party or to which the TSP is bound which violation, default or power has not been waived;






## Transmission Service Agreement

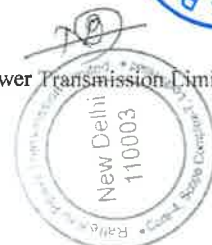
- d. The TSP is not insolvent and no insolvency proceedings have been instituted, nor threatened or pending by or against the TSP;
- e. There are no actions, suits, claims, proceedings or investigations pending or, to the best of the TSP's knowledge, threatened in writing against the TSP at law, in equity, or otherwise, and whether civil or criminal in nature, before or by, any court, commission, arbitrator or governmental agency or authority, and there are no outstanding judgments, decrees or orders of any such courts, commission, arbitrator or governmental agencies or authorities, which materially adversely affect its ability to execute the Project or to comply with its obligations under this Agreement.

17.2.2 The TSP makes all the representations and warranties above to be valid as on the Effective Date of this Agreement.

  
Central Transmission Utility of India Limited

63

  
Ratle Kiru Power Transmission Limited



**ARTICLE: 18****18 INDEPENDENT ENGINEER****18.1 Appointment of Independent Engineer**

The Nodal Agency shall appoint an agency/ company as Independent Engineer as per framework provided in the Guidelines for Encouraging Competition in Development of Transmission Projects for selection of Independent Engineer.

**18.2 Roles and functions of Independent Engineer**

The role and functions of the Independent Engineer shall include the following:

- a. Progress Monitoring as required under this Agreement;
- b. Ensuring Quality as required under this Agreement;
- c. determining, as required under the Agreement, the costs of any works or services and/or their reasonableness during construction phase;
- d. determining, as required under the Agreement, the period or any extension thereof, for performing any duty or obligation during construction phase;
- e. determining, as required under the Agreement, the valuation of the Project Assets.
- f. Assisting the Parties in resolution of Disputes and
- g. Undertaking all other duties and functions in accordance with the Agreement.

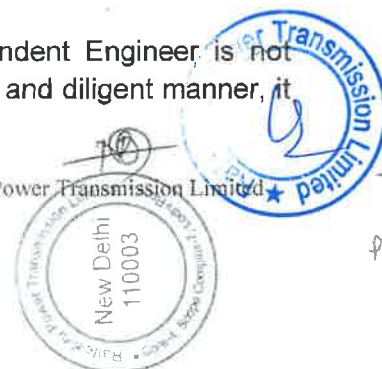
**18.3 Remuneration of Independent Engineer**

The fee and charges of the Independent Engineer shall be paid by the Nodal Agency as per terms & conditions of appointment.

**18.4 Termination of appointment**

18.4.1 The Nodal Agency may, in its discretion, terminate the appointment of the Independent Engineer at any time, but only after appointment of another Independent Engineer.

18.4.2 If the TSP has reason to believe that the Independent Engineer is not discharging its duties and functions in a fair, efficient and diligent manner, it

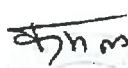


## Transmission Service Agreement

may make a written representation to the Nodal Agency and seek termination of the appointment of the Independent Engineer. Upon receipt of such representation, the Nodal Agency shall hold a tripartite meeting with the TSP and Independent Engineer for an amicable resolution, and the decision of Nodal agency is final. In the event that the appointment of the Independent Engineer is terminated hereunder, the Nodal Agency shall appoint forthwith another Independent Engineer.

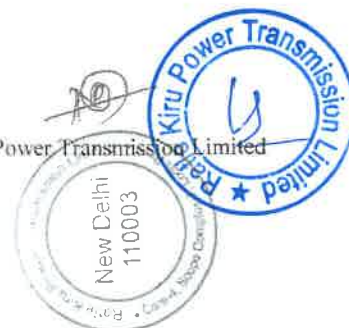
**18.5 Authorised signatories**

The Nodal Agency shall require the Independent Engineer to designate and notify to the Nodal Agency up to 2 (two) persons employed in its firm to sign for and on behalf of the Independent Engineer, and any communication or document required to be signed by the Independent Engineer shall be valid and effective only if signed by any of the designated persons; provided that the Independent Engineer may, by notice in writing, substitute any of the designated persons by any of its employees.

  
Central Transmission Utility of India Limited

65

  
Ratle Kiru Power Transmission Limited



**ARTICLE: 19****19 MISCELLANEOUS PROVISIONS****19.1 Equity Lock-in Commitment:**

- 19.1.1 The aggregate equity share holding of the Selected Bidder in the issued and paid up equity share capital of **Ratle Kiru Power Transmission Limited** shall not be less than Fifty one percent (51%) up to a period of one (1) year after COD of the Project.

Provided that, in case the Lead Member or Bidding Company is holding equity through Affiliate/s, Ultimate Parent Company or Parent Company, such restriction as specified above shall apply to such entities.

Provided further, that in case the Selected Bidder is a Bidding Consortium, the Lead Member shall continue to hold equity of at least twenty six percent (26%) upto a period of one (1) year after COD of the Project and any Member of such Bidding Consortium shall be allowed to divest its equity as long as the other remaining Members (which shall always include the Lead Member) hold the minimum equity specified above.

- 19.1.2 If equity is held by the Affiliates, Parent Company or Ultimate Parent Company of the Selected Bidder, then, subject to the second proviso to Article 19.1.1, such Affiliate, Parent Company or Ultimate Parent Company shall be eligible to transfer its shareholding in **Ratle Kiru Power Transmission Limited** to another Affiliate or to the Parent Company / Ultimate Parent Company of the Selected Bidder. If any such shareholding entity, qualifying as an Affiliate / Parent Company / Ultimate Parent Company, is likely to cease to meet the criteria to qualify as an Affiliate / Parent Company / Ultimate Parent Company, the shares held by such entity shall be transferred to another Affiliate / Parent Company / Ultimate Parent Company of the Selected Bidder.
- 19.1.3 Subject to Article 19.1.1, all transfer(s) of shareholding of **Ratle Kiru Power Transmission Limited** by any of the entities referred to in Article 19.1.1 and 19.1.2 above, shall be after prior written intimation to the Nodal Agency.
- 19.1.4 For computation of effective Equity holding, the Equity holding of the Selected Bidder or its Ultimate Parent Company in such Affiliate(s) or Parent Company and the equity holding of such Affiliate(s) or Ultimate Parent Company in **Ratle Kiru Power Transmission Limited** shall be computed in accordance with the example given below:



## Transmission Service Agreement

If the Parent Company or the Ultimate Parent Company of the Selected Bidder A directly holds thirty percent (30%) of the equity in **Ratle Kiru Power Transmission Limited**] then holding of Selected Bidder A in **Ratle Kiru Power Transmission Limited** shall be thirty percent (30%);

If Selected Bidder A holds thirty percent (30%) equity of the Affiliate and the Affiliate holds fifty percent (50%) equity in **Ratle Kiru Power Transmission Limited**, then, for the purposes of ascertaining the minimum equity/equity lock-in requirements specified above, the effective holding of Bidder A **Ratle Kiru Power Transmission Limited** shall be fifteen percent (15%), (i.e., 30% x 50%)

- 19.1.5 The provisions as contained in this Article 19.1 shall override the terms of the consortium agreement submitted as part of the Bid.
- 19.1.6 The TSP shall be responsible to report to Nodal Agency, within thirty (30) days from the occurrence of any event that would result in any change in its equity holding structure from that which existed as on the date of signing of the Share Purchase Agreement. In such cases, the Nodal Agency would reserve the right to ascertain the equity holding structure and to call for all such required documents / information / clarifications as may be required.

## 19.2 Commitment of maintaining Qualification Requirement

- 19.2.1 The Selected Bidder will be required to continue to maintain compliance with the Qualification Requirements, as stipulated in RFP Document, till the COD of the Project. Where the Technically Evaluated Entity and/or the Financially Evaluated Entity is not the Bidding Company or a Member in a Bidding Consortium, as the case may be, the Bidding Company or Member shall continue to be an Affiliate of the Technically Evaluated Entity and/or Financially Evaluated Entity till the COD of the Project.
- 19.2.2 Failure to comply with the aforesaid provisions shall be dealt in the same manner as TSP's Event of Default as under Article 13 of this Agreement.

## 19.3 Language:

- 19.3.1 All agreements, correspondence and communications between the Parties relating to this Agreement and all other documentation to be prepared and supplied under the Agreement shall be written in English, and the Agreement shall be construed and interpreted in accordance with English language.
- 19.3.2 If any of the agreements, correspondence, communications or documents are prepared in any language other than English, the English



## Transmission Service Agreement

translation of such agreements, correspondence, communications or documents shall prevail in matters of interpretation.

**19.4 Affirmation**

The TSP and the Nodal Agency, each affirm that:

1. neither it nor its respective directors, employees, or agents has paid or undertaken to pay or shall in the future pay any unlawful commission, bribe, pay-off or kick-back; and
2. it has not in any other manner paid any sums, whether in Indian currency or foreign currency and whether in India or abroad to the other Party to procure this Agreement, and the TSP and the Nodal Agency hereby undertake not to engage in any similar acts during the Term of Agreement.

**19.5 Severability**

The invalidity or enforceability, for any reason, of any part of this Agreement shall not prejudice or affect the validity or enforceability of the remainder of this Agreement, unless the part held invalid or unenforceable is fundamental to this Agreement.

**19.6 Counterparts**

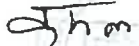
This Agreement may be executed in one or more counterparts, each of which shall be deemed an original and all of which collectively shall be deemed one and the same Agreement.

**19.7 Breach of Obligations/ Roles**

The Parties acknowledge that a breach of any of the obligations/ roles contained herein would result in injuries. The Parties further acknowledge that the amount of the liquidated damages or the method of calculating the liquidated damages specified in this Agreement is a genuine and reasonable pre-estimate of the damages that may be suffered by the non-defaulting Party in each case specified under this Agreement.

**19.8 Restriction of Shareholders / Owners Liability**

- 19.8.1 Parties expressly agree and acknowledge that none of the shareholders of the Parties hereto shall be liable to the other Parties for any of the contractual obligations of the concerned Party under this Agreement.

  
Central Transmission Utility of India Limited

68

  
Ratle Kiru Power Transmission Limited





## Transmission Service Agreement

19.8.2 Further, the financial liabilities of the shareholder(s) of each Party to this Agreement shall be restricted to the extent provided in the Indian Companies Act, 1956 / Companies Act, 2013 (as the case may be).

**19.9 Taxes and Duties:**

19.9.1 The TSP shall bear and promptly pay all statutory taxes, duties, levies and cess, assessed/levied on the TSP, its Contractors or their employees that are required to be paid by the TSP as per the Law in relation to the execution of the Project and for providing Transmission Service as per the terms of this Agreement.

19.9.2 The Nodal Agency shall be indemnified and held harmless by the TSP against any claims that may be made against the Nodal Agency in relation to the matters set out in Article 19.9.1.

19.9.3 The Nodal Agency shall not be liable for any payment of, taxes, duties, levies, cess whatsoever for discharging any obligation of the TSP by the Nodal Agency on behalf of TSP or its personnel, provided the TSP has consented in writing to the Nodal Agency for such work, for which consent shall not be unreasonably withheld.

**19.10 No Consequential or Indirect Losses**

The liability of the TSP shall be limited to that explicitly provided in this Agreement.

Provided that, notwithstanding anything contained in this Agreement, under no event shall the Nodal Agency or the TSP claim from one another any indirect or consequential losses or damages.

**19.11 Discretion:**

Except where this Agreement expressly requires a Party to act fairly or reasonably, a Party may exercise any discretion given to it under this Agreement in any way it deems fit.

**19.12 Confidentiality**

19.12.1 The Parties undertake to hold in confidence this Agreement and RFP Project Documents and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:

- (a) to their professional advisors;
- (b) to their officers, contractors, employees, agents or representatives, financiers, who need to have access to such information for the proper performance of their activities; or



## Transmission Service Agreement

(c) disclosures required under Law, without the prior written consent of the other Parties.

Provided that, the TSP agrees and acknowledges that the Nodal Agency, may, at any time, disclose the terms and conditions of the Agreement and the RFP Project Documents to any person, to the extent stipulated under the Law and the Competitive Bidding Guidelines.

**19.13 Order of priority in application:**

Save as provided in Article 2.5, in case of inconsistencies between the terms and conditions stipulated in Transmission License issued by the Commission to the TSP, agreement(s) executed between the Parties, applicable Law including rules and regulations framed thereunder, the order of priority as between them shall be the order in which they are placed below:

- terms and conditions of Transmission License;
- applicable Law, rules and regulations framed thereunder;
- this Agreement;
- Agreement(s), if any, under Sharing Regulations.

**19.14 Independent Entity:**

19.14.1 The TSP shall be an independent entity performing its obligations pursuant to the Agreement.

19.14.2 Subject to the provisions of the Agreement, the TSP shall be solely responsible for the manner in which its obligations under this Agreement are to be performed. All employees and representatives of the TSP or Contractors engaged by the TSP in connection with the performance of the Agreement shall be under the complete control of the TSP and shall not be deemed to be employees, representatives, Contractors of the Nodal Agency and nothing contained in the Agreement or in any agreement or contract awarded by the TSP shall be construed to create any contractual relationship between any such employees, representatives or Contractors and the Nodal Agency.


**19.15 Amendments:**

19.15.1 This Agreement may only be amended or supplemented by a written agreement between the Parties.

**19.16 Waiver:**

  
Central Transmission Utility of India Limited

70

  
Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

- 19.16.1 No waiver by either Party of any default or breach by the other Party in the performance of any of the provisions of this Agreement shall be effective unless in writing duly executed by an authorised representative of such Party.
- 19.16.2 Neither the failure by either Party to insist on any occasion upon the performance of the terms, conditions and provisions of this Agreement nor time or other indulgence granted by one Party to the other Parties shall act as a waiver of such breach or acceptance of any variation or the relinquishment of any such right or any other right under this Agreement, which shall remain in full force and effect.

**19.17 Relationship of the Parties:**

This Agreement shall not be interpreted or construed to create an association, joint venture, or partnership or agency or any such other relationship between the Parties or to impose any partnership obligation or liability upon either Party and neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

**19.18 Entirety:**

- 19.18.1 This Agreement along with its sections, schedules and appendices is intended by the Parties as the final expression of their agreement and is intended also as a complete and exclusive statement of the terms of their agreement.
- 19.18.2 Except as provided in this Agreement, all prior written or oral understandings, offers or other communications of every kind pertaining to this Agreement or the provision of Transmission Service under this Agreement to the Nodal Agency by the TSP shall stand superseded and abrogated.

**19.19 Notices:**

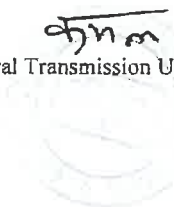
- 19.19.1 All notices or other communications which are required to be given under this Agreement shall be in writing and in the English language
- 19.19.2 If to the TSP, all notices or communications must be delivered personally or by registered post or facsimile or any other mode duly acknowledged to the addressee below:

Address : UNIT No. 101, FIRST FLOOR, WINDSOR  
 Attention : VILLAGE KOLE KALYAN OFF CST ROAD  
 : SANTACRUZ (EAST), MUMBAI (MH) 400098  
 Ms. JRMIL SHAH

Central Transmission Utility of India Limited

71

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

Email : *Urmil.Shah@indgrid.com*  
 Fax. No. :  
 Telephone No. : 8652228002

19.19.3 If to the Nodal Agency, all notices or communications must be delivered personally or by registered post or facsimile or any other mode duly acknowledged to the addresses below:

## (i) Central Transmission Utility of India Limited

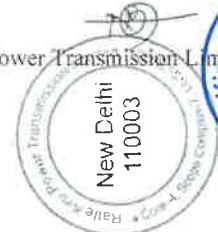
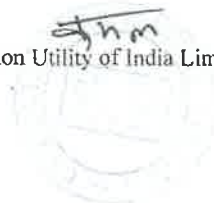
Address : 5th to 10th Floor, IRCON International Tower,  
 Tower no-1, Plot no -16 , Sector-32, Gurugram,  
 Haryana :122003  
 Attention : Ramachandra, Sr GM  
 Email : ramachand@powergrid.in  
 Fax. No. :  
 Telephone No. : 9910378128

19.19.4 All notices or communications given by facsimile shall be confirmed by sending a copy of the same via post office in an envelope properly addressed to the appropriate Party for delivery by registered mail. All notices shall be deemed validly delivered upon receipt evidenced by an acknowledgement of the recipient, unless the Party delivering the notice can prove in case of delivery through the registered post that the recipient refused to acknowledge the receipt of the notice despite efforts of the postal authorities.

19.19.5 Any Party may by notice of at least fifteen (15) days to the other Party change the address and/or addresses to which such notices and communications to it are to be delivered or mailed.

**19.20 Fraudulent and Corrupt Practices**

19.20.1 The TSP and its respective officers, employees, agents and advisers shall observe the highest standard of ethics during the subsistence of this Agreement. Notwithstanding anything to the contrary contained in the Agreement, the Nodal Agency may terminate the Agreement without being liable in any manner whatsoever to the TSP, if it determines that the TSP has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bid process. In such an event, the Nodal Agency shall forfeit the Contract Performance Guarantee of the TSP, without prejudice to any other right or remedy that may be available to the Nodal Agency hereunder or subsistence otherwise.



## Transmission Service Agreement

- 19.20.2 Without prejudice to the rights of the Nodal Agency under Clause 19.20.1 hereinabove and the rights and remedies which the Nodal Agency may have under this Agreement, if a TSP is found by the Nodal Agency to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bid process, or after the issue of Letter of Intent (hereinafter referred to as Lol) or after the execution of the agreement(s) required under Sharing Regulations, the Nodal Agency may terminate the Agreement without being liable in any manner whatsoever to the TSP. Further, the TSP & its Affiliates shall not be eligible to participate in any tender or RFP issued by any BPC for an indefinite period from the date such TSP is found by the Nodal Agency to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practices, as the case may be.
- 19.20.3 For the purposes of this Clause 19.20, the following terms shall have the meaning hereinafter respectively assigned to them:
- (a) **“corrupt practice”** means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bid process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the BPC who is or has been associated or dealt in any manner, directly or indirectly with the Bid process or the Lol or has dealt with matters concerning the RFP Project Documents or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the BPC, shall be deemed to constitute influencing the actions of a person connected with the Bid Process); or (ii) engaging in any manner whatsoever, whether during the Bid Process or after the issue of the Lol or after the execution of the RFP Project Documents, as the case may be, any person in respect of any matter relating to the Project or the Lol or the RFP Project Documents, who at any time has been or is a legal, financial or technical adviser of the BPC in relation to any matter concerning the Project;
- (b) **“fraudulent practice”** means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bid process;
- (c) **“coercive practice”** means impairing or harming, or threatening to impair or harm, directly or indirectly, any person or property to influence any person's participation or action in the Bid process;




## Transmission Service Agreement

(d) "**undesirable practice**" means (i) establishing contact with any person connected with or employed or engaged by the BPC with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bid process; or (ii) having a Conflict of Interest; and

(e) "**restrictive practice**" means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Bid process;

**19.21 Compliance with Law:**

Despite anything contained in this Agreement but without prejudice to Article 12, if any provision of this Agreement shall be in deviation or inconsistent with or repugnant to the provisions contained in the Electricity Act, 2003, or any rules and regulations made there under, such provision shall be deemed to be amended to the extent required to bring it into compliance with the aforesaid relevant provisions as amended from time to time.

  
Central Transmission Utility of India Limited

74

  
Ratle Kiru Power Transmission Limited





Transmission Service Agreement

IN WITNESS WHEREOF, THE PARTIES HAVE CAUSED THIS AGREEMENT TO BE EXECUTED BY THEIR DULY AUTHORISED REPRESENTATIVES AS OF THE DATE AND PLACE SET FORTH ABOVE.

1. For and on behalf of TSP

*Nitin Baliram Mahajan*

[Signature, Name, Designation and Address]

Nitin Baliram Mahajan  
Lead. Business Dev. & Bidding  
INDIGRID 2 PVT LTD.

2. For and on behalf of .....[Insert name of the Nodal Agency]

*Kamal Kumar Jain*

[Signature, Name, Designation and Address]

KAMAL KUMAR JAIN  
CENTRAL TRANSMISSION UTILITY OF INDIA LTD.  
(A Wholly Owned Subsidiary of  
Power Grid Corporation of India Ltd)  
(A Government of India Enterprises)  
Plot No -2, Sector-29, Gurgaon- 122 001 (Haryana)

WITNESSES:

1. For and on behalf of

: BPC

*Ritam Biswas*

[Signature] (RITAM BISWAS)

ASST. MANAGER (ENG.)

RECPDCL

[Insert, Name, Designation and Address of the Witness]

2. For and on behalf of

: Nodal Agency

*Deepak Krishnan*

[Signature]

*Deepak Krishnan, mgr. civil.*  
[Insert Name, Designation and Address of the Witness]



# SCHEDULES

  
Central Transmission Utility of India Limited

76

  
Ratle Kiru Power Transmission Limited



**Schedule: 1****Project Description and Scope of Project****Scope of the Project:**

Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
1.	<p>LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s along with associated bays at Kishtwar S/s</p> <ul style="list-style-type: none"> <li>• 400 kV Kishenpur -Kishtwar (LILO section) shall be on Twin HTLS (with minimum 2100 MVA capacity) configuration</li> <li>• 400 kV Dulhasti -Kishtwar (LILO section) shall be on Twin Zebra configuration</li> <li>• 400 kV line bays at Kishtwar – 2 Nos. (GIS) (line bays at Kishtwar S/s end shall be rated accordingly)</li> </ul>	24 months (24.03.2027)
2.	<p>400 kV Kishenpur-Samba D/C line (Quad) (only one circuit is to be terminated at Kishenpur utilizing 1 No. of 400 kV vacated line bay at Kishenpur S/s (formed with bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur) while second circuit would be connected to bypassed circuit of 400 kV Kishtwar – Kishenpur line (Quad))</p>	
3.	<p>Bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line (Quad), thus forming 400 kV Kishtwar - Samba (Quad) direct line (one ckt)</p>	
4.	<p>1x80 MVar Switchable line reactor at Samba end of 400 kV Kishtwar-Samba 400 kV line-165 km (Quad) [formed after bypassing of 400 kV Kishtwar – Kishenpur line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line (Quad)]</p> <ul style="list-style-type: none"> <li>• 420 kV, 80 MVar switchable line reactors at Samba S/s end– 1 No.</li> </ul>	



## Transmission Service Agreement

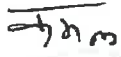
Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
	<ul style="list-style-type: none"> <li>Switching equipment for 420kV, 80 MVAR switchable line reactors at Samba S/s end – 1 No.</li> </ul>	
5.	<p>1x63 MVAR Switchable line reactor on each ckt at Jalandhar end of Kishenpur– Jalandhar D/C direct line -171 km (Twin) (formed after bypassing both ckts of 400 kV Kishenpur – Samba D/C line (Twin) and 400 kV Samba – Jalandhar D/C line (Twin) at Samba and connecting them together to form Kishenpur– Jalandhar D/C direct line (Twin))</p> <ul style="list-style-type: none"> <li>420 kV, 63 MVAR switchable line reactors at Jalandhar S/s end– 2 Nos.</li> <li>Switching equipment for 420kV, 63 MVAR switchable line reactors at Jalandhar S/s end – 2 Nos.</li> </ul>	
6.	<p>400 kV Samba- Jalandhar D/C line (Quad) (only one circuit is to be terminated at Jalandhar utilizing 1 No. of 400 kV vacated line bay at Jalandhar S/s (formed with bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar) while second circuit would be connected to bypassed circuit of Jalandhar – Nakodar 400 kV line (Quad))</p>	
7.	<p>1x80 MVAR Switchable line reactor at Samba end of Samba –Nakodar direct line (Quad) (187km) formed after bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line (Quad Moose), thus forming Samba –Nakodar line (Quad)</p> <ul style="list-style-type: none"> <li>420 kV, 80 MVAR switchable line reactors at Samba S/s end– 1 No.</li> <li>Switching equipment for 420 kV, 80 MVAR switchable line reactors at Samba S/s end – 1 No.</li> </ul>	
8.	<p>Bypassing 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line(Quad Moose), thus forming 400 kV Samba –Nakodar (Quad) direct line</p>	




## Transmission Service Agreement

**Note:**

- *M/s Sterlite shall provide space for 2 Nos. of 400 kV line bays (GIS) at Kishtwar S/s*
- *M/s POWERGRID shall provide space for 1 No. 80 MVAR Switchable line reactor (along with switching equipment) at Samba end of 400 kV Kishtwar-Samba 400 kV line*
- *M/s POWERGRID shall provide space for 2 Nos. 63 MVAR Switchable line reactor (along with switching equipment) at Jalandhar end of Kishenpur-Jalandhar D/C direct line (on each ckt)*
- *M/s POWERGRID shall provide space for 1 No. 80 MVAR Switchable line reactor (along with switching equipment) at Samba end of Samba –Nakodar direct line*

  
Central Transmission Utility of India Limited

79

  
Ratle Kiru Power Transmission Limited



### Project Description

A comprehensive transmission system for evacuation of power from two Hydro Electric Projects (HEPs) viz Ratle (850 MW) and Kiru HEP (624 MW) has been evolved. The scheme includes transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A as well as separate transmission scheme under RTM (Part-B).

