Dedicated Freight Corridor Corporation of India Limited

(A Government of India Enterprise)

ADDENDUM No. 02 dated. 23.01.2018

Addendum/Amendments to the Bid Document

DESIGN, SUPPLY, CONSTRUCTION, INSTALLATION, OF 2X25 kV ELECTRIFICATION, SIGNALLING AND TELECOMMUNICATION AND ASSOCIATED WORKS INCLUDING TESTING AND COMMISSIONING FOR DOUBLE TRACK ELECTRIFIED RAILWAY LINE ON DESIGN BUILD LUMP SUM BASIS FROM MUGHALSARAI TO NEW SONNAGAR AND CHIRAILAPATHU STATION (EXCLUDING NEW KARWANDIYA –NEW DURGAUTI SECTION) OF EASTERN DEDICATED FREIGHT CORRIDOR.

Bid Document No.: HQ/SYS/EC/D-B/MGS-DGO & KWDN-CPBH-SEBN.

Date 29.12.2017

SN	Part/Section/Volume	Page No.	Clause No.	Item	Addendum/Amendment to the Bid Document
1.	Part 2, Section V(B) Vol 8, PS Telecommunication	349 of 741		System Requirements of Data Networking System	Replace existing Para with the following: WAN shall connect OCC, DFC stations and IMD in Ring Topology using Optic Fibre Cable laid along Up and Down Track of DFCCIL. Further WAN shall connect TSS/RSS at New Durgauti with New Durgauti Station and TSS/RSS at New Karwandiya with New Karwandiya Station in Redundant Linear Topology using Optical Fibre Cable. WAN shall be created using Layer-3 Access Switch. As such Layer-3 Access Switch should be equipped with 4 Nos. 10GigE Fibre Ports for backbone interconnections.
2.	Part 2, Section V(B) Vol 8, PS Telecommunication	356 of 741	7.3.5.2	Administrative Telephone Network	Replace existing Para with the following: Administrative Telephones to be provided shall be Digital Telephones at OCC (16 Nos.) and at Stations (8 Nos. at each Station). All the remaining telephones shall be Analogue Telephones.
3.	Part 2, Section V(B) Vol 8, PS Telecommunication		7.3.8 (3)	Direct line Console	Replace existing Para with the following: Direct Line Consoles shall be provided for Station Controllers in SCR of each Station and shall have a minimum direct line capacity of 30 lines and shall be capable of interfacing with required direct line extensions.
4.	Part 2, Section V(B) Vol 8, PS Telecommunication	381 of 741	10.1	25 watt VHF Transceivers	The following three sub paras to be added in Clause 10.1:- 10.1.5 Specifications given below shall be read in conjunction with RDSO

SN	Part/Section/Volume	Page No.	Clause No.	Item	Addendum/Amendment to the Bid Document
					Specification No. RDSO/SPN/TC/73/2008. 10.1.6 Provision of Voice Recording of conversation taking place on 25 Watt VHF Transceivers shall be provided through Voice Recording Equipment. This recording shall be Date and Time Stamped along with Stamping of Station Identity and VHF Channel Identity. Storage of Voice Communication shall follow FIFO (First-In-First-Out) methodology. Once voice communication is stored, it shall not get corrupted in any way. There shall not be any compression of the Voice Signals. The capacity of Voice Storage shall be at least 4 -weeks. There shall be an Ethernet Interface Port through which Recorded Voice can be transferred to Laptop for replay or taking backup on CD/DVD. It shall be able to replay the Voice Recordings by simple operation of some feature/function key. 10.1.7 Device for protection of 25 watt VHF Transceivers base station shall be provided in accordance with RDSO Specification No. RDSO/SPN/TC/98/2011 for Surge Protective Devices for Telecommunication Equipment
5.	Part 2, Section V(B) Vol 8, PS Telecommunication	386 of 741		Battery Backup System	Replace the existing Para with the following: Alarms for the Battery Backup System shall be implemented through Network Management System (NMS) provided in EDFC Phase-1 in the TER at OCC. Contractor shall extend these alarms using appropriate interface such as RS-232, RS-485, TCP/IP etc. Following Alarms shall be provided on the NMS in the TER at OCC for each of the 48 V DC Battery Backup System at all locations. (1) Mains Available/Mains Not Available (2) Mains Out of Range (3) Float Mode (4) Charge Mode (5) System Overload (6) Rectifier Modules Fail (one or more than one) (7) Battery Cut-Off Pre-Alarm (8) Battery Fail/Isolated
6.	Part 2, Section V(B) Vol 8, PS Telecommunication	422 of 741		EPABX Switch & Telephone Set Locations and Quantity	Replace the table and note in Annexure-1 with the following table and note.

