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"

S. No.			Existing Pr	ovisions		Revised Provisions						
1.	Clause	No. 2.6 of RFP					Clause	No. 2.6 of RFP				
	2.6 Proj S. No.	ject Schedule Name of t Transmission Element	ne Schedule d COD in months	Percentage of Quoted Transmission	Element(s) which are pre- required for		2.6 Proj S. No.	ject Schedule Name of the Transmission Element	Schedule d COD in months	Percentage of Quoted Transmission	Element(s) which are pre- required for	
			from Effective Date	Charges recoverable on Scheduled COD of the Element of the Project	declaring the commercial operation (COD) of the respective Element				from Effective Date	Charges recoverable on Scheduled COD of the Element of the Project	declaring the commercial operation (COD) of the respective Element	
	1.	Establishment 2x1500 MV 765/400kV 3x500 MV 400/220 k pooling station Bhadla-3 PS alor with 2x330 MV/ (765kV) Bu Reactor & 2x12 MVAr (420kV) Bu Reactor	of A A A V V at s 5 5 Is	16.48%	Elements marked at SI. 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 PS along with 2x330 MVAr (765kV) Bus Reactor & 2x125 MVAr (420kV) Bus Reactor		20.08%	Elements marked at SI. No. 1, 2 &3 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.	
	2.	Fatehgarh-2 PS Bhadla-3 PS 400k D/c line (Qua moose) along wit 63 MV/ Switchable lin reactor for eac circuit at both end of Fatehgarh Bhadla-3 400k	 V d h kr e h ls 2- V	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		78.16%		
	3.	D/c line 2 nos. of 400 k	V	0.70%			3.	2 nos. of 765kV line bays at Sikar-II		1.76%		

S. No.			Existing Pro	ovisions		Revised Provisions							
		line bays at						S/s					
		Fatehgarh-2 PS for											
		Fatehgarh-2 PS –					i.	Provision of suitable	sectionaliza	tion shall be ke	pt at	Bhadla-3 at 4	00
		Bhadla-3 PS 400kV						kV & 220 kV level to	limit short ci	ircuit level.			
		D/c line					ii.	Developer of Sikar-II	S/s to provia	le space for 2 nd	os. of	765 kV line ba	ys
	4.	Bhadla-3 PS –		62.61%				at Sikar-II S/s along	with space fo	or switchable lin	ne rei	actors.	
		Sikar-II S/s 765 kV					iii.	Space provision for	future 2 nos	. 220kV Bus Co	uplei	r bay and 2 no)s.
		D/c line along with						Transfer Bus Couple	er Bay shall	be kept for bu	us sv	vitching schen	ne
		330 MVAr						requirement.	-			-	
		Switchable line						•					
		reactor for each											
		circuit at each end											
		of Bhadla-3 PS –											
		Sikar-II S/s 765 kV											
		D/c line											
	5.	2 nos. of 765kV line		1.52%									
		bays at Sikar-II S/s											
	Note:												
	i.	Provision of suitable s	ectionalizat	ion shall be kept o	at Bhadla-3 at	400 kV							
		& 220 kV level to limit	t short circui	t level.									
	ii.	POWERGRID to provi	de space foi	^r 2 nos. of 400 kV	line bays alon	g with							
		space for switchable l	ine reactors	at Fatehgarh-2 S	s.								
	iii.	Developer of Sikar-II S	s/s to provid	e space for 2 nos.	of 765 kV line l	oays at							
		Sikar-II S/s along with	space for si	witchable line read	ctors.								
	iv.	Space provision for j	future 2 no.	s. 220kV Bus Coι	pler bay and	2 nos.							
		Transfer Bus Couple	r Bay shal	l be kept for bu	is switching s	cheme							
		requirement.											
2.	ANNEX	URE 8 - UNDERTAKING	AND DETAI	LS OF EQUITY INV	ESTMENT		ANNEX	URE 8 - UNDERTAKING	AND DETAIL	S OF EQUITY IN	IVES	IMENT	
	Format	1: Bidders' Und	lertakings				Format	1: Bidders' Une	dertakings				
	8. We	confirm that our Bid	meets the	Scheduled COD	of each transr	nission	8. We d	confirm that our Bid	meets the S	cheduled COD	of ea	ach transmissi	on
	Elemen	t and the Project as spe	ecified belov	v:			Element	t and the Project as sp	ecified below	v:			
	S. No.	Name of the	Schedule	Percentage o	f Element(s)		S. No.	Name of the	Schedule	Percentage	of	Element(s)	
		Transmission	d COD in	Quoted	which are	pre-		Transmission	d COD in	Quoted		which are p	re-
		Element	months	Transmission	required	for		Element	months	Transmission		required .	for
			from	Charges	declaring	the			from	Charges		declaring 1	he
			Effective	recoverable o	n commercia				Effective	recoverable	on	commercial	

