

**WDFC FIELD UNIT-AJMER-S AND T/WDFC
TENDER DOCUMENT**

Tender No: DFCC_All_SnT_CONCORPFT_1

Closing Date/Time: 20/03/2025 15:00

GM/Co./DFCCIL/AJMER acting for and on behalf of The President of India invites E-Tenders against Tender No **DFCC_All_SnT_CONCORPFT_1** Closing Date/Time 20/03/2025 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

1. NIT HEADER

Name of Work	Design, manufacture, supply, installation, testing and commissioning of Microprocessor based Electronic Interlocking (EI) system at CONCOR MMLP/PFT Siding as per RDSO Specification No. RDSO/SPN/192/2019 Version 2 with latest amendment for execution of indoor and outdoor Signalling work which includes excavation of trench, laying of cables, casting of foundations of MACLS Signals & apparatus cases, erection /installation of MACLS signals, fixing & wiring of track circuits & point machines, centralized operation of points & signals etc as per RE standard along with Indoor & outdoor system design for telecom installations including supply (part), testing & commissioning of OFC & 6-Quad cable- for Interlocking of Swarupganj CONCOR MMLP/PFT siding and commissioning of requisite interface between MMLP/PFT Siding and Existing Signal Interlocking (EI System) at DFC New Swarupganj Station & Civil construction work of additional rooms at DFCC New Swarupganj Station.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	20/03/2025 15:00	Date Time Of Uploading Tender	19/02/2025 18:55
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	79007822.02	Tendering Section	WORKS 1
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	545000.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	11800.00	Period of Completion	270 Days
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	06/03/2025		
Are JV allowed to bid	No	Number of JV Member Allowed	0
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Deposit Work

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 1-SCHEDULE OF WORKS AND RATES for S&T items							76450413.86	
	1	1.00	Station	12060441.70	12060441.70	AT Par	12060441.70	

