Amendment – VI dated 24.08.2020 on the Request for Proposal and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish "Transmission System Strengthening Scheme for Evacuation of power from Solar Energy Zones in Rajasthan (8.1 GW) under Phase II (Part A)" through tariff based competitive bidding process

<table>
<tr><th>Sl. No.</th><th>Clause</th><th>Existing Clause</th><th>New / Revised Clause</th></tr>
<tr><td>1.</td><td>Scope of Work in RFP & TSA</td><td>Scope of Work
<table><tr><th rowspan="2">S.No</th><th colspan="2">Transmission System for Transmission System Strengthening Scheme for Evacuation of power from solar energy zones in Rajasthan (8.1 GW) under phase II – Part A</th></tr><tr><th>Name of Transmission Element</th><th>Scheduled COD in months from Effective Date</th></tr><tr><td>1.</td><td>Establishment of 400/220 kV, 4x500 MVA at Ramgarh – II PS with 420kV (2x125 MVAR) bus reactor
400/220kV, 500 MVA ICT – 4
400kV ICT bays – 4
220kV ICT bays – 4
400kV line bays – 4
220kV line bays – 7
125 MVAr, 420 kV bus reactor-2
420kV reactor bay – 2

Future provisions:
<u>Space for 400/220 kV ICTs along with bays: 2</u>
<u>400 kV line bays along with switchable line reactor:2</u>
<u>220 kV line bays:4</u>
<u>420 kV reactors along with bays: 1</u>
<u>220kV Bus sectionalizer bay: 2 nos. (one no. for each Main Bus)</u></td><td>18 months</td></tr></table></td><td>Scope of Work
<table><tr><th rowspan="2">S.No</th><th colspan="2">Transmission System for Transmission System Strengthening Scheme for Evacuation of power from solar energy zones in Rajasthan (8.1 GW) under phase II – Part A</th></tr><tr><th>Name of Transmission Element</th><th>Scheduled COD in months from Effective Date</th></tr><tr><td>1.</td><td>Establishment of 400/220 kV, 4x500 MVA at Ramgarh – II <u>(Fatehgarh-III)</u> PS with 420kV (2x125 MVAR) bus reactor
400/220kV, 500 MVA ICT – 4
400kV ICT bays – 4
220kV ICT bays – 4
400kV line bays – 4
220kV line bays – 7
125 MVAr, 420 kV bus reactor-2
420kV reactor bay – 2

Future provisions:
<u>Space for</u>
<u>765/400kV ICTs along with bays: 8 nos.</u>
<u>765kV line bay along with switchable line reactor: 8 nos.</u>
<u>765kV Bus Reactor along with bays: 3 nos.</u>
<u>400/220 kV ICTs along with bays: 8 nos.</u>
<u>400 kV line bays along with switchable line reactor: 10 nos.</u></td><td>18 months</td></tr></table></td></tr>
</table>

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<tr><th>Sl. No.</th><th>Clause</th><th>Existing Clause</th><th>New / Revised Clause</th></tr>
<tr>
<td></td>
<td></td>
<td>
<table>
<tr><td>2.</td><td>Ramgarh-II PS – Fatehgarh- II PS 400kV D/c line (Twin HTLS*)</td><td>18 months</td></tr>
<tr><td>3.</td><td>2 no. of 400 kV line bays at Fatehgarh- II for Ramgarh – II PS– Fatehgarh-II PS 400kV D/c line</td><td>18 months</td></tr>
<tr><td>4.</td><td>Ramgarh –II PS– Jaisalmer-II (RVPN) 400 kV D/c line (Twin HTLS*)</td><td>18 months</td></tr>
<tr><td>5.</td><td>2 no. of 400 kV line bays each at Jaisalmer- II for Ramgarh – II - Jaisalmer-II 400kV D/c line</td><td>18 months</td></tr>
</table>
*with minimum capacity of <u>2200 MVA</u> on each circuit at nominal voltage

Note:
(i) Powergrid to provide space for 2 no of 400 kV bays at Fatehgarh-II PS

(ii) M/s RVPNL to provide space for 2 no of 400 kV bays at Jaisalmer-II S/s (Existing Substation inputs enclosed at Appendix A)

(iii) TSP shall maintain provision & space for Bus Sectionalizer bays such that:

a. 220kV bays for 3 nos. of 500 MVA, 400/220kV Transformers (Present+ Future) are on each Bus Section.

b. 6 nos. of 220kV line bays (Present + Future) are one Bus Section and 5 nos. of 220kV line bays (Present + Future) are on another Bus Section.