S. No.			Existing Pro	ovisions				Revised Pro	visions	
			Date	Scheduled COD	operation (COD)			Date	Scheduled COD	operation (COD)
				of the Element	of the respective				of the Element	of the respective
				of the Project	Element				of the Project	Element
	1.	Establishment of			Elements	1.	Establishment of			Elements
		2x1500 MVA			marked at SI. No.		2x1500 MVA			marked at SI.
		765/400kV &			1, 2, 3, 4 & 5 are		765/400kV & 3x500			No. 1, 2 & 3 are
		3x500 MVA			commissioned		MVA 400/220 kV			commissioned
		400/220 kV			simultaneously		pooling station at			simultaneously
		pooling station at			as their		Bhadla-3 along			as their
		Bhadla-3 along			utilization is		with 2x330 MVAr			utilization is
		with 2x330 MV/Ar			dependent on		(765kV) Bus			dependent on
					commissioning		Reactor & 2x125			commissioning
		(705KV) Dus			of each other.		MVAr (420kV) Bus			of each other.
							Reactor			
		MVAr (420KV) BUS					- 7CE (400W) 4500			
		Reactor					• 765/400KV 1500			
		• 765/400kV					including one			
		1500 MVA ICTs:					spare unit)			
		2 nos. (7x500		16.48%			• 765kV/ICT bays - 2		20.08%	
		MVA including					nos			
		one spare unit)					• 400/220 kV 500			
		• 765kV ICT bays -					MVA ICT = 3 nos			
		2 nos.					• 765kV line havs -			
		• 400/220 kV 500					2 nos			
		MVA ICT = 3					• 400 kV ICT bays -			
							5 nos.			
							• 220 kV ICT bays -			
		• 765KV line bays					3 nos.			
		-2 nos.					• 220 kV line bays:			
		• 400 kV ICT bays					5 nos.			
		– 5 nos.					• 330 MVAr Bus			
		• 220 kV ICT bays					Reactor-2 nos.			
		- 3 nos.					(7x110 MVAr,			
		• 400 kV line bays					including one			
		- 2 nos.					spare unit)			

S. No.		Existing Provisions	_	Rev	vised Provisions	
	• 220 kV line			• 765kV reactor		
	bays: 5 nos.			bay- 2 nos.		
	• 330 MVAr Bus			• 125 MVAr, 420kV		
	Reactor-2 nos.			bus reactor - 2		
	(7x110 MVAr,			nos.		
	including one			• 420 kV reactor		
	spare unit)			bay - 2 nos.		
	• 765kV reactor			Future provisions:		
	bay- 2 nos.			Space for		
	• 125 MVAr,					
	420kV bus			• 765/400kV ICTs		
	reactor - 2 nos.			along with bays:		
	• 420 kV reactor			2 nos.		
	bay - 2 nos.			• 765kV line bay		
	,			along with		
	Future			switchable line		
	provisions: Space			reactor: 6 nos.		
	for			• 765kV line bay: 4		
				nos. • 765kV/ Bus		
	• 765/400kV_ICTs			• 705KV Bus Reactor along		
	along with bays:			with bays: 2 nos.		
	2 nos.			• 400/220 kV ICTs		
	• 765kV line bay			along with bays:		
	along with			10 nos.		
	switchable line			• 400 kV line bays:		
	reactor: 6 nos			8 nos.		
	• 765kV line bay:			• 400 kV line bays		
	4 nos			along with		
	4 1105.			switchable line		
				reactor: 8 Nos.		
	Reactor along			• 400kV Bus		
	with bays: 2			Reactor along		
	nos.			with bays: 2 nos.		