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			Description:- Design, Manufacture & Supply of Electronic Interlocking (EI) System (with centralized arrangement) for 4 (FOUR) Line stations as per Signal Interlocking Plan in 'Hot Standby architecture'. EI system shall be provided to operate with dual VDU Control Terminal as per RDSO Specification No. RDSO/SPN/192/2019 Ver. 2 or latest and from RDSO approved source only. It mainly consist of Microprocessor Equipments, Interface Equipments, EI vendor specific Interfacing Relays, In-built event Logger, In-built Power Supply Equipments, Racks (Only Relay Rack/EI Rack), Indoor cables, Wires, Fuses, Fixtures, Mounting arrangements along with all accessories required to make complete EI system functional. Design of indoor EI system should be compatible as per outdoor interlocking requirement based on Signal Interlocking Plan & Selection Table of station /yard. This item also includes supply of following :- (a) Supply of documents/manuals for EI system as per RDSO Specn.No. RDSO/SPN/192/2019 Ver. 2 or latest. (b) Supply & provision of protective devices like surge and lightning protection devices compatible to RE standards as recommended by OEM / RDSO. Note: It includes supply of all the material which is required to make complete EI system to be functional and as recommended by RDSO in Specn.No. RDSO/SPN/192/2019 Ver. 2 or latest. Design, manufacture & Supply of EI system will be done by OEM after following all the guidelines/directives issued by RDSO from time to time. The Technical Requirements are attached with the tender document. DFCCIL will supply RDSO approved type of relays with approved contact configuration only. In case of requirement of vendor specific relays/relays with non-RDSO approved contact configuration being supplied, the same shall be supplied by the tenderer and cost of required relays shall be included in the cost of EI (Electronic Interlocking) system and number & type of such relays shall be indicated separately. Inspection: RDSO Inspection charges: Borne by DFCCIL Payment terms:100% after supply				
2	1.00	Station	624714.48	624714.48	AT Par	624714.48	
			Description:- Installation, wiring, testing and commissioning of EI System with 'Hot Standby' architecture as supplied upto 6 (six) line station. It includes transportation of material to the site, erection and grouting of EI Relay Racks, fixing and wiring of all the interfacing relays (Vital & Non-Vital), installation and wiring of Microprocessor equipments, interface equipments, power supply equipments and all other associated accessories to make complete EI system to be functional. Note: (i) Technical Requirements are attached with tender document (ii) Contractor has to arrange simulator/simulation testing panel for testing and commissioning by Selection Table and Square Sheet for each Signalling function.(iii) Installation, wiring, testing and commissioning of EI system will be done by OEM after following all the guidelines/ directives issued by RDSO from time to time. Inspection: Consignee; Inspection charges: None ; Payment terms: 100% after commissioning				
3	1.00	Lot	5353953.67	5353953.67	AT Par	5353953.67	
			Description:- Supply of the following essential spares to the extent of 10% of the quantities installed (subject to minimum 1 number) :- (i) Each type of Input/output cards (ii) Each type of vendor specific relays (iii) DC-DC converters of all voltages (iv) Switches, connectors, fuses, couplers. Inspection: RDSO Inspection charges: Borne by DFCCIL Payment terms:100% after Supply				
4	1.00	Station	86892.73	86892.73	AT Par	86892.73	
			Description:- Supply of work station notebook as per Technical Specifications. It also includes supply of Laser Printer (Only branded). The workstation should be capable of reconfiguring the system in case of any alteration in yard interlocking in future. Technical Specifications should be attached with the tender document by Tendering authority. Inspection: Consignee Inspection charges: None Payment terms: 100% after supply				
5	1.00	EI	251322.07	251322.07	AT Par	251322.07	
			Description:- After installation of EI System, Maintenance & Supervision for One year as per details given in the special conditions of contract, technical requirement and SEM. Inspection: Consignee Inspection charges: None Payment terms: 100% after execution (per quarter on account payments are permitted)				
6	1.00	Set	125748.67	125748.67	AT Par	125748.67	
			Description:- Supply of Instruments and Tool Kits required for Trouble Shooting and repair of hardware and software for EI system should be supplied for stations. (This includes tools required for EI maintenance sorts of crimping, insertion, removal, general purpose tools like screw drivers, spanners, PCB extractor, temp. controlled soldering iron, wire cutter, nose pliers etc. & measuring instruments with carrying case/ holders/ cabinet for technicians/ J.E. for testing, Maintenance and repair at site). Each set comprises of the following:- * Crimping tool for all types of special cable assembly used in EI system. * Insertion tool for all types of special cable assembly used in EI system. * Removal tool for all types of special cable assembly used in EI system. * Digital multimeter (Fluke 111 or better) * Steel cabinet/ Almira, Size: 1980mm height, 915 mm width and 485 mm depth (Godrej Make/Jalaram) of good quality to store tool, spare cards and documents. * Steel Book rack Size: 1850mm height, 900 mm width and 316 mm depth for keeping documents. (Godrej Make/Jalaram) * Clamp Earth Tester. (as per specs mentioned in tender document.) * Clamp Current Meter (fluke 362 or superior) Inspection: Consignee Inspection charges: None Payment terms: 100% after supply				
7	14.00	Man-Days	1106.23	15487.22	AT Par	15487.22	
			Description:- Training of Technician/ Jr. Engineer for installation, Commissioning, Testing, Repairs & Troubleshooting of EI system. (Hard copies of training material/ course modules to be given to each participant). Inspection: Consignee Inspection charges: None Payment terms: 100% after execution.				
8	1.00	Station	175967.35	175967.35	AT Par	175967.35	