c. 1 no. of 220kV Transfer Bus Coupler Bay & 1 no. of 220kV Bus Coupler Bay
</td>
<td>
<table>
<tr><td></td><td><u>400kV Bus Reactor along with bays: 2 nos.</u>
<u>400kV Sectionalizer bay: 2 nos.</u>
<u>220 kV line bays: 15 nos.</u>
<u>220kV sectionalizer bay: 2 nos</u></td><td></td></tr>
<tr><td>2.</td><td>Ramgarh-II <u>(Fatehgarh-III)</u> PS – Fatehgarh- II PS 400kV D/c line (Twin HTLS*)</td><td>18 months</td></tr>
<tr><td>3.</td><td>2 no. of 400 kV line bays at Fatehgarh- II for Ramgarh – II <u>(Fatehgarh-III)</u> PS– Fatehgarh-II PS 400kV D/c line</td><td>18 months</td></tr>
<tr><td>4.</td><td>Ramgarh –II <u>(Fatehgarh-III)</u> PS– Jaisalmer-II (RVPN) 400 kV D/c line (Twin HTLS*)</td><td>18 months</td></tr>
<tr><td>5.</td><td>2 no. of 400 kV line bays each at Jaisalmer- II for Ramgarh – II <u>(Fatehgarh-III)</u> - Jaisalmer-II 400kV D/c line</td><td>18 months</td></tr>
</table>
*with minimum capacity of <u>2100 MVA</u> on each circuit at nominal voltage

Note:
(i) Powergrid to provide space for 2 no of 400 kV bays at Fatehgarh-II PS

(ii) M/s RVPNL to provide space for 2 no of 400 kV bays at Jaisalmer-II S/s (Existing Substation inputs enclosed at Appendix A)

(iii) TSP shall maintain provision & space for Bus Sectionalizer bays such that:

a. 220kV bays for 3 nos. of 500 MVA, 400/220kV Transformers (Present+ Future) are on each Bus Section.

b. 6 nos. of 220kV line bays (Present + Future) are one Bus Section and 5 nos. of 220kV line bays (Present + Future) are on another Bus Section.

c. 1 no. of 220kV Transfer Bus Coupler Bay & 1 no. of 220kV Bus
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<tr><th>Sl. No.</th><th>Clause</th><th>Existing Clause</th><th>New / Revised Clause</th></tr>
<tr><td></td><td></td><td></td><td>Coupler Bay <u>are on each bus section.</u></td></tr>
<tr><td>2.</td><td>General</td><td>All the reference to Ramgarh-II PS</td><td>All the reference to Ramgarh-II PS may be read as “Ramgarh-II (Fatehgarh-III) PS”</td></tr>
<tr><td>3.</td><td>Specific technical requirements for transmission line</td><td>SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISISON LINE

New point to be inserted</td><td>SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISISON LINE

• All the 765 kV towers, 400 kV multicircuit towers with any type of conductor, 400 kV towers with more than two sub-conductors per bundle shall be designed for reliability level 2.</td></tr>
<tr><td>4.</td><td>Specific technical requirements for Substation</td><td>SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION
…….

2.0 Substation Equipment and facilities:

…….

<table>
<tr><th rowspan="2">Sl. No</th><th rowspan="2">Description of bay</th><th colspan="2">400/220kV Ramgarh-II PS</th><th>400kV Fatehgarh -II Extn.</th><th>400 Jaisalmer -II Extn.</th></tr>
<tr><td>400 kV</td><td>220 kV</td><td>400 kV</td><td>400 kV</td></tr>
<tr><td>1.</td><td>Bus Bar</td><td>4000A</td><td><u>3150A</u></td><td>Same as existing</td><td>Same as existing</td></tr>
<tr><td colspan="6">…….</td></tr>
</table>
</td><td>SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION
…….

2.0 Substation Equipment and facilities:

…….

<table>
<tr><th rowspan="2">Sl. No</th><th rowspan="2">Description of bay</th><th colspan="2">400/220kV Ramgarh-II (Fatehgarh-III) PS</th><th>400kV Fatehgarh -II Extn.</th><th>400 Jaisalmer -II Extn.</th></tr>
<tr><td>400 kV</td><td>220 kV</td><td>400 kV</td><td>400 kV</td></tr>
<tr><td>1.</td><td>Bus Bar</td><td>4000A</td><td><u>4000A</u></td><td>Same as existing</td><td>Same as existing</td></tr>
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<tr><th>Sl. No.</th><th>Clause</th><th>Existing Clause</th><th>New / Revised Clause</th></tr>
<tr><td>5.</td><td>Specific technical requirements for Substation</td><td>2.1. 400/220kV, 3-Phase Transformer
……