The subject transmission scheme i.e. Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A involves implementation of 400 kV Kishenpur-Samba D/C line (Quad) line along with bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad) (forming 400 kV Kishtwar - Samba (Quad) direct line (one ckt)). For onward dispersal of power, 400 kV Samba- Jalandhar D/C line (Quad) is being implemented along with bypassing 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line(Quad Moose) (forming 400 kV Samba –Nakodar (Quad) direct line). The scheme also involves LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s and line reactors at Samba and Jalandhar end.

As part of separate transmission scheme under RTM (Part-B), bypassing of both ckts of 400 kV Kishenpur – Samba D/C line (Twin) and 400 kV Samba – Jalandhar D/C line (Twin) at Samba S/s is being implemented (connecting them together to form 400 kV Kishenpur– Jalandhar D/C direct line (Twin)). Further, reconductoring of 400 kV Kishenpur-Kishtwar section (up to LILO point) (with Twin HTLS) and Bay upgradation works (2000 A to 3150 A) at Samba end is also being implemented as part of this separate scheme.

Above transmission scheme was agreed in the 26th and 28th CMETS-NR meeting held on 20.12.23 and 27.03.24 and 72nd NRPC meeting held on 30.03.24. Transmission System was further agreed in 20th National Committee on Transmission (NCT) held on 25.06.24. Subsequently, Ministry of Power, Government of India, vide its Gazette Notification 3229 dated 21.08.2024 declared establishment of Transmission scheme for evacuation of power from Ratle HEP (850 MW) and Kiru HEP (624 MW): Part-A through tariff based competitive bidding process route





**SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINES**

- A.1.0 The design, routing and construction of transmission lines shall be in accordance with Chapter V, Part-A of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time. Other CEA Regulations and MoP guidelines, as applicable, shall also be followed.

The technical parameters indicated in this document are applicable for up to an altitude of 1000 m above mean sea level. However, altitude exceeding 1000 m above mean sea level, necessary altitude correction factor (as applicable) as per relevant standard shall be considered by the TSP.

- A.2.0 Selection of tower type shall be made as per CEA Regulations, however in case lattice type towers are used, the following shall also be applicable:
- A.2.1 Steel section of grade E 250 and/or grade E 350 as per IS 2062, only are permitted for use in towers, extensions, gantry structures and stub setting templates. For towers in snowbound areas, steel sections shall conform to Grade-C of IS-2062.
- A.2.2 Towers shall be designed as per IS-802:2015, however the drag coefficient of the tower shall be as follows: -

Solidity Ratio	Drag Coefficient
Up to 0.05	3.6
0.1	3.4
0.2	2.9
0.3	2.5
0.4	2.2
0.5 and above	2.0

- A.3.0 Transmission Service Provider (TSP) shall adopt any additional loading/design criteria for ensuring reliability of the line, if so desired and /or deemed necessary.
- A.4.0 Transmission line shall be designed considering wind zones as specified in wind map given in National Building Code 2016, Vol.1. The developer shall also make his own assessment of local wind conditions and frequent occurrences of high intensity winds (HIW) due to thunderstorms, dust-storms, downburst etc. along the transmission line route and wherever required, higher wind zone than that given in wind map shall be considered for tower design for ensuring reliability of line. Further, for the transmission line sections passing within a distance of 50 km from the boundary of two wind zones, higher of the two wind zones shall be considered for the design of towers located in such sections.

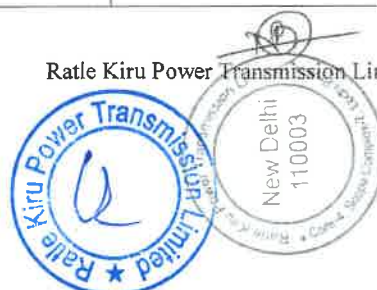
## Transmission Service Agreement

- A.5.0 Selection of reliability level for design of tower shall be as per CEA Regulation (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.
- A.6.0 A) Under crossing of the existing transmission line of same Voltage shall not be allowed. In the case where it is inevitable to under-cross the existing transmission line then TSP shall seek prior approval from Chief Electrical Inspector, CEA with detailed study ensuring that all statutory electrical clearances and Electric Field limit of 10 kV/m at 1 m and 1.8 m from ground level is not violated.
- B) For power line crossing of 400 kV or above voltage level, large angle and dead end towers (i.e. D/DD/QD) shall be used on either side of power line crossing.
- C) For power line crossing of 132 kV and 220 kV voltage level, angle towers (B/C/D/DB/DC/DD/ QB/QC/QD) shall be used on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.
- D) For power line crossing of 66 kV and below voltage level, suspension/tension towers shall be provided on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.
- E) For crossing of railways, national highways and state highways, the rules/regulations of appropriate authorities shall be followed.
- A.7.0 (a) The relevant conductor configuration shall be as follows: -

Type of conductor: ACSR / AAAC / AL59

Basic parameters:

Transmission line	ACSR Conductor specified	Equivalent AAAC conductor based on 53% conductivity of Al Alloy	Equivalent minimum size of AL59 conductor based on 59% conductivity of AL Alloy*	Sub-conductor Spacing
400 kV D/C (Quad Bundle) Transmission lines	<b>Moose: Stranding</b> 54/3.53 mm-Al + 7/3.53 mm-Steel, 31.77 mm	<b>Stranding details:</b> 61/3.55 mm  31.95 mm	<b>Stranding details:</b> 61/3.31 mm  29.79 mm	457 mm



## Transmission Service Agreement

Transmission line	ACSR Conductor specified	Equivalent AAAC conductor based on 53% conductivity of Al Alloy	Equivalent minimum size of AL59 conductor based on 59% conductivity of AL Alloy*	Sub-conductor Spacing
	diameter 528.5 mm <sup>2</sup> , Aluminium area,  Maximum DC Resistance at 20°C (Ω/km): 0.05552  Minimum UTS: 161.20 kN	diameter; 604 mm <sup>2</sup> Aluminium alloy area  Maximum DC Resistance at 20°C (Ω/km): 0.05506  Minimum UTS: 159.80 kN	diameter; 525 mm <sup>2</sup> Aluminium alloy area  Maximum DC Resistance at 20°C (Ω/km): 0.0566  Minimum UTS: 124.70 kN	
400 kV D/C (Twin Bundle) Transmission lines	<b>Zebra: Stranding</b> 54/3.18 mm-Al + 7/3.18 mm-Steel,  28.62 mm diameter;  428 mm <sup>2</sup> Aluminium area,  Maximum DC Resistance at 20°C (Ω/km): 0.06868  Minimum UTS: 130.32 kN	<b>Stranding details:</b> 61/3.19 mm,  28.71 mm diameter;  487.5 mm <sup>2</sup> Aluminium alloy area  Maximum DC Resistance at 20°C (Ω/km): 0.06815  Minimum UTS: 135.6 kN	<b>Stranding details:</b> 61/3.08 mm,  27.72 mm diameter;  454 mm <sup>2</sup> Aluminium alloy area  Maximum DC Resistance at 20°C (Ω/km): 0.0653  Minimum UTS: 108 kN	450 mm

**Note:**

Central Transmission Utility of India Limited

83

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

1. \*To select any size above the minimum, the sizes mentioned in the Indian standard IS-398 (part-6) should be followed.
  2. The transmission lines shall have to be designed for a maximum operating conductor temperature of 85 °C.
- (b) Type of conductor: HTLS (High Temp and Low Sag)

Transmission Line	Basic parameter of single conductor			Sub-conductor Spacing (mm)
	Minimum Ampacity of HTLS conductor	Minimum Conductor diameter (mm)	Maximum DC Resistance at 20°C (Ω/km)	
400 kV Transmission line with Twin HTLS conductor	1516 A	28.62	0.05552	450

- A.8.0 The required phase to phase spacing and horizontal spacing for 400 kV line(s) shall be governed by the tower design as well as minimum live metal clearances for 400 kV voltage level under different insulator swing angles. However, the phase to phase spacing for 400 kV lines shall not be less than 8 m respectively.
- A.9.0 All electrical clearances including minimum live metal clearance, ground clearance and minimum mid span separation between earth wire and conductor as given below shall be considered:

**Minimum live metal clearances for 400 kV line:**

- a) (i) Under stationary conditions:

From tower body: 3.05 m

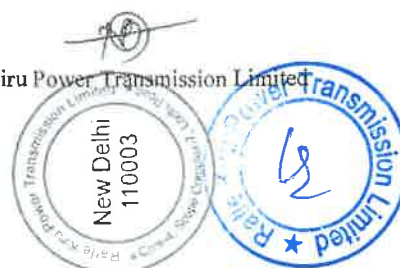
- (ii) Under Swing conditions

Wind Pressure Condition	Minimum Electrical Clearance
a) Swing angle (22°)	3.05 m
b) Swing angle (44°)	1.86 m

- b) Minimum ground clearance: 8.84 m
- c) Minimum mid span separation between earth wire and conductor: 9.0 m

A.10.0 Shielding angle shall not exceed 20 deg for 400 kV transmission line.

A.11.0 The Fault current for design of line shall be 63 kA for 1 sec for 400 kV.



## Transmission Service Agreement

- A.12.0 In case of 400 kV voltage class lines, at least one out of two earth wires shall be OPGW and second earth wire, if not OPGW, shall be either of Galvanized Stranded Steel (GSS) or Aluminum Alloy Conductor Steel Reinforced (AACSR) conductor type or any other suitable conductor type depending upon span length and other technical consideration.
- A.13.0 Each tower shall be earthed such that the tower footing impedance does not exceed 10 ohm. Pipe type or Counterpoise type earthing shall be provided in accordance with relevant IS. Additional earthing shall be provided on every 7 to 8 km distance for direct earthing of both shield wires. If site condition demands, multiple earthing or use of earthing enhancement compound shall be used.
- A.14.0 Pile type foundation shall be used for towers located in river or creek bed or on bank of river having scourable strata or in areas where river flow or change in river course is anticipated, based on detailed soil investigation and previous years' maximum flood discharge of the river, maximum velocity of water, highest flood level, scour depth and anticipated change in course of river based on river morphology data of at least past 20 years to ensure availability and reliability of the transmission line.
- A.15.0 Transmission line route shall be finalized, in consultation with appropriate authorities so as to avoid the habitant zones of endangered species and other protected species. Bird diverters, wherever required, shall be provided on the line.
- A.16.0 Wherever, the transmission lines are passing through cyclone prone areas (i.e. areas up to 60 km from coast)/ creek regions/ aggressive soil areas following shall also be applicable:
- a) The fabricated tower parts and stubs shall have a minimum overall zinc coating of 900 g/m<sup>2</sup> of surface area except for plates and sections below 5 mm which shall have a minimum overall zinc coating of 610 g/ m<sup>2</sup> of surface area. The average zinc coating for all sections and plates 5 mm and above shall be maintained as 127 microns and that for plates and sections below 5 mm shall be maintained as 87 micron.
  - b) Ready mix concrete of M30 Grade shall be used to avoid use of locally available saline water. However, design mix concrete of M30 Grade conforming to IS 456 with potable water can be used at locations where transportation of ready-mix concrete is not feasible. The minimum cement content in any case shall not be less than 330 kg/m<sup>3</sup>.
  - c) The surface of the reinforced steel shall be treated with epoxy-based coating to enhance corrosion performance of the foundation. Use of epoxy coated reinforcement in foundation shall be as per IS 13620. In addition, two (2) coats of bituminous painting of minimum 1.6 kg/m<sup>2</sup> per coat shall be applied on all exposed faces of foundation (i.e. pedestal





## Transmission Service Agreement

and base slab).

- d) Double coat 20 mm thick cement plaster shall be provided on all exposed concrete surface as well up to 300 mm below ground level to give protection to concrete surface from environmental and saline effect.
  - e) Before coping of chimney top portion, three coats of anti-corrosive paint of minimum 30-35 micron dry film thickness each shall be applied on the stub in the 50 mm coping portion as well as up to 350 mm above CL portion.
- A.17.0 The raised chimney foundation is to be provided in areas prone to flooding/water stagnation like paddy field /agricultural field and undulated areas to avoid direct contact of water with steel part of tower. The top of the chimney of foundation should be at least above High Flood Level (HFL) or the historical water stagnation/ logging level (based on locally available data) or above High Tide Level or 500 mm above Natural Ground level (whichever is higher).
- A.18.0 Routing of transmission line through protected areas of India shall be avoided to the extent possible. In case, it is not possible to avoid protected areas, the towers of the transmission line upto 400 kV level which are installed in protected areas shall be designed for Multi-circuit (4 circuits) configuration of same voltage level considering reliability level of at least two (2). The top two circuits of these multi-circuit towers shall be used for stringing of the transmission line under present scope and the bottom two circuits shall be made available for stringing of any future transmission line of any transmission service providers/ State transmission utilities/Central transmission utilities passing through the same protected area. Further, the configuration and coordinates of such transmission towers shall be submitted to CEA, CTU and BPC by the TSP.
- A.19.0 The TSP shall abide by the Guidelines of CEA w.r.t. shifting of transmission lines for NHAI projects and other projects.
- A.20.0 Safety precautions in regard to gas/oil pipelines in vicinity of Transmission lines shall be taken in coordination with gas/ petroleum authorities.
- A.21.0 The stringing of the transmission line in forest area shall be carried out through drone.
- A.22.0 RoW width and Span in different terrain shall be as per Schedule VII of CEA (Technical Standards for Construction of Electrical plants and Electric Lines) Regulations 2022 and RoW guidelines issued vide CEA-PS-14-86/2/2019-PSETD Division dated 24.09.2024.

Central Transmission Utility of India Limited

86

Ratle Kiru Power Transmission Limited





**SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION**

**Extension of 400 kV Kishtwar** substation shall be GIS type generally conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

**Extension of 400 kV Kishenpur, Extension of 400 kV Samba and Extension of 400 kV Jalandhar** substation shall be AIS type generally conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

The technical parameters indicated in this document are applicable for installations up to an altitude of 1000 m above mean sea level. In case, the altitude exceeds 1000 m above mean sea level, necessary altitude correction factor as per relevant standard shall be considered by the TSP.

Other CEA Regulations and MoP guidelines as amended up to date, as applicable, shall also be followed.

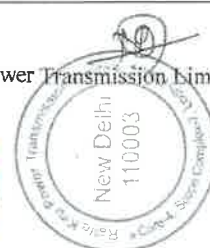
**B.1.0 Salient features of Substation Equipment and Facilities**

The design and specification of substation equipment are to be governed by the following factors:

**B.1.1 Insulation Coordination**

The system design parameters for substations/switchyards shall be as given below:

Sl. No.	Description of parameters	Extn. of 400 kV Kishtwar / Kishenpur / Samba/ Jalandhar S/s
		400 kV System
1.	System operating voltage	400 kV
2.	Maximum voltage of the system (rms)	420 kV
3.	Rated frequency	50 Hz
4.	No. of phases	3
5.	Rated Insulation levels	
i)	Lightning Impulse withstand voltage for (1.2/50 micro sec.)	
	- for Equipment other than Transformer and Reactor	1425 kVp
	- for Insulator String	1550 kVp



## Transmission Service Agreement

Sl. No.	Description of parameters	Extn. of 400 kV Kishtwar / Kishenpur / Samba/ Jalandhar S/s
		400 kV System
ii)	Switching Impulse withstand voltage (250/2500 micro sec.) dry and wet	1050 kVp
iii)	One-minute power frequency dry withstand voltage (rms)	630 kV (650 kV for GIS)
iv)	One minute power frequency dry and wet withstand voltage (rms)	-
6.	Corona extinction voltage	320 kV
7.	Max. radio interference voltage for frequency between 0.5 MHz and 2 MHz	1000 micro-volts at 266 kV rms
8.	Minimum creepage distance for insulator string/ longrod insulators/ outdoor bushings	13020 mm (31mm/kV)
9.	Minimum creepage distance for switchyard equipment	10500mm (25 mm/kV)
10.	Max. fault current	63 kA
11.	Duration of fault	1 Sec

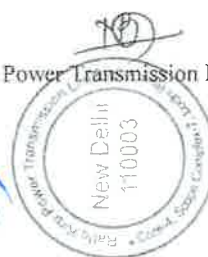
**B.1.2 Switching Scheme**

The switching schemes, as mentioned below, shall be adopted at various voltage levels of substation/switchyard:

Substation	400 kV side
Extn. of 400 kV Kishtwar S/s	One and Half Breaker
Extn. of 400 kV Kishenpur S/s	One and Half Breaker
Extn. of 400 kV Samba S/s	One and Half Breaker
Extn. of 400 kV Jalandhar S/s	One and Half Breaker

**Notes: -**

- (i) For one and half breaker switching scheme, any double circuit line consisting of two numbers of feeders and originating from the transmission or generating switchyard shall not be terminated in one diameter.
- (ii) Two transformers of same HV rating shall not be connected in the same diameter and similarly, two bus reactors of same HV rating shall also not be connected in the same diameter.
- (iii) A diameter in one and half breaker scheme is a set of 3 circuit breakers with associated isolators, earth switches, current transformers etc. for controlling 2 (two) numbers of feeders.



## Transmission Service Agreement

- (iv) Connection arrangement of Switchable Line reactors shall be such that it can be used as Line reactor as well as Bus reactor with suitable NGR bypass arrangement.
- (v) TSP shall plan distribution of line and transformer feeders to bus bar in such a way that all power can be evacuated successfully without crossing the thermal limit at any point of bus bar.
- (vi) For termination of LILO of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar (GIS) S/s, both circuits shall be terminated in a new diameter. Accordingly, 1 (one) number new diameter [consisting of two Main and associated Tie Bay (i.e bay No.16,17 and 18)] shall be constructed under present scope at Kishtwar. Further, all associated interconnection work shall also be in the present scope of TSP.

**B.2.0 Substation Equipment and facilities:**

The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All equipment shall be designed considering the following capacity.

Sl. No	Description of bay	Extn. of 400 kV Kishtwar S/s	Extn. of 400 kV Kishenpur S/s	Extn. of 400 kV Samba S/s	Extn. of 400 kV Jalandhar S/s
		400 kV	400 kV	400 kV	400 kV
1.	Bus Bar	As per existing	As per existing	As per existing	As per existing
2.	Line bay	3150 A	3150 A	3150 A	3150 A
3.	Switched Line Reactor Bay	--	--	3150 A	3150 A

**B.2.1 420 kV, 3-phase, Shunt Reactor**

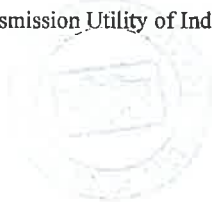
63 MVAR, 420 kV, 3-Phase Reactor shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class)" available on CEA website and as amended up to date.

80 MVAR, 420 kV, 3-Phase Reactor shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class)" available on CEA website and as amended up to date.

  
Central Transmission Utility of India Limited

89

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

The resistive value of NGR for Samba end of 400 kV Kishtwar – Samba line (Quad) shall be considered 300 ohms.

The resistive value of NGR for each circuit at Jalandhar end of 400 kV D/C Kishenpur – Jalandhar direct line (Twin) shall be considered 300 ohms.

The resistive value of NGR for Samba end of 400 kV Samba-Nakodar direct line (Quad) shall be considered 300 ohms.

## **B.2.2 400 kV AIS Substation equipment (as applicable)**

### **B.2.2.1 Circuit Breakers (AIS)**

The circuit breakers and accessories shall conform with IEC: 62271-100, IEC: 62271-1 and shall be of SF<sub>6</sub> Type. The circuit breakers shall be of class C2-M2 (as per IEC) with regard to restriking probability during capacitive current breaking and mechanical endurance. The rated break time shall not exceed 40 ms for 400 kV circuit breakers. 400 kV Circuit breakers shall be provided with single phase and three phase auto reclosing. Each breaker would have two sets of trip circuits which would be connected to separate DC supplies for greater reliability. The Circuit breakers controlling 400 kV lines shall be provided with pre insertion closing resistor of about 400 ohms with 8 ms insertion time or Controlled Switching Device (CSD) for lines longer than 200 km. The short line fault capacity shall be same as the rated capacity and this is proposed to be achieved without use of opening resistors. The controlled switching device shall be provided in Circuit breakers of switchable line reactor and in Main and Tie circuit breakers of line with non-switchable line reactors and Bus reactors and 765/400 kV Transformers.

### **B.2.5.2 Isolators (AIS)**

The isolators shall comply with IEC 62271-102 in general. The 400 kV isolators shall be double break type. All isolators and earth switches shall be motor operated. Earth switches shall be provided at various locations to facilitate maintenance. Isolator rated for 400 kV shall be of extended mechanical endurance class - M2 as per IEC-62271-102. Main blades and earth blades shall be interlocked and interlock shall be fail safe type. 400 kV earth switch for line isolator shall be suitable for induced current switching duty as defined for Class-B.

### **B.2.5.3 Current Transformers (AIS)**

Current Transformers shall comply with IEC 61869 in general. All ratios shall be obtained by secondary taps only. Generally, Current Transformers (CT) for 400 kV shall have six cores (four for protection and two for metering). The burden and knee point voltage shall be in accordance with the requirements

Central Transmission Utility of India Limited

90

Ratle Kiru Power Transmission Limited



of the system including possible feeds for telemetry. The accuracy class for protection core shall be PX and for metering core it shall be 0.2S. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 20 VA for metering core) for better sensitivity and accuracy. The instrument security factor shall be less than 5 for CTs up to 400 kV.

#### **B.2.5.4 Capacitive Voltage Transformers (AIS)**

Capacitive Voltage Transformers shall comply with IEC 61869 in general. These shall have three secondaries out of which two shall be used for protection and one for metering. The accuracy class for protection cores shall be 3P and for metering core shall be 0.2. The Capacitive Voltage Transformers on lines shall be suitable for Carrier Coupling. The Capacitance of CVT for 400 kV shall be of 4400/8800 pF depending on PLCC requirements. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 50 VA for metering core) for better sensitivity and accuracy.

#### **B.2.5.5 Surge Arresters (AIS)**

336 kV Station High (SH) duty duty gapless type Surge arresters with thermal energy (Wth) of minimum 12 kJ/kV conforming to IEC 60099-4 in general shall be provided for 420 kV systems. Other characteristics of Surge arrester shall be chosen in accordance with system requirements. Surge arresters shall be provided at line entrances, near Transformers and Reactors to achieve proper insulation coordination. Surge Arresters shall be provided with porcelain/polymer housing fitted with pressure relief devices. A leakage current monitor with surge counter shall be provided with each surge arrester.

#### **B.2.6 400 kV GIS Substation equipment (as applicable)**

GIS (Gas Insulated Switchgear) shall be Indoor type in accordance to IEC: 62271-203. The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All the switchgear such as Circuit Breaker, Isolator, Earth switch including CT, PT etc. shall be GIS type. The Surge Arrester and Voltage Transformer shall be either GIS or outdoor AIS type.