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8									Description:- Design, preparation & supply of drawings in computer print copies and original tracing in AUTO CAD FORMAT for Electronic Interlocking at each station. After completion of the work, the completion drawings incorporating completion details are to be supplied as per Technical Specifications given in tender document (upto 6 Line). The technical specifications are as per ANNEXURE 1.13 of SOR. Inspection: Consignee Inspection charges: None Payment terms: 100% after execution.
9	9	14.00	Man-Days	1097.13	15359.82	AT Par	15359.82		Description:- Training of Officers for installation, Commissioning, Testing, Repairs & Troubleshooting of EI system. (Hard copies of training material/ course modules to be given to each participant). Inspection: Consignee Inspection charges: None Payment terms: 100% after execution.
10	10	3.00	Numbers	385774.44	1157323.32	AT Par	1157323.32		Description:- Supply of embedded fanless PC based Maintenance terminal as per RDSO spec. No. RDSO/SPN/192/ 2019 Ver. 2 or latest & RDSO TAN No. - STS/E/TAN/3007 version 1 dated:02.11.12 . The size of VDU shall be minimum 42 inch. Note: (i) Technical requirements shall be mentioned in the tender document by tendering authority. (ii) One table of suitable size along with revolving chair should be supplied with Maintenance terminal. Inspection: RDSO Inspection charges: Borne by DFCCIL Payment terms:100% after supply
11	11	3.00	Numbers	96443.61	289330.83	AT Par	289330.83		Description:- Installation, wiring, testing and commissioning of embedded fanless PC based Maintenance terminal as per RDSO spec. No. RDSO/SPN/192/2019 Ver. 2 or latest & RDSO TAN No. - STS/E/TAN/3007 version 1 dated: 02.11.12. Note: (i) Technical requirements shall be mentioned in the tender document. Inspection: Consignee Inspection charges: None Payment terms:100% after commissioning.
12	12	1.00	Numbers	20857.16	20857.16	AT Par	20857.16		Description:- Supply of offline domestic sine wave type inverter of 1000VA or above with suitable rating tubular batteries and UPS make of Su-KAM, Luminous, Microtek or other reputed brand for the backup of VDUs of EI. Inspection: Consignee Inspection charges: None Payment terms:100% after Supply
13	13	1.00	Station	3598.62	3598.62	AT Par	3598.62		Description:- Preparation of SWR literature in English along with associated mid-section interlocked gate with all corrections as per approved SWRD & approved SIP. For this all technical corrections, editing, grammatical correction etc. are to be carried out and one rough print to be given to DFCCIL for approval before printing, as required for final processing of CRS sanction. This also includes preparation of maintenance cards in format provided by DFCCIL. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.
14	14	1.00	Station	4478.18	4478.18	AT Par	4478.18		Description:- Translation of Station Working Rules from English to Hindi and framing out in DIGLOT form (or similar software) as per extant DFCCIL practice. The required SWR in English will be provided by the contractor and has been covered separately in item no. 1.21 of Chapter 1 of SOR. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.
15	15	1.00	Set	178.52	178.52	AT Par	178.52		Description:- Making photocopies & binding of the SWR literature in English/ Hindi/ Diglot form as per DFCCIL practice. Inspection: Consignee Inspection charges: None, Payment terms:100% after execution.
16	16	1.00	Set	22986.88	22986.88	AT Par	22986.88		Description:- Supply of maintainer's furniture of Godrej make or superior and each set consist of (i) executive revolving bearing series low back-floating chair with normal arms cushioned chair-01 Nos. (ii) Executive table size 1650x900x728 mm with 3 drawers one side locker- 01 no .(iii) visitor chair seat & back cushion with high density foam with plastic pvc handle capsule type painted back-03 nos. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.
17	17	1.00	Per SIP	28062.00	28062.00	AT Par	28062.00		Description:- Designing and Plotting of Signalling Interlocking Plan (SIP) in AUTOCAD. Two copies of prints with soft copy will be submitted to Railway for checking. If alterations are suggested/proposed by DFCCIL then again two copies of prints will be submitted for advance approval after carrying out all the alterations as suggested/proposed by the DFCCIL. Tracings will be submitted for all the diagrams mentioned above for the purpose of approval by Railway prior to commissioning of station. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.
18	18	37.00	Per Route	4153.92	153695.04	AT Par	153695.04		