SN	Part/Section/Volume	Page No.	Clause No.	Iten	n		Ad	dendum	/Amendi	ment to	the Bi	d Docum	ent	
						SN	Switch		Telephone Set					
							Location		Station Buildin g		y Auto		Total EPABX Telephones	
						1	New Chiraillapathu		15	0	0	20	50	
						2	New Sonnagar	15	15	15	10	10	65	
						3	New Sonnagar Link	10	10	0	15	15	50	
						4	New Ganjkhwaja	10	10	10	10	10	50	
						5	New ERC Mughalsarai	10	10	0	15	15	50	
						6	OCC						30	
						Telep		individu	ial locati				The requiren requirement v	
7	Part 2, Section V(B)	456 of 741	6.5.3	Short	Circuit	Para	should be rep	laced as	under:					
	Vol 9, PS Electrical			Capacity		Highe	r Fault levels	can be ex	pected for	or TSS	location	s very clo	se to Generati	ng
						statio	n for which ac	tual fault	levels m	ay be v	orked o	out in cons	sultation with	Power
						Utilit	/PGCIL and s	switchgea	r selected	d accor	dingly.			
8	Part 2, Section V(B)	459 of 741		Earthing Bonding	and		following afte						-11. 6501"	
	Vol 9, PS Electrical						hing and Bond					s level of t	able 6.5.2.1".	
9	Part 2, Section V(B)	463 of 741	New Sub Clause 7.1.4	Scope of V	Vorks	New clause 7.1.4 should be added as under:								,
	Vol 9, PS Electrical		Clause 7.1.4			7.1.4 - Following information regarding adjoining sections is furnished as under:								
						Switching Stations details of New Karwandiya to Durgauti (EDFC) sect						cuon:		
							SN Item		Location	name	IR Ch (K	ainage		

SN	Part/Section/Volume	Page No.	Clause No.	Item	Addendum/Amendment to the Bid Document								
						1	TSS	New Karwa	ndiya 5	566			
						2	SSP	Kumahu	4	576			
						3	SSP	Shivsagar	4	586			
						4	SP	Kudra	4	597			
						5	SSP	Pasuli	(506			
						6	SSP	Muthani	(516			
						ching kuni:		details of New Son	ınagar to	Next TSS tov	<u>vards</u>		
						SN	Item	Location na	((R Chainage (Km)			
						1	SP	Deoria Kurr	naha 5	532.06			
						2	SSP	Deo Road	4	515.06			
						3	TSS	Ismailpur	4	199.5			
								details of Mughal upto next TSS: Location name		haupur sectio	on (CP-204)		
						1	TSS	Deoria	681				
10	Part 2, Section V(B) Vol 9, PS Electrical	464 of 741	Table 7.2.3	Salient features of 220/132 kV Power									
				Transformers.		No Load losses				40 KW			
						Loa	d Losses		220 KW				

