Amendment – VIII dated 23.07.2020 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 C)" through tariff based competitive bidding process

<table>
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765/400 kV, 1500 MVA ICT – 2
765/400 kV, 500 MVA spare single phase ICT-1
765 kV ICT bays – 2
400 kV ICT bays – 2
765 kV line bays –2
400 kV line bays- 2
125 MVAr, 420 kV bus reactor-1
420 kV reactor bay –1
330 MVAr, 765 kV bus reactor- 2(6x110 MVAR)
765 kV reactor bay- 2
110 MVAR, 765 kV, 1 ph Reactor (spare unit) -1 (common spare unit for banks of Bus Reactor & Line Reactor)

Future Provision Space for-
765/400kV ICR along with bays-2
765kV line bays along with switchable line reactors- 10
400kV line bays along with switchable line reactor- 6
400/220kV ICT along with bays- 4</td><td>18 months</td></tr>
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Sl. No.	Existing Clause	New / Revised Clause

	220kV bays- 8 400kV bus reactor- 2	
2.	Bhadla-II PS – Sikar-II 765kV D/c line	
3.	2 no. of 765 kV line bays at Bhadla- II for Bhadla-II PS – Sikar-II 765kV D/c line -765 kV line bays –2	
4.	1x330 MVAr switchable line reactor for each circuit at Sikar-II end of Bhadla-II PS – Sikar-II 765kV D/c line. -330MVAr, 765 kV reactor- 2 -Switching equipment for 765 kV reactor – 2	
5.	1x240MVAr switchable line reactor for each circuit at Bhadla-II end of Bhadla-II PS – Sikar-II 765kV D/c line -240 MVAr, 765 kV reactor-2 -Switching equipment for 765 kV reactor - 2	
6.	Sikar-II – Neemrana 400kV D/c line (Twin HTLS*)	
7.	2 no. of 400 kV line bays at Neemrana for Sikar-II – Neemrana 400kV D/c line (Twin HTLS*) – 400 kV line bays - 2	

*with minimum capacity of **2200 MVA** on each circuit at nominal voltage

Note:

i. POWERGRID to provide space for 2 no of 765 kV bays at Bhadla-II and space for 2 no of switchable line reactors at Bhadla-II substation.
ii. POWERGRID to provide space for 2 no of 400 kV bays at Neemrana.
iii. Deleted.
.....
v. Space provision to be kept for 1 no. Transfer Bus coupler bay & 1 no. Bus Coupler bay at 220kV level.

	400/220kV ICT along with bays- 4 220kV bays- 8 400kV bus reactor- 2	
2.	Bhadla-II PS – Sikar-II 765kV D/c line	
3.	2 no. of 765 kV line bays at Bhadla- II for Bhadla-II PS – Sikar-II 765kV D/c line -765 kV line bays –2	
4.	1x330 MVAr switchable line reactor for each circuit at Sikar-II end of Bhadla-II PS – Sikar-II 765kV D/c line. -330MVAr, 765 kV reactor- 2 -Switching equipment for 765 kV reactor – 2	
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6.	Sikar-II – Neemrana 400kV D/c line (Twin HTLS*)	
7.	2 no. of 400 kV line bays at Neemrana for Sikar-II – Neemrana 400kV D/c line (Twin HTLS*) – 400 kV line bays - 2	

*with minimum capacity of **2100 MVA** on each circuit at nominal voltage

Note:

i. POWERGRID to provide space for 2 no of 765 kV bays at Bhadla-II and space for 2 no of switchable line reactors at Bhadla-II substation.
ii. POWERGRID to provide space for 2 no of 400 kV bays at Neemrana.
iii. TSP shall install the Line reactors bank such that same shall be suitable for 1-ph unit switching whenever the separate spare 1-ph unit is provided in future. All the switching 1-ph isolators, circuit breakers suitable for 1-ph switching , 765kV and neutral Auxiliary buses and other associated equipment &

Sl. No.	Existing Clause	New / Revised Clause
		scheme shall be provided for Line reactor bank under respective scope of work under Ph II Part-B, C and E. **.....** ***v. TSP to keep space provision for 1 no. Transfer Bus coupler bay & 1 no. Bus Coupler bay at 220kV level at Sikar-II S/s.***
2.	**SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISISON LINE** **New point to be inserted**	**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.**
3.	**SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION** **2.1 (765/√3) / (400/√3) / 33 kV Single Phase Autotransformer** **.....** 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. **.....**	**SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION** **2.1 (765/√3) / (400/√3) / 33 kV Single Phase Autotransformer** **.....** HV, and IV bushing shall be **OIP (Oil Impregnated Paper)** / 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. **.....**