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18	<p>Description:- Design of circuits in connection with preparation of wiring diagrams as per approved Signalling Plan and submission of indoor as well as outdoor completion documents. It includes Route Section Plan (RSP), Selection Table (ST), Locking Table (LT) and Control Panel Diagram (CPD)/VDU Diagram. Two copies of prints with soft copy will be submitted to DFCCIL for checking. If alterations are suggested/proposed by DFCCIL then again two copies of prints will be submitted for advance approval after carrying out all the alterations as suggested/proposed by the DFCCIL. Tracings will be submitted for all the diagrams mentioned above for the purpose of approval by DFCCIL prior to commissioning of station. All drawings will be prepared in CAD. The wiring diagrams will consist relay rack analysis, relay contact analysis, fuse details. Tag block analysis etc. A separate CD / Pen drive will be submitted to Railway for each station along with original tracings. It also includes preparation and supply of laminated one set of all completion plans including circuit diagrams and indoor as well as outdoor completion documents on standard 75-micron polyester film for station in Auto CAD. 6 (Six) sets xerox copies will be submitted for each of the documents mentioned below: Cable Route Plan, Cable Core Chart, Location details plan for all the locations, Cable termination details, Signalling Plan, SWR Diagram, Wiring Diagrams, Selection Table, Locking Table, Contact Analysis, Fuse and Tag Block Analysis of Relay Rack and CT Rack, Control Cum Indication Panel/VDU diagram, Power Panel Diagram, Track Circuit Plan, Rack Erection Plan and Junction Box details etc. Note: Total cost of design and completion documents for a station/yard will be calculated on basis of total possible movements/routes as per Selection Table (ST). Inspection: Consignee Inspection charges: None Payment terms:100% after execution.</p>						
19	19	500.00	Sheet	161.07	80535.00	AT Par	80535.00
	<p>Description:- Preparation and supply of laminated one set of all the completion plans including circuit diagrams and indoor as well as outdoor completion documents on standard 75-micron polyester film for station in Auto CAD. 6 (Six) sets xerox copies will also be provided for each of the documents mentioned below: Cable Route Plan, Cable Core Chart, Location details plan for all the locations, Cable termination details, Signalling Plan, SWR Diagram, Wiring Diagrams, Selection table, Locking table, Contact analysis, Fuse and Tag Block analysis of Relay Rack, CT rack, Control cum Indication Panel/VDU Diagram, Power Panel Diagram, Track circuit plan, rack erection plan and Junction Box details etc. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.</p>						
20	20	1.00	Numbers	485984.88	485984.88	AT Par	485984.88
	<p>Description:- Supply of Micro Processor based Data Logger System with 1280 digital and 32 analog inputs as per RDSO Spec. No. IRS (S) 99/2006 or latest with laser printer 22 ppm (Only branded HP/Brother/ Canon). It includes supply of all the items required for complete indoor relay room wiring from data logger to relay rack tag blocks, drawing/extension of power supply upto Data Logger. It includes relay room door lock checking arrangement, commercial power supply monitoring arrangement & monitoring of DG sets, ELD, IPS, UFSBI, BI, interlinking and networking of Data logger. It also includes supply of leased line MODEM, suitable online UPS (minimum 6 hours backup) and other interfacing cards, if required for networking of Data Logger. This also includes supply of one no. composite computer and printer table (Godrej work station table or similar) for keeping processor module and one number Godrej operator chair Model PCH7001 or similar. Note: Total numbers of relays and other signalling functions/gears required to be wired as per list circulated vide RDSO Letter No.STS/E/Data logger dtd.12.09.2011 or latest guidelines. Inspection: RDSO</p>						
21	21	1.00	Numbers	121496.22	121496.22	AT Par	121496.22
	<p>Description:- Installation, wiring, testing & commissioning of Micro Processor based Data Logger System with 1280/ 4096 digital and 32 analog inputs as per RDSO Spec. No. IRS (S) 99/2006 or latest. It cover complete indoor relay room wiring from data logger to relay rack tag blocks, drawing/extension of power supply upto Data Logger. It includes relay room door lock checking arrangement, commercial power supply monitoring arrangement & DG sets, ELD, IPS, UFSBI, BI interlinking and networking of Data logger. All material required for wiring, networking, power supply monitoring, door-locking arrangement etc will be supplied by contractor. Note: Total numbers of relays and other signalling functions/gears required to be wired as per list circulated vide RDSO Letter No.STS/E/Data logger dtd.12.09.2011 or latest guidelines. Networking of data logger includes extraction of data report from test room. For networking, required communication channel(Quad/ OFC cable) will be arranged/provided by DFCCIL in SM/ASM's room or in OFC Porta Cabin and it will be extended by contractor upto location of data logger by using CAT-5/6 telecom cable with proper casing and capping. The contractor will supply all the material like CAT-5/6 telecom cable, casing & capping, nuts, bolts etc. The final commissioning will be done after filling up of Pre- Commissioning checklist (circulated by RDSO) with the OEM representative. Inspection: Consignee, Inspection charges: None Payment terms:100% after commissioning</p>						
22	22	1.00	Numbers	363084.82	363084.82	AT Par	363084.82