S. No.			Existing Pro	ovisions				Revised Pro	visions	
		• 400/220 kV ICTs					• 400kV			
		along with bays:					Sectionalization			
		10 nos.					bay: 2 sets			
		• 400 kV line					• 220 kV line bays:			
		bays: 8 nos.					12 nos.			
		• 400 kV line bays					• 220kV			
		along with					sectionalization			
		switchable line					bay: 2 sets			
		reactor: 6 Nos				2.	Bhadla-3 PS – Sikar-		78.16%	
							II S/S /65 KV D/C			
		Poactor along					MVAr Switchable			
							line reactor for			
		With Days. 2					each circuit at each			
		10S.					end of Bhadla-3 PS			
		• 400KV					– Sikar-II S/s 765 kV			
		Sectionalization					D/c line			
		bay: 2 sets					Switching			
		• 220 kV line					equipment for			
		bays: 12 nos.					765 kV 330 MVAR			
		• 220kV					switchable line			
		sectionalization					reactor – 4 nos.			
		bay: 2 sets					• 765 kV, 330			
	2.	Fatehgarh-2 PS –		18.69%			MVAr Switchable			
		Bhadla-3 PS					line reactor- 4			
		400kV D/c line				2	nos. 765 kV line have at		1 769/	
		(Quad moose)				5.	Sikar-II		1.70%	
		along with 63					• 765 kV line bays -			
		MVAr Switchable					2 nos.			
		line reactor for						I	I	<u> </u>
		each circuit at								
		both ends of				•				
		Fatehgarh 2-				•				
		Bhadla-3 400kV								
		D/c line								

No.			Existing Pro	ovisions	
		• 400kV 63 MVAR			
		switchable line			
		reactor – 4 nos.			
		 Switching 			
		equipment for			
		400kV 63 MVAR			
		switchable line			
		reactor – 4 nos.			
	3.	400 kV line bays		0.70%	
		at Fatehgarh-2 PS			
		for Fatehgarh-2			
		PS – Bhadla-3 PS			
		400kV D/c line			
		• 400 kV line bays			
		- 2 nos.			
	4.	Bhadla-3 PS –		62.61%	
		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			

S. No.			Existing Pro	ovisions				Revised Pro	visions	
		Switchable line								
		reactor- 4 nos.								
	5.	765 kV line bays		1.52%						
		at Sikar-II								
		• 765 kV line havs								
		= 2 nos								
		2 1103.								
	•									
3.	Schedu	le: 2 of TSA				Schedu	le: 2 of TSA			
	S. No.	Name of the	Schedule	Percentage of	Element(s)	S. No.	Name of the	Schedule	Percentage of	Element(s)
		Transmission	d COD in	Quoted	which are pre-		Transmission	d COD in	Quoted	which are pre-
		Element	months	Transmission	required for		Element	months	Transmission	required for
			from	Charges	declaring the			from	Charges	declaring the
			Effective	recoverable on	commercial			Effective	recoverable on	commercial
			Date	Scheduled COD	operation (COD)			Date	Scheduled COD	operation (COD)
				of the Element	of the respective				of the Element	of the respective
				of the Project	Element				of the Project	Element
	1.	Establishment of			Elements	1.	Establishment of			Elements
		2x1500 MVA			marked at Sl. No.		2x1500 MVA			marked at SI.
		765/400kV &			1, 2, 3, 4 & 5 are		765/400kV &			No. 1, 2 &3 are
		3x500 MVA			required to be		3x500 MVA			required to be
		400/220 kV			commissioned		400/220 kV			commissioned
		pooling station at		16.48%	simultaneously		pooling station at		20.08%	simultaneously
		Bhadla-3 PS along			as their		Bhadla-3 PS along			as their
		with 2x330 MVAr			utilization is		with 2x330 MVAr			utilization is
		(765KV) Bus			dependent on		(765KV) Bus			dependent on
		Reactor & $2X125$			commissioning					commissioning
		Reactor			of each other.		Reactor			of each other.
	2.	Fatehgarh-2 PS –		18.69%		2.	Bhadla-3 PS –		78.16%	
		Bhadla-3 PS 400kV		_0.0070			Sikar-II S/s 765 kV			
		D/c line (Quad					D/c line along with			
		moose) along with					330 MVAr			
		63 MVAr					Switchable line			
		Switchable line					reactor for each			
		reactor for each					circuit at each end			
		circuit at both ends					of Bhadla-3 PS –			
		of Fatehgarh 2-					Sikar-II S/s 765 kV			
		Bhadla-3 400kV					D/c line			

