



Dedicated Freight Corridor Corporation of India Limited

(A Government of India Enterprise under Ministry of Railways)

E-Tender Document FOR

Name of Work: "S&T work of Addition & Alteration in existing Electronic Interlocking System (M/s Hitachi Make) at New Phulera (FLN) station along with Indoor and outdoor S&T work in connection with Line No. 3/3A and 6/6A including TMS work at New Phulera station yard of WDFC under CGM/Jaipur Unit. The work includes excavation of trench, laying of cables in RCC half round pipes/GI Pipe/DWC/HDPE/trench etc., casting of foundations of MACLS Signals/apparatus cases, supply-installation of point machines, Apparatus cases, MACLS signals, Track circuit equipment (M/s Frauscher make MSDAC system in station yard), Earthing, TMS, ELD, etc. Track circuits to meet centralized operation of points & signals etc. as per RE standard along with testing & commissioning of Interlocking of New Phulera (FLN) station and requisite interface with Existing Signal Interlocking (Hitachi make EI System)."

TWO PACKET OPEN E-TENDER NOT TRANSFERABLE

Tender No. DFC-JP-SNT-WORKS-FLN-10

(Participation through e-Tender only)

**Visit: www.ireps.gov.in its link at <https://dfccil.com>
(Help desk of IREPS: 011-23761525)**

**Financial Bid (Packet-B)
May 2025**

Employer:

Chief General Manager

**Dedicated Freight Corridor Corporation of India Ltd.
C-16, Khushi Vihar, Patrakar Colony,
Mansarovar, Jaipur - 302020**



डेडीकेटेड फ्रेट कॉरीडोर कार्पोरेशन ऑफ इण्डिया लि.

भारत सरकार (रेल मंत्रालय) का उपक्रम

Dedicated Freight Corridor Corporation of India Ltd.

A Govt. of India (Ministry of Railways) Enterprise

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General Information/Data Sheet

1	E-Tender No.	DFC-JP-SNT-WORKS-FLN-10
2	Name of Work	"S&T work of Addition & Alteration in existing Electronic Interlocking System (M/s Hitachi Make) at New Phulera (FLN) stations along with Indoor and outdoor S&T work in connection with Line No. 3/3A and 6/6A including TMS work at New Phulera station yard of WDFC under CGM/Jaipur Unit. The work includes excavation of trench, laying of cables in RCC half round pipes/GI Pipe/DWC/HDPE/trench etc., casting of foundations of MACLS Signals/apparatus cases, supply-installation of point machines, Apparatus cases, MACLS signals, Track circuit equipment (M/s Frauscher make MSDAC system in station yard), Earthing, TMS, ELD, etc. Track circuits to meet centralized operation of points & signals etc. as per RE standard along with testing & commissioning of Interlocking of New Phulera (FLN) station and requisite interface with Existing Signal Interlocking (Hitachi make EI System)."
3	Estimated Cost of Work	Rs. 17,58,23,373.80
4	Completion Period	06 (Six) Months.
5	Type of BID	Open E-Tender Two Packet
6	Tender Fee	Rs.10,000/- (Rs. Ten Thousand only) + 18 % GST 11,800/- to be paid online through payment gateway provided at www.ireps.gov.in .
7	Earnest Money Deposit (EMD) (Tender Security)	Rs. 10,29,100/ (Rs. Ten Lakh Twenty Nine Thousand One Hundred only) to be deposited online through payment gateway provided at www.ireps.gov.in
8	Uploading of NIT and Tender Document	28.05.2025 at 10:30 hrs on www.ireps.gov.in
9	Last Date & Time of Submission of Tender (Online)	30.06.2025 at 15:00 hrs on www.ireps.gov.in
10	Date and time of Online opening of Technical bid	30.06.2025 at 15:30 hrs on www.ireps.gov.in
11	Validity of offer	90 days from the date of opening of tender.
12	Defect Liability Period	180 days after successful completion of this Contract.
13	Address for Communication	Office of the Chief General Manager, Dedicated Freight Corridor Corporation of India Ltd, C-16, Khushi Vihar, Patrakar Colony, Mansarovar, Jaipur - 302020 Tel: 0141-3103278/45/22. Website: https://dfccil.com
14	Help Desk for E-Tendering	For any clarification, help and registration for E-Tendering & matter relating to Digital Signature, contact at Help desk of www.ireps.gov.in and phone 011-23761525, 011-41385200
15	Availability of Tender Documents	The Tender documents can be downloaded from www.ireps.gov.in Tenderer who wishes to view free Notification and Tender Documents can visit www.ireps.gov.in DFCCIL may issue Addendum (s)/Corrigendum (s) to the Tender document, if any, which shall be issued at least seven