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	Description:- Supply of centralized monitoring data logger networking system as per RDSO Specification No. IRS: S-99/2006 or latest for centralized acquisition of data from individual remote stations. This includes supply of Multi Front End Processor (FEP) and Dual Leased Line Modem required for data loggers networking as per technical specifications. The item also covers supply of PC based Failure Analysis System (FAS) as per technical specification. It includes supply of 27-inch LED monitor & Network Management Software (NMS), Supply of online UPS (of proper capacity with 1 hr back up,) Central Monitoring Unit (CMU) etc for online system monitoring. Technical Specifications are as per list circulated vide RDSO Letter No. STS/E/Data logger dtd.12.09.2011 or latest guidelines. Inspection: (i) RDSO (for FEP) and (ii) Consignee for Modem, FAS, NMS, CMU, Online UPS Inspection charges: (i) Borne by DFCCIL and (ii) None Payment terms:100% after supply						
23	1.00	Set	90771.00	90771.00	AT Par	90771.00	
23	Description:- Installation, testing and commissioning of centralized monitoring data logger networking system as per RDSO Specification No. IRS: S-99/2006 or latest for centralized acquisition of data from individual remote stations. This includes installation of Multi Front End Processor (FEP) and Dual Leased Line Modem required for data loggers networking as per technical specifications. The item also covers installation of PC based Failure Analysis System (FAS) as per technical specification. It includes installation of 27-inch LED monitor & Network Management Software (NMS), On Line UPS of proper capacity with 1 hr back up, Central Monitoring Unit etc for on line system monitoring. Technical Specifications are as per list circulated vide RDSO Letter No. STS/E/Data logger dtd.12.09.2011 or latest guidelines. Inspection: Consignee, Inspection charges: None Payment terms:100% after commissioning						
24	1.00	Set	39122.42	39122.42	AT Par	39122.42	
24	Description:- Supply of Failure Analysis & Fault Diagnostic software for data logger upto 4096 digital inputs at a station. Inspection: Consignee, Inspection charges: None Payment terms:100% after supply.						
25	1.00	Set	9780.60	9780.60	AT Par	9780.60	
25	Description:- Installation and commissioning of Failure Analysis & Fault Diagnostic software for data logger upto 4096 digital inputs. Inspection: Consignee, Inspection charges: None Payment terms:100% after commissioning.						
26	25.00	Numbers	3943.56	98589.00	AT Par	98589.00	
26	Description:- Q-Series Neutral Line Relay (QN1 Type), 12F/4B, 24V DC complete with plug board (base plate), connectors and retaining clips etc and conforming to BRS- 930 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be "ABCDE". Inspection authority :- RDSO Inspection charges :- Borne by DFCCIL Payment Terms:- 100% after supply.						
27	25.00	Numbers	3789.37	94734.25	AT Par	94734.25	
27	Description:- Q-Series Neutral Line Relay (QN1 Type), 8F/8B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS- 930 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be "ABCDF". Inspection authority:- RDSO Inspection charges:- Borne by DFCCIL Payment Terms:- 100% after supply.						
28	25.00	Numbers	4985.33	124633.25	AT Par	124633.25	
28	Description:- Q-Series Twin Neutral Line Relay(QNN1 Type), 6F/2B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS-960 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be "ACDEK". Inspection authority:- RDSO Inspection charges:- Borne by DFCCIL Payment Terms:- 100% after supply.						
29	25.00	Numbers	3938.00	98450.00	AT Par	98450.00	
29	Description:- Q-Series Twin Neutral Line Relay(QNN1 Type), 4F/4B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS-960 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be "ACEHJ". Inspection authority:- RDSO Inspection charges:- Borne by DFCCIL Payment Terms:- 100% after supply.						
30	10.00	Numbers	5701.45	57014.50	AT Par	57014.50	
30	Description:- Q-Series Magnetically Latched Neutral Line Relay (QL1 Type), 11F/4B,24V DC complete with plug board(base plate), connectors and retaining clips and conforming to BRS- 935A and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be "ABDEG". Inspection authority:- RDSO Inspection charges:- Borne by DFCCIL Payment Terms:- 100% after supply.						
31	10.00	Numbers	5426.82	54268.20	AT Par	54268.20	
31	Description:- Q-Series Magnetically Latched Neutral Line Relay (QL1 Type), 8F/6B, 24V DC complete with plug board (base plate), connectors and retaining clips and conforming to BRS- 935A and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be "ABCEG". Inspection authority:- RDSO Inspection charges:- Borne by DFCCIL Payment Terms:- 100% after supply.						
32	10.00	Numbers	4128.82	41288.20	AT Par	41288.20	
32	Description:- Q-Series Neutral Line Relay (Style QN1K), 1000 Ohm, 6F/6B,24V DC complete with plugboard(base plate), connectors and retaining clips etc and conforming to BRS:930 & RDSO letter no STs/E/Relays/UEA/PI dated 30.05.97 Annexure I and RDSO Specn.No.IRS:S-34 & S-23 or latest .The interlocking code for this unit shall be "BDEKX". Inspection authority:- RDSO Inspection charges:- Borne by DFCCIL Payment Terms:- 100% after supply.						

