Amendment No. 2 Dated 14.06.2024 to

RFP documents for Selection of Bidder as Transmission service provider for

"Construction of 400/220/132 kV Grid substation at Joda/Barbil with associated transmission lines"

SI	Exist	ing Provisions		Revised Provisions						
No										
1.	Clau	se No 2 of RfP Notification,		Clause No 2 of RfP Notification.						
	Clau	se No 1.2 of Section 1 of RfP,		Clau	ise No 1.2 of Section 1 of RfP,					
	Sche	dule:1 (b) of TSA		Sche	edule: 1 (b) of TSA					
	51	Name of Transmission Element	Scheduled COD In	3	Name of Transmission Element	Scheduled COD In				
			Fffective Date			Fffective Date				
	1.	Construction of 400/220/132 kV Grid substation with	24 months	1	L. Establishment of 2x500 MVA. 400/220 kV AIS substation at	24 months				
		associated transmission lines along with 2 X 125 MVAR			Rimuli. Odisha alona with 2 X 125 MVAR (420 kV) Bus reactor.					
		(420 kV) Bus reactor at Joda/Barbil with following Bays								
		at S/s			• 400/220 kV,500 MVA ICT – 2 nos					
		2x500 MVA ICT (400/220 kV) + 2x160MVA AUTO			• 125 MVAR ,420 kV Bus reactor- 2 nos					
		(220/132/33 kV) + 1x20 MVA (132/33 kV) Power								
		Transformer			<u>400 kV Bay:</u>					
		<u>400 KV Bay:</u>			• 400 kV feeder bay- 4 nos. (LILO of Kaniha- Bisra)					
		• 400KV Feeder bay: 4 nos.			• 400 kV ICT bay- 2 nos.					
		 400KV ICT Bay: 2 nos. 			• 400 kV Tie bay- 4 nos.					
		• 400KV Tie Bay: 4 nos.			• 400 kV Bus Reactor bay- 2nos.					
		 400KV Bus Reactor Bay: 2nos. 								
		220 KV Bay:			<u>220 kV Bay:</u>					
		• Feeder Bay: 4 nos			• 220 kV Feeder bay: 6 nos. (2 for LILO of Joda-Keonjhar, 2					
		ICT Bay: 2 nos.			nos for LILO of Joda-TTPS, 2 nos. for Rimuli-Barbil					
		• Bus Coupler Bay: 1 nos.			connectivity)					
		 Spare Bay: Provision for additional 4 nos. for future 			• 220 kV ICT bay- 2 nos.					
		Auto Transformer Bay: 2 nos.			Bus Coupler bay- 1 nos.					
		<u>132 KV Bay:</u>			• Transfer Bus coupler (TBC)- 1 no.					
		 Auto transformer Bay: 2 nos. 								
		• Feeder Bay: 2nos.			Future Provisions: Space for					
		• Bus coupler Bay: 1 no.			• 400/220 kV 2x 500 MVA ICT along with Bay- 2 Nos.					
		Power transformer Bay: 1 no.			• 400 kV Line bay with line reactor - 2 Nos.					
		• Spare Bay: Provision for additional 4nos. for future			• 220 kV line bay- 8 nos					
		<u>33 KV Bay:</u>			• 220 kV Sectionalizer bay -1 set					
		• 33KV Power Transformer Bay: 1 no.			• 220 kV Bus coupler bay - 1 no					
		• 33KV Feeder Bay: 1 no.			220 kV Transfer Bus Coupler bay: 1 no					
		Future Provisions: Space for		2	2. Establishment of 2x 160 MVA, 220 kV GIS substation at existing					

	2. 3. 4. 5.	 400/220 kV 1X500 MVA ICT a 400 kV Line Bay: 2 Nos. 220 kV Line Bay: 8 Nos. 132 kV Line Bay: 6 Nos. LILO of 400kV Kaniha -Bisra D/ Joda/Barbil LILO from 220kV Joda(existing) 400kV S/s Joda/Barbil LILO from 220kV Joda (existing) 400kV S/s Joda/Barbil LILO from 220kV Joda (existing) 400kV S/s Joda/Barbil 132KV DC line connectivity from substation at Joda/Barbil with Grid S/s te: (i) OPTCL to provide space for 	C line at 40 -Keonjhar)-Tikarpada m 400/220 existing 13 2 nos. of 1	Bay: 2 Nos. DOkV S/s SC line at a SC line at /132 kV Grid 2/33KV Barbil 32 kV Line Bays	at existing	3. 4. 5.	Barbil Grid S/s (OPTCL). 220/132 kV, 160 MV. 220 kV GIS Bay: Line Bay: 2 nos. 220 kV ICT Bay- 2 nos. Bus Coupler Bay- 1 n. 132 kV AIS Bay extension in e. 132 kV ICT Bay: 2 nos. LILO of 400kV Kaniha (NTPC)- 400/220 kV Rimuli AIS S/s LILO of 220kV Joda(existing)-Rimuli AIS S/s LILO of 220kV Joda (existing)-Rimuli AIS S/s	A ICT -2 no. s. o. <u>xisting 132</u> Bisra (OPT Keonjhar S, TTPS S/C li	s <u>kV switchyard:</u> CL) D/C line at /C line at 400/220 ne at 400/220 kV	kV	
2.	Clause No 2.6.1 of RfP Schedule:2 of TSA					6. No. i, Clause Schedu	220 kV D/C line from 400/220 kV Rimuli AIS S/s to existing Barbil Grid S/s (OPTCL) te: OPTCL shall provide space for 220 kV GIS, 2x 160 MVA transformer and associ 132 kV AIS Bay extension in the existing Barbil 132 kV Grid S/s (OPTCL). No 2.6.1 of RfP ule:2 of TSA				and associated TCL).
	SI. No.	Name of the Transmission Element	Schedule COD	Percentage of Quoted Transmissio n Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre- required for declaring the commercial operation (COD) of the respective Element	SI. No	Name of the Transmission Element	Schedule COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Elemer pre-i dec co opera the	nt(s) which are required for claring the mmercial tion (COD) of respective Element
	1	Construction of 400/220/132 kV Grid substation with associated transmission lines along with 2 X 125 MVAR (420 kV) Bus reactor at Joda/Barbil	24 Months	29%	Elements marked at S. No. 1 to 6 are required to be commissioned simultaneously as	1	Establishment of 2x500 MVA, 400/220 kV AIS substation at Rimuli, Odisha along with 2 X 125	24 Months	100% (Total)	Elements No. 1 to 6 to be con simultano	marked at S. 6 are required nmissioned eously as their

