Amendment No. 6 dated 15.06.2023

to

RFP documents for selection of Transmission Service Provider through tariff based competitive bidding process to establish transmission system for "Transmission system for evacuation of power from REZ in Rajasthan (20 GW) under phase III –Part B1"

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Clause No. 2.6 of RFP

2.6 Project Schedule

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Note:
i. Provision of suitable sectionalization shall be kept at Bhadla-3 at 400 kV & 220 kV level to limit short circuit level.
ii. POWERGRID to provide space for 2 nos. of 400 kV line bays along with space for switchable line reactors at Fatehgarh-2 S/s.
iii. Developer of Sikar-II S/s to provide space for 2 nos. of 765 kV line bays at Sikar-II S/s along with space for switchable line reactors.
iv. Space provision for future 2 nos. 220kV Bus Coupler bay and 2 nos. Transfer Bus Coupler Bay shall be kept for bus switching scheme requirement.
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ANNEXURE 8 -UNDERTAKING AND DETAILS OF EQUITY INVESTMENT

Format 1: Bidders' Undertakings

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S. No.	Existing Provisions					Revised Provisions				
			Date	**Scheduled COD of the Element of the Project**	**operation (COD) of the respective Element**			**Date**	**Scheduled COD of the Element of the Project**	**operation (COD) of the respective Element**
	1.	Establishment of 2x1500 MVA 765/400kV & 3x500 MVA 400/220 kV pooling station at Bhadla-3 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) • 765kV ICT bays - 2 nos. • 400/220 kV, 500 MVA ICT – 3 nos. • 765kV line bays -2 nos. • 400 kV ICT bays – 5 nos. • 220 kV ICT bays - 3 nos. • 400 kV line bays - 2 nos.	……	16.48%	Elements marked at Sl. No. 1, 2, 3, 4 & 5 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.	1.	**Establishment of 2x1500 MVA 765/400kV & 3x500 MVA 400/220 kV pooling station at Bhadla-3 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)** • **765kV ICT bays - 2 nos.** • **400/220 kV, 500 MVA ICT – 3 nos.** • **765kV line bays - 2 nos.** • **400 kV ICT bays – 5 nos.** • **220 kV ICT bays - 3 nos.** • **220 kV line bays: 5 nos.** • **330 MVAr Bus Reactor-2 nos. (7x110 MVAr, including one spare unit)**	……	**20.08%**	**Elements marked at Sl. No. 1, 2 &3 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.**

S. No.	Existing Provisions	Revised Provisions
	• 220 kV line bays: 5 nos. • 330 MVAr Bus Reactor-2 nos. (7x110 MVAr, including one spare unit) • 765kV reactor bay- 2 nos. • 125 MVAr, 420kV bus reactor - 2 nos. • 420 kV reactor bay - 2 nos. <u>Future provisions:</u> Space for • 765/400kV ICTs along with bays: 2 nos. • 765kV line bay along with switchable line reactor: 6 nos. • 765kV line bay: 4 nos. • 765kV Bus Reactor along with bays: 2 nos.	• **765kV reactor bay- 2 nos.** • **125 MVAr, 420kV bus reactor - 2 nos.** • **420 kV reactor bay - 2 nos.** **<u>Future provisions:</u>** **Space for** • **765/400kV ICTs along with bays: 2 nos.** • **765kV line bay along with switchable line reactor: 6 nos.** • **765kV line bay: 4 nos.** • **765kV Bus Reactor along with bays: 2 nos.** • **400/220 kV ICTs along with bays: 10 nos.** • **400 kV line bays: 8 nos.** • **400 kV line bays along with switchable line reactor: 8 Nos.** • **400kV Bus Reactor along with bays: 2 nos.**