The GIS assembly shall consist of separate modular compartments e.g. Circuit Breaker compartment, Bus bar compartment filled with SF6 Gas and separated by gas tight partitions so as to minimize risk to human life, allow ease of maintenance and limit the effects of gas leaks failures and internal arcs etc. These compartments shall be designed to minimize the risk of damage to adjacent sections and protection of personnel in the event of a failure occurring within the compartments. Rupture diaphragms with suitable





## Transmission Service Agreement

deflectors shall be provided to prevent uncontrolled bursting pressures developing within the enclosures under worst operating conditions, thus providing controlled pressure relief in the affected compartment. The arrangement of gas sections or compartments shall be such as to facilitate future extension of any make without any drilling, cutting or welding on the existing equipment. To add equipment, it shall not be necessary to move or dislocate the existing switchgear bays. The layout of Gas Insulated Bus Ducts shall be properly planned to optimize the length of bus ducts and for easy accessibility for maintenance. The length of busbars, bus ducts, isolator sections shall be optimized considering effects of fast transient voltage due to isolator operations.

The bus bar modules including auxiliary bus modules (wherever applicable) shall be provided with suitable End Piece (Interface) module on both sides with the test link facility for future extension as per provisions of future requirements. The end piece module shall be designed in such a way so that future GIS modules may be tested without extending test voltage to existing bus and vice-versa by removing the test link.

TSP shall make available the complete details for the design of interface module such as cross section, enclosure material, enclosure dimensions (inner and outer), Flange diameter (inner and outer), conductor cross-section and connection arrangement, bolt spacing and dimension, rated gas pressure, Gasket detail etc. Further, adequate space for GIS busbar interface module shall be taken into account for future scope.

Each section shall have plug-in or easily removable connection pieces to allow for easy replacement of any component with the minimum disturbance to the remainder of the equipment. Inspection windows (View Ports) shall be provided for Disconnect Switches and both type of earth switches i.e. Maintenance and fast operating.

Local Control Cabinets (LCC) shall be provided as per requirement. The alarm and annunciation of GIS equipment shall be wired to the SCADA System.

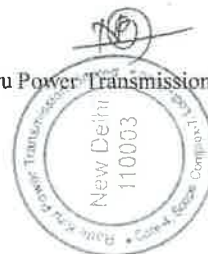
The material and thickness of the enclosures shall be such as to withstand an internal flashover without burns through for a period of 300 ms at rated short time withstand current. The material shall be such that it has no effect of environment as well as from the by-products of SF6 breakdown under arcing conditions. This shall be validated with Type Test.

**Service continuity requirement for GIS:**

Central Transmission Utility of India Limited

92

Ratle Kiru Power Transmission Limited





## Transmission Service Agreement

The GIS equipment with the given bus switching arrangement shall be divided into different gas compartments. During the work such as a fault repair or major maintenance, requiring the dismantling of a gas compartment for which more than one compartments may need to be de-gassed.

TSP shall meet following Service continuity conditions (to the extent possible) with ensuring equipment and operating personnel's safety:

- For One and half breaker bus switching scheme, during a fault in Circuit Breaker compartment, no bus bar and feeder is permitted out of service during maintenance and repair/replacement.
- For Double Main bus switching scheme, during a fault in Circuit Breaker compartment, no bus bar is permitted out of service during maintenance and repair/replacement.
- During a fault in a GIS compartment other than Circuit Breaker compartment, maximum one bus bar and/or one feeder is permitted out of service during maintenance and repair/replacement.

UHF sensors in GIS for PD (Partial Discharge) detection:

The adequate number of Ultra High Frequency (UHF) sensors shall be provided in the offered GIS along with suitable portable type Partial Discharge (PD) measuring instrument for detection of Partial discharge (of 5 pC and above as per IEC 60270). The number and location of these sensors shall be based on laboratory tests on the typical design of GIS as per recommendations of CIGRE Document No. 654 (Application Guide for sensitivity verification for UHF Partial discharge detection system for GIS).

### B.2.6.1 CIRCUIT BREAKERS (GIS)

GIS Circuit breakers shall in general be of C2-M2 class and comply with IEC-62271-100. The rated break time shall not exceed 40 ms for 400 kV. Circuit breakers shall be provided with single phase and three phase auto reclosing. Each breaker would have two sets of trip circuits which would be connected to separate DC supplies for greater reliability. The Circuit breakers controlling 400 kV lines wherever required shall be provided with pre-insertion closing resistor of about 400 ohms with 8 ms insertion time or Controlled Switching Device (CSD) for lines longer than 200 km. The short line fault capacity shall be same as the rated capacity and this is proposed to be achieved without use of opening resistors. Control switching device shall be provided in the Circuit Breaker of switchable line reactor bay and in Main and Tie bay circuit breakers of line with non-switchable line reactors, Bus reactors and Transformer.

Central Transmission Utility of India Limited

93

Rate Kiru Power Transmission Limited



**B.2.6.2 ISOLATORS (GIS)**

The isolators shall comply with IEC 62271-102 in general. Earth switches shall be provided at various locations to facilitate maintenance. Main blades and earth blades shall be interlocked and interlock shall be fail safe type. All isolators and earth switches shall be motor operated type.

The isolator shall be of extended mechanical endurance class-M2 as per IEC standards. High speed earthing switches shall be provided for grounding purposes at overhead line terminations and cable terminations and shall have fault making capability as specified. Earth switch for line isolator shall be of earthing switch class E1 and shall be suitable for induced current switching duty as defined for Class-B as per relevant standard.

**B.2.6.3 CURRENT TRANSFORMERS (GIS)**

Current Transformers shall comply with IEC 61869 in general. All ratios shall be obtained by secondary taps only. For 400 kV and above voltage class, generally Current Transformers (CT) shall have five cores (four for protection and one for metering) whereas; CT in Tie bays shall have six cores (four for protections and two for metering) suitably distributed on both sides of CB. The burden and knee point voltage shall be in accordance with the requirements of the system including possible feeds for telemetry. The accuracy class for protection core shall be PX and for the metering core it shall be 0.2S. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 20 VA for metering core) for better sensitivity and accuracy.

The instrument security factor shall be less than 5 for CTs up to 400 kV voltage class.

**B.2.6.4 VOLTAGE TRANSFORMERS (GIS)**

The voltage transformers shall conform to IEC-61869. Voltage transformers shall be of electromagnetic type with SF<sub>6</sub> gas insulation. The earth end of the high voltage winding and the ends of the secondary winding shall be brought out in the terminal box. The voltage transformers shall be located as a separate bay module and will be connected phase to ground and shall be used for protection, metering and synchronization. The voltage transformers shall be of inductive type, nonresistant and shall be contained in their own-SF<sub>6</sub> compartment, separated from other parts of installation. The voltage transformer shall be effectively shielded against high frequency electromagnetic transients. The voltage transformer shall have three secondary windings out of which two shall be used for protection and one for

Central Transmission Utility of India Limited



94 Ratle Kiru Power Transmission Limited



metering. The voltage transformer should be thermally and dielectrically safe when the secondary terminals are loaded with the guaranteed thermal burdens. The accuracy class for protection cores shall be 3P. The accuracy of 0.2 on metering core should be maintained throughout the entire burden range on all the three windings without any adjustments during operation. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 50 VA for metering core) for better sensitivity and accuracy.

#### **B.2.6.5 SURGE ARRESTERS (GIS)**

336kV Station High (SH) duty gapless type Surge arresters with thermal energy ( $W_{th}$ ) of minimum 12 kJ/kV conforming to IEC 60099-4 in general shall be provided for 420 kV. Other characteristics of Surge arrester shall be chosen in accordance with system requirements. Surge arresters shall be provided at line entrances, near Transformers and Reactors so as to achieve proper insulation coordination. Surge Arresters shall be provided with porcelain/ polymer housing fitted with pressure relief devices. A leakage current monitor with surge counter shall be provided with each surge arrester.

#### **B.2.6.6 SF<sub>6</sub> TO AIR BUSHING**

Outdoor bushings, for the connection of conventional external conductors to the SF<sub>6</sub> metal enclosed switchgear, shall be provided. Bushings shall generally be in accordance with the requirements of IEC-60137. The creepage distance over the external surface of outdoor bushings shall not be less than 31 mm/kV. SF<sub>6</sub> to air Bushing shall be of Polymer/ Composite type and shall be robust and designed for adequate cantilever strength to meet the requirement of seismic conditions. The electrical and mechanical characteristics of bushings shall be in accordance with IEC 60137. Polymer/ Composite insulator shall be seamless sheath of silicon rubber compound. The housing and weather sheds should have silicon content of minimum 30% by weight. It should protect the bushing against environmental influences, external pollution and humidity. The hollow silicon composite insulators shall comply with the requirements of IEC 61462 and the relevant parts of IEC 62217.

#### **B.2.7 Protection Relaying and Control System**

The protective relaying system proposed to be provided for transmission lines, auto-transformers, reactors and bus bars to minimize the damage to the equipment in the events of faults and abnormal conditions, is dealt in this section. All main protective relays shall be numerical type with IEC 61850 communication interface and should have interoperability during integration of numerical relays to communicate over IEC 61850 protocol with



## Transmission Service Agreement

RTU/SAS/IEDs of different OEMs. All numerical relays shall have built in disturbance recording feature.

The protection circuits and relays of the transformer and reactor shall be electrically and physically segregated into two groups each being independent and capable of providing uninterrupted protection even in the event of one of the protection groups failing, to obtain redundancy, and to take protection systems out for maintenance while the equipment remains in service.

**a) Transmission Lines Protection**

400 kV shall have Main-I numerical three zone distance protection scheme with carrier aided inter-tripping feature. 400 kV lines shall also have Main-II numerical distance protection scheme like Main-I but from different make that of Main-I. The Main-I and Main-II protection relays of same make may be provided only if they are of different hardware and manufacturing platform or different principle of operation.

However, Line Current Differential relay (with back up distance protection feature) as Main-I and Main-II shall be considered at both ends for short lines (line length below 30 km) having Fiber Optic Communication Link. Differential relay at remote end shall be provided by the TSP. Associated power and control cabling and integration with SAS at remote end shall be provided by respective bay owner.

In case of loop in loop out of transmission lines, the existing protection scheme shall be studied and suitable up-gradation (if required) shall be carried out.

Further, all 400 kV lines shall be provided with single and three phase auto-reclosing facility to allow reclosing of circuit breakers in case of transient faults. These lines shall also be provided with distance to fault locators to identify the location of fault on transmission lines.

All 400 kV lines shall also be provided with two stages over voltage protection. Over voltage protection and distance to fault locator may be provided as in-built feature of Main-I and Main-II protection relays. Auto reclose as built-in function of Bay Control Unit (BCU) is also acceptable.

The Main-I and Main-II protection relays shall be fed from separate DC sources and shall be mounted in separate panels.

For 400 kV transmission lines, directional IDMT earth fault relay should be provided as standalone unit or in-built feature of Main-I and Main -II feature.

  
Central Transmission Utility of India Limited

96

Ratle Kiru Power Transmission Limited





**b) 400 kV Reactor Protection**

Reactor shall be provided with the following protections:

- i) Numerical Differential Protection.
- ii) Numerical Restricted Earth Fault Protection
- iii) Numerical Back-up Impedance Protection

Besides these, reactors shall also be provided with Buchholz relay, MOG with low oil level alarm, protection against oil and winding temperatures and pressure relief device, etc.

**c) Bus Bar Protection**

The high-speed low impedance type bus bar differential protection, which is essential to minimize the damage and maintain system stability at the time of bus bar faults, shall be provided for 400 kV buses. Duplicated bus bar protection is envisaged for 400 kV bus-bar protection. Bus bar protection scheme shall be such that it operates selectively for each bus and incorporate necessary features required for ensuring security. The scheme shall have complete bus bar protection for present as well as future bays envisaged i.e. input / output modules for future bays shall also be provided.

Bus Bar protection system for new substation shall be de-centralized (distributed) type.

In case, the bus section is provided, then each side of bus section shall have separate set of bus bar protection schemes.

For existing substations, the existing bus bar protection shall be augmented as per requirement.

**d) Local Breaker Back up Protection**

This shall be provided for each 400 kV circuit breakers and will be connected to de-energize the affected stuck breaker from both sides.

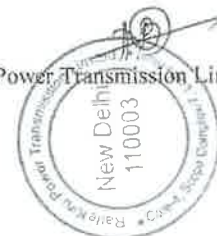
*Notes:*

1. LBB and REF relays shall be provided separately from transformer differential relay.
2. LBB relay may also be provided as built-in protection function of distributed bus bar protection scheme; however, in such case separate LBB relay shall be provided for tie bays (in case of One and Half breaker scheme).

Central Transmission Utility of India Limited

97

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

3. *Over fluxing and overload protection can be provided as built-in feature of differential relay.*
4. *In 765 kV and 400 kV switchyard, if spare bay of half diameter is identified as future, Tie CB relay panel shall be with Auto-reclosure feature.*

**B.2.8 Substation Automation System**

- a) For all the new substations, state of art Substation Automation System (SAS) conforming to IEC-61850 shall be provided. The distributed architecture shall be used for Substation Automation system, where the controls shall be provided through Bay control units. The Bay control unit is to be provided bay wise for voltage level 220 kV and above. All bay control units as well as protection units are normally connected through an Optical fibre high speed network. The control and monitoring of circuit breaker, dis-connector, re-setting of relays etc. can be done from Human Machine Interface (HMI) from the Control Room.

The functions of control, annunciation, disturbance recording, event logging and measurement of electrical parameters shall be integrated in the Substation Automation System.

At new substations, the Substation Automation System (SAS) shall be suitable for the operation and monitoring of the complete substation including proposed future bays/elements.

In existing substations with a Substation Automation System (SAS), augmentation of existing SAS shall be done for bays under the present scope.

In existing Substations where Substation automation is not provided, control functions shall be done through control panels.

Necessary gateway and modems (as required) shall be provided to send data to RLDC/SLDC as per their requirement and shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation. Accordingly, all the hardware for communication services of station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs. Any augmentation work at RLDC/SLDC is excluded from TSP's scope. However, all the configuration





## Transmission Service Agreement

work at substation end required to send data to RLDC/SLDC shall be in the scope of TSP.

**b) Time Synchronization Equipment**

Time synchronization equipment complete in all respects including antenna, cable and processing equipment required to receive time signal through GPS or from National Physical Laboratory (NPL) through INSAT shall be provided at new substations. This equipment shall be used to synchronize SAS and IEDs etc.

**B.3.0 Substation Support Facilities**

Certain facilities required for the operation and maintenance of substations as described below shall be provided at the new substation. In existing substation, these facilities have already been provided and will be extended/ augmented as per requirement.

**B.3.1 AC and DC power supplies**

For catering the requirements of three phase and single-phase AC supply and DC supply for various substation equipment, for substation extensions, existing facilities shall be augmented as required.

**B.3.2 Fire Fighting System**

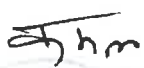
Fire-fighting system for substation including Transformer and Reactor shall conform to CEA (Measures Relating to Safety and Electric Supply) Regulations, 2023 as amended from time to time.

Further, adequate water hydrants and portable fire extinguishers shall be provided in the substations. The main header of the firefighting system shall be suitable for extension to bays covered under the future scope; necessary piping interface in this regard shall be provided.

At existing substations, the fire-fighting systems as available shall be augmented/ extended to meet the additional requirements.

**B.3.3 Oil evacuating, filtering, testing and filling apparatus**

To monitor the quality of oil for satisfactory performance of Transformers, Shunt Reactors and for periodical maintenance necessary oil evacuating, filtering, testing and filling apparatus would be provided at new substations. Oil storage tanks of adequate capacities for storage of transformer oil would be provided.

  
Central Transmission Utility of India Limited

99

  
Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

Online Transformer Oil Drying Out System shall be provided in line with the provisions of Standard Specification and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class) as amended up to date available on CEA website.

**B.3.4 Illumination**

Normal and emergency AC and DC illumination shall be provided adequately in the control room and other buildings of the substation. The switchyard shall also be provided with adequate illumination.

The lighting of the entire control room building, fire-fighting pump house, other building (if any) and switchyard shall be done by LED based low power consumption luminaries.

**B.3.5 Control Room**

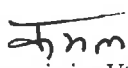
For the new substation, substation control room shall be provided to house substation work stations for station level control (SAS) along with its peripheral and recording equipment, AC and DC distribution boards, DC batteries and associated battery chargers, Fire Protection panels, Telecommunication panels and other panels as per requirements. Air conditioning shall be provided in the building as functional requirements. Main cable trenches from the control room shall have adequate space provision for laying of cables from the control room for all the future bays.

At existing substations, the adequacy of size of control room shall be ascertained and the same shall be augmented as per requirement.

**B.3.6 GIS hall**

The Gas Insulated Switchgear (GIS) of each voltage level along with other associated equipment shall be housed inside separate GIS building. The panels i.e. Bay level units, bay mimic, relay and protection panels, RTCC panels, PLCC panels, panels for tele-communication system etc. are to be placed in a separate room in the GIS building. The size of the room shall be such that all the panels for the bays under present scope shall be accommodated. The panel room shall be air-conditioned. Further, the temperature of the room shall be monitored through substation automation system by providing necessary temperature transducers. Ventilation system of suitable capacity shall be provided for each GIS hall.

One EOT Crane of suitable capacity for Erection and Maintenance of largest GIS component/assembly and all plant installed in the GIS switchgear room shall be provided in each GIS hall. The crane shall be capable of fulfilling all special

  
Central Transmission Utility of India Limited

100

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

requirements for erection and maintenance of GIS equipment. The capacity of the crane shall be sized to lift the heaviest GIS switchgear component.

For extension of existing GIS, existing facilities shall be suitably augmented/extended for GIS equipment under present scope.

**B.3.7 Control Concept**

All the EHV circuit breakers in substation/switching stations shall be controlled and synchronized from the switchyard control room/remote control center. All the isolators shall have control from remote/local whereas the earth switches shall have local control only.

**B.3.8 Visual monitoring system (VMS) for watch and ward of substation premises:**

Visual monitoring system for effective watch and ward of substation premises shall cover all the transformers and reactors, all other major AIS Equipment (such as CB, isolators, CT, CVT, SA etc. as applicable), GIS bays, panel room, all the gates of switchyard and all entry and exit points of control room building and accordingly the location of cameras shall be decided. In addition to the gates of the switchyard, the cameras shall also be located around the boundaries at suitable locations. The camera shall be high definition color CCD camera with night vision feature. The VMS data partly/completely shall be recorded (minimum for 15 days) at least @25fps (or better) and stored on network video recorder. The system shall use video signals from various cameras installed at different locations, process them for viewing on workstations/monitors in the control room and simultaneously record all the cameras. The VMS data should go only to the intended personnel/facility and not to the remote server of the Camera (VMS supplier).

Mouse/keyboard controllers shall be used for pan, tilt, zoom and other functions of the desired camera. The Visual Monitoring System shall have provision of WAN connectivity for remote monitoring.

All camera recordings shall have Camera ID and location/area of recording as well as date/time stamp. The equipment should generally conform to Electromagnetic compatibility requirement for outdoor equipment in EHV substation.

At existing substations, the visual monitoring system if available shall be augmented as per existing or better specification as required.

**B.4.0 General Facilities**

  
Central Transmission Utility of India Limited

101

  
Ratle Kiru Power Transmission Limited



## Transmission Service Agreement


- a) Line Gantry/Towers are envisaged for bays under present scope only. However, for adjacent future line bay, tower shall be designed for extension (considering Quad conductors 400 kV future lines) wherever applicable.
- b) Bay extension works at existing substation shall be executed by TSP in accordance with the requirements/provisions mentioned above. However, interface points shall be considered keeping in view the existing design/arrangement at the substation.
- c) TSP has to arrange for construction power and water on its own.
- d) All outdoor steel structures including anchor/foundation bolts shall be fully galvanized. The weight of the zinc coating shall be at least 610 gm/m<sup>2</sup> and 900 gm/m<sup>2</sup> for coastal/ creek regions (if applicable).
- e) In 400 kV switchyard, if spare bay of half diameter is identified as future, all the equipment for Tie and Future Bay shall be designed considering the current rating of line bay i.e. 3150 A.
- f) All electrical equipment shall be installed above the Highest Flood Level (HFL) and where such equipment is not possible to be installed above HFL, it shall be ensured that there is no seepage or leakage or logging of water.
- g) As per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 and CEA Manual on Transmissions Planning criteria 2023, Line approaching substation shall normally be perpendicular to the substation boundary for a stretch of 2-3 km. Accordingly, TSP shall ensure that line terminations at substations are arranged in a manner to avoid hindrance to future line terminations at the substations.

**B.5.0 EXTENSION OF EXISTING SUBSTATION**

Bidder is advised to visit the substation sites and acquaint themselves with the topography, infrastructure such as requirement of roads, cable trench, drainage, space availability in control rooms and LT panel room etc. and also the design philosophy.

  
Central Transmission Utility of India Limited

102

  
Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

Sl. No.	Drawing Title	Drawing No./Details	Rev. No.
<b>A.</b>	<b>400 kV Kishtwar S/s</b>		
1.0	Single Line Diagram	KIST-KSW-11-02-001	08
2.0	Earthmat Layout	KIST-KSW-11-03-002	01
3.0	Bus Bar Protection (400 kV System)	Make: TOSHIBA Model: GRB200	--
4.0	Substation Automation System (SAS)	Make: Toshiba Model: GSC1000	--

Sl. No.	Drawing Title	Drawing No./Details	Rev. No.
<b>B.</b>	<b>400 kV Kishenpur S/s</b>		
1.0	Single Line Diagram	JKEEPL/PGCIL/KSS/KISHENPUR-01	0
2.0	General Arrangement	C/ENGG-SS/NR/KISHANPUR-EXTN/GA/01	00
3.0	Visual Monitoring System	Make: Pelco Model: BFB0512HH	--
4.0	Bus Bar Protection (400 kV System)	Make: ABB Model: RADSS Make: ALSTOM MSFC-34	--

Sl. No.	Drawing Title	Drawing No./Details	Rev. No.
<b>C.</b>	<b>400 kV Samba S/s</b>		
1.0	Single Line Diagram	V-30/E-DRG/SLD/S/001	R0
2.0	General Arrangement	G&B-PGSS-SAM-E-005	00
3.0	Earthmat Layout	G&B-PGSS-SAM-E-009	00
4.0	Visual Monitoring System	Make: PELCO	--

Central Transmission Utility of India Limited

103

Rate Kiru Power Transmission Limited



## Transmission Service Agreement

		Model: D62302-US	
5.0	Bus Bar Protection (400 kV System)	Make: Alstom Model: P741	--
6.0	Substation Automation System (SAS)	Make: Alstom Model: DS Agile OI Client 5.3.4.2 build 1	--

Sl. No.	Drawing Title	Drawing No./Details	Rev. No.
D.	400 kV Jalandhar S/s		
1.0	Single Line Diagram	G&B PGSS-JLN-E-001	1
2.0	General Arrangement	G&B-PGSS-JLN-E-002 (SHEET. 1 OF 2 & 2 OF 2)	1
3.0	Earthmat Layout	G&B-PGSS-JLN-E-012	00
4.0	Visual Monitoring System	Make: PELCO Model:	--
5.0	Bus Bar Protection (400 kV System)	400KV Make: GE Model: B90 220KV Make: ABB Model: RADSS	--

  
Central Transmission Utility of India Limited

104

  
Ratle Kiru Power Transmission Limited





**SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION**

The communication requirement shall be in accordance to CEA (Technical Standards for Communication System in Power System Operations) Regulations, 2020, CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022, CERC (Communication System for inter-State transmission of electricity) Regulations, 2017, and CEA (Cyber Security in Power Sector) Guidelines, 2021, and CERC Guidelines on "Interface Requirements" 2024 all above documents as amended from time to time.

The communication services viz. SCADA, AGC (wherever applicable), VoIP, AMR and PMU have been identified as critical services and therefore shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation.

