

Amendment –XXV dated 15.05.2023 on the Request for Proposal Document and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish “Transmission System for Evacuation of Power from REZ in Rajasthan (20GW) under Phase-III Part F” through tariff based competitive bidding process

Sl. No.	Clause No.	Existing Provisions			New / Revised Clause		
1.	RFP & TSA	Scope of the Project			Scope of the Project		
		Sr. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date	Sr. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
		1.	Establishment of 2x1500MVA 765/400kV Substation at suitable location near Beawar along with 2x330 MVAr 765kV Bus Reactor & 2x125 MVAr 420kV Bus Reactor 765/400kV 1500 MVA ICTs: 2 nos. (7x500 MVA, including one spare unit) 330 MVAr, 765 kV bus reactor- 2 nos. (7x110 MVAr, including one spare unit) 765kV ICT bays – 2 nos. 400 kV ICT bays – 2 nos. 765 kV line bays – 6 nos. 400kV line bay- 2 nos. 765kV reactor bay- 2 nos. 125 MVAr, 420kV bus reactor – 2 nos. 420 kV reactor bay – 2 nos. Future provisions: Space for	18	1.	Establishment of 2x1500MVA 765/400kV Substation at suitable location near Beawar along with 2x330 MVAr 765kV Bus Reactor & 2x125 MVAr 420kV Bus Reactor 765/400kV 1500 MVA ICTs: 2 nos. (7x500 MVA, including one spare unit) 330 MVAr, 765 kV bus reactor- 2 nos. (7x110 MVAr, including one spare unit) 765kV ICT bays – 2 nos. 400 kV ICT bays – 2 nos. 765 kV line bays – 6 nos. 400kV line bay- 2 nos. 765kV reactor bay- 2 nos. 125 MVAr, 420kV bus reactor – 2 nos. 420 kV reactor bay – 2 nos. Future provisions: Space for	18

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			<p>765/400kV ICTs along with bays: 2 nos. 765kV line bay along with switchable line reactor: 8nos. 765kV Bus Reactor along with bays: 2nos 400/220 kV ICTs along with bays: 2nos. 400 kV line bays along with switchable line reactor: 4 nos. 400kV Bus Reactor along with bays: 1no. 220 kV line bays: 4nos.</p>		
		2.	LILO of both circuit of Ajmer-Chittorgarh 765 kV D/c at Beawar		
		3.	LILO of 400kV Kota –Merta line at Beawar		
		4.	<p>Fatehgarh-3– Beawar 765 kV D/c along with 330 MVAR Switchable line reactor for each circuit at each end of Fatehgarh-3– Beawar 765 kV D/c line.</p> <p>Switching equipment for 765 kV 330 MVAR switchable line reactor –4 nos. 765 kV, 330 MVAR Switchable line reactor- 4 nos.</p>		
		5.	<u>± 2x300MVAR STATCOM, 4x125 MVAR MSC, 2x125 MVAR MSR at Fatehgarh- 3 PS along with 2 nos. of 400 kV bays at Fatehgarh-3 PS</u>	18	
		Note:			
		(i) POWERGRID shall provide space for 2 nos. of 765 kV line bays			
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		5.	<u>± 2x300MVAR STATCOM, 4x125 MVAR MSC, 2x125 MVAR MSR at Fatehgarh- 3 PS along with 2 nos. of 400 kV bays</u>	24	

