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.

<table>
<tr><th>Sl. No.</th><th>Clause No.</th><th>Existing/New Clause</th><th>New/Revised Clause</th></tr>
<tr><td>1.</td><td>Clause B.1.2 of RFP & TSA

SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION</td><td>B.1.2 Switching Scheme

New clause added</td><td>B.1.2 Switching Scheme

Notes: -

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(vi) <u>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.</u></td></tr>
<tr><td>2.</td><td>Clause B.5.0 of RFP & TSA

SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION</td><td>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.</td><td>B.5.0 EXTENSION OF EXISTING SUBSTATION

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<tr><th>Sl. No.</th><th>Drawing Title</th><th>Drawing No./Details</th><th>Rev. No.</th></tr>
<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
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
Model: GSC1000</u></td><td>--</td></tr>
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<tr><td><u>B.</u></td><td><u>400 kV Kishenpur 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>JKEEPL/PGCIL/KSS/KISHENPUR-01</u></td><td><u>0</u></td></tr>
<tr><td><u>2.0</u></td><td><u>General Arrangement</u></td><td><u>C/ENGG-SS/NR/KISHANPUR-EXTN/GA/01</u></td><td><u>00</u></td></tr>
<tr><td><u>3.0</u></td><td><u>Visual Monitoring System</u></td><td><u>Make: Pelco
Model: BFB0512HH</u></td><td>--</td></tr>
<tr><td><u>4.0</u></td><td><u>Bus Bar Protection (400 kV System)</u></td><td><u>Make: ABB
Model: RADSS
Make: ALSTOM
MSFC-34</u></td><td>--</td></tr>
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<tr><th>Sl. No.</th><th>Drawing Title</th><th>Drawing No./Details</th><th>Rev. No.</th></tr>
<tr><td><u>C.</u></td><td><u>400 kV Samba 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>V-30/E-DRG/SLD/S/001</u></td><td><u>R0</u></td></tr>
<tr><td><u>2.0</u></td><td><u>General Arrangement</u></td><td><u>G&B-PGSS-SAM-E-005</u></td><td><u>00</u></td></tr>
<tr><td><u>3.0</u></td><td><u>Earthmat Layout</u></td><td><u>G&B-PGSS-SAM-E-009</u></td><td><u>00</u></td></tr>
<tr><td><u>4.0</u></td><td><u>Visual Monitoring System</u></td><td><u>Make: PELCO
Model: D62302-US</u></td><td>--</td></tr>
<tr><td><u>5.0</u></td><td><u>Bus Bar Protection (400 kV System)</u></td><td><u>Make: Alstom
Model: P741</u></td><td>--</td></tr>
<tr><td><u>6.0</u></td><td><u>Substation Automation System (SAS)</u></td><td><u>Make: Alstom
Model: DS Agile OI Client 5.3.4.2 build 1</u></td><td>--</td></tr>
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<tr><td><u>D.</u></td><td><u>400 kV Jalandhar 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>G&B PGSS-JLN-E-001</u></td><td><u>1</u></td></tr>
<tr><td><u>2.0</u></td><td><u>General Arrangement</u></td><td><u>G&B-PGSS-JLN-E-002 (SHEET 1 OF 2 & 2 OF 2)</u></td><td><u>1</u></td></tr>
<tr><td><u>3.0</u></td><td><u>Earthmat Layout</u></td><td><u>G&B-PGSS-JLN-E-012</u></td><td><u>00</u></td></tr>
<tr><td><u>4.0</u></td><td><u>Visual Monitoring System</u></td><td><u>Make: PELCO
Model:</u></td><td>--</td></tr>
<tr><td><u>5.0</u></td><td><u>Bus Bar Protection (400 kV System)</u></td><td><u>400KV
Make: GE
Model: B90
220KV
Make: ABB
Model: RADSS</u></td><td>--</td></tr>
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<tr><td>3.</td><td>Clause A.6.0 RFP & TSA

SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINE</td><td>(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</td><td><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.</u>

<u>(B)</u> 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.

<u>(C)</u> 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.</td></tr>
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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.	**(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.
4.	Clause A.21.0 RFP & TSA Specific Technical Requirements for Transmission Line	**New Clause**	**The stringing of the transmission line in forest area shall be carried out through drone.**
5.	Clause A.22.0 RFP & TSA Specific Technical Requirements for Transmission Line	**New Clause**	**The tower shall be designed considering the porcelain Insulators with creepage factor of 31 mm/ kV irrespective of type of insulator used.**
6.	Clause A.23.0 RFP & TSA Specific Technical Requirements for Transmission Line	**New Clause**	**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.**