PMU to PDC communication (wherever required) shall be through 2 channels to the PDC (main) as there is no backup PDC at present.

Accordingly all the hardware for communication services of station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs.

The complete ISTS communication system commissioned by TSP under the RFP shall be the asset of ISTS and shall be available for usage of ISTS requirements as suggested by CTU from time to time.

In order to meet the requirement for grid management and operation of substations, Transmission Service Provider (TSP) shall provide the following:

**C.1.0 LILO of 400 kV Kishenpur- Dulhasti S/c line at Kishtwar S/s**

On LILO of 400 kV Kishenpur- Dulhasti S/c line at Kishtwar S/s, TSP shall supply, install and commission OPGW and earthwire as per Tower Configurations:

- (I) Loop-In and Loop out Ckt on Single Towers: Two (2) No. OPGW cable containing 48 Fibres (48F) to be installed and commissioned by the TSP on both the Earthwire peaks
- (II) Loop-In and Loop out Ckt on Two separate Towers: One (1) No. OPGW cable containing 48 Fibres (48F) on one earthwire peak and conventional earthwire on other E/W peak for both Loop In and Loop Out Lines.

The TSP shall install OPGW cables from gantry of Kishtwar S/s up to the LILO tower with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at Kishtwar S/s. The transmission line length is 3



## Transmission Service Agreement

**km (approx.).** After LILO, if fiber length for links Kishtwar - Kishenpur and Kishtwar - Dulhasti is above 225 kms then repeater shall be envisaged, otherwise line can be managed as a repeater less link.

TSP shall finalize the location of repeater station (if required) depending upon the actual site conditions. Further TSP shall comply to the requirements mentioned as per **Appendix-F.1**

Maintenance of OPGW Cable and OPGW Hardware shall be responsibility of TSP.

**C.2.0 FOTE requirement at 400 kV Kishtwar S/s**

- (I) TSP shall supply, install and commission 1 No. FODP (144F or higher) alongwith panel and required Approach Cable (48F) with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.
  - (II) TSP shall supply, install and commission One STM-16 (FOTE) equipment alongwith panel/s supporting minimum Three (3) directions with MSP (Multiplex Section Protection – 1+1) with necessary interfaces to meet the voice and data communication requirement among 400 kV Dulhasti S/s, 400 kV Kishenpur S/s and local patching with Control Room FOTE. The suitable DC Power Supply and backup to be provided for communication equipment.
  - (III) FOTE/FODP panel shall be installed in the new Bay Kiosk (Switchyard Panel Room (SPR)). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of **400 kV Kishtwar S/s** which shall be communicating with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.
- In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, The TSP may integrate the FOTE under the present scope with existing FOTE in the nearby Kiosk connected to the control room FOTE (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).
- (IV) FOTE and FODP can be accommodated in same panel to optimize space.
  - (V) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU, DCPS alongwith Battery Bank shall be the responsibility of TSP.

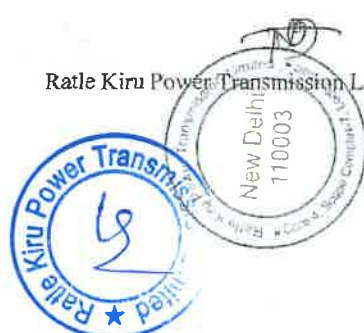


**C.3.0 400 kV Kishenpur-Samba D/C line**

- (I) On 400 kV Kishenpur - Samba D/C line (Quad), TSP shall supply, install and commission One (1) No. OPGW cable containing 48 Fibres (48F) on one E/W peak and conventional earth wire on other E/W peak.
- (II) The TSP shall install this OPGW from gantry of 400 kV Kishenpur S/s up to the gantry of 400 kV Samba S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called **OPGW Hardware** hereafter) and finally terminate in Joint Boxes at end Substations. The transmission line length is **36 km (approx.)**, where repeater may not be required to meet the link budget requirement of 400 kV Kishenpur-Samba D/C link.
- (III) Maintenance of OPGW Cable and OPGW Hardware shall be responsibility of TSP.

**C.4.0 400 kV Samba-Jalandhar D/C line and Bypassing of Jalandhar – Nakodar line at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line thus forming 400 kV Samba – Nakodar direct line**

- (I) On 400 kV Samba-Jalandhar D/C line, TSP shall supply, install and commission two (2) No. OPGW cable containing 48 Fibres (48F) on both the E/W peaks of D/C Tower.
- (II) One number OPGW (48F) shall terminate at Gantry of Jalandhar and another shall be by-passing Jalandhar S/s to form a link between Samba – Nakodar in similar transmission line route.
- (III) The TSP shall install one No. OPGW from gantry of Samba S/s up to the gantry of Jalandhar S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called **OPGW Hardware** hereafter) and finally terminate in Joint Boxes at end Substation. The transmission line length is **145 km (approx.)**.
- (IV) The TSP shall install one No. OPGW from gantry of Samba S/s up to the bypassing tower of Samba-Jalandhar D/C line of second circuit and forming a link between Samba- Nakodar. TSP shall install all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called **OPGW Hardware** hereafter) and finally terminate in Joint Boxes at bypass tower. The transmission line length is **145 kms (approx.)**. **After forming complete link between Samba- Nakodar if repeater is required to meet the link budget requirement of Samba-Nakodar link, the same shall be provided by TSP.**



## Transmission Service Agreement

**TSP shall also provide necessary optical interfaces in the FOTE of Nakodar as per revised link budget of link after making a link between Samba- Nakodar.**

TSP shall finalize the location of repeater station (if required) depending upon the actual site conditions. Further TSP shall comply to the requirements mentioned as per **Appendix-F.1**

- (V) Maintenance of OPGW Cable and OPGW Hardware shall be responsibility of TSP.

### C.5.0 Specific Requirement for Phasor Measurement Units (PMUs)

TSP shall supply, install and commission required No. of Phasor Measurement Units (PMUs) at all the locations under the scope this RFP as per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 (alongwith all amendments if any) and all the other applicable Regulations, Standards, Guidelines issued time to time. The signal list shall be as per the Annexure-I Part-B of CERC Guidelines on "Interface Requirements" 2024. These PMUs shall be provided with GPS clock and LAN switch and shall connect with LAN switch of control room of respective substations/ generating stations with Fibre Optic cable. These PMUs shall be connected with the FOTE at Substation/ generating stations for onwards data transmission to the PDC (Phasor Data Concentrator) located at respective RLDC. Configuration work in existing PDC at RLDC for new PMU integration shall be done by respective RLDC, however all the necessary support in this regard shall be ensured by TSP. The maintenance of all the PMUs and associated equipment shall be the responsibility of TSP.

Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g. Communication (through FOTE), Voice etc. for smooth operation and monitoring of new added grid elements.

  
Central Transmission-Utility of India Limited

108

  
Ratle Kiru Power Transmission Limited



### Repeater Requirements

- If the repeater location is finalized in the Control Room of a nearby substation, TSP shall provide OPGW to accommodate all the fibers in main transmission line on a single Earthwire peak with OPGW Hardware and mid-way Joint Boxes etc. of the line crossing the main line and required approach Cable to accommodate all the OPGW fibers with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the repeater equipment in substation control room.

TSP shall co-ordinate for Space and DC power supply sharing for repeater equipment.

TSP shall provide FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link.

OR

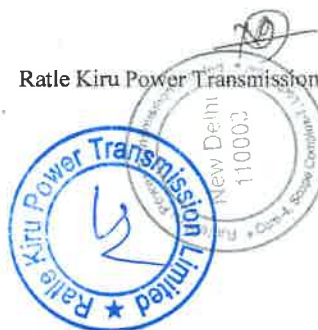
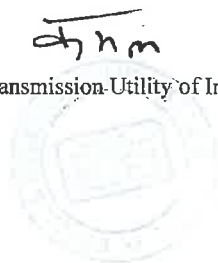
- If the repeater location is finalized in the nearby substation premises, the TSP shall identify the Space for repeater shelter in consultation with station owner. Further TSP shall provide OPGW to accommodate all the fibers in main transmission line on a single Earthwire peak with OPGW Hardware and mid-way Joint Boxes etc. of the line crossing the main line and required approach Cable/UGFO to accommodate all the OPGW fibers with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the substation where the repeater shelter is to be housed.

TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems.

OR

- If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide required approach Cable to accommodate all the OPGW fibers with all associated hardware fittings to establish connectivity up to the location of repeater shelter.

TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems

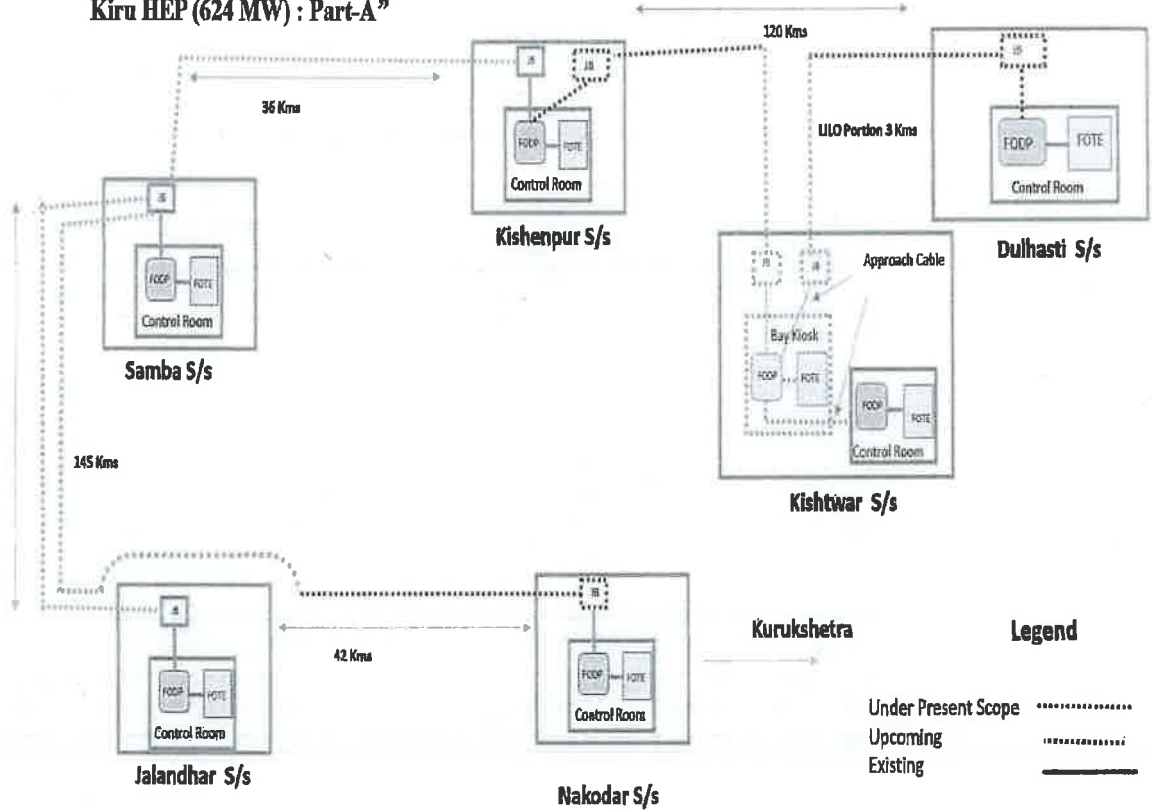




Transmission Service Agreement

Maintenance of OPGW Cable and OPGW Hardware, repeater equipment and items associated with repeater shelter shall be responsibility of TSP.

Proposed Communication for "Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW) : Part-A"



Central Transmission Utility of India Limited

110

Ratle Kiru Power Transmission Limited



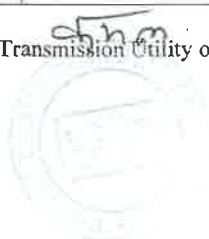


**C.6.0 PLCC and PABX:**

Power line carrier communication (PLCC) equipment complete for speech, tele-protection commands and data channels shall be provided on each transmission line. The protections for transmission line and the line compensating equipment shall have hundred percent back up communication channels i.e. two channels for tele- protection in addition to one channel for speech plus data for each direction. The PLCC equipment shall in brief include the following: -

- Coupling device, Coupling filters, line traps, carrier terminals, protection couplers, HF cables, PABX (if applicable) and maintenance and testing instruments.
- At new substation, a telephone exchange (PABX) of 24 lines shall be provided at as means of effective communication among various buildings of the substation, remote end substations and with control centres (RLDC/SLDC) etc.
- Coupling devices shall be suitable for phase-to-phase coupling for 765 kV Transmission lines. The pass band of coupling devices shall have sufficient margin for adding communication channel in future if required. Necessary protection devices for safety of personnel and low voltage part against power frequency voltages and transient over voltage shall also be provided.
- The line traps shall be broadband tuned suitable for blocking the complete range of carrier frequencies. Line Trap shall have necessary protective devices such as lightning arresters for the protection of tuning device. Decoupling network consisting of line traps and coupling capacitors may also be required at certain substation in case of extreme frequency congestion.
- The carrier terminals shall be of single sideband (SSB) amplitude modulation (AM) type and shall have 4 kHz band width. PLCC Carrier terminals and Protection couplers shall be considered for both ends of the line.
- PLCC equipment for all the transmission lines covered under the scheme (consisting of one set of analog PLCC channel along with circuit protection coupler and one set of Digital protection coupler for both ends) shall be provided by TSP. CVT and Wave trap for all the line bays under present scope shall be provided by TSP. PLCC to be provided for following lines under present scope:
- TSP shall provide new set of PLCC as per following configuration:

Sl. No.	Line Section	PLCC configuration
1.	400 kV Kishenpur -	1 set Analog PLCC + 1 set Digital Protection Coupler for



## Transmission Service Agreement

Sl. No.	Line Section	PLCC configuration
	Kishtwar TL [after LILO]	one circuit at both ends.
2.	400 kV Dulhasti - Kishtwar TL [after LILO]	1 set Analog PLCC + 1 set Digital Protection Coupler for one circuit at both ends.
3.	400 kV Kishenpur-Samba line	1 set Analog PLCC and 1 set Digital Protection Coupler for one circuit at both ends.
4.	400 kV Kishtwar- Samba line [after bypassing]	1 set Analog PLCC and 1 set Digital Protection Coupler for one circuit at both ends.
4.	400 kV Samba- Jalandhar line	1 set Analog PLCC and 1 set Digital Protection Coupler for one circuit at both end.
5.	400 kV Samba- Nakodar line [after bypassing]	1 set Analog PLCC and 1 set Digital Protection Coupler for one circuit at both end.

All other associated equipment like cabling, coupling device and HF cable shall also be provided by the TSP.

  
Central Transmission Utility of India Limited

112

  
Ratle Kiru Power Transmission Limited



**SPECIFIC TECHNICAL REQUIREMENTS FOR INTEGRATION OF  
COMMUNICATION EQUIPMENT WITH REGIONAL LEVEL NMS / REGIONAL  
UNMS**

The new communication equipment/ system for all the substations under the present scope shall be compatible for integration with existing regional level NMS system/ Centralized Supervision and Monitoring System (CSMS) i.e. Regional UNMS. The local configuration of the new communication equipment at the station end shall be the responsibility of TSP as per **Annexure G.1**. The configuration work in the existing centralized NMS/ CSMS at Control center end, for integration of new Communication equipment/ system shall be done by Regional ULDC Team/ NMT, however all the necessary support in this regard shall be ensured by TSP.

**Annexure G.1**

**Requirement for integration of Communication Equipment with Regional UNMS:**

1. TSP shall ensure that NMS/EMS/NE supplied by them is NBI compliant and all FCAPS functionality is supported in the NBI such as NE Inventory, Hardware Inventory – Shelf/Slot/Card/SFP/Port, Topology, Protections, Alarms, Performance- real time and periodic, Performance KPI parameters (E-1, STM, Ethernet), Remote Configuration, Cross Connects, Trails and Circuits, Services Provisioning (NE), E-1 , STM, Ethernet , TX and RS Trace, loop back and details are published in the NBI guide for the configuration parameters.
2. TSP shall be obliged to provide/share all necessary documentations such as NBI Guide/MIB/IDL/WSDL/API files/ etc. for onward integration of their NMS/EMS/NE with regional UNMS.
3. The following support shall be provided by TSP for integration of their supplied equipment with regional UNMS:
  - Enabling and activating NBI license in their EMS/NMS and providing NBI login access along with User credentials
  - Assist in verifying NBI Connectivity with UNMS vendor for the successful communication and retrieval of data.
  - Assist in troubleshooting (if required) for NBI connectivity along with UNMS vendor for the communication and retrieval of data.
4. For standalone NE which is not integrated with any EMS/NMS, TSP shall provide modality of complete FCAPS data acquisition as above through industry standard programmatic methods and provide the CLI command manual.



Frequently Asked Queries:**1.0 Transmission Line:**

- 1.1 Please clarify that whether shutdowns for crossing of existing transmission lines of POWERGRID/STUs/ Power Evacuation Lines from Generation Plants/ Any other Transmission Licensee will be given to TSP on chargeable basis or free of cost.

**Reply:** Shutdowns for crossing of existing transmission lines of POWERGRID/ STUs/ Power Evacuation Lines from Generation Plants/ Any other Transmission Licensee will be given to TSP by the concerned owner of the lines as per their own terms and conditions. As far as shutdown of ISTS lines are concerned the same can be availed by approaching respective Regional Power Committee.

- 1.2 We understand that the suggested swing angle criteria are applicable for Suspension Insulator in Suspension Tower. Further, you are requested to provide similar swing angle and clearance criteria for Pilot Insulator with Jumper and Jumper.

**Reply:** It is clarified that the swing angle criteria (as mentioned in RFP) for transmission lines is applicable for Suspension Insulator in Suspension Tower. Further, as per Clause 3.0 of Specific Technical Requirements for transmission lines, Transmission service Provider (TSP) shall adopt any additional loading/design criteria for ensuring reliability of the line, if so desired and /or deemed necessary.

- 1.3 We request you to kindly allow that use of diamond configuration at Power line crossings and the existing owner of the lines may be directed to allow the same for the successful bidders.

**Reply:** Power line crossing including Diamond configuration is responsibility of the TSP. TSP shall formally submit the profile of the crossing section to the owner of the existing line suggesting proposed crossing alternatives. The crossing will have to be carried out as per approval of owner of the existing line.

- 1.4 It is requested you to kindly provide present status of Forest Clearances if any transmission line corridor area falling in wildlife forest / reserve forest/ mangroves.

**Reply:** Based on the preliminary route survey, the process of initiation of forest clearance for the forest stretches, if any, enroute the proposed line alignment will be initiated by way of writing letters to the concerned authority (ies). However, it may be noted that it will be the responsibility of TSP for obtaining forest clearance for the forest stretches as provided in the survey report and also for any forest area encountered during detailed survey.

- 1.5 For transmission line, no special requirement is specified for type of Insulator and creepage in RFP document. Hence it is understood that bidder can decide



## Transmission Service Agreement

the type of insulator along with creepage requirement based on general CEA regulations and relevant standards. Kindly confirm.

**Reply:** The minimum specific creepage distances shall be decided for the pollution condition in the area of installation. It shall be as per CEA regulations and relevant standards.

## 2.0 Substation

2.1 We understand that space for storage of O&M spare shall be provided by existing owner within the station boundary without any cost. Kindly confirm.

**Reply:** Space for storage of O&M spares shall be arranged by TSP on its own.

2.2 We presume that the O&M for the end Termination bays will be in the scope of the TSP and TSP shall not be liable for any payment towards O&M to the existing owner of the substation. Kindly confirm.

**Reply:** Operation and maintenance of the bays is solely responsibility of the TSP. TSP shall follow CEA's "Operation and Maintenance (O&M) guidelines and Standard Format for Memorandum of Understanding between New TSP and Existing TSP" issued by CEA vide its letter No. I/28514/2023 dated 22.06.2023. Copy of the guideline is available on CEA website at following link:

[https://cea.nic.in/wp-content/uploads/pse\\_td/2023/06/om\\_guidelines.pdf](https://cea.nic.in/wp-content/uploads/pse_td/2023/06/om_guidelines.pdf)

2.3 With reference to subject scheme of existing sub-station, we assumed following scope of work:

- (a) We assumed internal road is available and need not to consider in the present scope of work.
- (b) Drainage is available and need not to consider in the present scope of work.
- (c) Cable trench extension in adjacent to Main cable trench only under present scope of work.
- (d) Levelled area being provided by developer for bay extension.

**Reply:** Regarding requirement of internal road, drainage, cable trench, leveling of the bay extension area, bidder is advised to visit site and acquaint themselves with the provisions/facilities available at substation.

2.4 Kindly provide the soil investigation report of soil parameters of existing substation.

**Reply:** Bidder is advised to visit the substation site and ascertain the requisite parameters.

2.5 Kindly confirm, energy accounting of aux. power consumption. Whether it

Central Transmission Utility of India Limited

115

Ratle Kiru Power Transmission Limited





## Transmission Service Agreement

will be on chargeable basis or part of transmission loss.

**Reply:** It will be on chargeable basis.

2.6 We understand that VMS requirement is for unmanned stations only. For Manned stations VMS is not compulsory.

**Reply:** VMS shall be provided in line with requirements of RfP document.

2.7 It is understood that Construction water and power shall be provided free of cost to TSP by respective substation owner for construction of new bays.

**Reply:** Arrangement of construction power and water is in the scope of TSP.

2.8 It is understood that existing fire hydrant system shall be extended by the TSP for bay extension.

**Reply:** Existing fire hydrant system shall be extended from existing system (if required)

2.9 Please clarify that Status of land acquisition for Substations. Whether the lands have been acquired by BPC and will be transferred to TSP.

**Reply:** The acquisition of land for substation is in the scope of TSP.

2.10 We understood that no any dedicated metering CT and CVT required for Line/feeders. Further, we understood that requisite Energy meters for various 765 kV, 400 kV and 220 kV Feeders shall be provided and installed by CTU free of cost to TSP.

**Reply:** Dedicated metering CT and CVT are not required for line/feeders. Metering core of existing CT/CVT can be used provided accuracy class is matching with metering requirement. Requisite Special Energy Meters shall be provided and installed by CTU at the cost of TSP in C&P panel subject to space availability, else, in separate metering panel (to be provided by TSP at its cost).

2.11 A draft copy of the Connection Agreement may be furnished. A draft copy of the Connection Agreement may be furnished.

**Reply:** Web page link [https://www.ctuil.in/formats\\_gna\\_transition](https://www.ctuil.in/formats_gna_transition)

2.12 Please clarify whether the spare 765 kV single phase Reactor unit for Bus reactor shall be provided with 1ph 765 kV CB.

**Reply:** As per RfP, the spare 1-Ph reactor unit shall be utilized for all the bus and switchable line reactor banks (including for future reactor banks). Hence, 1ph 765 kV CB shall also be provided with spare 1-Ph reactor for utilizing with bus reactor as well as switchable line reactor.

2.13 It is understood that existing busbar protection have provision for future bays and also PUs are available for future bays. BPC to confirm availability of CU





## Transmission Service Agreement

and PU for bays under present scope of work at existing substations. BPC may kindly confirm availability of communication ports for integrating new PUs with the existing CUs at existing substations.

**Reply:** Bus Bar Protection with Central Unit (CU) is required for new bus section as specified in RfP. Peripheral Units (PUs) shall be provided by the respective bay owner. Further, augmentation/replacement of existing CU, if required, to meet the system requirement shall also be provided for proper functioning of bus bar protection.

2.14 For SCADA, it is understood that necessary process I/O shall be available for future bays and accordingly license for same. BPC to confirm.

**Reply:** Necessary process I/O along with license shall be in the scope of the successful bidder.

2.15 No separate FF system is envisaged under the present scope of work for existing substation. BPC to confirm.

**Reply:** Existing fire-fighting systems shall be extended to meet the additional requirements under present scope.

2.16 PLCC for 220 kV Lines are not under the scope of TSP. BPC to Confirm. It is requested to provide Type of Coupling for 220 kV Transmission Lines under present scope.