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		<p>at Fatehgarh-3 S/s for Fatehgarh-3– Beawar 765 kV D/c line along with 765kV switchable line reactors.</p> <p>(ii) ±300 MVAR STATCOM should be placed in each 400 kV bus section of Fatehgarh-3 PS (Phase-III Part E1).</p> <p>(iii) POWERGRID shall provide space at Fatehgarh-3 S/s for STATCOM along with MSC & MSR and associated 400kV bays.</p>	<table border="1"> <tr> <td></td> <td>at Fatehgarh-3 PS</td> <td></td> </tr> </table> <p>Note:</p> <p>(i) POWERGRID shall provide space for 2 nos. of 765 kV line bays at Fatehgarh-3 S/s for Fatehgarh-3– Beawar 765 kV D/c line along with 765kV switchable line reactors.</p> <p>(ii) ±300 MVAR STATCOM should be placed in each 400 kV bus section of Fatehgarh-3 PS (Phase-III Part E1).</p> <p>(iii) POWERGRID shall provide space at Fatehgarh-3 S/s for STATCOM along with MSC & MSR and associated 400kV bays.</p>		at Fatehgarh-3 PS																										
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2.	2.7.1 of RFP	The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e. on or before 1100 hours (IST) on 15.05.2023 . 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	The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e. on or before 1100 hours (IST) on 30.05.2023 . 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																												
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		02.06.2023	Selection of Successful Bidder and issue of LOI	19.06.2023	Selection of Successful Bidder and issue of LOI
		12.06.2023	Signing of RFP Project Documents and transfer of Beawar Transmission Limited	30.06.2023	Signing of RFP Project Documents and transfer of Beawar Transmission Limited
4.	2.13.1 of RFP	<p>.....</p> <p>Opening of Envelope (Technical Bid): 1130 hours (IST) on <u>15.05.2023</u></p> <p>.....</p> <p>Opening of Initial Offer: Initial Offer shall be opened by the Bid Opening Committee in presence of the Bid Evaluation Committee at 1130 hours (IST) on <u>24.05.2023</u> in the office of CEA.</p>		<p>.....</p> <p>Opening of Envelope (Technical Bid): 1130 hours (IST) on <u>30.05.2023</u></p> <p>.....</p> <p>Opening of Initial Offer: Initial Offer shall be opened by the Bid Opening Committee in presence of the Bid Evaluation Committee at 1130 hours (IST) on <u>08.06.2023</u> in the office of CEA.</p>	
5.	Clause 1 of specific technical specification of STATCOM of RfP & TSA.	<p>1. Introduction:</p> <p>.....</p> <p>The main building block of the STATCOM should be single phase VSC based convertor valve (multi-level) operating in a way to eliminate or minimize ac filter requirement to High pass filter only and connected to the xx kV bus through air core reactors. <u>The STATCOM may comprise of multiple identical STATCOM units (minimum two) operating in parallel.</u></p>		<p>1. Introduction:</p> <p>.....</p> <p>The main building block of the STATCOM should be single phase VSC based convertor valve (multi-level) operating in a way to eliminate or minimize ac filter requirement to High pass filter only and connected to the xx kV bus through air core reactors.</p>	

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6.	Clause B.3.1 of specific technical requirement of s/s of RFP & TSA	<p>B.3.1 AC & DC power supplies</p> <p>.....</p> <p>i) <u>For LT Supply at each new Substation, two (2) nos. of LT Transformers (minimum 800kVA for substations with highest voltage rating as 765kV and minimum 630kVA for substations with highest voltage rating as 400kV) shall be provided out of which one shall be connected with SEB/DISCOM supply and other one shall be connected to tertiary of Transformer.</u></p> <p>.....</p> <p>ii) 2 sets of 220V battery banks for control & protection and 2 sets of 48V battery banks for PLCC/ communication equipment shall be provided at each new Substation. Each battery bank shall have a float-cum-boost charger. <u>Battery shall be of VRLA type.</u> At new substation, sizing of 220 V battery and battery charger shall be done based on the number of bays specified (including future bays) as per CEA Regulations and relevant IS. 2 sets of 48 V battery banks for PLCC and communication equipment shall be provided at each new Substation with at least 10-hour battery backup and extended backup, if required.</p> <p>.....</p>	<p>B.3.1 AC & DC power supplies</p> <p>.....</p> <p>i) <u>For LT Supply at each new Substation, two (2) nos. of auxiliary Transformers (minimum 800kV for substation with highest voltage rating as 765kV and minimum 630kVA for substations with highest voltage rating as 400kV) fed from independent sources shall be provided as per the CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007.</u></p> <p>.....</p> <p>ii) 2 sets of 220V battery banks for control & protection and 2 sets of 48V battery banks for PLCC/ communication equipment shall be provided at each new Substation. Each battery bank shall have a float-cum-boost charger. At new substation, sizing of 220 V battery and battery charger shall be done based on the number of bays specified (including future bays) as per CEA Regulations and relevant IS. 2 sets of 48 V battery banks for PLCC and communication equipment shall be provided at each new Substation with at least 10-hour battery backup and extended backup, if required. <u>48 V can be achieved from 220 V battery bank also, if desired, without compromising backup time.</u></p> <p>.....</p>
7.	Clause 8.1.2 of specific	<p>8. STATCOM Station Main Components</p> <p>.....</p>	<p>8. STATCOM Station Main Components</p> <p>.....</p>