SN	Part/Section/Volume	Page No.	Clause No.	Item	Addendum/Amendment to the Bid Document							
					Auxiliary Losses Total Losses			8.5 KW				
							S	268.5 KW				
11	Part 2, Section V(B) Vol 9, PS Electrical	466 of 741	Table 7.2.4-1	Salient features of Auto								
	voi 9, 13 Electrical			Transformers.		l aximum p No load lo	permissible losses	7.5 KW				
						Load losse		7.5 KW 26.5 KW				
						Total loss		34 KW				
12	Part 2, Section V(B)	470 of 741	Clause 7.2.11		Follow	ing should	l be added as the la	st para of the su	b clause 7.2.11	<u>.</u>		
	Vol 9, PS Electrical			for SCADA.		_	ns details of New K	Carwandiya to Du	urgauti (EDFC) section		
					are as	under:	1					
					SN	Item	Location name	IR Cha (Km)	inage			
					1	TSS	ΓSS New Karwandiya 5		566			
					2	SSP	Kumahu	576				
					3	SSP	Shivsagar	586				
					4	SP	Kudra	597				
					5	SSP	Pasuli	606				
					6	SSP	Muthani	616				
					No. of	S&T huts -	- 10					
					No. of	LC gates –	17					
						_	unction station – 03					
					No. of	11 kV subs	station – 04 (03 nos.	at station; 1 no. a	at separate locat	ion).		
13	Part 2, Section V(B) Vol 9, PS Electrical	471 of 741	Table 7.2.14	Interface for Transmission	for Table 7.2.14 should be replaced as under: Interface for Transmission line for RSS:							
				Line and RSS:	Item		System Contractor	PGCIL	IR			

SN	Part/Section/Volume	Page No.	Clause No.	Item	Addendum/Amendment to the Bid Document								
					220 kV double circuit Transmission line Pusauli to New Durgauti	Shall co- ordinate with PGCIL	Shall carryout the work.						
					Gantry 220 kV	Shall install the Gantry in co- ordination							
					Connection to transmission line at 220 kV	Shall co- ordinate and provide assistance to PGCIL	Shall carryout the work.						
					RSS 220/132 kV TSS 132 kV/55kV	Shall carryout the work							
					Outgoing Feeder 132 kV	Shall carryout the work in co- ordination with IR.		Shall co- ordinate with DFCCIL and DFCC's System contractor.					
					Gantry 132 kV	Shall carryout the work in consultation with IR.		Shall co- ordinate with DFCCIL and DFCC's System contractor.					
					Connection to IR transmission line at 132 kV	Shall co- ordinate and provide assistance to IR.		Shall carryout the work.					

SN	Part/Section/Volume	Page No.	Clause No.	Item	Addendum/Amendment to the Bid Document							
14	Part 2, Section V(B)	478 of 741	Sub Clause 8.8	OHE Conductors	Replace clause 8.8.1 with the following:							
	Vol 9, PS Electrical		.1		8.8.1 Sizes of C	8.8.1 Sizes of Conductors.						
					The sizes of con	ductors are f	urnished in the ta	ble no. 8.8-1 be	elow:			
							Table No. 8.8-	-1				
						O	HE Conductor of	letails				
					Conductor Size Material Specification (mm²)							
					Catenary	125	Cadmium Copper	ETI/OHE/50				
					Contact Wire							
					Feeder Wire	288	AAAC	IS 398				
					Aerial Earth Wire	Of adequate size	ACSR	Relevant Specification.				
					Buried Earth Conductor	Adequate size if required	Hot dipped galvanized stranded steel wire.	IS:2629:1985				
15	Part 2, Section V(B) Vol 9, PS Electrical	569 of 741	Table 19.2.1-1	Supply of OHE spares	In SN-2 of the table 19.2.1-1, the word "120 mm ² " should be replaced as "125 mm ² ".							
16	Part 2, Section V(B) Vol 9, PS Electrical	612 of 741		List of Governing Acts, Regulations and	Replace the first row of the table with the following:-							
				Specifications	CEA Safety Re Safety)	gulations (M	leasures relating	to 2010				