**Reply:** PLCC for 220 kV line is in the scope of developer of the line.

Inter circuit coupling for 220 kV D/C and phase to phase coupling for 220 kV S/C shall be applicable for PLCC.

2.17 BPC is requested to confirm the availability of space in the existing control rooms at existing substation for execution of extension work under current project.

**Reply:** Switchyard Panel Rooms are generally required for AIS type substation and relay room are required for GIS type substation. Further, if needed, control room shall be augmented as per requirement.

### 3.0 Communication

3.1 What are the usage of OPGW, FOTE, PMU etc. under communication requirement of RFP?

**Reply:** User shall be responsible for providing compatible equipment along with appropriate interface for uninterrupted communication with the concerned control center and shall be responsible for successful integration with the communication system provided by CTU.

Communication systems e.g. OPGW, FOTE etc. and PMU are required for grid operation through RLDC/SLDC, speech communication, tele-protection and tele-metering.

Central Transmission Utility of India Limited

117

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

3.2 Is space for installation of communication panels are provided to TSP in existing Substations incase new bays are in the scope of TSP?

**Reply:** The space related issues are deliberated in the RFP itself. TSP to install FOTE/FODP panels in the new Bay Kiosk (Switchyard Panel Room (SPR)) / Bay Kiosk/ Relay Panel Room (in case of GIS S/s). Further, TSP to connect and integrate the proposed FOTE with the existing FOTE in the control room to complete communication path upto RLDC.

In Case 132 kV Substation TSP shall accommodate the said panels either by extension of existing control room or other arrangements.

3.3 How is the OPGW laying done in case of LILO lines?

**Reply:** In case LILO lines are on same towers (e.g. both Line in and Line Out portion are on same towers, generally done LILO of S/C lines). Then 2x48F OPGW shall be required to install by TSP on both earthwire peak on 400 kV and 765 kV lines where two E/W peaks are available. On 220 kV and 132 kV lines where only one E/W peak is available TSP to install one No. 96F OPGW.

Incase LILO lines are on different towers (e.g. both Line In and Line Out portion are on different towers, generally done LILO of D/C lines). Then 1x48F OPGW shall be required to install by TSP on one earthwire peak and conventional earthwire on second earthwire peak, on both Line In and Line Out portion towers of 400 kV and 765 kV lines. On 220 kV and 132 kV lines where only one E/W peak is available TSP to install one No. 48F OPGW in place of conventional earthwire.

3.4 How is the OPGW laying done in case Multi circuit Towers?

**Reply:** In case two different lines are using common multi circuit portion for some distance (originating from different stations, may be terminating on same or on different stations). Two No. 48F OPGW to be installed on both E/W peaks for common M/C portion of 765 kV and 400 kV lines.

Incase 220/132 kV lines using multi circuit portion where single E/W peak is available one No. 96F may be installed for common multi circuit portion.

3.5 How PMUs are integrated for new bays at existing Substations?

**Reply:** PMU data of new bays to be provided in the ethernet port of switch at control room and thereafter to be connected with existing FOTE of existing substation to send data to PDC of RLDC by TSP. These PMUs shall be provided with GPS clock and LAN switch and shall connect with LAN switch of control room of respective substations with Fibre Optic cable

3.6 Is Spare direction available in existing FOTE for integration with new bay kiosk FOTE

**Reply:** The FOTE under present scope shall be integrated by TSP with the

Central Transmission Utility of India Limited

118

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

existing FOTE at control room of substation for onwards data transmission.

In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room.

3.7 What is the distance from LILO point to proposed substation for feasibility of repeater station?

**Reply:** Tentative Location of LILO point shall be as per survey report of BPC however exact location to be ascertained after detailed survey by TSP.

3.8 What is the make and model of existing OPGW in case LILO of main line at new substation?

**Reply:** All OPGW (along with optical fibers) meet Central Electricity Authority (Technical Standards for Communication System in Power System Operations) Regulations, 2020 and bidder shall install OPGW accordingly.

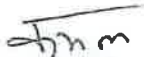
3.9 In case of LILO of existing line at new substation who shall provide PMUs at existing substation bays?

**Reply:** TSP to provide PMUs for all bays under their scope of RFP.

#### 4.0 Planning :

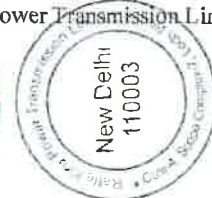
4.1 Whether the Project/ Elements are eligible for early commissioning incentive as per MoP, Gol order dated 15.07.2015.?

**Reply:** Commissioning is to be done as per the timeline mentioned in RfP. However, early commissioning shall be treated as per applicable CERC Regulations/orders.

  
Central Transmission Utility of India Limited

119

  
Rajeev Kiru Power Transmission Limited



## Transmission Service Agreement

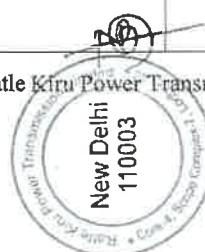
**Schedule: 2****Scheduled COD**

**[Note: As referred to in the definition of "Element", "Scheduled COD", and in Articles 3.1.3 (c), 4.1 (b) and 4.3 (a) of this Agreement]**

Sl. No.	Name of the Transmission Element	Scheduled COD from effective date	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1.	LILo of 400 kV Kishenpur- Dulhasti line (Twin) at Kishtwar S/s along with associated bays at Kishtwar S/s	24 months (24.03.2027)	100%	All elements of scheme are required to be commissioned simultaneously as their utilization is dependent on each other.
2.	400 kV Kishenpur-Samba D/C line (Quad) (only one circuit is to be terminated at Kishenpur utilizing 1 No. of 400 kV vacated line bay at Kishenpur S/s (formed with bypassing of one ckt of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur) while second circuit would be connected to bypassed circuit of 400 kV Kishtwar – Kishenpur line (Quad))			
3.	Bypassing of one ckt			

Central Transmission Utility of India Limited 120

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

Sl. No.	Name of the Transmission Element	Scheduled COD from effective date	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
	of 400 kV Kishtwar – Kishenpur 400 kV D/C line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad), thus forming 400 kV Kishtwar - Samba (Quad) direct line (one ckt)			
4.	1x80 MVAR Switchable line reactor at Samba end of 400 kV Kishtwar-Samba 400 kV line-165 km (Quad) [formed after bypassing of 400 kV Kishtwar – Kishenpur line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad)]			
5.	1x63 MVAR Switchable line reactor on each ckt at			

Central Transmission Utility of India Limited

121

Rajeev Kiru Power Transmission Limited





## Transmission Service Agreement

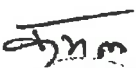
Sl. No.	Name of the Transmission Element	Scheduled COD from effective date	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
	Jalandhar end of Kishenpur- Jalandhar D/C direct line - 171km(Twin) (formed after bypassing both ckts of 400 kV Kishenpur - Samba D/C line (Twin) and 400 kV Samba - Jalandhar D/C line (Twin) at Samba and connecting them together to form Kishenpur- Jalandhar D/C direct line (Twin))			
6.	400 kV Samba-Jalandhar D/C line(Quad) (only one circuit is to be terminated at Jalandhar utilizing 1 No. of 400 kV vacated line bay at Jalandhar S/s (formed with bypassing of 400. kV Jalandhar - Nakodar line (Quad) at Jalandhar) while second circuit would be connected to bypassed circuit of Jalandhar -Nakodar			





## Transmission Service Agreement

Sl. No.	Name of the Transmission Element	Scheduled COD from effective date	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
	400 kV line (Quad)			
7.	1x80 MVAR Switchable line reactor at Samba end of Samba –Nakodar direct line (Quad) (187km) formed after bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line(Quad Moose), thus forming Samba –Nakodar line (Quad)			
8.	Bypassing 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line(Quad Moose), thus forming 400 kV Samba – Nakodar (Quad) direct line			

  
Central Transmission Utility of India Limited

123

  
Ratle Kiru Power Transmission Limited



**Schedule: 3****Safety Rules and Procedures**

**[Note: As referred to in Articles 5.6 of this Agreement]**

**1: Site Regulations and Safety:**

The TSP shall establish Site regulations within sixty (60) days from fulfilment of conditions subsequent, as per Prudent Utility Practices setting out the rules to be observed till expiry of the Agreement at the Site and shall comply therewith.

Such Site regulations shall include, but shall not be limited to, rules in respect of security, safety of the Project, gate control, sanitation, medical care, and fire prevention, public health, environment protection, security of public life, etc.

Copies of such Site regulations shall be provided to the Nodal Agency and the CEA for the purpose of monitoring of the Project.

**2: Emergency Work:**

In cases of any emergency, the TSP shall carry out all necessary remedial work as may be necessary.

If the work done or caused to be done by any entity, other than the TSP, the TSP shall, reimburse the actual costs incurred, to the other Party carrying out such remedial works.

**3: Site Clearance:**

In the course of execution of the Agreement, the TSP shall keep the Site reasonably free from all unnecessary obstruction, storage, remove any surplus materials, clear away any wreckage, rubbish and temporary works from the Site, and remove any equipment no longer required for execution of the Agreement. After completion of all Elements of the Project, the TSP shall clear away and remove all wreckage, rubbish and debris of any kind from the Site, and shall leave the Site clean and safe.

**4: Watching and Lighting:**

The TSP shall provide and maintain at its own expense all lighting, fencing, and watching when and where necessary for the proper construction, operation, maintenance / repair of any of the Elements of the Project, or for the safety of the owners and occupiers of adjacent property and for the safety of the public, during such maintenance / repair.

Central Transmission Utility of India Limited

124

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

## Schedule: 4

## Computation of Transmission Charges

## 1.1 General

The Monthly Transmission Charges to be paid to the TSP for providing Transmission Service for any Contract Year during the term of the Agreement shall be computed in accordance with this Schedule and paid as per Sharing Regulations.

Illustration regarding payment of Transmission Charges under various scenarios (considering definitions of Contract Year, Expiry Date & Monthly Transmission Charges above) is as below: -

Illustration-1: In case the Project Elements achieve COD as per Schedule

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	28	1-Feb-2018	1-Feb-2018	25%
Element 2	38	1-Dec-2018	1-Dec-2018	75%

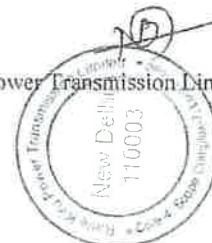
Tariff Payable as follows:

Transmission Charges for Element 1			Transmission Charges for Element 2		
1-Feb-18 to 31-Mar-18	$140 \times 25\% \times ((28+31)/365)$	5.65		--	0.00
1-Apr-18 to 30-Nov-18	$140 \times 25\% \times (244/365)$	23.39		--	0.00
1-Dec-18 to 31-Mar-19	$140 \times 100\% \times (121/365)$				46.41
2	$140 \times 100\% \times 1$				140
3	$140 \times 100\% \times 1$				140
4	$140 \times 100\% \times 1$				140
5	$140 \times 100\% \times 1$				140
.....					
.....					
36 (1-Apr to 30-Nov)	$140 \times 100\% \times (244/365)$				93.59

Central Transmission Utility of India Limited

125

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

**Illustration-2: In case of extension of Scheduled COD as per Article 4.4.1 & 4.4.2 of this Agreement**Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	20	1-Feb-2018	1-Jul-2018	25%
Element 2	28	1-Oct-2018	1-Dec-2018	75%

Tariff Payable as follows:

Transmission Charges for Element 1			Transmission Charges for Element 2		
1-Feb-18 to 31-Mar-18	--	0.00		--	0.00
1-Apr-18 to 30-Jun-18	--	0.00		--	0.00
1-Jul-18 to 30-Nov-18	140 X 25% X (153/365)	14.67		--	0.00
1-Dec-18 to 31-Mar-19	140 X 100% X (121/365)				46.41
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Nov)	140 X 100% X (244/365)				93.59


  
Central Transmission Utility of India Limited

126


  
Ratle Kiru Power Transmission Limited


## Transmission Service Agreement

**Illustration-3: In case of delay in achieving COD of Project & all individual Elements (COD of the Project achieved in Contract Year 1)**Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	20	1-Feb-2018	1-Dec-2018	25%
Element 2	28	1-Oct-2018	1-Dec-2018	75%

Tariff Payable as follows:

Transmission Charges for Element 1			Transmission Charges for Element 2		
1-Feb-18 to 31-Mar-18	--	0.00		--	0.00
1-Apr-18 to 30-Sept-18	--	0.00		--	0.00
1-Oct-18 to 30-Nov-18	--	0.00	1-Oct-18 to 30-Nov-18	--	0.00
1-Dec-18 to 31-Mar-19		140 X 100% X (121/365)			46.41
2		140 X 100% X 1			140
3		140 X 100% X 1			140
4		140 X 100% X 1			140
5		140 X 100% X 1			140
.....					
.....					
36 (1-Apr to 30-Nov)		140 X 100% X (244/365)			93.59

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Central Transmission Utility of India Limited

127

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

**Illustration-4: In case of delay in achieving COD of Project & all individual Elements (COD of the Project achieved in Contract Year other than Contract Year 1)**Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:


Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	38	1-Oct-2019	1-May-2020	25%
Element 2	38	1-Oct-2019	1-May-2020	75%

Tariff Payment to be paid as:

Transmission Charges for Element 1			Transmission Charges for Element 2		
1-Oct-19 to 31-Mar-20	--	0.00	1-Oct-19 to 31-Mar-20	--	0.00
1-Apr-20 to 30-Apr-20	-	0.00	1-Apr-20 to 30-Apr-20	-	0.00
1-May-20 to 31-Mar-21	140 X 100% X (335/365)			128.49	
2	140 X 100% X 1			140	
3	140 X 100% X 1			140	
4	140 X 100% X 1			140	
5	140 X 100% X 1			140	
.....					
.....					
36 (1-Apr to 30-Apr)	140 X 100% X (30/ 365)			11.51	


  
Central Transmission Utility of India Limited

128


  
Ratle Kiru Power Transmission Limited




## Transmission Service Agreement

**Illustration5: In case of delay in achieving COD of Element but Project COD achieved on time**Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	20	1-Feb-2018	1-Jul-2018	25%
Element 2	30	1-Dec-2018	1-Dec-2018	75%

Tariff Payable as follows:

Transmission Charges for Element 1			Transmission Charges for Element 2		
1-Feb-18 to 31-Mar-18	--	0.00		--	0.00
1-Apr-18 to 30-Jun-18	--	0.00		--	0.00
1-Jul-18 to 30-Nov-18	140 X 25% X (153/365)	14.67		--	0.00
1-Dec-18 to 31-Mar-19	140 X 100% X (121/365)				46.41
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Nov)	140 X 100% X (244/365)				93.59

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Central Transmission Utility of India Limited

129

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

Illustration-6: In case of early commissioning of ProjectQuoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	38	1-Oct-2019	1-Jul-2019	25%
Element 2	38	1-Oct-2019	1-Jul-2019	75%

Tariff Payment to be paid as:

Transmission Charges for Element 1		Transmission Charges for Element 2	
1-July-19 to 31-Mar-20	140 X 100% X (274/365)		105.09
2	140 X 100% X 1		140
3	140 X 100% X 1		140
4	140 X 100% X 1		140
5	140 X 100% X 1		140
.....			
.....			
36 (1-Apr to 30-Jun)	140 X 100% X (91/365)		34.91


  
Central Transmission Utility of India Limited

130


  
Ratle Kiru Power Transmission Limited


## Transmission Service Agreement

**Illustration-7: In case of early commissioning of an element**

Quoted Transmission Charges: **Rs. 140 Million**  
Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	38	1-Oct-2019	1-Apr-2019	25%
Element 2	38	1-Jul-2019	1-Jul-2019	75%

Tariff Payment to be paid as:

Transmission Charges for Element 1			Transmission Charges for Element 2		
1-Apr-2019 to 30-Jun-19	140 X 25% X (91/365)	8.72	1-Apr-2019 to 30-Jun-19	--	0.00
1-July-19 to 31-Mar-20	140 X 100% X (274/ 365)			105.09	
2	140 X 100% X 1			140	
3	140 X 100% X 1			140	
4	140 X 100% X 1			140	
5	140 X 100% X 1			140	
.....					
.....					
36 (1-Apr-30-Jun)	140 X 100% X (91/365)			34.91	

The Transmission Charges shall be payable on monthly basis as computed above.

### 1.2 Computation of Monthly Transmission Charges

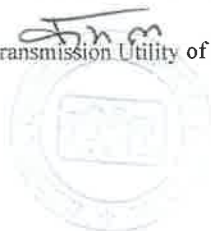
The Monthly Transmission Charges for any month m in a Contract Year n shall be calculated as below:

For AC System:

- a. If Actual Transmission System Availability for the month m of contract year n is greater than or equal to 98% and less than or equal to 98.5%;

$$\text{Monthly Transmission Charges MTC}(m) = T_{mn} * 1$$

- a. If Actual Transmission System Availability for the month m of contract year n exceeds 98.5% and less than or equal to 99.75%;



## Transmission Service Agreement

Monthly Transmission Charges  $MTC(m) = Tmn * (AA/ 98.5\%)$

- c. If Actual Transmission System Availability for the month m of contract year n is greater than 99.75%;

Monthly Transmission Charges  $MTC(m) = Tmn * (99.75\% / 98.5\%)$

- d. If Actual Transmission System Availability for the month m of contract year n is less than 98% and greater than or equal to 95.00%;

Monthly Transmission Charges  $MTC(m) = Tmn * (AA/ 98\%)$

- e. If Actual Transmission System Availability for the month m of contract year falls below 95%;

Monthly Transmission Charges  $MTC(m) = Tmn * (AA/ 98\%) - 0.02 * (Tmn * (AA/ 95\%))$

For DC System:

- a. If Actual Transmission System Availability for the month m of contract year n is greater than or equal to 95% and less than or equal to 96%;

Monthly Transmission Charges  $MTC(m) = Tmn * 1$

- b. If Actual Transmission System Availability for the month m of contract year n exceeds 96% and less than or equal to 99.75%;

Monthly Transmission Charges  $MTC(m) = Tmn * (AA/ 96\%)$

- c. If Actual Transmission System Availability for the month m of contract year n is greater than 99.75%;

Monthly Transmission Charges  $MTC(m) = Tmn * (99.75\% / 96\%)$

- d. If Actual Transmission System Availability for the month m of contract year n is less than 95% and greater than or equal to 92.00%;

Monthly Transmission Charges  $MTC(m) = Tmn * (AA/ 95\%)$

- e. If Actual Transmission System Availability for the month m of contract year falls below 92%;

Monthly Transmission Charges  $MTC(m) = Tmn * (AA/ 95\%) - 0.02 * (Tmn * (AA/ 92\%))$

where:

- AA is the actual Availability, as certified by RPC; as per procedure provided in Schedule 6.
- m is the month in Contract Year 'n'




## Transmission Service Agreement

- $T_{mn}$  = Transmission Charges for the month 'm' in Contract Year 'n' =  
(=Transmission Charge/ no. of days in the Year n)\* no. of days in month  
m

Provided, no Transmission Charges shall be paid during the period for which the RLDC has not allowed the operation of the Element/Project due to the failure of the TSP to operate it as per the provisions of the Grid Code.

**1.3 RLDC Fee & Charges**

The payment of RLDC fee & charges, in accordance with relevant regulations of CERC, shall be the responsibility of the TSP.

  
Central Transmission Utility of India Limited

133

  
Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

## Schedule: 5

## Quoted Transmission Charges

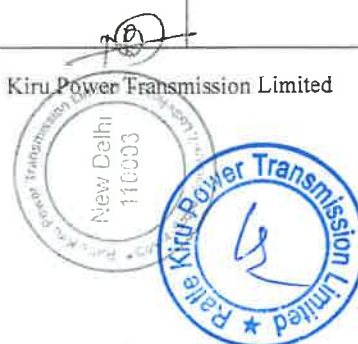
[Quoted Transmission Charges from Annexure - 21 of the RFP of the Selected Bidder to be inserted here]

[To be incorporated from the Bid of the Selected Bidder submitted during the e-reverse auction after its selection]

Quoted Annual Transmission Charges: Rs. 1952.32 Million

Proportionate Transmission Charges payable for each Element of the Project:

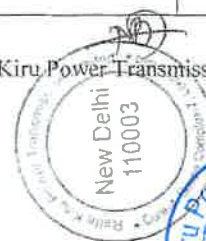
Sl. No.	Name of the Transmission Element	Scheduled COD from effective date	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1.	LILO of 400 kV Kishenpur-Dulhasti line (Twin) at Kishtwar S/s along with associated bays at Kishtwar S/s	24 months (24.03.2027)	100%	All elements of scheme are required to be commissioned simultaneously as their utilization is dependent on each other.
2.	400 kV Kishenpur-Samba D/C line (Quad)  (only one circuit is to be terminated at Kishenpur utilizing 1 No. of 400 kV vacated line bay at Kishenpur S/s (formed with bypassing of one ckt of 400 kV Kishtwar - Kishenpur 400 kV D/C line (Quad) at Kishenpur) while second circuit would be connected to bypassed circuit of 400 kV Kishtwar - Kishenpur line (Quad))			
3.	Bypassing of one ckt of 400 kV Kishtwar - Kishenpur 400 kV D/C line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-			





## Transmission Service Agreement

Sl. No.	Name of the Transmission Element	Scheduled COD from effective date	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
	Samba 400 kV D/C line(Quad), thus forming 400 kV Kishtwar - Samba (Quad) direct line (one ckt)			
4.	1x80 MVAr Switchable line reactor at Samba end of 400 kV Kishtwar-Samba 400 kV line-165 km (Quad) [formed after bypassing of 400 kV Kishtwar - Kishenpur line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line(Quad)]			
5.	1x63 MVAr Switchable line reactor on each ckt at Jalandhar end of Kishenpur- Jalandhar D/C direct line -171km(Twin) (formed after bypassing both ckts of 400 kV Kishenpur - Samba D/C line (Twin) and 400 kV Samba - Jalandhar D/C line (Twin) at Samba and connecting them together to form Kishenpur-Jalandhar D/C direct line (Twin))			
6.	400 kV Samba- Jalandhar D/C line(Quad)  (only one circuit is to be terminated at Jalandhar utilizing 1 No. of 400 kV vacated line bay at Jalandhar S/s (formed with bypassing of 400 kV Jalandhar - Nakodar line			



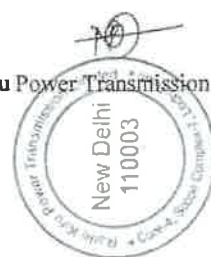
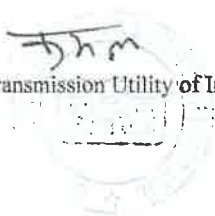
## Transmission Service Agreement

Sl. No.	Name of the Transmission Element	Scheduled COD from effective date	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
	(Quad) at Jalandhar) while second circuit would be connected to bypassed circuit of Jalandhar – Nakodar 400 kV line (Quad))			
7.	1x80 MVAR Switchable line reactor at Samba end of Samba –Nakodar direct line (Quad) (187km) formed after bypassing of 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line(Quad Moose), thus forming Samba – Nakodar line (Quad)			
8.	Bypassing 400 kV Jalandhar – Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line(Quad Moose), thus forming 400 kV Samba – Nakodar (Quad) direct line			

Central Transmission Utility of India Limited

136

Ratle Kiru Power Transmission Limited



**Schedule: 6****Appendix IV of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2024****Procedure for Calculation of Transmission System Availability Factor for a Month**

1. Transmission system availability factor for nth calendar month ("TAFPn") shall be calculated by the respective transmission licensee, verified by the concerned Regional Load Dispatch Centre (RLDC) and certified by the Member-Secretary, Regional Power Committee of the region concerned, separately for each AC and HVDC transmission system and grouped according to sharing of transmission charges. In the case of the AC system, transmission System Availability shall be calculated separately for each Regional Transmission System and inter-regional transmission system. In the case of the HVDC system, transmission System Availability shall be calculated on a consolidated basis for all inter-state HVDC systems.
2. Transmission system availability factor for nth calendar month ("TAFPn") shall be calculated by considering the following:
  - i) **AC transmission lines:** Each circuit of AC transmission line shall be considered as one element;
  - ii) **Inter-Connecting Transformers (ICTs):** Each ICT bank (three single-phase transformers together) shall form one element;
  - iii) **Static VAR Compensator (SVC):** SVC, along with SVC transformer, shall form one element;
  - iv) **Bus Reactors or Switchable line reactors:** Each Bus Reactors or Switchable line reactors shall be considered as one element;
  - v) **HVDC Bi-pole links:** Each pole of the HVDC link, along with associated equipment at both ends, shall be considered as one element;
  - vi) **HVDC back-to-back station:** Each block of the HVDC back-to-back station shall be considered as one element. If the associated AC line (necessary for the transfer of inter-regional power through the HVDC back-to-back station) is not available, the HVDC back-to-back station block shall also be considered unavailable;
  - vii) **Static Synchronous Compensation ("STATCOM"):** Each STATCOM shall be considered as a separate element.