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33	33	50.00	Numbers	4983.53	249176.50	AT Par	249176.50
	Description:- Q-Series LED ECR (Universal Type i.e.QECX-61), 4F/4B complete with plug board(base plate), connectors, retaining clips etc and conforming to BRS:941A STS/E/RELAYS/AC LIT LED SIGNAL/09-2002 ,Amdt.-1and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be "ABDHK". Inspection authority:- RDSO Inspection charges:- Borne by DFCCIL Payment Terms:- 100% after supply.						
34	34	195.00	Numbers	390.37	76122.15	AT Par	76122.15
	Description:- Fixing of Q series relay base plate/metal to metal relay mini group and major group base plate, laying, bunching, lacing, dressing & packeting of 60/40 core PVC indoor cable/flexible wire and termination of 60/40 core cable/flexible wire on tag block/base plate & base plates & soldering. This includes fuse wiring, bus bar looping etc. required for keeping installation ready for circuit wiring work & panel throughing work. The work shall be done as per approved plan, extant practice on NWR& the instruction of DFCCIL Engineer at site. Inspection authority:- Consignee Inspection charges:- None Payment Terms:- 100% after commissioning.						
35	35	50.00	Numbers	4812.82	240641.00	AT Par	240641.00
	Description:- DC neutral line relay QNA1K, AC immune, DC neutral line 24V, 6F/6B contacts, complete with plug board, retaining clip and connectors. Conforming to BRS: 931A& RDSO letter no STS/E/Relays/UEA/PI dated 30.05.97Annexure II and IRS:S34 & IRS:S23 or latest. The interlocking code for this unit shall be "CDEKY". Inspection authority:- RDSO Inspection charges:- Borne by DFCCIL Payment Terms:- 100% after supply.						
36	36	10.00	Numbers	7965.00	79650.00	AT Par	79650.00
	Description:- Key Lock Relays (KLCR), 24 V DC, 2F/2B as per RDSO No. IRS:S-46, S-34 & S-23 or latest. Details of ward plates KLCR of all wards manufactured by firm except I and X preferably in equal number are required. Firm shall supply 2 nos. of ward plates extra with each relay in the metallic enclosure. Inspection authority:- For bare relay -RDSO, for key lock housing- consignee Inspection charges:-Borne by DFCCIL Payment Terms:- 100% after supply						
37	37	40.00	Numbers	7080.00	283200.00	AT Par	283200.00
	Description:- Point Contactor relay AC immune, plug in type, style QBCA1 DC biased contractor, (QBCA1 Type), 24 V DC, 2F(HD)2F-4B contacts , heavy duty metal to carbon front contacts and back contacts metal to carbon, complete with plug board, retaining clip & connectors, conforming to BRS-943 and IRS:S-34 & S-23 or latest. The interlocking code "DEHJX". Inspection authority:- RDSO Inspection charges:- Borne by DFCCIL Payment Terms:- 100% after supply.						
38	38	2.00	Kilometre	5813.26	11626.52	AT Par	11626.52
	Description:- Supply of PVC insulated multi strand, single core copper conductor of size 16/0.2 mm (0.5sqmm) as per IS 694:2010 and RDSO Specn.No.IRS:S-76/89 (Amnd-3) or latest. Each coil should be of 100/200/500 meters length. Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs;(ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply						
39	39	500.00	Metre	36.37	18185.00	AT Par	18185.00
	Description:- Supply of 1 x 6 Sq.mm (Red/Black/Green) multi strand copper power wire as per IS:694:2010 or latest, 84 conductor each dia 0.30 +/- 0.01 with insulation thickness of 0.8mm and nominal conductor resistance of 3.3 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest. Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL(ii) None Payment Terms: 100% on Supply						
40	40	500.00	Metre	57.53	28765.00	AT Par	28765.00
	Description:- Supply of 1 x 10 Sqmm (Red/Black/Green) multi strand copper power wire as per IS:694:2010 or latest, 140 conductor each dia 0.30 +/- 0.01 with insulation thickness of 1.0 mm and nominal conductor resistance of 1.91 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest.Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply						
41	41	500.00	Metre	99.45	49725.00	AT Par	49725.00
	Description:- Supply of 1 x 16 Sqmm (Red/Black/Green) multi strand copper power wire as per IS:694:2010 or latest, 127 conductor each dia 0.40 +/- 0.01 with insulation thickness of 1.0 mm and nominal conductor resistance of 1.21 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest. Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DCCIL(ii) None Payment Terms: 100% on Supply.						