		days in advance of date of opening of tender and placed on the website www.ireps.gov.in only.
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Note:

1. Tender documents should be downloaded from the website address <https://www.ireps.gov.in>. Payment of EMD and Tender Document fee, in respect of e- tendering, should be accepted through net banking or payment gateway only, before the schedule date and time of submission of the tender otherwise the Bid will not be considered/shall be summarily rejected. **Manual payments through Demand draft, Banker's cheque, Deposit receipts, FDR etc. are not allowed. However, the bid security in the form of Bank Guarantee bond from a Scheduled Commercial bank of India may be submitted.** The Bank Guarantee bond shall be as per **Annexure-VIA** and shall be valid for a period of 90 days beyond the bid validity period. Please refer clause no. 3.7 of Section-3 for detail regarding EMD payment
2. Fixed Deposit Receipt (FDR) will not be accepted as EMD for tender invited on IREPS (e-tender portal). The tender document are also available on official website of DFCCIL i.e. www.dfccil.com
3. No tender document will be available offline. Downloading tender documents online and submission of tender online is mandatory for this tender.
4. No request for extension of the Tender Due Date shall be considered.
5. The Offer shall be valid for 90 days from the date of opening of the tender, and extended further if required from time to time. The Contractor cannot withdraw their offer within the period of validity/extended validity lest liable for forfeiture of Earnest Money Deposit (Tender Security).
6. Notice Inviting Tender (NIT), Tender Document and Corrigendum/Addendum if any, will be posted on the E Tendering website www.ireps.gov.in Tenderers are advised to complete all submission related work well before Time and Date for Submission of Tender Online. Any request for modification in the time/date of submission of tender due to tenderer's failure to submit his offer, will not be accepted.
7. The tender documents shall be submitted in online mode only through website www.ireps.gov.in in two e-Packets only viz Packet- A containing TECHNICAL BID and Packet- B containing FINANACIAL BID. Detailed credential as per the requirement of eligibility criteria and all tender papers except Bill of Quantities are to be submitted in technical bid.
8. Any further addendum/Corrigendum for this tender will be posted in DFCCIL tendering portal website <https://www.ireps.gov.in> only. Interested bidders are advised to check website regularly for any Addendum/Corrigendum.

Chief General Manager
DFCCIL, Jaipur

Summary of Prices

Name of Work: S&T work of Addition & Alteration in existing Electronic Interlocking System (M/s Hitachi Make) at New Phulera (FLN) stations along with Indoor and outdoor S&T work in connection with Line No. 3/3A and 6/6A including TMS work at New Phulera station yard of WDFC under CGM/Jaipur Unit. The work includes excavation of trench, laying of cables in RCC half round pipes/GI Pipe/DWC/HDPE/trench etc., casting of foundations of MACLS Signals/apparatus cases, supply-installation of point machines, Apparatus cases, MACLS signals, Track circuit equipment (M/s Frauscher make MSDAC system in station yard), Earthing, TMS, ELD, etc. Track circuits to meet centralized operation of points & signals etc. as per RE standard along with testing & commissioning of Interlocking of New Phulera (FLN) station and requisite interface with Existing Signal Interlocking (Hitachi make EI System).

