Amendment – I dated 01.02.2019 on the RFQ Document issued for short listing of Bidders as Transmission Service Provider to establish Transmission System for "Western Region Strengthening Scheme – 21 (WRSS-21) Part-A - Transmission System Strengthening for relieving over loadings observed in Gujarat Intra-State System due to RE Injections in Bhuj PS" through Tariff Based Competitive Bidding Process

Sl.	Clause No./	Existing Provisions			New /	ew / Revised Provisions		
No.	Ref.							
1.	Project	"Transmission System Strengthening for relieving over			All the reference to project name to be read as:			
	Name	loadin	dings observed in Gujarat Intra-State System due to RE					
		Injecti	ctions in Bhuj PS"			"Western Region Strengthening Scheme - 21 (WRSS-21)		
						Part-A - Transmission System Strengthening for		
					relieving over loadings observed in Gujarat Intra-State			
					System due to RE Injections in Bhuj PS"			
2.	Sr. No. 2 on		Transmission Projects Company Ltd. (hereinafte			EC Transmission Projects Company Ltd. (hereinafter		
	Pg. 3		ed to as BPC) hereby invites			ferred to as BPC) hereby invites		
		on	on build, own, operate & maintain basis:			build, own, operate & maintain basis:		
		C .	C C		C	Commence of the Management of the Column		
		S. No.	Scope of the Transmission Scheme		S. No.	Scope of the Transmission Scheme		
		NO.			NO.			
		1.	Establishment of 2x1500MVA, 765/400kV		1.	Establishment of 2x1500MVA, 765/400kV		
			Lakadia PSwith 765kV (1x330MVAR) & 400kV		1.	Lakadia PS with 765kV (1x330MVAR) &		
			(1x125 MVAR) bus reactor			420kV (1x125 MVAR) bus reactor		
			, , , , , , , , , , , , , , , , , , , ,					
			• 2x1500MVA, 765/400kV			• 2x1500MVA, 765/400kV		
			• 400kV ICT bay-2			• 400kV ICT bay-2		
			• 765kV ICT bay-2			• 765kV ICT bay-2		
			• 400kV line bay-4			• 400kV line bay-4		
			• 765kV line bay-2			• 765kV line bay-2		
			• 1x330MVAr, 765 kV, 1x125MVAr, 420 kV			• 1x330MVAr, 765 kV, 1x125MVAr, 420 kV		
			• 765kV Reactor bay- 1			765kV Reactor bay- 1		

Sl.	Clause No./	<b>Existing Provisions</b>	New / Revised Provisions		
No.	Ref.				
		• 400kV Reactor bay -1	420kV Reactor bay -1		
		Future provisions:	Future provisions:		
		Space for: i) 765/400kV ICTs along with bays: 2 nos. ii) 400/220kV ICTs along with bays: 8 nos. iii) 765kV line bays:4 nos. iv) 400kV line bays: 6 nos. v) 220kV line bays: 16 nos vi) 765kV bus reactor along with bays: 1no vii) 400kV bus reactor along with bays: 1no 2. LILO of Bhachau – EPGL 400kV D/c (triple) line at Lakadia PS 3. Bhuj PS – Lakadia PS 765kV D/c line	Space for: i) 765/400kV ICTs along with bays: 2 nos. ii) 400/220kV ICTs along with bays: 8 nos. iii) 765kV line bays:4 nos. iv) 400kV line bays: 6 nos. v) 220kV line bays: 16 nos vi) 765kV bus reactor along with bays: 1no vii) 400kV bus reactor along with bays: 1no 2. LILO of Bhachau – EPGL 400kV D/c (triple) line at Lakadia PS 3. Bhuj PS – Lakadia PS 765kV D/c line		
		4. 2 nos of 765kV bays at Bhuj PS for Bhuj PS – Lakadia PS 765kV D/c line	4. 2 nos of 765kV bays at Bhuj PS for Bhuj PS – Lakadia PS 765kV D/c line		
	Note: a. POWERGRID to provide space for2 nos of 765kV bays at Bhuj PS for Bhuj PS – Lakadia PS 765kV D/c line		Note:  a. POWERGRID to provide space for 2 nos of 765kV bays a Bhuj PS for Bhuj PS – Lakadia PS 765kV D/c line.  b. POWERGRID to implement conversion of existing 2x63MVAR line reactors at Bhachau end of Bhachau EPGL 400kV D/c line to switchable line reactors.		
3.	Clause 1.2	The TSP will be required to establish the following	The TSP will be required to establish the following		
	of Section of	Transmission System for Transmission System	Transmission System for Transmission System		
	Request for	strengthening for relieving over loadings observed in	strengthening for relieving over loadings observed in Gujarat		