## Transmission Service Agreement

3. The Availability of the AC and HVDC portion of the Transmission system shall be calculated by considering each category of transmission elements as under:

**TAFPA (in %) for AC system:**

$$= \frac{(o \times AV_o) + (p \times AV_p) + (q \times AV_q) + (r \times AV_r) + (u \times AV_u)}{(o + p + q + r + u)} \times 100$$

Where,

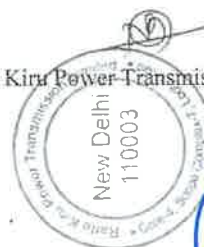
<b>o</b>	=	<b>Total number of AC lines.</b>
<b>AV<sub>o</sub></b>	=	<b>Availability of o number of AC lines</b>
<b>p</b>	=	<b>Total number of bus reactors/switchable line reactors</b>
<b>AV<sub>p</sub></b>	=	<b>Availability of p number of bus reactors/switchable line reactors</b>
<b>q</b>	=	<b>Total number of ICTs</b>
<b>AV<sub>q</sub></b>	=	<b>Availability of q number of ICTs</b>
<b>r</b>	=	<b>Total number of SVCs</b>
<b>AV<sub>r</sub></b>	=	<b>Availability of r number of SVCs</b>
<b>u</b>	=	<b>Total number of STATCOM</b>
<b>AV<sub>u</sub></b>	=	<b>Availability of u number of STATCOM</b>

**TAFMA (in %) for HVDC System:**

$$= \frac{\sum_{x=1}^s C_{xpb}(\text{act}) \times AV_{xpb} + \sum_{y=1}^t C_{ybtb}(\text{act}) \times AV_{ybtb}}{\sum_{x=1}^s C_{xpb} + \sum_{y=1}^t C_{ybtb}} \times 100$$

Where

<b>C<sub>xpb</sub>(act)</b>	=	<b>Total actual operated capacity of x<sup>th</sup> HVDC pole</b>
<b>C<sub>xpb</sub></b>	=	<b>Total rated capacity of x<sup>th</sup> HVDC pole</b>
<b>AV<sub>xpb</sub></b>	=	<b>Availability of x<sup>th</sup> HVDC pole</b>
<b>C<sub>ybtb</sub>(act)</b>	=	<b>Total actual operated capacity of y<sup>th</sup> HVDC back-to-back station block</b>
<b>C<sub>ybtb</sub></b>	=	<b>Total rated capacity of y<sup>th</sup> HVDC back-to-back station block</b>
<b>AV<sub>ybtb</sub></b>	=	<b>Availability of y<sup>th</sup> HVDC back-to-back station block</b>
<b>s</b>	=	<b>Total no of HVDC poles</b>
<b>t</b>	=	<b>Total no of HVDC Back to Back blocks</b>



## Transmission Service Agreement

4. The availability for each category of transmission elements shall be calculated based on the weightage factor, total hours under consideration and non-available hours for each element of that category. The formulae for calculation of the Availability of each category of the transmission elements are as per **Appendix-V**. The weightage factor for each category of transmission elements shall be considered as under:
- (a) For each circuit of the AC line – The number of sub-conductors in the line multiplied by ckt-km;
  - (b) For each HVDC pole- The rated MW capacity x ckt-km;
  - (c) For each ICT bank – The rated MVA capacity;
  - (d) For SVC- The rated MVAR capacity (inductive and capacitive);
  - (e) For Bus Reactor/switchable line reactors – The rated MVAR capacity;
  - (f) For HVDC back-to-back stations connecting two Regional grids- Rated MW capacity of each block; and
  - (g) For STATCOM – Total rated MVAR Capacity.
5. The transmission elements under outage due to the following reasons shall be deemed to be available:
- i. Shut down availed for maintenance of another transmission scheme or construction of new element or renovation/upgradation/additional capitalization in an existing system approved by the Commission. If the other transmission scheme belongs to the transmission licensee, the Member Secretary, RPC may restrict the deemed availability period to that considered reasonable by him for the work involved. In case of a dispute regarding deemed availability, the matter may be referred to the Chairperson, CEA, within 30 days.
  - ii. Switching off of a transmission line to restrict over-voltage and manual tripping of switched reactors as per the directions of the concerned RLDC.
  - iii. Shut down of a transmission line due to the Project(s) of NHAI, Railways and Border Road Organization, including for shifting or modification of such transmission line or any other infrastructure project approved by Ministry of Power. Member Secretary, RPC may restrict the deemed availability period to that considered reasonable by him for the work involved; Provided that apart from the deemed availability, any other costs involved in the process of such shutdown of transmission line shall not be borne by the DICs.

Provided that such deemed availability shall be considered only for the period for which DICs are not affected by the shutdown of such transmission line.

Central Transmission Utility of India Limited

139

Ratle Kiru Power Transmission Limited





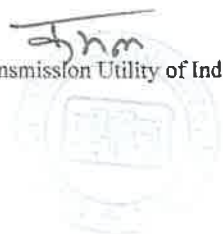
## Transmission Service Agreement

6. For the following contingencies, the outage period of transmission elements, as certified by the Member Secretary, RPC, shall be excluded from the total time of the element under the period of consideration for the following contingencies:
- i) Outage of elements due to force majeure events beyond the control of the transmission licensee. However, whether the same outage is due to force majeure (not design failure) will be verified by the Member Secretary, RPC. A reasonable restoration time for the element shall be considered by the Member Secretary, RPC, and any additional time taken by the transmission licensee for restoration of the element beyond the reasonable time shall be treated as outage time attributable to the transmission licensee. Member Secretary, RPC may consult the transmission licensee or any expert for estimation of reasonable restoration time. Circuits restored through ERS (Emergency Restoration System) shall be considered as available;
  - ii) Outage caused by grid incident/disturbance not attributable to the transmission licensee, e.g. faults in a substation or bays owned by another agency causing an outage of the transmission licensee's elements, and tripping of lines, ICTs, HVDC, etc., due to grid disturbance. However, if the element is not restored on receipt of direction from RLDC while normalizing the system following grid incident/disturbance within reasonable time, the element will be considered not available for the period of outage after issuance of RLDC's direction for restoration;
  - iii) The outage period which can be excluded for the purpose of sub-clause (i) and (ii) of this clause shall be declared as under:
    - a. Maximum up to one month by the Member Secretary, RPC;
    - b. Beyond one month and up to three months after the decision at RPC;
    - c. Beyond three months by the Commission for which the transmission license shall approach the Commission along with reasons and steps taken to mitigate the outage and restoration timeline.
7. Time frame for certification of transmission system availability: (1) The following schedule shall be followed for certification of availability by the Member Secretary of the concerned RPC:
- Submission of outage data along with documentary proof (if any) and TAFPn calculation by Transmission Licensees to RLDC/ constituents
    - By the 5<sup>th</sup> of the following month;

Central Transmission Utility of India Limited

140

Ratle Kiru Power Transmission Limited





## Transmission Service Agreement

- Review of the outage data by RLDC / constituents and forward the same to respective RPC – by 20<sup>th</sup> of the month;
- Issue of availability certificate by respective RPC – by the 3<sup>rd</sup> of the next month.

## Appendix-V

**FORMULAE FOR CALCULATION OF AVAILABILITY OF EACH CATEGORY OF TRANSMISSION ELEMENTS**
For AC transmission system

$$AV_o(\text{Availability of } o \text{ no. of AC lines}) = \frac{\sum_{i=1}^o W_i(T_i - TN_A)/T_i}{\sum_{i=1}^o W_i}$$

$$AV_q(\text{Availability of } q \text{ no. of ICTs}) = \frac{\sum_{k=1}^q W_k(T_k - TN_A)/T_k}{\sum_{k=1}^q W_k}$$

$$AV_r(\text{Availability of } r \text{ no. of SVCs}) = \frac{\sum_{i=1}^{r-1} W_i(T_i - TN_A)/T_i}{\sum_{i=1}^r W_i}$$

$$AV_p(\text{Availability of } p \text{ no. of Switched Bus reactors}) = \frac{p}{\sum_{m=1}^p W_m(T_m - TN_A)/T_m}$$

$$AV_u(\text{Availability of } u \text{ no. of STATCOMs}) = \frac{\sum_{n=1}^u W_n(T_n - TN_A)/T_n}{\sum_{n=1}^u W_n}$$

$$AV_{xtp}(\text{Availability of an individual HVDC pole}) = \frac{(T_x - TN)}{T_x}$$

$AV_{ytb}$  (Availability of an individual HVDC

$$\text{Back-to-back Blocks}) = \frac{(T_y - TN_y)}{T_y}$$



## Transmission Service Agreement

For the HVDC transmission system

For the new HVDC commissioned but not completed twelve months;

For first 12 months:  $[(AV_{xtp} \text{ or } AV_{ytb}) \times 95\% / 85\%]$ , subject to a ceiling of 95%.

Where.

$o$	=	Total number of AC lines;
$AV_o$	=	Availability of $o$ number of AC lines;
$p$	=	Total number of bus reactors/switchable line reactors;
$AV_p$	=	Availability of $p$ number of bus reactors/switchable line reactors;
$q$	=	Total number of ICTs;
$AV_q$	=	Availability of $q$ number of ICTs;
$r$	=	Total number of SVCs;
$AV_r$	=	Availability of $r$ number of SVCs;
$U$	=	Total number of STATCOM;
$AV_u$	=	Availability of $u$ number of STATCOMs;
$W_i$	=	Weightage factor for $i$ th transmission line;
$W_k$	=	Weightage factor for $k$ th ICT;
$W_l$	=	Weightage factors for inductive & capacitive operation of $l$ th SVC;
$W_m$	=	Weightage factor for $m$ th bus reactor;
$W_n$	=	Weightage factor for $n$ th STATCOM.
$T_i, T_k, T_l,$ $T_m, T_n, T_x,$ $T_y$	=	The total hours of $i$ th AC line, $k$ th ICT, $l$ th SVC, $m$ th Switched Bus Reactor & $n$ th STATCOM, $x$ th HVDC pole, $y$ th HVDC back-to-back blocks during the period under consideration (excluding time period for outages not attributed to transmission licensee for the reasons given in Para 5 of the procedure)
$T_{NAi}, T_{NAk}$	=	The non-availability hours (excluding the time period for outages not $T_{NAi}, T_{NAk}$ , attributable to transmission licensee taken as deemed availability as $T_{NAi}, T_{NAk}, T_{NAx}, T_{NAy}$ per Para 5 of the procedure) for $i$ th AC line, $k$ th ICT, $l$ th SVC, $m$ th Switched Bus Reactor, $n$ th STATCOM, $x$ th HVDC pole and $y$ th HVDC back-to-back block.



Transmission Service Agreement

**Schedule: 7**

**Entire Bid (both financial bid and technical bid) of the Selected Bidder to be attached here.**

Bid dated 03.01.2025 & 23.01.2025 shall be an integral part of this agreement.

Central Transmission Utility of India Limited

143

Ratle Kirt Power Transmission Limited



## Transmission Service Agreement

**Schedule: 8****Contract Performance Guarantee**

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign entities submitting Bids are required to follow the applicable law in their country.)

In consideration of the .....[Insert name of the SPV or Selected Bidder on behalf of the TSP, or Lead Member in case of the Consortium, with address] agreeing to undertake the obligations under the Transmission Service Agreement dated .....and the other RFP Project Documents and the Nodal Agency and the .....[Insert the name of the BPC], agreeing to execute the *RFP Project Documents* with the Selected Bidder, regarding setting up the Project, the ..... [Insert name and address of the bank issuing the guarantee and address of the head office] (hereinafter referred to as "Guarantor Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to ..... (being the Nodal Agency) at .....[Insert the Place from the address of the Nodal Agency indicated in the TSA] forthwith on demand in writing from the Nodal Agency or any Officer authorized by it in this behalf, any amount up to and not exceeding Rupees ..... Crores (Rs. ....) only [Insert the amount of the bank guarantee] on behalf of M/s. .... [Insert name of the Selected Bidder or SPV].

This guarantee shall be valid and binding on the Guarantor Bank up to and including .....and shall not be terminable by notice or any change in the constitution of the Bank or the term of the Transmission Service Agreement or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to Rs. .... Crores (Rs. ....) only. Our Guarantee shall remain in force until ..... [Insert the date of validity of the Guarantee as per Article 3.1.2 of this Agreement]. The Nodal Agency, shall be entitled to invoke this Guarantee up to three hundred sixty five (365) days of the last date of the validity of this Guarantee.

Central Transmission Utility of India Limited

144

Ratle Kiru Power Transmission Limited



## Transmission Service Agreement

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from ..... (in its roles as the Nodal Agency), made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to Nodal Agency.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by ..... [Insert name of the Selected Bidder], ..... [Insert name of the TSP] and / or any other person. The Guarantor Bank shall not require Nodal Agency to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against Nodal Agency in respect of any payment made hereunder.

**THIS BANK GUARANTEE** shall be interpreted in accordance with the laws of India.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

**THIS BANK GUARANTEE** shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Guarantor Bank.

**THIS BANK GUARANTEE** shall be a primary obligation of the Guarantor Bank and accordingly Nodal Agency shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against ..... [Insert name of the SPV] or the Selected Bidder, as the case may be, to make any claim against or any demand on ..... [Insert name of the SPV] or the Selected Bidder, as the case may be, or to give any notice to ..... [Insert name of the SPV] or the Selected Bidder, as the case may be, or to enforce any security held by the Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against ..... [Insert name of the SPV] or the Selected Bidder, as the case may be.

The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to Nodal Agency and may be assigned, in whole or in part, (whether absolutely or by way of security) by Nodal Agency to any entity to whom the Nodal Agency is entitled to assign its rights and obligations under the Transmission Service Agreement.

The Guarantor Bank hereby agrees and acknowledges that Nodal Agency shall have a right to invoke this Bank Guarantee either in part or in full, as it may deem fit.

Central Transmission Utility of India Limited

145

Ratle Kiru Power Transmission Limited



Transmission Service Agreement

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rs. .... Crores (Rs. ....) only and it shall remain in force until .....[Date to be inserted on the basis of Article 3.1.2of the Transmission Service Agreement], with an additional claim period of three hundred sixty five (365) days thereafter. This BANK GUARANTEE shall be extended from time to time for such period, as may be desired by ..... [Insert name of the Selected Bidder or Lead Member in case of the Consortium or SPV]. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if Nodal Agency serves upon us a written claim or demand.

In witness where of:

Signature .....

Name: .....

Power of attorney No.: .....

For:

..... [Insert Name of the Bank]

Banker's Seal and Full Address, including mailing address of the Head Office

Central Transmission Utility of India Limited

146

Ratle Kiru Power Transmission Limited





## Transmission Service Agreement

**Schedule: 9****Methodology for determining the Relief Under Force Majeure Event & Change in Law during Construction Period**

The relief in the form of revision in tariff due to Force Majeure Event leading to extension of Scheduled COD for a period beyond one hundred eighty (180) days and/ or Change in Law during the construction period shall be as under:

$$\Delta T = [(P \times d)] \div [1 - (1 + d)^{-n}]$$

Where,

$\Delta T$  = Change in Transmission Charges for each year

P = Sum of cumulative increase or decrease in the cost of the Project due to Change in Law and interest cost during construction corresponding to the period exceeding one hundred eighty (180) due to Force Majeure Event leading to extension of Scheduled COD for a period beyond one hundred eighty (180) days

n = number of years over which the Transmission Charges has to be paid

d = Discount rate as notified by the CERC, applicable on the Bid Deadline

The increase in Transmission Charges as stated above shall be applicable only if the value of increase in Transmission Charges as calculated above exceeds 0.30% (zero point three percent) of the quoted Transmission Charges of the TSP.

Central Transmission Utility of India Limited

147

Ratle Kiru Power Transmission Limited



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**SHARE PURCHASE AGREEMENT**

**BETWEEN**

**REC POWER DEVELOPMENT AND CONSULTANCY LIMITED**

**AND**

**RATLE KIRU POWER TRANSMISSION LIMITED**

**AND**

**INDIGRID 2 PRIVATE LIMITED**

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**Dated: 24<sup>th</sup> March, 2025**

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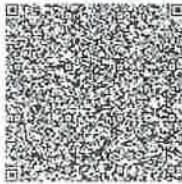
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## Government of National Capital Territory of Delhi

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Unique Doc. Reference	: SUBIN-DLTL-SELF38730140924728X
Purchased by	: REC POWER DEVELOPMENT AND CONSULTANCY
Description of Document	: Article 5 General Agreement
Property Description	: CORE-4,SCOPE COMPLEX, 7, LODHI ROAD, NEW DELHI-110003
Consideration Price (Rs.)	: 0 (Zero)
First Party	: RATLE KIRU POWER TRANSMISSION LIMITED
Second Party	: INDIGRID 2 PRIVATE LIMITED
Stamp Duty Paid By	: RATLE KIRU POWER TRANSMISSION LIMITED
Stamp Duty Amount(Rs.)	: 500 (Five Hundred only)



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## SHARE PURCHASE AGREEMENT

This **SHARE PURCHASE AGREEMENT ('Agreement')** made on the 24<sup>th</sup> day of March, 2025 at New Delhi by and between:

**REC POWER DEVELOPMENT AND CONSULTANCY LIMITED**, a company incorporated under the Companies Act, 1956, vide CIN-U40101DL2007GOI165779 having its registered office at Core 4, SCOPE Complex, 7, Lodhi Road, New Delhi 110 003, India (hereinafter referred to as "**REC PDCL**", which expression shall, unless it be repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns) of the **FIRST PART**;



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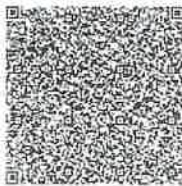
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 Purchased by : REC POWER DEVELOPMENT AND CONSULTANCY  
 Description of Document : Article 5 General Agreement  
 Property Description : CORE-4, SCOPE COMPLEX, 7, LODHI ROAD, NEW DELHI-110003  
 Consideration Price (Rs.) : 0  
 (Zero)  
 First Party : RATLE KIRU POWER TRANSMISSION LIMITED  
 Second Party : INDIGRID 2 PRIVATE LIMITED  
 Stamp Duty Paid By : RATLE KIRU POWER TRANSMISSION LIMITED  
 Stamp Duty Amount(Rs.) : 500  
 (Five Hundred only)



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## AND

**RATLE KIRU POWER TRANSMISSION LIMITED** a company incorporated under the Companies Act, 2013 vide CIN- U42202DL2024GOI438102, having its registered office at Core 4, SCOPE Complex, 7, Lodhi Road, New Delhi 110003, India (herein after referred to as "**Company**" which expression shall, unless repugnant to the context, mean and include its successors in interest) of the **SECOND PART**;



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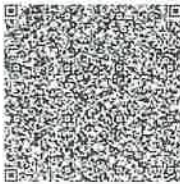
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Unique Doc. Reference	: SUBIN-DLTL-SELF38477108090419X
Purchased by	: REC POWER DEVELOPMENT AND CONSULTANCY
Description of Document	: Article 5 General Agreement
Property Description	: CORE-4,SCOPE COMPLEX, 7, LODHI ROAD, NEW DELHI-110003
Consideration Price (Rs.)	: 0 (Zero)
First Party	: RATLE KIRU POWER TRANSMISSION LIMITED
Second Party	: INDIGRID 2 PRIVATE LIMITED
Stamp Duty Paid By	: RATLE KIRU POWER TRANSMISSION LIMITED
Stamp Duty Amount(Rs.)	: 200 (Two Hundred only)



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AND

**INDIGRID 2 PRIVATE LIMITED**, a company incorporated under the Companies Act, 2013 vide CIN- U29130MH2014PTC353042 and having its registered office at **Unit No. 101, 1st Floor, Windsor, Village Kolekalyan, Off CST Road, Vidyanagari Marg, Santacruz (East), Mumbai – 400098, Maharashtra, India** (hereinafter referred to as **“Selected Bidder”** which expression shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its successors and permitted assigns) of the **THIRD PART**.



REGPDCL

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New Delhi

110003





**WHEREAS:**

- A. Ministry of Power, Government of India, vide its notification no. 3229 [F No. 15/03/2018- Trans- Part(4)] dated 21.08.2024 has appointed REC Power Development and Consultancy Limited to be the Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish inter-state transmission system "**Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A**" through tariff based competitive bidding process (hereinafter referred to as the "Project").
- B. In accordance with the Bidding Guidelines, the BPC had initiated a competitive bidding process through issue of RFP for selecting a Successful Bidder to build, own, operate and transfer the Project comprising of the Elements mentioned in **Schedule 2** of the TSA. BPC had initiated this process in accordance with and on the terms and conditions mentioned in the RFP Project Documents (as defined hereinafter).
- C. BPC has incorporated the Company and has undertaken the preliminary studies, obtained certain approvals, etc. regarding the Project on behalf of the Company
- D. REC PDCL along with the Nominees hold one hundred per cent (100%) of the total issued and paid up equity share capital of the Company.
- E. Pursuant to the said Bid Process, IndiGrid 2 Private Limited has been identified as the Selected Bidder vide Letter of Intent dated 28<sup>th</sup> February 2025 issued by the BPC in favour of the Selected Bidder.
- F. As envisaged in the RFP, the Shares Seller (as defined hereinafter) has agreed to sell the Sale Shares (as defined hereinafter) to the Selected Bidder and the Selected Bidder has agreed to purchase the Sale Shares from the Shares Seller, subject to and on the terms and conditions set forth in this Agreement.