Schedule	Description	Value of the Component (in Rs.)
1	Supply and installation of Electronic Interlocking	47,56,069.75
2	Supply and installation of MSDAC	73,34,948.05
3	Supply and installation of Point machines	17,08,021.35
4	Supply and installation of Signals	5,19,641.80
5	Supply and installation of Train Management & Diagnostic System (TMS)	18,82,908.14
6	Supply of Signalling outdoor items	2,87,06,512.37
7	Warehousing and Logistics	26,18,884.09
8	Installation of Signalling outdoor items	82,13,303.73
9	Design Work Cost	2,52,38,449.51
10	Verification & Validation Cost	1,66,10,573.76
11	Integrated Testing and Commissioning (ITC) Cost	1,69,61,453.40
12	TMS Software Development + Implementation Cost (SITC)	6,12,72,607.85
Grand Total (Schedule 1 to Schedule 12) (incl. GST)		17,58,23,373.80

Notes/Conditions: -

1. The above rates are inclusive of all Govt. & Local taxes (including GST @18% , Labor Cess & Transport). However, GST, will be reimbursed only after having submitted the proof of having actually paid the above taxes/charges.
2. The bidder shall indicate his rate in %age below/above/at par, on total estimated cost on IREPS portal. The rate indicated shall be same for all the Schedules.

3. DFCCIL reserves the right to operate additional quantities of the schedule item as & when required within the variation limit.
4. The Contractor should adhere to **Anti Profiteering Provisions** as per Section 171 of the CGST Act. Incase due to change in the rates of GST/Change in law, the Contractor gets any credit/benefits, the same shall be passed on to DFCCIL by way of reduction in prices.

Declaration by the tenderer

- (1) I/We am/are signing this document after carefully reading the contents.*
- (2) I/We also accept all the conditions of the tender and have signed all the pages in confirmation thereof.*
- (3) I/We offer and agree to execute the above work at rate uploaded online at ***https://www.ireps.gov.in*** through digital Signature.*

Schedule of Approximate Quantities & Rate

Tender No: DFC-JP-SNT-WORKS-FLN-10

Name of Work: S&T work of Addition & Alteration in existing Electronic Interlocking System (M/s Hitachi Make) at New Phulera (FLN) stations along with Indoor and outdoor S&T work in connection with Line No. 3/3A and 6/6A including TMS work at New Phulera station yard of WDFC under CGM/Jaipur Unit. The work includes excavation of trench, laying of cables in RCC half round pipes/GI Pipe/DWC/HDPE/trench etc., casting of foundations of MACLS Signals/apparatus cases, supply-installation of point machines, Apparatus cases, MACLS signals, Track circuit equipment (M/s Frauscher make MSDAC system in station yard), Earthing, TMS, ELD, etc. Track circuits to meet centralized operation of points & signals etc. as per RE standard along with testing & commissioning of Interlocking of New Phulera (FLN) station and requisite interface with Existing Signal Interlocking (Hitachi make EI System).