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	technical specification of STATCOM of RfP & TSA.	<p>8.1.2 Semiconductor Switches:</p> <p>The electronic switches should be designed with the aim to achieve operation according to the overall performance requirements of the STATCOM Station. The valve shall be designed with individual semiconductor switches applied in a conservative manner with regard to their basic design parameters. The semiconductor switch shall meet the requirements of IEC 60747 except where otherwise specified herein. <u>The proposed semiconductor switch shall be of a type which is in, or ready for, commercial operation with characteristics fully proven by recorded years of operation in other installations.</u></p> <p>.....</p>	<p>8.1.2 Semiconductor Switches:</p> <p>The electronic switches should be designed with the aim to achieve operation according to the overall performance requirements of the STATCOM Station. The valve shall be designed with individual semiconductor switches applied in a conservative manner with regard to their basic design parameters. The semiconductor switch shall meet the requirements of IEC 60747 except where otherwise specified herein.</p> <p>.....</p>
8.	Clause 8.1.3 of technical specification of STATCOM of RfP & TSA	<p>8.1.3. Sub module for Multi-Module Topology</p> <p>.....</p> <p><u>Sub module shall be designed to guarantee high maintainability with self-sealing type hydraulic valves and electrical plugs for ease of installation or un-installation.</u></p> <p>.....</p>	<p>8.1.3. Sub module for Multi-Module Topology</p> <p>.....</p> <p><u>Deleted.</u></p> <p>.....</p>
9.	Clause 8.2.2 of technical	<p>8.2.2 Operator Interface</p> <p>.....</p> <p>f) <u>As the substation</u> where STATCOM Station shall be installed, will</p>	<p>8.2.2 Operator Interface</p> <p>.....</p> <p>f) <u>As Fatehgarh-3 substation</u> where STATCOM Station shall be</p>

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	al specific ation of STATC OM of RfP & TSA	<p>be equipped with Sub-station Automation System (SAS) conforming to IEC 61850, it is required that STATCOM Station control and monitoring shall be integrated with SAS already provided at main 400 kV Sub-station by the TSP. It is proposed to connect STATCOM Station SCADA with SAS through a Gateway and the database, configuration etc. of main substation SAS shall be upgraded to incorporate STATCOM Station events, alarms, Controls (both switchgear and control functions of STATCOM Station like setting of parameters etc.) so that STATCOM Station can be effectively monitored and controlled from main substation SAS and shall be monitored from Load Dispatch Center (NRLDC).</p> <p>.....</p>	<p>installed, will be equipped with Sub-station Automation System (SAS) conforming to IEC 61850, it is required that STATCOM Station control and monitoring shall be integrated with SAS already provided at main 400 kV Sub-station by the TSP. It is proposed to connect STATCOM Station SCADA with SAS through a Gateway and the database, configuration etc. of main substation SAS shall be upgraded to incorporate STATCOM Station events, alarms, Controls (both switchgear and control functions of STATCOM Station like setting of parameters etc.) so that STATCOM Station can be effectively monitored and controlled from main substation SAS and shall be monitored from Load Dispatch Center (NRLDC).</p> <p>.....</p>
10.	Clause 8.7 of specific technical specific ation of STATC OM of RfP & TSA.	<p>8.7 Air Core Reactors</p> <p>.....</p> <p>e. The reactor shall be designed to withstand overloading due to over voltage as specified and shall also be subjected to excitation by harmonics; the reactor must be able to withstand such events without deterioration in normal life.</p> <p>f. <u>All internal (with in a reactor coil) current carrying connections shall be welded/Brazed or compressed joint.</u></p> <p>g. <u>All terminals shall be either tin plated or silver plated.</u></p> <p>h. <u>Lifting lugs shall be provided for handling of the reactor.</u></p> <p>i. <u>The reactor shall be vertically mounted.</u></p> <p>j. The reactors shall be subjected to type and routine tests in accordance with the latest issue of IEC-60076 as appropriate to the type of reactor provided.</p>	<p>8.7 Air Core Reactors</p> <p>.....</p> <p>e. The reactor shall be designed to withstand overloading due to over voltage as specified and shall also be subjected to excitation by harmonics; the reactor must be able to withstand such events without deterioration in normal life.</p> <p>f. <u>Deleted</u></p> <p>g. <u>Deleted</u></p> <p>h. <u>Deleted</u></p> <p>i. <u>Deleted</u></p> <p>j. The reactors shall be subjected to type and routine tests in accordance with the latest issue of IEC-60076 as appropriate to the type of reactor provided.</p>