S. No.	Existing Provisions					Revised Provisions				
		• 400/220 kV ICTs along with bays: 10 nos. • 400 kV line bays: 8 nos. • 400 kV line bays along with switchable line reactor: 6 Nos. • 400kV Bus Reactor along with bays: 2 nos. • 400kV Sectionalization bay: 2 sets • 220 kV line bays: 12 nos. • 220kV sectionalization bay: 2 sets					**• 400kV Sectionalization bay: 2 sets** **• 220 kV line bays: 12 nos.** **• 220kV sectionalization bay: 2 sets**			
	2.	Fatehgarh-2 PS – Bhadla-3 PS 400kV D/c line (Quad moose) along with 63 MVAr Switchable line reactor for each circuit at both ends of Fatehgarh 2-Bhadla-3 400kV D/c line	……	18.69%		2.	**Bhadla-3 PS – Sikar-II S/s 765 kV D/c line along with 330 MVAr Switchable line reactor for each circuit at each end of Bhadla-3 PS – Sikar-II S/s 765 kV D/c line** **• Switching equipment for 765 kV 330 MVAR switchable line reactor – 4 nos.** **• 765 kV, 330 MVAr Switchable line reactor- 4 nos.**	……	**78.16%**	
						3.	**765 kV line bays at Sikar-II** **• 765 kV line bays – 2 nos.**	……	**1.76%**	

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S. No.	Existing Provisions					Revised Provisions
		• 400kV 63 MVAR switchable line reactor – 4 nos. • Switching equipment for 400kV 63 MVAR switchable line reactor – 4 nos.				
	3.	400 kV line bays at Fatehgarh-2 PS for Fatehgarh-2 PS – Bhadla-3 PS 400kV D/c line • 400 kV line bays - 2 nos.	……	0.70%		
	4.	Bhadla-3 PS – Sikar-II S/s 765 kV D/c line along with 330 MVAr Switchable line reactor for each circuit at each end of Bhadla-3 PS – Sikar-II S/s 765 kV D/c line • Switching equipment for 765 kV 330 MVAR switchable line reactor – 4 nos. • 765 kV, 330 MVAr	……	62.61%		

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5.	**Specific technical requirement of s/s of RfP, Clause No. B.1.2** **B.1.2 Switching Scheme** Notes: - …….. **v**) Bay configuration at 400kV Bhadla-3 s/s shall be such that one feeder in a diameter shall be terminated to ICT and other shall be terminated to Line /Bus Reactor. Accordingly, 04 nos. complete diameter and 01 no. half diameter (consisting of Main and associated Tie bay) with a provision of 01 no. future bay (for terminating of one circuit of 400kV Bhadla-3 to Fatehgarh-3 D/C line) in the same diameter shall be under present scope.	**Specific technical requirement of s/s of RfP, Clause No. B.1.2** **B.1.2 Switching Scheme** Notes: - …….. **v)** Bay configuration at 400kV Bhadla-3 s/s shall be such that one feeder in a diameter shall be terminated to ICT and other shall be terminated to Line/Bus Reactor. **Accordingly, 02 nos. complete diameter (the bay configuration shall be ICT-Tie-Bus Reactor) and 03 nos. half diameter (consisting of Main and associated Tie bay) with a provision of 03 no. future line bay in the other half (the bay configuration shall be ICT-Tie- future line with space for switchable Reactor) shall be under the present scope.** (*01 no. future line bay as mentioned above shall be utilized for termination of one circuit of 400kV Bhadla-3 to Fatehgarh-3 D/C line which is under a separate scheme. Balance 02 nos. line bays are identified for future line bay which has been created due to deletion of Fatehgarh-2 to Bhadla -3 400kV D/C line.)* ***TSP shall share Single Line diagram to CEA/CTUIL during finalization of bay to developer of 400kV Bhadla-3 to Fatehgarh-3 D/C line.***
6.	**RFP and TSA** **SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINE, SUBSTATION AND COMMUNICATION** **General**	**Technical Requirements with respect to bay extension works at existing Fatehgarh-2 PS and Fatehgarh-2 PS – Bhadla-3 PS 400kV D/c line may be ignored as per revised scope issued vide Amendment No. 5.**