Schedule of Works and Quantity						
Sl. No.	Item Description	Specification	Unit	Base Quantity	Unit price (including taxes, transport, Labour cess & GST)	Total Amount (in INR)
Schedule-1: Supply and installation of Electronic Interlocking						
1	QN1 relay (12F-4B)	IRS S 34 & IRS 23	Nos.	17.00	5,646.74	95,994.58
2	QN1 relay (8F-8B)	IRS S 34 & IRS 23	Nos.	15.00	5,646.74	84,701.10
3	QNN1 relay (2*4F-4B)	IRS S 34 & IRS 23	Nos.	10.00	8,470.12	84,701.20
4	QNN1 relay (2*6F-2B)	IRS S 34 & IRS 23	Nos.	10.00	8,470.12	84,701.20
5	QNNA1 relay (2*4F-4B)	IRS S 34 & IRS 23	Nos.	4.00	9,175.96	36,703.84
6	QNNA1 relay (2*6F-2B)	IRS S 34 & IRS 23	Nos.	3.00	9,175.96	27,527.88
7	QBCA1 Relay (2F(HD)-4B)	IRS S 34 & IRS 23	Nos.	11.00	8,470.12	93,171.32
8	AC lamp proving relay (QECX-61 relay) (4F-4B)	IRS S 34 & IRS 23	Nos.	35.00	6,352.59	2,22,340.65
9	QNA1K Relay (6F-6B) (6F-6B)	IRS S 34 & IRS 23	Nos.	28.00	6,352.59	1,77,872.52
10	KLCR (siemens)	IRS:S-46 & Firm's specification.	Nos.	3.00	9,670.05	29,010.15
11	Feed-Through Terminal Block Single Level 2.5 Sq. mm.	ST 2,5 (3031212)	Nos.	198.00	12.87	2,548.26
12	Feed-Through Ground Terminal Block Single Level 2.5 Sq. mm.	ST 2,5-PE (3031238)	Nos.	29.00	42.28	1,226.12
13	Feed-Through Terminal Block Single Level END Plate 2.5 Sq. mm.	D-ST 2,5 (3030417)	Nos.	47.00	4.12	193.64
14	Feed-Through Terminal Block Double Level 2.5 Sq. mm.	STTB 2,5 (3031270)	Nos.	457.00	29.73	13,586.61
15	Feed-Through Terminal Block Double Level END Plate 2.5 Sq. mm.	D-STTB 2,5 (3030459)	Nos.	42.00	4.73	198.66
16	Feed-Through Terminal Block Single Level 16 Sq. mm.	ST 16 (3036149)	Nos.	68.00	133.19	9,056.92
17	Feed-Through Terminal Block Single Level END Plate 16 Sq. mm.	DST-16 (3036657)	Nos.	35.00	30.63	1,072.05
18	Lever Type Fuse terminal block for 5 X 20 mm Cartridge Fuses with LED for 12-30 V DC 4 Sq. mm.	ST4-HESILED 24(5X20) (3036547/5792153)	Nos.	85.00	69.48	5,905.80
19	Lever Type Fuse terminal block for 5 X 20 mm Cartridge Fuses with N-Lamp 110-250V AC/DC 4 Sq. mm.	ST4-HESILED 24(5X20) (3036563/5792152)	Nos.	41.00	61.88	2,537.08