with following Bays at S/s	their utilization is	MVAR (420 kV) Bus reactor.	utilization is dependent
	dependent on		on commissioning of
2×500 M//A ICT (400/220 k//) +	commissioning of	• 400/220 kV,500	each other.
2×160MV/A AUTO (220/132/33	each other.	MVA ICT – 2 nos	
k_{1} + 1 × 20 M/VA (122/22 k/V)		• 125 MVAR ,420 kV	
RV) + 1X20 WVA (132/33 RV)		Bus reactor– 2 nos	
Power transformer			
400 KM Pow		<u>400 kV Bay:</u>	
		a 400 kV feeder have 4	
• 400KV Feeder bay: 4 hos.		• 400 kV Jeeder buy- 4	
• 400KV ICT Bay: 2 nos.		Bisra)	
• 400KV THE Bay: 4 hos.		$\mathbf{A} = \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A} \mathbf{A}$	
• 400KV BUS Reactor Bay:		• 400 kV Tie bay- 4 nos	
21105.		• 400 kV Bus Reactor	
220 KV Bave		hav- 2nos	
E Fooder Pay: 4 pag		50y 211051	
• Feeder Bay, 4 nos.		220 kV Bay:	
ICT Bdy: 2 Hos. Bus Coupler Pour 1 per			
Bus couplet Bay. 1 Hos. Spare Day, Dravisian for		• 220 kV Feeder bay: 6	
• Spare Bay. Provision for		nos. (2 for LILO of	
• Auto Transformer Bay: 2		Joda-Keonjhar, 2	
		nos for LILO of Joda-	
1105.		TTPS, 2 nos. for	
132 KV Bay:		Rimuli-Barbil	
Auto transformer Bay: 2		connectivity)	
nos		• 220 kV ICT bay- 2 nos.	
Eeeder Bay: 2nos		• Bus Coupler bay- 1	
Bus coupler Bay: 1 pos		nos.	
Power transformer Bay: 1		• Transfer Bus coupler	
		(<i>IBC</i>)- 1 no.	
Spare Bay: Provision for		Eutura Droviciance Engra for	
additional 4nos. for future		ruture Provisions. space jor	
		• 400/220 kV 2x500	
<u>33 KV Bay:</u>		MVA ICT along with	
33KV Power Transformer		Bay- 2 Nos.	
Bay: 1 no.		• 400 kV Line bay with	
• 33KV Feeder Bay: 1 no.		line reactor - 2 Nos.	
		• 220 kV line bay- 8	
Future Provisions: Space for		nos	
• 400/220 kV 1X500 MVA ICT		220 kV Sectionalizer	
along with Bay: 2 Nos.		bay -1 set	

						-
	 400 kV Line Bay: 2 Nos. 220 kV Line Bay: 8 Nos. 132 kV Line Bay: 6 Nos 			 220 kV Bus coupler bay - 1 no 220 kV Transfer Bus Coupler bay: 1 no 		
2	LILO of 400kV Kaniha -Bisra D/C line at 400kV S/s Joda/Barbil	63%	2	Establishment of 2x 160 MVA, 220 kV GIS substation at existing Barbil Grid S/s		
3	LILO from 220kV Joda(existing)-Keonjhar SC line at 400kV S/s Joda/Barbil	6%		• 220/132 kV, 160 MVA ICT -2 nos		
	LILO from 220kV Joda (existing)-Tikarpada SC line at 400kV S/s Joda/Barbil			220 kV GIS Bay: Line Bay: 2 nos. 220 kV ICT Bay- 2 nos.		
5	132KV DC line connectivity from 400/220/132 kV Grid substation at Joda/Barbil with existing 132/33KV Barbil Grid S/s	1%		• Bus Coupler Bay- 1 no. <u>132 kV AIS Bay extension in</u> <u>existing 132 kV switchyard:</u> 132 kV ICT Bay: 2 nos.		
6	132 kV Bay at existing 132/33KV Barbil Grid S/s: 2 nos.	1%	3	LILO of 400kV Kaniha (NTPC)-Bisra (OPTCL) D/C line at 400/220 kV Rimuli AIS S/s		
			4	LILO of 220kV Joda(existing)-Keonjhar S/C line at 400/220 kV Rimuli AIS S/s		
			5	LILO of 220kV Joda (existing)-TTPS S/C line at 400/220 kV Rimuli AIS S/s		
			6	220 kV D/C line from 400/220 kV Rimuli AIS S/s to		

			existing Barbil Grid S/s (OPTCL)			
3.	All the relevant clauses of RFP, TSA and SPA "SPV [which is under incorporation]"	All the relevant clauses of RFP, TSA and SPA "SPV [which is under incorporation]" in the subject RFP, TSA and SPA may be read as "JODA BARBIL TRANSMISSION LIMITED"				