Amendment-1 (dated: 05.11.2024) to RFP Documents for "Transmission system for evacuation of RE power from Raghanesda area of Gujarat – 3 GW under Phase-I" through tariff based competitive bidding process.

<table>
<tr><th>Sl. No.</th><th>Clause No.</th><th>Existing Clause</th><th>New/Revised Clause</th></tr>
<tr><td>1</td><td>RFP
Specific Technical Requirements for Substation
Clause no. B.1.2</td><td>xi) 765 kV Banaskantha Extn: Refer attached SLD & GA drawing of Banaskantha S/S. Raghanesda – Banaskantha (PG) 765 kV D/c line shall be terminated in existing diameters for which Main Bays shall be constructed (Tie bays are existing) under present scope as marked in GA drawing. Further, all associated interconnection work shall also be in the present scope of TSP.</td><td>xi) 765 kV Banaskantha Extn: Refer attached SLD (Drg. No. C/ENGG/WR-II/BANASKANTHA/SLD/1) & GA drawing (GNB-PGCIL-BNK-ELE-003) of Banaskantha S/S. One circuit of Radhanesda – Banaskantha (PG) 765 kV D/c line shall be terminated in new diameter for which Main and Tie bays shall be constructed under present scope. Other circuit of Radhanesda – Banaskantha (PG) 765 kV D/c line shall be terminated in existing diameter for which Main Bay shall be constructed (Tie bay is existing) under present scope. Further, all associated interconnection work shall also be in the present scope of TSP.</td></tr>
<tr><td>2</td><td>RFP
Specific Technical Requirements for Substation
Clause no. B.5</td><td>B.5 EXTENSION OF EXISTING SUBSTATION
The following drawings/details of existing substation is attached with the RFP documents for further engineering by the bidder.
<table>
<tr><th>Sl. No.</th><th>Drawing Title</th><th>Drawing No./Details</th><th>Rev. No.</th></tr>
<tr><td>A.</td><td colspan="3">765/400 kV Banaskantha S/s</td></tr>
<tr><td>1.0</td><td>Single Line Diagram</td><td>GNB-PGCIL-BNK-ELE-002</td><td>2</td></tr>
<tr><td>2.0</td><td>General Arrangement</td><td>GNB-PGCIL-BNK-ELE-003</td><td>5</td></tr>
<tr><td>3.0</td><td>Earthmat Layout</td><td></td><td></td></tr>
<tr><td>4.0</td><td>Visual Monitoring System</td><td></td><td></td></tr>
<tr><td>5.0</td><td>Bus Bar Protection</td><td></td><td></td></tr>
<tr><td>6.0</td><td>Substation Automation System</td><td></td><td></td></tr>
</table></td><td>B.5 EXTENSION OF EXISTING SUBSTATION
The following drawings/details of existing substation is attached with the RFP documents for further engineering by the bidder.
<table>
<tr><th>Sl. No.</th><th>Drawing Title</th><th>Drawing No./Details</th><th>Rev. No.</th></tr>
<tr><td>A.</td><td colspan="3">765/400 kV Banaskantha S/s</td></tr>
<tr><td>1.0</td><td>Single Line Diagram</td><td>C/ENGG/WR-II/BANASKANTHA/SLD/1</td><td>-</td></tr>
<tr><td>2.0</td><td>General Arrangement</td><td>GNB-PGCIL-BNK-ELE-003</td><td>5</td></tr>
<tr><td>3.0</td><td>Earthmat Layout</td><td>TR202135-1001587-SS1623-EMAT-LAYOUT</td><td>R2</td></tr>
<tr><td>4.0</td><td>Visual Monitoring System</td><td>TB-384-510-018</td><td>R1</td></tr>
</table></td></tr>
</table>