20	END Stopper (Relay Rack)	CLIPFIX35 (3022218)	Nos.	108.00	10.89	1,176.12
21	Glass Fuse Insert (630mA)	Cooper Bussman GMA-600R	Nos.	33.00	52.23	1,723.59
22	Glass Fuse Insert (1A)	Cooper Bussman GMA-1R	Nos.	75.00	26.82	2,011.50
23	Glass Fuse Insert (2A)	Cooper Bussman GMA-2R	Nos.	9.00	26.82	241.38
24	Glass Fuse Insert (3A)	Cooper Bussman GMA-3R	Nos.	7.00	26.82	187.74
25	Glass Fuse Insert (6A)	Cooper Bussman GMA-6R	Nos.	5.00	26.82	134.10
26	Glass Fuse Insert (10A)	Cooper Bussman ABC-10R	Nos.	4.00	38.11	152.44
27	Glass Fuse Insert (15A)	Cooper Bussman ABC-15R	Nos.	4.00	38.11	152.44
28	MODULAR TYPE FUSE TERMINAL BLOCK, FOR 6,3 X 32 mm CARTRIDGE FUSES	ST6-HESILED 250(6,3x32) (3212133)	Nos.	6.00	536.90	3,221.40
29	Jumper FBS (5-5)	3030190	Nos.	40.00	65.42	2,616.80
30	Jumper FBS (5-6)	3030349	Nos.	24.00	70.60	1,694.40
31	Jumper FBS (5-8)	3030310	Nos.	3.00	99.10	297.30
32	Jumper FBS (5-10)	3005948	Nos.	3.00	207.45	622.35
33	Jumper FBS (2-12)	3005950	Nos.	35.00	58.92	2,062.20
34	Jumper FBS (4-8)	3030307	Nos.	4.00	66.62	266.48
35	Transzob Diode	IN4007	No.	55.00	1.41	77.55
36	FDI2:	ADI011(F)	Nos.	7.00	1,97,946.76	13,85,627.32
37	FDO1:	ADO011(F)	Nos.	5.00	1,33,573.83	6,67,869.15
38	Souria connector female	MB52P-L120	Nos.	6.00	5,792.56	34,755.36
39	Souria pins		Nos.	286.00	164.89	47,158.54
40	Cable Terminal Rack (Inclnding SPD and Terminals)	6-ER-TYP-IL-0002-0	Nos.	2.00	5,89,884.75	11,79,769.50
41	Lighting arrestor SPD 120V AC/DC	(PLT-SEC-T3-120-FM) (2905228/2907927)	Nos.	55.00	3,493.92	1,92,165.60
42	Lighting arrestor SPD 24V DC	(PLT-SEC-T3-24-FM) (2905223/2907925)	Nos.	77.00	2,985.72	2,29,900.44
43	End Stopper for Cable Terminal Block	(CLIPFIX35) (3022218)	Nos.	88.00	10.89	958.32
44	End Plate for Cable Terminal Block	(D-ST2,5-TWIN) (3030488)	Nos.	55.00	7.15	393.25
45	Knife Disconnect Type Terminal	ST2,5-MT (3036343)	Nos.	715.00	38.86	27,784.90
Sub-Total for Schedule-1						47,56,069.75
Schedule-2: Supply and installation of MSDAC						
46	MSDAC Wheel Sensor and associated indoor / outdoor RSR 180/S-250 GS05 5 meters moulded cable	SPN/176/2013	Nos.	11.00	4,44,681.44	48,91,495.84
47	MSDAC Wheel Sensor and associated indoor / outdoor Wheel Sensor RSR 180/S-250 GS05 10 meters moulded cable	SPN/176/2013	Nos.	4.00	4,44,681.44	17,78,725.76
	Track Side Connection Box (Price included in 5/10 meter sensor price above at Sr. 46 & 47)	TLJB-01 (PC0101)	Nos.	18.00	-	-
	LV Box (Price included in 5/10 meter sensor price above at Sr. 46 & 47)	LVB-01 V01 (PC0109)	Nos.	8.00	-	-
	Overvoltage protection BSI004 (CC) (Price included in 5/10 meter sensor price above at Sr. 46 & 47)	GS01 (IN_18571)	Nos.	18.00	-	-