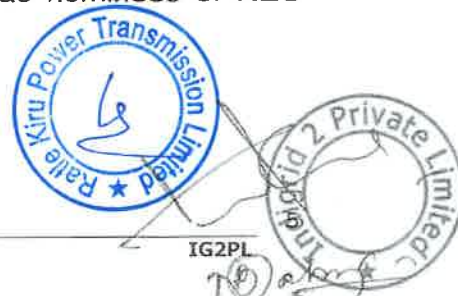
**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL COVENANTS AND AGREEMENTS SET FORTH IN THIS AGREEMENT AND FOR OTHER GOOD AND VALUABLE CONSIDERATION, THE PARTIES HEREBY AGREE AS FOLLOWS:**





## 1. DEFINITIONS

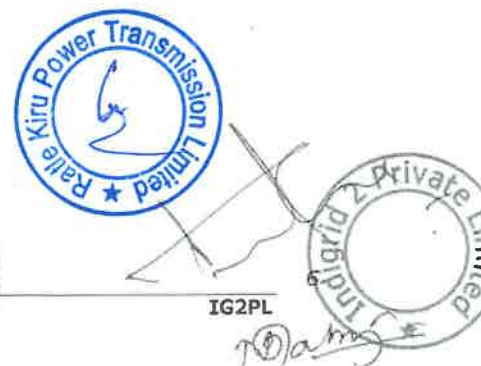
- 1.1 Capitalised terms in this Agreement, unless defined in this Agreement shall, in so far as the context admits, have the same meaning in this Agreement as has been ascribed to them in the TSA.
- 1.2 Additionally, the following terms shall have the meaning hereinafter respectively assigned to them herein below:
- (i) **“Acquisition Price”** shall mean INR 12,50,65,812 (Rupees Twelve Crore Fifty Lakh Sixty-Five Thousand Eight Hundred Twelve Only) which is the aggregate consideration payable by the Selected Bidder towards purchase of the Sale Shares at par and for taking over of all assets and liabilities of the Company as on the Closing Date subject to adjustment as per the audited accounts of the Company as on the Closing Date;
  - (ii) **“Agreement”** or **“the Agreement”** or **“this Agreement”** shall mean this Share Purchase Agreement and shall include the recitals and/or annexures attached hereto, and the contracts, certificates, disclosures and other documents to be executed and delivered pursuant hereto, if any, and any amendments made to this Agreement by the Parties in writing;
  - (iii) **“Bid Process”** shall mean the competitive bidding process initiated by the BPC, by issuance of RFP for selecting a Successful Bidder to build, own, operate and transfer the Project in accordance with and on the terms and conditions mentioned in the RFP Project Documents;
  - (iv) **“Board”** shall mean the board of directors of the Company;
  - (v) **“Closing Date”** shall mean a mutually agreed date between the Parties falling within the period as mentioned in clause 2.15.2 of RFP or on failure of such mutual agreement between the Parties shall be the date falling on the last date of such period;
  - (vi) **“Encumbrance”** shall mean any mortgage, pledge, lien, charge, security assignment, hypothecation, trust, encumbrance or any other agreement having the effect of creating security interest;
  - (vii) **“Letter of Intent”** shall have the meaning ascribed thereto under the Bid Documents;
  - (viii) **“Nominees”** shall mean the Persons, who are named in Annexure A of this Agreement, holding the Sale Shares as nominees of REC PDCL;



- (ix) **“Party”** shall mean REC PDCL, Company and the Selected Bidder, referred to individually, and **“Parties”** shall mean REC PDCL, Company and the Selected Bidder collectively referred to, as relevant;
- (x) **“Person”** shall include an individual, an association, a corporation, a partnership, a joint venture, a trust, an unincorporated organisation, a joint stock company or other entity or organisation, including a government or political subdivision, or an agency or instrumentality thereof, and/or any other legal entity;
- (xi) **“RFP Project Documents”** shall mean the following documents, referred to collectively:
- a. Transmission Service Agreement; and
  - b. this Agreement.
- (xii) **“Representations and Warranties”** shall mean the representations and warranties mentioned in Clause 4 hereto;
- (xiii) **“RoC”** shall mean the Registrar of Companies;
- (xiv) **“Sale Shares”** shall mean 50,000 shares, representing one hundred percent (100%) of the total issued, subscribed and fully paid-up equity share capital of the Company held by the Shares Seller and Nominees as more particularly described in Annexure A attached hereto;
- (xv) **“Shares”** shall mean the fully paid-up equity shares of Company, of face value Rs. 10 each;
- (xvi) **“Shares Seller”** shall mean REC PDCL; and
- (xvii) **“Transmission Service Agreement”** or **“TSA”** means the agreement titled ‘Transmission Service Agreement’ to be executed on 24<sup>th</sup> March, 2025 between Central Transmission Utility of India Limited (CTUIL) and Ratle Kiru Power Transmission Limited, pursuant to which the TSP shall build, own, operate and transfer the Project and make available the assets of the Project on a commercial basis.

### 1.3 Interpretation Clause

Unless the context otherwise requires, the provisions of the TSA relating to the interpretation of the TSA shall apply to this Agreement as if they were set out in full in this Agreement and to this end are incorporated herein by reference.



## 2. TRANSFER OF SHARES

- 2.1 Subject to the terms and conditions of this Agreement, the Shares Seller agrees to sell and transfer to the Selected Bidder and the Selected Bidder hereby agrees to purchase from the Shares Seller, the Sale Shares free from Encumbrances together with all assets and liabilities of the Company with rights and benefits attached thereto in consideration of the Acquisition Price and the covenants, undertakings and the agreements of the Selected Bidder contained in this Agreement.
- 2.2 The Shares Seller hereby undertakes to cause the Nominees to transfer part of the Sale Shares held by them as nominees of the Shares Seller to the Nominees of Selected Bidder and execute any documents required to deliver good title to the Sale Shares to the Selected Bidder.

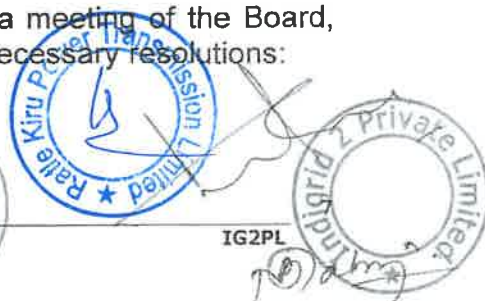
## 3. CLOSING

- 3.1 Prior to the Closing Date, the Selected Bidder shall provide to the Shares Seller, valid share transfer forms duly stamped with requisite amount of stamp duty payable on the transfer of the Sale Shares ("**Share Transfer Forms**").
- 3.2 On the Closing Date, the Shares Seller shall hand over to the Selected Bidder or its authorised representative, the original share certificates representing the Sale Shares ("**Sale Share Certificates**") executed by the Shares Seller and the Nominees, simultaneously against the Selected Bidder handing over to the Shares Seller, demand drafts drawn in favour of the Shares Seller or by confirmation of RTGS transfer in favour of the Shares Seller, for the Acquisition Price payable to it.

Provided that prior to the handing over of the Sale Share Certificates to the Selected Bidder as mentioned above, the Selected Bidder shall provide satisfactory evidence to REC PDCL that on the Closing Date, the Selected Bidder has furnished the Contract Performance Guarantee to Central Transmission Utility of India Limited (CTUIL) and is in a position to comply with all other requirements of Clause 2.15.2 of the RFP.

- 3.3 The Selected Bidder shall immediately upon receiving the Sale Share Certificates and the Share Transfer Forms, duly execute the Share Transfer Forms and duly lodge the Share Transfer Forms and the Share Certificates with the Company along with the names of its nominees to be appointed on the Board of the Company and the address within the jurisdiction of the Registrar of Companies of New Delhi and Haryana, which would be the new registered office of the Company. The Company shall, upon receipt of the said documents from the Selected Bidder, do the following:

- (i) Immediately on the Closing Date convene a meeting of the Board, wherein the Board shall pass the following necessary resolutions:



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- (a) approving the transfer of the Shares constituting the Sale Shares from the Shares Seller and the Nominees to the name of the **IndiGrid 2 Private Limited** and its nominees and transfer of all assets and liabilities of the Company as on Closing Date;
- (b) approving the **IndiGrid 2 Private Limited** and its nominees as the members of the Company and entering the name of the **IndiGrid 2 Private Limited** and its nominees in the register of members.
- (c) changing the address of the registered office of the Company to the new address as provided by the Selected Bidder as per clause 3.3 above.
- (d) appointing the nominees of the Selected Bidder on the Board and accepting the resignations of the other existing Directors on the Board and the Chair of the meeting which was taken by one of the existing Directors shall be vacated and appointment of a new Chairman who shall be one of the newly appointed Director, for the rest of the meeting.

Immediately pursuant to the acceptance of resignation of the existing Directors and appointment of new Chairman, the newly constituted Board of Directors shall continue with the meeting and pass the following resolution:

- (e) terminating all the authorizations granted regarding the business and/or operations of the Company or the operations of the bank accounts of the Company, with prospective effect; and
  - (f) acknowledging and accepting the terms and conditions as contained in the executed copies of the RFP Project Documents and to abide by the provisions contained therein.
- (ii) Enter the name of the **IndiGrid 2 Private Limited** and its nominees as the legal and beneficial owner of the Sale Shares, free of all Encumbrances, in the register of members of the Company;
  - (iii) Make the necessary endorsements on the Sale Share Certificates, indicating the name of the **IndiGrid 2 Private Limited** and its nominees as the legal and beneficial owner of the Sale Shares evidenced there under;
  - (iv) Return the original Sale Share Certificates, duly endorsed in the name of the **IndiGrid 2 Private Limited** and its nominees, to the **IndiGrid 2 Private Limited** and its nominees, as the case may be or its authorized representative;





- (v) Handover all the statutory registers and records, if any, of the Company to the Selected Bidder.
- (vi) Handover certified true copies of the Board resolution passed by the Company as per (i) (a) to (i) (f) of Clause 3.3 (i) to the Central Transmission Utility of India Limited (CTUIL).
- 3.4 The Parties to this Agreement agree to take all measures that may be required to ensure that all the events contemplated in the **Clauses 3.1 to 3.3** above on the Closing Date are completed on the same day.
- Notwithstanding the provisions of **Clause 3.3** hereto, all proceedings to be taken and all documents to be executed and delivered by the Parties at the Closing Date shall be deemed to have been taken and executed simultaneously and no proceedings shall be deemed to have been taken nor documents executed or delivered until all have been taken, executed and delivered.
- 3.5 The Selected Bidder hereby acknowledges and agrees that after the date of acquisition of one hundred percent (100%) of the Shares of the Company by the Selected Bidder as per Clause 3.3, (a) the authority of the BPC in respect of the Bid Process shall forthwith cease and any actions to be taken thereafter regarding the Bid Process will be undertaken by the Central Transmission Utility of India Limited (CTUIL) themselves, (b) all rights and obligations of the BPC shall cease forthwith, (c) all other rights and obligations of the Company shall be of the TSP and (d) any decisions taken by the BPC on behalf of the Company prior to the date of acquisition, shall continue to be binding on the Company and/or Central Transmission Utility of India Limited (CTUIL) as the case may be.
- 3.6 This Agreement shall be effective from the date of its signing by the Parties and shall remain in force until all the obligations of the respective Parties under Clause 3.3 hereto are fulfilled.

#### 4. REPRESENTATIONS AND WARRANTIES

- 4.1 The Selected Bidder hereby represents and warrants to the Shares Seller that:
- 4.1.1 The Selected Bidder has full legal right, power and authority to enter into, execute and deliver this Agreement and to perform the obligations, undertakings and transactions set forth herein, and this Agreement has been duly and validly executed and delivered by the Selected Bidder and constitutes its legal, valid and binding obligations, enforceable against it in accordance with its terms;

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- 4.1.2 The execution, delivery and performance of this Agreement by the Selected Bidder (i) will not violate or contravene any provision of the Memorandum of Association or Articles of the Selected Bidder, (ii) will not violate or contravene any law, statute, rule, regulation, licensing requirement, order, writ, injunction or decree of any court, governmental instrumentality or other regulatory, governmental or public body, agency or authority by which the Selected Bidder is bound or by which any of its and/or their properties or assets are bound, and (iii) except to the extent that the same have been duly and properly completed or obtained, will not require any filing with, or permit, consent or approval of or license from, or the giving of any notice to, any court, governmental instrumentality or other regulatory, governmental or public body, agency or authority, joint venture party, or any other entity or person whatsoever; and
- 4.1.3 The Selected Bidder is not restricted in any manner whatsoever, including without limitation, on account of any judicial or governmental order, action or proceeding, or any contractual obligation assumed by the Selected Bidder, from purchasing the Sale Shares from the Shares Seller in the manner provided for in this Agreement.
- 4.2 The Shares Seller hereby represents and warrants to the Selected Bidder that:
- 4.2.1 The Shares Seller and the Nominees are the legal and beneficial owners of the Sale Shares, free and clear of any Encumbrance and the delivery to the Selected Bidder of the Sale Shares pursuant to the provisions of this Agreement will transfer to the Selected Bidder a good title to the Sale Shares.
- 4.2.2 The Shares Seller has full legal right, power and authority to enter into, execute and deliver this Agreement and to perform the obligations, undertakings and transactions set forth herein. The execution, delivery and performance of this Agreement will not violate the Memorandum and Articles of Association of the Shares Seller or contravene any contract by which it is bound.
- 4.2.3 The Shares Seller has obtained requisite authorizations to sell and transfer the Sale Shares to the Selected Bidder. The Shares Seller also represent that it is not prevented from transferring and selling the Sale Shares. Also, to the best of its knowledge, the Sale Shares are not the subject matter of any claim or pending proceeding or threatened by any legal proceeding made by any third party.
- 4.3 Except as specified in Clause 4.2 above, the Shares Seller shall not be deemed to have, made any representation or warranty whatsoever, whether express or implied, in relation to the Sale Shares or Company, including but not limited to any implied warranty or representation as to the business or affairs of Company.

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Ratle Kiru Power Transmission Limited  
New Delhi  
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Ratle Kiru Power Transmission Limited

  
Ratle Kiru Power Private Limited



- 4.4 The Representations and Warranties are given as at the date of this Agreement except that where a Representation and Warranty is expressed to be made as at another date, the Representation and Warranty is given with respect to that date only.
- 4.5 Each Representation and Warranty is to be construed independently of the others and is not limited by reference to any other Warranty. The Representations, Warranties and undertakings contained in this **Clause 4** hereto or in any document delivered pursuant to or in connection with this Agreement are continuing in nature and shall survive the Closing Date for a period of one (1) year.
- 4.6 The Parties represent to each other that all Representations and Warranties provided herein by the respective Party shall be true as of Closing Date.

## 5. OBLIGATIONS OF THE SELECTED BIDDER

The Selected Bidder agrees that the Shares Seller shall not be liable in any manner, nor shall it assume any responsibility or liability whatsoever, in respect of the business of the Company and its operations or activities, arising after the Closing Date, to any Person or any authority, central, state, local or municipal or otherwise and the same shall be the sole responsibility of the Selected Bidder.

## 6. MISCELLANEOUS

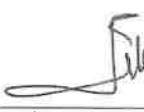

### 6.1 NOTICES

- a) All notices to be given under this Agreement shall be in writing and in the English language.
- b) All notices must be delivered personally or by registered or certified mail or by recognised courier to the addresses below:

Selected Bidder: **IndiGrid 2 Private Limited,**  
Unit No. 101, 1<sup>st</sup> Floor, Windsor, Village  
Kolekalyan, Off CST Road, Vidyanagari Marg,  
Santacruz (East), Mumbai – 400098,  
Maharashtra, India

REC PDCL: **REC Power Development and Consultancy  
Limited**  
Core-4, SCOPE Complex, 7, Lodhi Road, New  
Delhi-110003

Company: **Ratle Kiru Power Transmission Limited**  
Core-4, SCOPE Complex, 7, Lodhi Road, New  
Delhi-110003

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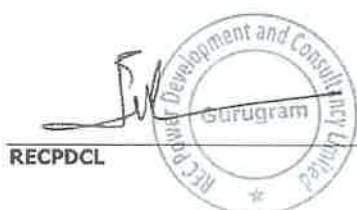
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- c) Any Party may by notice of at least fifteen (15) days to the other Parties change the address and / or addresses to which such notices and communications to it are to be delivered or mailed.

## 6.2 RESOLUTION OF DISPUTES

- 6.2.1 If any dispute arises between the Parties, in connection with the validity, interpretation, implementation or alleged breach of any provision of this Agreement (“Dispute”), the disputing Parties hereto shall endeavor to settle such Dispute amicably. The attempt to bring about an amicable settlement shall be considered to have failed if not resolved within sixty (60) days from the date of the Dispute.
- 6.2.2 If the Parties are unable to amicably settle the Dispute in accordance with Clause 6.2.1 within the period specified therein, any of the Parties shall be entitled to within thirty (30) days after expiry of the aforesaid period, refer the Dispute to the Chief Executive Officer/Director of REC PDCL and Chief Executive/ Managing Director of the Selected Bidder for resolution of the said Dispute. The attempt to bring about such resolution shall be considered to have failed if not resolved within thirty (30) days from the date of receipt of a written notification in this regard.
- 6.2.3 In the event the Dispute is not settled in accordance with Clause 6.2.2 above, any Party to the Dispute shall be entitled to serve a notice invoking this Clause and making a reference to a sole arbitrator. If the Parties to the Dispute cannot agree as to the appointment of the sole arbitrator within thirty (30) days of receipt of the notice of the Party making the reference, then the Shares Seller along with the Company shall appoint one arbitrator and the Selected Bidder shall appoint one arbitrator and the two arbitrators, so appointed shall appoint a third arbitrator. However, after the Closing Date, in such an event the Shares Seller shall appoint one arbitrator and the Selected Bidder along with the Company shall appoint one arbitrator and the two arbitrators, so appointed shall appoint the third arbitrator.
- 6.2.4 The place of the arbitration shall be New Delhi. The Arbitration proceedings shall be governed by the Arbitration and Conciliation Act, 1996.
- 6.2.5 The proceedings of arbitration shall be in English language.
- 6.2.6 The arbitrator’s award shall be substantiated in writing. The arbitrators shall also decide on the costs of the arbitration proceedings. In case the arbitrators have not decided on the costs of the arbitration proceedings, each Party to the Dispute shall bear its own costs, in relation to the arbitration proceedings.



### 6.3 AUTHORISED PERSON

For the purposes of this Agreement, the Selected Bidder is represented by Mr. Nitin Mahajan, pursuant to an authorization granted to Mr. Nitin Mahajan, through necessary Board resolutions. Further, Mr. Nitin Mahajan, is also authorized by such resolutions to take any decision which may be required to be taken, do all acts and execute all documents which are or may be required by the Selected Bidder for the proper and effective fulfillment of the rights and obligations under this Agreement. Any action taken or document executed by Mr. Nitin Mahajan, shall be deemed to be acts done or documents executed by the Selected Bidder and shall be binding on the Selected Bidder.

### 6.4 RESERVATION OF RIGHTS

No forbearance, indulgence or relaxation or inaction by any Party at any time to require performance of any of the provisions of this Agreement shall in any way affect, diminish or prejudice the right of such Party to require performance of that provision, and any waiver or acquiescence by any Party of any breach of any of the provisions of this Agreement shall not be construed as a waiver or acquiescence of any continuing or succeeding breach of such provisions, a waiver of any right under or arising out of this Agreement or acquiescence to or recognition of rights other than that expressly stipulated in this Agreement.

### 6.5 CUMULATIVE RIGHTS

All remedies of either Party under this Agreement whether provided herein or conferred by statute, civil law, common law, custom or trade usage, are cumulative and not alternative and may be enforced successively or concurrently.

### 6.6 PARTIAL INVALIDITY

If any provision of this Agreement or the application thereof to any person or circumstance shall be invalid or unenforceable to any extent, the remainder of this Agreement and the application of such provision to persons or circumstances other than those as to which it is held invalid or unenforceable shall not be affected thereby, and each provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law. Any invalid or unenforceable provision of this Agreement shall be replaced with a provision, which is valid and enforceable and most nearly reflects the original intent of the unenforceable provision.



## 6.7 TERMINATION

If (i) the Closing does not occur on the Closing Date for any reason whatsoever, or (ii) the Letter of Intent is withdrawn or terminated for any reason, or (iii) due to termination of the TSA by the Central Transmission Utility of India Limited (CTUIL) in accordance with Article 3.3.2 or Article 13 of the TSA thereof, REC PDCL shall have a right to terminate this Agreement forthwith by giving a written notice to the other Parties hereto.

## 6.8 AMENDMENTS

No modification or amendment of this Agreement and no waiver of any of the terms or conditions hereof shall be valid or binding unless made in writing and duly executed by all the Parties.

## 6.9 ASSIGNMENT

This Agreement and the rights and liabilities hereunder shall bind and inure to the benefit of the respective successors of the Parties hereto, but no Party hereto shall assign or transfer its rights and liabilities hereunder to any other Person without the prior written consent of the other Parties, which will not be unreasonably withheld.

## 6.10 ENTIRE AGREEMENT

This Agreement constitutes the entire Agreement between the Parties with respect to the subject matter herein and supersedes and cancels any prior oral or written agreement, representation, understanding, arrangement, communication or expression of intent relating to the subject matter of this Agreement.

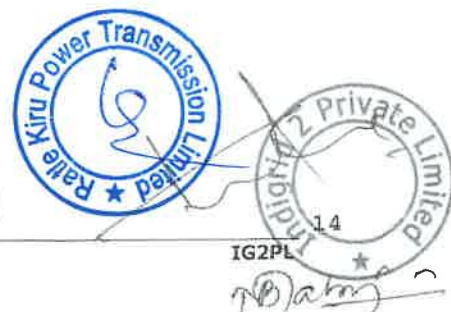
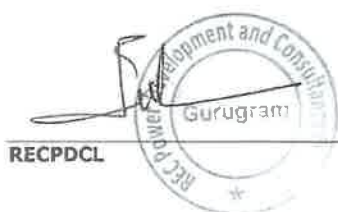
## 6.11 COSTS

Each of the Parties hereto shall pay their own costs and expenses relating to the negotiation, preparation and execution of this Agreement and the transactions contemplated by this Agreement.

The Selected Bidder shall be liable to bear and pay the costs in respect of this Agreement and transfer of Sale Shares.

## 6.12 RELATIONSHIP

None of the provisions of this Agreement shall be deemed to constitute a partnership between the Parties hereto and no Party shall have any authority to bind the other Party otherwise than under this Agreement or shall be deemed to be the agent of the other in any way.





**6.13 GOVERNING LAW AND JURISDICTION**

This Agreement shall be governed by and construed in accordance with the laws of India and shall be subject to the exclusive jurisdiction of the courts of Delhi.

**6.14 COUNTERPARTS**

This Agreement may be executed in counterparts by the Parties and each fully executed counterpart shall be deemed to be original.

**6.15 CONFIDENTIALITY**

The Parties undertake to hold in confidence and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:

- (a) to their professional advisors;
- (b) to their officers, employees, agents or representatives, who need to have access to such information for the proper performance of their activities;
- (c) disclosures required under Law;

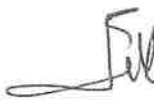
without the prior written consent of the other Parties.

Provided that the Central Transmission Utility of India Limited (CTUIL) and REC PDCL may at any time, disclose the terms and conditions of transactions contemplated hereby to any person, to the extent stipulated under the law or the Bidding Guidelines.

**6.16 INDEMNIFICATION**

The Parties hereby agree that transfer of Sale Shares to the Selected Bidder shall vest all the rights, privileges, licenses, responsibilities, liabilities and other obligations pertaining to the Company in the Selected Bidder.

- The Selected Bidder hereby agrees that the Selected Bidder shall not be entitled to any claims or initiate any legal proceedings by itself or through the Transmission Service Provider against the Shares Seller, its directors, officers, employees and the subscribers including the members of any committees appointed by them in respect of any actions or decisions taken by any of them up to the Closing Date in furtherance of the Project referred to in recital A of this Agreement.

  
 REC Power Development and Consultancy Limited  
 Gurugram

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 Ratle Kiru Power Transmission Limited  
 New Delhi  
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 Ratle Kiru Power Transmission Limited  
 Private Limited  
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- Further, the Selected Bidder hereby indemnifies and holds harmless at all times the Shares Seller against all past, present and future third party claims and liabilities arising out of actions or decisions taken by any of the persons or bodies referred to in Clause 6.3 up to the Closing Date in furtherance of the Project referred to above or otherwise concerning the Company. All such actions shall be defended by the Selected Bidder either itself or through the TSP at its own cost.
- The Parties hereby agree that the provisions of this clause shall survive the termination of this Agreement.

#### 6.17 SURVIVAL

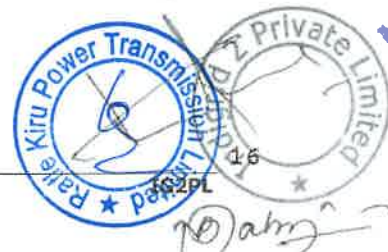
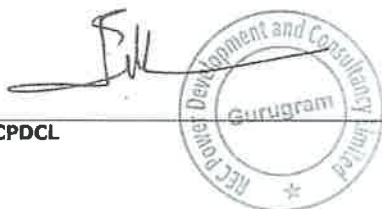
The provisions of Clause 1 (Definitions and Interpretation), Clause 4 (Representations and Warranties), Clause 6.2 (Resolution of Disputes), Clause 6.7 (Termination), Clause 6.15 (Confidentiality), Clause 6.16 (Indemnification) and other representations, warranties, covenants and provisions contained herein that by their nature are intended to survive, shall survive the termination of this Agreement

#### 6.18 FORCE MAJEURE

No party shall be liable for its inability or delay in performing any of its obligations hereunder if such delay is caused by circumstances beyond the reasonable control of the party including delay caused through flood, riot, Act of God, lighting civil commotion, storm, tempest and earthquake.