<u>HV, and IV bushing shall be RIP (Resin Impregnated Paper) / RIS (Resin Impregnated Synthetic) with composite insulator type. LV bushing shall be OIP/RIP/RIS. 36kV Neutral bushing shall be solid porcelain or oil communicating type.</u>

…….</td><td>2.1. 400/220kV, 3-Phase Transformer
……

<u>For 765/400/33kV Transformers: HV bushing shall be OIP (Oil Impregnated Paper) type, IV & LV bushing shall be OIP (Oil Impregnated Paper)/RIP (Resin Impregnated Paper)/ RIS (Resin Impregnated Synthetic). For transformer other than 765/400/33kV transformers: the 400kV bushing shall be RIP (Resin Impregnated Paper)/ RIS (Resin Impregnated Synthetic).</u>
……</td></tr>
<tr><td>6.</td><td>12.2.1 of TSA</td><td>12.2 Relief for Change in Law

12.2.1 During Construction Period:

During the Construction Period, the impact of increase/decrease in the cost of the Project in the Transmission Charges shall be governed by the formula given below:

- For every cumulative increase/decrease of each <u>Rupees One Crore Ninety Three Lakh Only (Rs.1.93 Crore)</u> in the cost of the Project up to the Scheduled COD of the Project, the increase/decrease in Non-Escalable Transmission Charges shall be an amount equal to Zero Point Three One Three percent (0.313%) of the Non-Escalable Transmission Charges.</td><td>12.2 Relief for Change in Law

12.2.1 During Construction Period:

During the Construction Period, the impact of increase/decrease in the cost of the Project in the Transmission Charges shall be governed by the formula given below:

- For every cumulative increase/decrease of each <u>Rupees One Crore Thirty One Lakh Only (Rs.1.31 Crore)</u> in the cost of the Project up to the Scheduled COD of the Project, the increase/decrease in Non-Escalable Transmission Charges shall be an amount equal to Zero Point Three One Three percent (0.313%) of the Non-Escalable Transmission Charges.</td></tr>
<tr><td>7.</td><td>2.7.1 of RFP</td><td>The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline and submit the Technical Bids, in one (1) original plus one (1) copy so as to reach the address specified in Clause 2.9.4 by 1700 hrs (IST) on <u>27.08.2020</u>.</td><td>The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline and submit the Technical Bids, in one (1) original plus one (1) copy so as to reach the address specified in Clause 2.9.4 by 1700 hrs (IST) on <u>27.10.2020</u></td></tr>
<tr><td>8.</td><td>2.7.2 of RFP</td><td>Important timelines are mentioned below:
<table><tr><th>Date</th><th>Event</th></tr><tr><td><u>20.08.2020</u></td><td>Issue of final RFP Project Documents</td></tr><tr><td><u>27.08.2020</u></td><td>Submission of Bid (Online submission of Bid through electronic bidding portal and physical</td></tr></table></td><td>Important timelines are mentioned below:
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<tr><td>9.</td><td>2.8.1 of RFP</td><td>The Bidders shall submit the Bid which shall remain valid upto <u>23.02.2021…</u></td><td>The Bidders shall submit the Bid which shall remain valid upto <u>25.04.2021…</u></td></tr>
<tr><td>10.</td><td>2.9.2 of RFP</td><td>….
Due for opening on <u>27.08.2020</u></td><td>….
Due for opening on <u>27.10.2020</u></td></tr>
<tr><td>11.</td><td>2.13.1 of RFP</td><td>…….

Opening of Envelope (Technical Bid): 1730 hours (IST) on <u>27.08.2020.</u>

Opening of Initial Offer: Initial Offer shall be opened by the Bid Process Coordinator in presence of the Bid Evaluation Committee at 1730 hours (IST) on <u>07.09.2020</u></td><td>…….

Opening of Envelope (Technical Bid): 1730 hours (IST) on <u>27.10.2020.</u>

Opening of Initial Offer: Initial Offer shall be opened by the Bid Process Coordinator in presence of the Bid Evaluation Committee at 1730 hours (IST) on <u>05.11.2020</u></td></tr>
<tr><td>12.</td><td>Annexure 23 of RFP</td><td>Illustration of the Bid Evaluation/Computation of Levelized Transmission Charges</td><td>Revised Excel has been emailed to the mailing address of The Contact Person as provided by you in your Response submitted during RFP stage.</td></tr>
</table>