	Power supply Board PSC101 (Price included in 5/10 meter sensor price above at Sr. 46 & 47)	GS01(19949)	Nos.	3.00	-	-
	Evaluation Board AEB 101 (Price included in 5/10 meter sensor price above at Sr. 46 & 47)	GS04(24050)	Nos.	18.00	-	-
	Rail Claw SK140-011 (60 Kg) (Price included in 5/10 meter sensor price above at Sr. 46 & 47)	19813	Nos.	18.00	-	-
	Track Sections (Not a material, only for information) (Price included in 5/10 meter sensor price above at Sr. 46 & 47)		Nos.	7.00	-	-
	Rail Deflectors (Price included in 5/10 meter sensor price above at Sr. 46 & 47)	FRD-001	Nos.	18.00	-	-
48	Interface Design & Configuration Modification in existing circuit's		LS	1.00	2,67,261.15	2,67,261.15
49	Onsite wiring support & additional wiring in existing cubicle at site		LS	1.00	3,97,465.30	3,97,465.30
Sub-Total for Schedule-2						73,34,948.05
Schedule-3: Supply and installation of Point machines						
50	AC immunity 400V	IRS:S 24/2002 (Amd.1)	Nos.	9.00	1,89,780.15	17,08,021.35
Sub-Total for Schedule-3						17,08,021.35
Schedule-4: Supply and installation of Signals						
51	Red	RDSO/SPN/199/2010	Nos.	6.00	9,175.96	55,055.76
52	Yellow	RDSO/SPN/199/2010	Nos.	11.00	9,175.96	1,00,935.56
53	Green	RDSO/SPN/199/2010	Nos.	2.00	10,446.50	20,893.00
54	shunt signal	RDSO/SPN/153/2011	Nos.	22.00	6,352.59	1,39,756.98
55	Route Lamp	RDSO/SPN/153/2011	Nos.	21.00	8,187.78	1,71,943.38
56	A Marker LED	RDSO/SPN/153/2011	Nos.	2.00	7,764.28	15,528.56
57	AG Marker LED	RDSO/SPN/153/2011	Nos.	2.00	7,764.28	15,528.56
Sub-Total for Schedule-4						5,19,641.80
Schedule-5: Supply and installation of Train Management & Diagnostic System (TMS)						
58	FIU DI Module	Beckhoff KL1809	Nos.	9.00	16,123.72	1,45,113.48
59	Terminal Blocks including ZB Marker (as required)	Phoenix FLKM 16/ZFKKDS/IN045	Nos.	9.00	455.23	4,097.07
60	CABLE- FLK16/SO1/2 : PHOENIX DI CABLE- 2 Meter Length with ferrule Numbering and Lugs	Phoenix 2900480:SO1:2	Nos.	4.00	637.79	2,551.16
61	CABLE- FLK16/SO1/3 : PHOENIX DI CABLE- 3 Meter Length with ferrule Numbering and Lugs	Phoenix 2900480:SO1:3	Nos.	6.00	814.62	4,887.72
62	TB End Stoper - CLIPFIX 35	Phoenix 3022218	Nos.	5.00	37.99	189.95
63	Custom Duly + Social Welfare Surcharge (On submission of relevant supporting documents)		LS	1	1,64,479.09	1,64,479.09
64	Project Insurance, EAR (On submission of relevant supporting documents)		LS	1	15,61,589.67	15,61,589.67
Sub-Total for Schedule-5						18,82,908.14
Schedule-6: Supply of Signalling outdoor items						
65	Signalling cable 12C x1.5 Sq. mm	As per RDSO standard	Meter	33000	429.97	1,41,89,010
66	Signalling cable 19C x1.5 Sq. mm	As per RDSO standard	Meter	2409	627.44	15,11,502.96
67	Signalling cable 24C x1.5 Sq. mm	As per RDSO standard	Meter	2409	780.45	18,80,104.05
68	Power cable 2Cx25 Sq. mm	As per RDSO standard	Meter	6325	270.97	17,13,885.25