**IN WITNESS WHEREOF, THE PARTIES HERETO HAVE CAUSED THIS AGREEMENT TO BE DULY EXECUTED AND DELIVERED AS OF THE DAY AND YEAR FIRST ABOVE WRITTEN**

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SIGNED AND DELIVERED by the within named **REC POWER DEVELOPMENT AND CONSULTANCY LIMITED** by the hand of Sh. TSC Bosh, CEO

(Authorised pursuant to the resolution passed by its Board of Directors in its meeting held on 6<sup>th</sup> March, 2025)

IN THE PRESENCE OF:

WITNESS:  
(Name and address)

1. Anil Kumar Persala  
Chief Manager (Engg)
2. RITAM BISWAS  
ASST. MANAGER (ENG.)

P. Baid  
(Core-4, SCOPE Complex, 7,  
Lodhi Road, New Delhi-110003)

(Core-4, SCOPE Complex, 7,  
Lodhi Road, New Delhi-110003)

SIGNED AND DELIVERED by the within named **RATLE KIRU POWER TRANSMISSION LIMITED** by the hand of Sh. Mukul Agarwal, Chairman

(Authorised pursuant to the resolution passed by its Board of Directors in its meeting held on 24<sup>th</sup> March, 2025)

WITNESS:  
(Name and address)

(CH. V. LAKSHMANACHARYULU)  
GM & HD (FIN), RECPDCL.

(Core-4, SCOPE Complex, 7,  
Lodhi Road, New Delhi-110003)

RITU MADAN ARORA  
CHIEF MANAGER (CS)  
REC LIMITED

(Core-4, SCOPE Complex, 7,  
Lodhi Road, New Delhi-110003)

SIGNED AND DELIVERED by the within  
named **INDIGRID 2 PRIVATE LIMITED**  
by the hand of Mr. Nitin Mahajan



(Authorised pursuant to the resolution  
passed by its Board of Directors in its  
meeting held on 18<sup>th</sup> March, 2025)

WITNESS:  
(Name and address)

1. *Kunal Kumar*  
*Assistant Manager*

*Kunal Kumar*  
(Unit No. 101, 1<sup>st</sup> Floor, Windsor,  
Village Kolkalyan, Off CST Road,  
Vidyanagari Marg, Santacruz  
(East), Mumbai – 400098,  
Maharashtra, India)

2. *Nikita Ahuja*  
*Company Secretary*

*Nikita Ahuja*  
(Unit No. 101, 1<sup>st</sup> Floor, Windsor,  
Village Kolkalyan, Off CST Road,  
Vidyanagari Marg, Santacruz  
(East), Mumbai – 400098,  
Maharashtra, India)



**ANNEXURE A****DESCRIPTION OF THE SALE SHARES**

S. NO.	NAME OF THE SHAREHOLDER(s)	NUMBER OF EQUITY SHARES HELD	PERCENTAGE OF THE TOTAL PAID UP EQUITY CAPITAL
1.	REC Power Development and Consultancy Limited	49,994	99.988
2.	Shri Jaspal Singh Kushwaha *	1	0.002
3.	Shri Mukul Agarwal *	1	0.002
4.	Shri Ch. V. Lakshmana Charyulu *	1	0.002
5.	Shri Arun Kumar Chaturvedi *	1	0.002
6.	Shri Arvind Kumar *	1	0.002
7.	Shri Anil Kumar Perala *	1	0.002
	Total	50,000	100.000

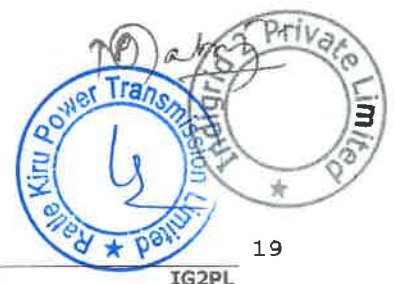
\* Held as nominee of REC PDCL.



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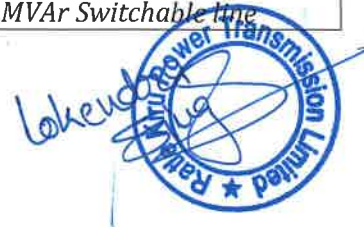
FORM-I				
Particulars of the Applicant				
<b>S.no</b>	<b>Name of the Applicant:</b>	Ratle Kiru Power Transmission Limited		
<b>ii</b>	<b>Status:</b>	<b>Individual/Partnership firm/Private Limited Company/Public Limited Company</b>	Public Limited Company	
<b>iii</b>	<b>Address:</b>	<b>Registered Office:</b> Shop No-28A, Ground Floor, Omaxe Square, Jasola, New Delhi- 110025 <b>Communication Address:</b> C/o IndiGrid Limited, 10 <sup>th</sup> Floor, Berger Tower, Delhi One Building, Sector-16B, DND Flyway, Noida, Uttar Pradesh- 201301		
<b>iv</b>	<b>Name, Designation &amp; Address of the Contact Person:</b>	Lokendra Singh Ranawat, Head Regulatory, 10 <sup>th</sup> Floor, Berger Tower, Delhi One Building, Sector-16B, DND Flyway, Noida, Uttar Pradesh- 201301.		
<b>v</b>	<b>Contact Tel. No.:</b>	+91 9311279183		
<b>vi</b>	<b>FAX No.:</b>			
<b>vii</b>	<b>Email Id:</b>	regulatory@indigrid.com		
<b>viii</b>	<b>Place of Incorporation/Registration:</b>	Delhi		
<b>ix</b>	<b>Year of Incorporation/Registration:</b>	23.10.2024		
<b>x</b>	<b>Following documents are to be enclosed:</b>			
<b>(a)</b>	<b>Certificate of Registration</b>	Not Applicable		
<b>(b)</b>	<b>Original Power of Attorney of the Signatory to commit the Applicant or its promoter</b>	Annexure- P-16		
<b>2</b>	<b>Particulars of the Project for which licence is being sought.</b>			
<b>(a)</b>	<b>Transmission Lines:</b>			
<b>S.No.</b>	<b>Name (End-points location)</b>	<b>Voltage Class (kV)</b>	<b>Length (Km)</b>	<b>Type (S/C or D/C)</b>
1	LILO of 400 kV Kishenpur-Dulhasti line (Twin) at Kishtwar S/s along with associated bays at Kishtwar S/s - 400 kV Kishenpur - Kishtwar (LILO section) shall be on Twin HTLS (with minimum 2100 MVA	400 KV	---	S/C



	<p>capacity) configuration.</p> <ul style="list-style-type: none"> <li>- 400 kV Dulhasti - Kishtwar (LILO section) shall be on Twin Zebra configuration.</li> <li>- 400 kV line bays at Kishtwar - 2 Nos. (GIS) (line bays at Kishtwar S/s end shall be rated accordingly).</li> </ul>			
2	<p>400 kV Kishenpur-Samba D/C line (Quad) (only one circuit is to be terminated at Kishenpur utilizing 1 No. of 400 kV vacated line bay at Kishenpur S/s (formed with bypassing of one ckt of 400 kV Kishtwar — Kishenpur 400 kV D/C line (Quad) at Kishenpur) while second circuit would be connected to bypassed circuit of 400 kV Kishtwar — Kishenpur line (Quad))</p>	400 KV	---	D/C
3	<p>Bypassing of one ckt of 400 kV Kishtwar - Kishenpur 400 kV D/C line (Quad) at Kishenpur and connecting it with one of the circuit of Kishenpur-Samba 400 kV D/C line (Quad), thus forming 400 kV Kishtwar - Samba (Quad) direct line (one ckt)</p>	400 kV	---	
4	<p>400 kV Samba- Jalandhar D/C line (Quad)  (only one circuit is to be terminated at Jalandhar utilizing 1 No. of 400 kV vacated line bay at Jalandhar S/s (formed with bypassing of 400 kV Jalandhar - Nakodar line (Quad) at Jalandhar) while second circuit would be connected to bypassed circuit of Jalandhar - Nakodar 400 kV line (Quad))</p>	400 kV	---	



5	Bypassing 400 kV Jalandhar - Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line(Quad Moose), thus forming 400 kV Samba - Nakodar (Quad) direct line	400 kV		---	
<b>(b) Sub-Stations:</b>					
S.No	Name (Location)	Voltage Level(s) (kV)	Transformer (Nos. and MVA capacity)	Reactive/capacitive compensation (device with MVAR capacity)	No. of bays
1	400 kV line bays at Kishtwar - 2 Nos. (GIS) (line bays at Kishtwar S/s end shall be rated accordingly)	400 kV			2 Nos. of 400 kV Line Bays at Kishtwar Substation (M/s Sterlite shall provide space for 2 Nos. of 400 kV line bays (GIS) at Kishtwar S/s)
2	1x63 MVAR Switchable line reactor on each ckt at Jalandhar end of Kishenpur-Jalandhar D/C direct line - 171 km (Twin) (formed after bypassing both ckts of 400 kV Kishenpur - Samba D/C line (Twin) and 400 kV Samba - Jalandhar D/C line (Twin) at Samba and connecting them together to form Kishenpur-Jalandhar D/C direct line (Twin)) <ul style="list-style-type: none"> <li>420 kV, 63 MVAR switchable line reactors at Jalandhar S/s end- 2 Nos.</li> <li>Switching equipment for 420kV, 63 MVAR switchable line reactors at Jalandhar S/s end - 2 Nos.</li> </ul>	400 kV		420 kV, 63 MVAR switchable line reactors at Jalandhar S/s end- 2 Nos.	Switching equipment for 420kV, 63 MVAR switchable line reactors at Jalandhar S/s end - 2 Nos.  (M/s POWERGRID shall provide space for 2 Nos. 63 MVAR Switchable line reactor (along with switching equipment) at Jalandhar end of Kishenpur-Jalandhar D/C direct line (on each ckt))
2	1x80 MVAR Switchable line reactor at Samba end of 400 kV Kishtwar-Samba 400 kV line-165 km (Quad) [formed after bypassing of 400 kV Kishtwar - Kishenpur line (Quad) at Kishenpur and connecting it with one of the	400 kV		420 kV, 80 MVAR switchable line reactors at Samba S/s end- 1 No.	Switching equipment for 420kV, 80 MVAR switchable line reactors at Samba S/s end - 1 No  (M/s POWERGRID shall provide space for 1 No. 80 MVAR Switchable line





	<p>circuit of Kishenpur-Samba 400 kV D/C line(Quad))</p> <ul style="list-style-type: none"> <li>• 420 kV, 80 MVAR switchable line reactors at Samba S/s end- 1 No.</li> <li>• Switching equipment for 420kV, 80 MVAR switchable line reactors at Samba S/s end - 1 No.</li> </ul>				<p>reactor (along with switching equipment) at Samba end of 400 kV Kishtwar-Samba 400 kV line)</p>
3	<p>1x80 MVAR Switchable line reactor at Samba end of Samba -Nakodar direct line (Quad) (187km) formed after bypassing of 400 kV Jalandhar - Nakodar line (Quad) at Jalandhar and connecting it with one of the circuit of Samba-Jalandhar 400 kV D/C line (Quad Moose), thus forming Samba -Nakodar line (Quad)</p> <ul style="list-style-type: none"> <li>• 420 kV, 80 MVAR switchable line reactors at Samba S/s end- 1 No.</li> <li>• Switching equipment for 420 kV, 80 MVAR switchable line reactors at Samba S/s end - 1 No.</li> </ul>	400 kV		<p>420 kV, 80 MVAR switchable line reactors at Samba S/s end- 1 No</p>	<p>Switching equipment for 420 kV, 80 MVAR switchable line reactors at Samba S/s end - 1 No</p> <p>(M/s POWERGRID shall provide space for 1 No. 80 MVAR Switchable line reactor (along with switching equipment) at Samba end of Samba - Nakodar direct line)</p>
(c)	<b>Commissioning Schedule:</b>	24 Months from the date of SPV Transfer, i.e. 24.03.2027			
(d)	<b>Identified Long-term transmission customers / Nodal Agency in the Project:</b>	1. Central Transmission Utility of India Ltd.			
	<b>(Agreements or status of discussion on Agreements to be submitted along with application</b>				
(e)	<b>Any other relevant information</b>	Not Applicable			
3	<b>Levelized transmission charges in case of project selected through the transparent process of competitive bidding and Estimated completion cost of the project in other cases:</b>	Levelized tariff is Rs 1952.32 million/ Year			



	(The levelized transmission charges Estimated cost should be indicated in INR, along with the base month and year in case of the estimated cost)	
4	In case applicant has been selected in accordance with the competitive bidding, enclose:	
(a)	Recommendation of selection by Empowered Committee Evaluation report public by the bid Process Coordinator	Annexure-P-9
5	List of Documents Enclosed:	
	Name of document	
a)	Article of Association	Annexure-P-2
b)	Certificate of Incorporation	Annexure-P-1
c)	Certified true copy of the resolution passed by the board of directors of the company on March 22, 2023	Annexure-P-16
d)	Memorandum of Association	Annexure-P-2

Dated: Delhi

Place: 28.03.2025

Lokendra Singh  


(Signature of Applicant or the Person Authorized)

Annexure P-16

**RATLE KIRU POWER TRANSMISSION LIMITED**

Corporate Office: Unit No. 101, First Floor, Windsor, Village Kolkalyan, off CST Road,  
Vidyanagari Marg, Kalina, Santacruz (East), Mumbai – 400098



**CERTIFIED TRUE COPY OF RESOLUTION PASSED BY BOARD OF DIRECTORS OF THE  
COMPANY IN THEIR BOARD MEETING HELD ON MARCH 24, 2025**

**Authorisation to communicate with Authorities on behalf of the Company**

“RESOLVED THAT any of the Directors or Mr. Satish Talmale, the Authorised Signatory or Mr. Abhay Kumar, Authorised Signatory or Mr. Puneet Singh Chauhan, Authorised Signatory or Mr. Lokendra Singh Ranawat, the Authorised Signatory or Mr. Ramil Gupta, the Authorised Signatory (collectively the “Authorised Representatives”) of the Company be and are hereby severally authorized to communicate with the Authorities such as Central Transmission Utility (CTU)/ State Transmission Utility (STU) Central Electricity Authority/ Central Electricity Regulatory Commission/ Power Generating Companies/ Solar Park Developer/ RE Generators/ Any other Transmission Licensees/ Ministry of Environment, Forest and Climate Change/ Ministries of Central Government, Department and Authorities/ Ministries of State Government, Department and Authorities, as may be authorised for submitting application for Grant of Transmission License, Tariff Adoption under Section 63 of Electricity Act 2003, approval under Section 164 of Electricity Act 2003, granting of necessary permission for lawful execution of the Company's project etc., the designated bank account of the Company for realization of tariff and request the CTU to update the same in their records / systems to ensure that the tariff is realized in the said designated bank account of the Company.

RESOLVED FURTHER THAT aforesaid Authorised Representatives of the Company be and are hereby severally authorised to do all such acts, deeds, matters and things necessary or desirable in connection with or incidental to giving effect to the above resolution including issuance of a certified true copy of this resolution.”

//Certified True Copy//

For and on behalf of

Ratle Kiru Power Transmission Limited



**Puneet Singh Chauhan**

Director

DIN: 10054621

Date : 25.03.2025

Place: Unit 101, 1<sup>st</sup> Floor, Windsor village, Off CST Road,  
Santacruz (East), Mumbai (M.H.) – 400098



Registered Office: Shop No-28A, Ground Floor, Omaxe Square, Jasola, New Delhi- 110025

CIN: U42202DL2024GO1438102

Email: [complianceofficer@indigrid.com](mailto:complianceofficer@indigrid.com) || Ph.: +91 72084 93885

**CERTIFIED TRUE COPY OF RESOLUTION PASSED BY BOARD OF DIRECTORS OF THE  
COMPANY IN THEIR BOARD MEETING HELD ON MARCH 24, 2025**

**Authorisation for execution of Connectivity Agreement**

“RESOLVED THAT consent of the Board be and is hereby accorded to enter into the connection agreement as per the provision of Central Electricity Regulatory Commission Regulations, 2009 or any other provision as may be applicable, to be executed between the Company, Central Transmission Utility of India Limited (“CTUIL”) and Power Grid Corporation of India Limited (“PGCIL”) to avail facility to the CTUIL’s Transmission and Communication System (via the applicant’s Site-Related Connection Equipment) at the Connection Point of the transmission lines of the company.

RESOLVED FURTHER THAT any Director of the Company or Mr. Satish Talmale, the Authorised Signatory or Mr. Abhay Kumar, Authorised Signatory or Mr. Puneet Singh Chauhan, Authorised Signatory or Mr. Lokendra Singh Ranawat, the Authorised Signatory or Mr. Ramil Gupta, the Authorised Signatory (collectively the “Authorised Representatives”) of the Company be and are hereby severally authorised to sign and execute such agreements, deeds, amendments, supplements and other documents incidental thereto for and behalf of the Company and to take all actions and to do all such acts, deeds, matters and things necessary or desirable in connection with or incidental to giving effect to the above resolution.

RESOLVED FURTHER THAT any Director of the company be and is hereby authorised to furnish certified true copy of this resolution to any concerned person/authority as may be required.”

//Certified True Copy//

**For and on behalf of  
Ratle Kiru Power Transmission Limited**



**Puneet Singh Chauhan**  
**Director**  
**DIN: 10054621**

Date : 25.03.2025

Place: Unit 101, 1<sup>st</sup> Floor, Windsor village, Off CST Road,  
Santacruz (East), Mumbai (M.H.) - 400098



**RATLE KIRU POWER TRANSMISSION LIMITED**

Corporate Office: Unit No. 101, First Floor, Windsor, Village Kolkalyan, off CST Road,  
Vidyanagari Marg, Kalina, Santacruz (East), Mumbai – 400098



**CERTIFIED TRUE COPY OF RESOLUTION PASSED BY BOARD OF DIRECTORS OF THE  
COMPANY IN THEIR BOARD MEETING HELD ON MARCH 24, 2025**

**License and tariff adoption from Central Electricity Regulatory Commission (CERC)**

“RESOLVED THAT the Company do execute the project for establishment of Inter-State transmission system for “Transmission scheme for evacuation of power from Ratle HEP (850 MW) & Kiru HEP (624 MW): Part-A” (hereinafter referred to as “Project”) on Build, Own, Operate and Transfer (BOOT) basis as awarded to the Company by REC Power Development and Consultancy Limited, the Bid Process Coordinator, appointed by the Ministry of Power.

RESOLVED FURTHER THAT any of the Directors of the Company or Mr. Abhay Kumar, Authorised Signatory or Mr. Lokendra Ranawat or Mr. Puneet Singh Chauhan, Authorised Signatory (collectively the “Authorised Representatives”) be and are hereby severally authorized to:-

- make an application to “Central Electricity Regulatory Commission” (CERC) for grant of License under Electricity Act and Tariff Adoption, approval for creation of security and to execute all necessary applications, documents, undertakings in connection therewith and personally appear before CERC or any other related statutory authority as may be required.
- appoint any consultant for representing to CERC.
- deal with any Long-Term Transmission Customers or any other statutory agency for the purpose of License and Tariff Adoption.
- do all such acts, deeds, matters and things necessary to give effect to this resolution.

RESOLVED FURTHER THAT certified true copy of this resolution duly certified by any of the Directors be given to any regulatory authority including CERC for its records.”

// Certified True Copy //

For and on behalf of

Ratle Kiru Power Transmission Limited



Puneet Singh Chauhan

Director

DIN: 10054621

Date : 25.03.2025

Place: Unit 101, 1<sup>st</sup> Floor, Windsor village, Off CST Road,  
Santacruz (East), Mumbai (M.H.) - 400098



Registered Office: Shop No-28A, Ground Floor, Omaxe Square, Jasola, New Delhi- 110025

CIN: U42202DL2024GOI438102

Email: [complianceofficer@indigrid.com](mailto:complianceofficer@indigrid.com) || Ph.: +91 72084 93885

**BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION, AT NEW  
DELHI**

**PETITION NO. \_\_\_/TL/2025**

**IN THE MATTER OF:**

Ratle Kiru Power Transmission Ltd.

...Petitioner

Versus

Central Transmission Utility of India  
Ltd. & Anr.

...Respondents

**VAKALATNAMA**

I, Lokendra Singh Ranawat, Son of Shri B.S. Ranawat, aged about 40 years, Authorized Signatory of Ratle Kiru Power Transmission Ltd., Petitioner herein, having my office at Unit No 101, First Floor, Windsor Village, KoleKalyan Off CST Road, Vidyanagari Marg, Santacruz, (East), Mumbai, Maharashtra 400098, duly authorized thereof, hereby appoint and retain Ms. Aparajita Upadhyay, Advocate to act and appear for us in the above Petition on our behalf to conduct and prosecute (or defend) the same and all proceedings that may be taken in respect of any application connected with the same or any decree or other passed herein, to file and obtain return of documents, and to deposit and receive on my/our behalf in the said Petition and represent me/us and to take all necessary steps on my/our behalf in the above matter. I/We agree to ratify all acts done by the aforesaid Advocate in pursuance of this authority.

Place: Noida

Signature of the Party



Date:

Executed in my presence.

“Accepted”

**Aparajita Upadhyay, Advocate**  
[Enrollment No. D/3808/2016]

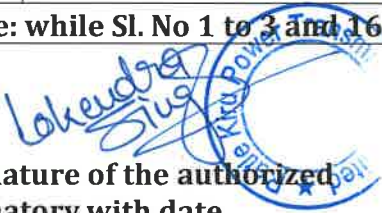
**Lokendra Singh Ranawat**  
Authorized Signatory  
Ratle Kiru Power Transmission  
Ltd.



<b>FORM-I</b>		
<b>Particulars</b>		
1	Name of the Petitioner/Applicant	Ratle Kiru Power Transmission Limited
2	Address of the Petitioner/Applicant	Shop No-28A, Ground Floor, Omaxe Square, Jasola, New Delhi- 110025
3	Subject Matter	Petition under Sections 14, 15, 79(1)(e) of the Electricity Act, 2003 read with Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other related matters) Regulations, 2009 seeking Transmission License for Ratle Kiru Power Transmission Limited for the Transmission Project to be constructed through tariff based competitive bidding
4	Petition No...if any	P.NO...../TL/2025
5	Details of generation assets a) Generating station/units b) Capacity in MW c) Date of commercial operation d) Period for which fee paid e) Amount of fee paid f) Surcharge, if any	Not Applicable
6	Details of transmission assets a) Transmission line and sub-stations b) Date of commercial operation c) Period for which fee paid d) Amount of fee paid e) Surcharge, if any	Not Applicable
7	Fee paid for Adoption of tariff for a) Generation asset b) Transmission asset	Not Applicable
8	Application fee for licence a) Trading licence b) Transmission licence c) Period for which paid d) Amount of fee paid	b) Transmission License
9	Fees paid for Miscellaneous Application	Not Applicable
10	Fees paid for Interlocutory Application	Not Applicable



*Lokendra Singh*

<b>FORM-I</b>		
<b>Particulars</b>		
11	Fees paid for Regulatory compliance Petition	Not Applicable
12	Fees paid for Review Application	Not Applicable
13	Licence fee for Inter-State Trading a) Category b) Period c) Amount of fee paid d) Surcharge, if any	Not Applicable
14	Licence fee for Inter-State Transmission a) Expected /Actual transmission charge b) Period c) Amount of fee calculated as a percentage of transmission charge d) Surcharge, if any	Not Applicable
15	Annual Registration Charge for Power Exchange a) Period b) Amount of turnover c) Fee paid d) Surcharge, if any	Not Applicable
16	Details of fee remitted. a) UTR No. b) Date of remittance c) Amount remitted	NEFT: ICICN52025032800266409/BANK OF a) UTR No: INDIA/CERCU b) Amount: Rs. 1,00,000/- c) Date: 28.03.2025
<b>Note: while Sl. No 1 to 3 and 16 compulsory, the rest may be filled up as applicable.</b>		
 Signature of the authorized Signatory with date		