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11.	Annexure C: SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION of RFP & Schedule: 1 of TSA	<p>B.5.0 EXTENSION OF EXISTING SUBSTATION</p> <p>The following drawings/details of existing substation is attached with the RFP documents for further engineering by the bidder:</p> <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>A.</td> <td colspan="3">765kV Fatehgarh-3 (AIS) S/S</td> </tr> <tr> <td>1.0</td> <td>Single Line Diagram</td> <td>C/ENGG/SS/FATEH GARH-3/SLD/01</td> <td><u>01</u></td> </tr> <tr> <td>2.0</td> <td>General Arrangement</td> <td>C/ENGG/SS/FATEH GARH-3/GA/01</td> <td><u>00</u></td> </tr> <tr> <td>3.0</td> <td>Earthmat Layout</td> <td>KPTL/PGCIL/WO-SS-033/02E/RGH-II/009</td> <td>01</td> </tr> <tr> <td>4.0</td> <td>Visual Monitoring System</td> <td>The drawings are yet to be finalized by developer.</td> <td>-</td> </tr> <tr> <td>5.0</td> <td>Bus Bar Protection (400 kV System)</td> <td>The drawings are yet to be finalized by developer.</td> <td>-</td> </tr> <tr> <td>6.0</td> <td>Substation Automation System (SAS)</td> <td>GE Make, KZ3DSA1</td> <td>C</td> </tr> </tbody> </table> <p>.....</p>	Sl. No.	Drawing Title	Drawing No./Details	Rev. No.	A.	765kV Fatehgarh-3 (AIS) S/S			1.0	Single Line Diagram	C/ENGG/SS/FATEH GARH-3/SLD/01	<u>01</u>	2.0	General Arrangement	C/ENGG/SS/FATEH GARH-3/GA/01	<u>00</u>	3.0	Earthmat Layout	KPTL/PGCIL/WO-SS-033/02E/RGH-II/009	01	4.0	Visual Monitoring System	The drawings are yet to be finalized by developer.	-	5.0	Bus Bar Protection (400 kV System)	The drawings are yet to be finalized by developer.	-	6.0	Substation Automation System (SAS)	GE Make, KZ3DSA1	C	<p>B.5.0 EXTENSION OF EXISTING SUBSTATION</p> <p>The following drawings/details of existing substation is attached with the RFP documents for further engineering by the bidder:</p> <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>A.</td> <td colspan="3">765kV Fatehgarh-3 (AIS) S/S</td> </tr> <tr> <td>1.0</td> <td>Single Line Diagram</td> <td>C/ENGG/SS/FATEH GARH-3/SLD/01</td> <td><u>02</u></td> </tr> <tr> <td>2.0</td> <td>General Arrangement</td> <td>C/ENGG/SS/FATEH GARH-3/GA/01</td> <td><u>01</u></td> </tr> <tr> <td>3.0</td> <td>Earthmat Layout</td> <td>KPTL/PGCIL/WO-SS-033/02E/RGH-II/009</td> <td>01</td> </tr> <tr> <td>4.0</td> <td>Visual Monitoring System</td> <td>The drawings are yet to be finalized by developer.</td> <td>-</td> </tr> <tr> <td>5.0</td> <td>Bus Bar Protection (400 kV System)</td> <td>The drawings are yet to be finalized by developer.</td> <td>-</td> </tr> <tr> <td>6.0</td> <td>Substation Automation System (SAS)</td> <td>GE Make, KZ3DSA1</td> <td>C</td> </tr> </tbody> </table> <p>.....</p>	Sl. No.	Drawing Title	Drawing No./Details	Rev. No.	A.	765kV Fatehgarh-3 (AIS) S/S			1.0	Single Line Diagram	C/ENGG/SS/FATEH GARH-3/SLD/01	<u>02</u>	2.0	General Arrangement	C/ENGG/SS/FATEH GARH-3/GA/01	<u>01</u>	3.0	Earthmat Layout	KPTL/PGCIL/WO-SS-033/02E/RGH-II/009	01	4.0	Visual Monitoring System	The drawings are yet to be finalized by developer.	-	5.0	Bus Bar Protection (400 kV System)	The drawings are yet to be finalized by developer.	-	6.0	Substation Automation System (SAS)	GE Make, KZ3DSA1	C
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