•	Scope of the Transmission Scheme	(herei	state system due to RE injections in Bhuj PS nafter referred to as 'Project') on build, own, operate aintain basis.  1:  Scope of the Transmission Scheme
(hereinaft and maint Table 1:	ter referred to as 'Project') on build, own, operate tain basis.  Scope of the Transmission Scheme	(herei and m  Table	nafter referred to as 'Project') on build, own, operate aintain basis.  1:
No			Scope of the Transmission Scheme
1.	Establishment of 2v1E00MVA 76E/400lvV		
	Establishment of 2x1500MVA, 765/400kV Lakadia PSwith 765kV (1x330MVAR) & 400kV (1x125 MVAR) bus reactor  • 2x1500MVA, 765/400kV • 400kV ICT bay-2 • 765kV ICT bay-2 • 400kV line bay-4 • 765kV line bay-2 • 1x330MVAr, 765 kV, 1x125MVAr, 420 kV • 765kV Reactor bay-1 • 400kV Reactor bay -1  Future provisions:  Space for: i) 765/400kV ICTs along with bays: 2 nos. ii) 400/220kV ICTs along with bays: 8 nos.	1.	Establishment of 2x1500MVA, 765/400kV Lakadia PS with 765kV (1x330MVAR) & 420kV (1x125 MVAR) bus reactor  • 2x1500MVA, 765/400kV • 400kV ICT bay-2 • 765kV ICT bay-2 • 400kV line bay-4 • 765kV line bay-2 • 1x330MVAr, 765 kV, 1x125MVAr, 420 kV • 765kV Reactor bay-1 • 420kV Reactor bay -1  Future provisions:  Space for: i) 765/400kV ICTs along with bays: 2 nos. ii) 400/220kV ICTs along with bays: 8 nos.
		<ul> <li>765kV ICT bay-2</li> <li>400kV line bay-4</li> <li>765kV line bay-2</li> <li>1x330MVAr, 765 kV, 1x125MVAr, 420 kV</li> <li>765kV Reactor bay- 1</li> <li>400kV Reactor bay -1</li> <li>Future provisions:</li> <li>Space for:</li> </ul>	<ul> <li>765kV ICT bay-2</li> <li>400kV line bay-4</li> <li>765kV line bay-2</li> <li>1x330MVAr, 765 kV, 1x125MVAr, 420 kV</li> <li>765kV Reactor bay-1</li> <li>400kV Reactor bay -1</li> <li>Future provisions:</li> <li>Space for: <ul> <li>i) 765/400kV ICTs along with bays: 2 nos.</li> <li>ii) 400/220kV ICTs along with bays: 8 nos.</li> <li>iii) 765kV line bays: 4 nos.</li> </ul> </li> </ul>

Sl.	Clause No./ Ref.	<b>Existing P</b>	rovisions	Ne	ew/	Revised Provisions
No.	Rei.	2. 3. 4.  Note:	v) 220kV line bays: 16 nos vi) 765kV bus reactor along with bays: 1no vii) 400kV bus reactor along with bays: 1no LILO of Bhachau – EPGL 400kV D/c (triple) line at Lakadia PS Bhuj PS – Lakadia PS 765kV D/c line 2 nos of 765kV bays at Bhuj PS for Bhuj PS – Lakadia PS 765kV D/c line	No.	2. 3. 4. <b>ote:</b>	v) 220kV line bays: 16 nos vi) 765kV bus reactor along with bays: 1no vii) 400kV bus reactor along with bays: 1no LILO of Bhachau – EPGL 400kV D/c (triple) line at Lakadia PS Bhuj PS – Lakadia PS 765kV D/c line 2 nos of 765kV bays at Bhuj PS for Bhuj PS – Lakadia PS 765kV D/c line  WERGRID to provide space for 2 nos of 765kV bays at
		bay line	vs at Bhuj PS for Bhuj PS – Lakadia PS 765kV D/c	b. 2x	P0 x63M	S for Bhuj PS – Lakadia PS 765kV D/c line.  WERGRID to implement conversion of existing  MVAR line reactors at Bhachau end of Bhachau –  400kV D/c line to switchable line reactors.
4.	Clause 1.3 of Section of Request for Qualificatio n	The project has been planned to relieve over loadings observed in Gujarat Intra-state system due to RE injections		Project Description Govt. of India has set a target for establishing 175 GW renewable capacity by 2022 which includes 100 GW Solar, 60 GW Wind generation capacity. This includes wind potential of about 6GW in Bhuj complex, 2GW in Lakadia and 1.5GW in Dwarka. For integration and evacuation of power from generation projects in the above areas, a high capacity 765kV and 400 kV transmission system interconnecting Bhuj, Lakadia Banaskantha, Vadodara & Dwarka along with establishment of 765/400/220kV new substation at Bhuj-II & Lakadia and 400/220kV new substation at Jan Khambhaliya (Dwarka) have been planned.		

Sl.	Clause No./	Existing Provisions	New / Revised Provisions
No.	Ref.		
			The subject transmission scheme involves establishment of 765/400kV Lakadia Pooling station along with LILO of Bhachau – EPGL 400 kV D/c (triple) line at Lakadia PS and Bhuj PS – Lakadia PS 765kV D/c line which helps in transfer of power from RE sources in the Kutch area of Gujarat (Bhuj Complex) to Lakadia for onward dispersal of power to their respective beneficiaries.
			The proposal has been agreed in the 1st meeting of Western Region Standing Committee on Transmission (WRSCT) held on 5.9.2018. The same was agreed in the 3rd ECT meeting held on 21.12.2018 for implementation through TBCB route with a commissioning schedule of December, 2020.
5.	Section 1 Clause 1.4	Transmission Grid Map	The Transmission Grid Map is attached as Annexure-1