69	4Q cable	As per RDSO standard	Meter	6963	512.89	35,71,253.07
70	DWC Full 120mm for Tail Cable	As per RDSO standard	Meter	2706	189.24	5,12,083.44
71	DWC Split 120mm	As per RDSO standard	Kms.	6.6	1,89,241.45	12,48,993.57
72	Electronic Route Marker	As per RDSO standard	Nos.	55	561.25	30,868.75
73	Concrete Route Marker	As per RDSO standard	Nos.	55	1,798.87	98,937.85
74	Cable Tag	As per RDSO standard	Nos.	220	16.55	3,641.00
75	Cable Tie For Tag	As per RDSO standard	Nos.	440	11.15	4,906.00
76	Cable Tie 500mm	As per RDSO standard	Nos.	3300	11.15	36,795.00
77	Barricading Tape	As per RDSO standard	Kms.	6.6	3,453.83	22,795.28
78	Bamboo for Barricading Tape	As per RDSO standard	Nos.	132	329.55	43,500.60
79	4 Aspect Signal Material	As per RDSO standard	Nos.	9	1,33,985.59	12,05,870.31
80	Dependent Shunt Signal	As per RDSO standard	Nos.	9	4,432.42	39,891.78
81	Route Indicator 1 Way Unit	As per RDSO standard	Nos.	4	36,991.62	1,47,966.48
82	Numeric Route Indicator	As per RDSO standard	Nos.	1	1,03,664.02	1,03,664.02
83	V Type Route Indicator	As per RDSO standard	Nos.	1	11,023.49	11,023.49
84	Full Location Box	As per RDSO standard	Nos.	11	93,273.43	10,26,007.73
85	Half Location Box	As per RDSO standard	Nos.	7	71,747.58	5,02,233.06
86	Line Verification Box	As per RDSO standard	Nos.	8	4,210.45	33,683.60
87	MSDAC Installation Material	As per RDSO standard	Nos.	18	27,270.48	4,90,868.64
88	Relay QNA1K (4F-4B)	As per RDSO standard	Nos.	30	8,922.41	2,67,672.30
89	Relay QNNA1 (6F-2B)	As per RDSO standard	Nos.	1	9,354.14	9,354.14
Sub-Total for Schedule-6						2,87,06,512.37
Schedule 7: Warehousing and Logistics						
90	Warehousing and Logistics (includes Transpoprtation charges, Store Management & Establishment charges, Laobur for shifting, loading unloading charges, Hydra charges, Material insurance charges		LS	1	26,18,884.09	26,18,884.09
Sub-Total for Schedule-7						26,18,884.09
Schedule-8: Installation of Signalling outdoor items						
91	Manual Trenching 300x1200mm- Hard Soil	As RDSO / DFCCIL standard	Meter	5750	545.35	31,35,762.50
92	Laying of Signalling cable 12C x1.5 Sq. mm	As RDSO / DFCCIL standard	Meter	30000	13.70	4,11,000.00
93	Laying of Signalling cable 19C x1.5 Sq. mm	As RDSO / DFCCIL standard	Meter	2190	13.70	30,003.00
94	Laying of Signalling cable 24C x1.5 Sq. mm	As RDSO / DFCCIL standard	Meter	2190	13.70	30,003.00
95	Laying of Power cable 2Cx25 Sq. mm	As RDSO / DFCCIL standard	Meter	5750	13.70	78,775.00
96	Laying of 4Q cable	As RDSO / DFCCIL standard	Meter	6330	13.70	86,721.00
97	Laying of RCC Pipe 120mm	As RDSO / DFCCIL standard	Meter	600	13.7	8,220.00
98	Laying of DWC Full 120mm	As RDSO / DFCCIL standard	Meter	2460	13.70	33,702.00
99	Laying of DWC Split 120mm	As RDSO / DFCCIL standard	Meter	6000	13.70	82,200.00
100	Installation of Electronic Route Marker	As RDSO / DFCCIL standard	Nos.	50	85.66	4,283.00
101	Installation of Concrete Route Marker	As RDSO / DFCCIL standard	Nos.	50	548.23	27,411.50
102	Printing Of Cable Tag	As RDSO / DFCCIL standard	Nos.	200	6.85	1,370.00
103	Installation of Cable Tag	As RDSO / DFCCIL standard	Nos.	200	6.85	1,370.00
104	Installation of 20P PIJF Jointing Kit	As RDSO / DFCCIL standard	Nos.	5	1,644.68	8,223.40
105	HDD/Track Crossing	As RDSO / DFCCIL standard	Mtr.	1000	2,055.85	20,55,850.00
106	4 Aspect Signal Material	As RDSO / DFCCIL standard	Nos.	8	59,266.87	4,74,134.96
107	Dependent Shunt Signal	As RDSO / DFCCIL standard	Nos.	8	4,221.35	33,770.80