<table>
<tr><th>Sl. No.</th><th>Clause No.</th><th>Existing Clause</th><th>New/Revised Clause</th></tr>
<tr><td></td><td></td><td>
<table>
<tr><td></td><td>(SAS)</td><td></td><td></td></tr>
</table>
</td><td>
<table>
<tr><td>5.0</td><td>Bus Bar Protection</td><td>Make: NR Model: PCS 915</td><td>-</td></tr>
<tr><td>6.0</td><td>Substation Automation System (SAS)</td><td>Make: NR electric Model: PCS 9700 Ver 1.16 (Drg. No. 2028-NR-IN.SASAR)</td><td>R2</td></tr>
</table>
</td></tr>
<tr><td>3</td><td>RFP
Clause no. 1.2</td><td>
1.2 The TSP will be required to establish the following Inter State Transmission System for "Transmission system for evacuation of RE power from Raghanesda Area of Gujarat-3GW under Phase-I" (hereinafter referred to as 'Project') on build, own, operate and transfer basis, and to provide transmission service.
<table>
<tr><th colspan="3">Transmission system for evacuation of RE power from Raghanesda Area of Gujarat-3GW under Phase-I</th></tr>
<tr><th>S No.</th><th>Name of Transmission Element</th><th>Scheduled COD from Effective Date</th></tr>
<tr><td>1</td><td>Establishment 3x1500 MVA, 765/400 kV Substation near Raghanesda (GIS) with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor
…
…</td><td>…..</td></tr>
</table>
</td><td>
1.2 The TSP will be required to establish the following Inter State Transmission System for "Transmission system for evacuation of RE power from Raghanesda Area of Gujarat-3GW under Phase-I" (hereinafter referred to as 'Project') on build, own, operate and transfer basis, and to provide transmission service.
<table>
<tr><th colspan="3">Transmission system for evacuation of RE power from Raghanesda Area of Gujarat-3GW under Phase-I</th></tr>
<tr><th>S No.</th><th>Name of Transmission Element</th><th>Scheduled COD from Effective Date</th></tr>
<tr><td>1</td><td>Establishment 3x1500 MVA, 765/400 kV Substation near Raghanesda (GIS) with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor
…
…</td><td>……</td></tr>
</table>
</td></tr>
</table>

Sl. No.	Clause No.	Existing Clause	New/Revised Clause
		Future Scope (Space for): …. …. • 220 kV BC : 1 No. …..	Future Scope (Space for): …. …. • 220 kV BC : **2 Nos.** …..
4.	Clause B.1.2(x) of RFP	. . . Provision of 220 kV Bus Sectionalization (Future) and space provision shall be with the following feeder distribution. **220 kV Bus Section-1 (Future)**: a) 4 Nos. of future 400/220 kV ICT; b) 6 Nos. of future 220 kV Line **220 kV Bus Section-2 (Future)**: a) 4 Nos. of future 400/220 kV ICT; b) 6 Nos. of future 220 kV Line	. . . Provision of 220 kV Bus Sectionalization (Future) and space provision shall be with the following feeder distribution. **220 kV Bus Section-1 (Future)**: a) 4 Nos. of future 400/220 kV ICT; b) 6 Nos. of future 220 kV Line; c) **1 No. future Bus coupler** **220 kV Bus Section-2 (Future)**: a) 4 Nos. of future 400/220 kV ICT; b) 6 Nos. of future 220 kV Line; c) **1 No. future Bus coupler**
5.	Clause A.7.0 of RFP	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 (or 230 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	**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 (or 230 kV) voltage level, angle towers (B/C/D/DB/DC/DD/ QB/QC/QD)

Amendment-1 (dated: 05.11.2024) to RFP Documents for "Transmission system for evacuation of RE power from Raghanesda area of Gujarat – 3 GW under Phase-I" through tariff based competitive bidding process.

Sl. No.	Clause No.	Existing Clause	New/Revised Clause
		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.	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.
6.	Clause A.23.0 of RFP	New Clause	The stringing of the transmission line in forest area shall be carried out through drone.
7.	Clause A.24.0 of RFP	New Clause	The tower shall be designed considering the porcelain Insulators with creepage factor of 31 mm/ kV irrespective of type of insulator used.
8.	Clause A.11.0 of RFP	Shielding angle shall not exceed for 765 kV D/C transmission line.	Shielding angle shall not exceed 10 deg for 765 kV D/C transmission line.