S. No.			Existing Provision	ons		Revised Provisions								
		D/c line				3.	2 nos. of 765kV		1.76%					
	3.	2 nos. of 400 kV		0.70%			line bays at Sikar-II							
		line bays at					S/s							
		Fatehgarh-2 PS for												
		Fatehgarh-2 PS –												
		Bhadla-3 PS 400kV												
		D/c line												
	4.	Bhadla-3 PS –		62.61%	-									
		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												
	5.	2 nos. of 765kV line		1.52%										
		bays at Sikar-II S/s												
	Propo					 Propo								
	5.	Name of the Transmiss	sion Element	Percentage	of Quoted	5.	Name of the Transmis	sion Element	Percentage	OT	Quoted			
	NO.			Transmissio	n Charges	NO.			Transmission		Charges			
				recoverable	on				recoverable on	Sched				
				Scheduled	COD of the				of the Element	of the P	roject			
				Element of t	ne Project	1.	Establishment of 2	x1500 MVA						
	1.	Establishment of	2x1500 MVA				765/400KV & 3X500 N	/IVA 400/220						
		765/400KV & 3X500 N	1VA 400/220 KV	10	100/		kv pooling station at		20.	08%				
		pooling station at Bn	adia-3 PS along	16.4	+8%		Buc Postor & 2	VAI (705KV)						
			Neus Reactor				(420kV) Bus Reactor	XIZS IVIVAI						
	2	Catobgarb 2 DS Bba	J DUS REACION	10	60%	2	Bhadla-2 DS - Sikar-I	1 S/c 765 W	79	16%				
	2.	P_{1} P_{2} P_{2} P_{3} P_{3	along with 62	10.	0970	2.	D/c line along with	330 MVΔr	70.	10/0				
		MVAr Switchahle line	reactor for each				Switchable line reac	tor for each						
		circuit at both ends	of Fateboarb 2-				circuit at each end of	Bhadla-3 PS						
		Bhadla-3 400kV D/c lin					– Sikar-II S/s 765 kV D)/c line						
	3.	2 nos. of 400 kV line ha	vs at Fatehgarh-	07	/0%	3.	2 nos. of 765kV line b	avs at Sikar-	1.	76%				
		2 PS for Fatehgarh-2 P	PS – Bhadla-3 PS				ll S/s							
		400kV D/c line				LL			1					
	4.	Bhadla-3 PS – Sikar-II	S/s 765 kV D/c	62.	61%									

S. No.	Existing Provisio	ns		Revised Provisions
	line along with 330 MVAr Switchable			
	of Bhadla-3 PS – Sikar-II S/s 765 kV D/c			
	line			
	5. 2 nos. of 765kV line bays at Sikar-II S/s	1.52%		
5.	Specific technical requirement of s/s of RfF	', Clause No. B.1.2		Specific technical requirement of s/s of RfP, Clause No. B.1.2
	B.1.2 Switching Scheme			B.1.2 Switching Scheme
	Notes: -			Notes: -
	v) Bay configuration at 400kV Bhadla-3 s, in a diameter shall be terminated to ICT an Line /Bus Reactor. Accordingly, 04 nos. com diameter (consisting of Main and associated no. future bay (for terminating of one Fatehgarh-3 D/C line) in the same diameter	's shall be such that one fe d other shall be terminate plete diameter and 01 no I Tie bay) with a provision circuit of 400kV Bhadla- shall be under present sc	eeder ed to . half of 01 -3 to cope.	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 SUBSTATION AND COMMUNICATION	FOR TRANSMISSION	LINE,	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.
	General			