108	Route Indicator 1 Way Unit	As RDSO / DFCCIL standard	Nos.	4	10,498.56	41,994.24
109	Numeric Route Indicator	As RDSO / DFCCIL standard	Nos.	1	10,498.56	10,498.56
110	V Type Route Indicator	As RDSO / DFCCIL standard	Nos.	1	10,498.56	10,498.56
111	Full Location Box	As RDSO / DFCCIL standard	Nos.	10	53,897.66	5,38,976.60
112	Half Location Box	As RDSO / DFCCIL standard	Nos.	6	53,897.66	3,23,385.96
113	Installation of LVB/CH	As RDSO / DFCCIL standard	Nos.	7	2,741.14	19,187.98
114	MSDAC Installation Material	As RDSO / DFCCIL standard	Nos.	13	17,646.08	2,29,399.04
115	Relay QNA1K (4F-4B)	As RDSO / DFCCIL standard	Nos.	27	2,467.02	66,609.54
116	Relay QNNA1 (6F-2B)	As RDSO / DFCCIL standard	Nos.	1	2,467.02	2,467.02
117	Re-Paintig & Writing on Signalling Gears	As RDSO / DFCCIL standard	Nos.	1	2,055.85	2,055.85
118	Tools and T&M of Material		LS	1		71,767.14
119	Material & Works Security of Material		LS	1		1,43,534.28
120	Skilled Labour/Foreman		Nos.	40	1,387.70	55,508.00
121	Un-Skilled Labour		Nos.	160	1,216.38	1,94,620.80
Sub-Total for Schedule-8						82,13,303.73
Schedule-9: Design Work Cost (Payment Schedule as Per para 2.4 of section 5)						
122	Indoor work		LS	1	1,30,97,454.73	1,30,97,454.73
123	Outdoor and Telecom work		LS	1	30,71,286.19	30,71,286.19
124	EI work		LS	1	90,69,708.59	90,69,708.59
Sub-Total for Schedule-9						2,52,38,449.51
Schedule-10: Verification and Validation (V & V) Cost (Payment Schedule as Per para 2.4 of section 5)						
125	Indoor work		LS	1	1,33,25,394.23	1,33,25,394.23
126	Outdoor and Telecom work		LS	1	1,95,278.81	1,95,278.81
127	EI work		LS	1	30,89,900.72	30,89,900.72
Sub-Total for Schedule-10						1,66,10,573.76
Schedule-11: Integrated Testing and Commissioning (ITC) Cost						
128	Indoor work		LS	1	40,75,658.52	40,75,658.52
129	Outdoor and Telecom work		LS	1	90,85,624.75	90,85,624.75
130	EI work		LS	1	32,81,254.22	32,81,254.22
131	Medical Enviroment Health & Safety (M. EHS) Cost		LS	1	5,18,915.91	5,18,915.91
Sub-Total for Schedule-11						1,69,61,453.40
Schedule-12: Train Management and Diagnostic System (TMS) Software Development + Implimentation Cost (SITC), upgradation as per updated SIP, SWRD, & RCT and Integration with existing TMS system at stations and OCC.			LS	1	6,12,72,607.85	6,12,72,607.85
Sub-Total for Schedule-12						6,12,72,607.85
Total Amount (Including taxes, Transport, Labour cess & GST 18%) (in words : Seventeen Crore Fifty-Eight Lakh Twenty-Three Thousand Three Hundred Seventy Three Rupees and Eighty Paise Only)						17,58,23,373.80

Bidder (s) Please Note the following:

- The bidder shall indicate his rate in %age below/above/at par, on total estimated cost for above schedule of rates on IREPS portal.
- For Payment terms refer para 2.0 of section-5 of Technical Bid (Packet-A).
- For Schedule 10 & 11 of section 6, payment are to be made as per para 2.4 of section-5 of Technical Bid (Packet-A).

Notes:

- (i) Items with RDSO specification to be procured from RDSO approved sources and inspection of the same will be carried out by RDSO. For items procured from other than RDSO approved sources, will be inspected by consignee or third party lab or third party inspection agency.
- (ii) Payment against supply items will be released after receipt of material as per approved design and inspection by concerned agency.
- (iii) Payment against execution items will be released after completion of work and its certification by Engineer/DFCCIL Site representative.
- (iv) Payment against Design items will be released after approval of design by DFCCIL representative.
- (v) The quantities shown in above Schedules are approximate and are as a guide to give the tenderer(s) an idea of quantum of work involved. The DFCCIL reserves the right to increase/ decrease and/or delete or include any of the quantities given above as per site conditions.
- (vi) All efforts have been made to make the document/BOQ complete in all respect for successful commissioning of the works, however, if any minor item has not been specifically mentioned against the schedule item or being omitted, the same shall be executed without any extra cost by the agency, so as to ensure successful and satisfactory commissioning of the item / work to the full satisfaction of Engineer/DFCCIL. In this regard, decision of Engineer/DFCCIL shall be final & binding.