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42	42	100.00	Metre	155.29	15529.00	AT Par	15529.00
	<p>Description:- Supply of 1 x 25 Sqmm (Red/Black) multi strand copper power wire as per IS:694:2010 or latest, 197 conductor each dia 0.40 +/- 0.01 with insulation thickness of 1.2 mm and nominal conductor resistance of 0.78 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest. Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply</p>						
43	43	100.00	Metre	176.93	17693.00	AT Par	17693.00
	<p>Description:- Supply of 1 x 35 Sqmm (Red/Black/Green) multi strand copper power wire as per IS:694:2010 or latest, 277 conductor each dia 0.40 +/- 0.01 with insulation thickness of 1.2 mm and nominal conductor resistance of 0.554 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest. Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs;(ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply</p>						
44	44	1.00	Station	38132.15	38132.15	AT Par	38132.15
	<p>Description:- Supply of wiring material in relay room for potential free relay contacts for digital & analog Inputs (1280 digital inputs and 32 analog inputs). It includes supply of PVC insulated indoor Railway Signalling cable (1/0.6 sqmmdia), 60-Core/40-Core/Single Core as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest, PVC insulated jumper wires multi strand, tinned in all colours as per RDSO Specn.No. IRS: S-76/89 (Amnd.3) or latest. The item also includes supply & wiring of Modular disconnect terminals /Tag Blocks as per RDSO Specn.No.IRS:S-77/2006 (Rev.1) or latest and RDSO Drg.No.SA-24751 or latest. The wiring for getting potential free contacts of relays for complete PI/RI/EL installation including points, tracks, signals, panel, power supply, IPS, SSDAC,TLBI,LC Gates, crank handle control etc will be done by contractor. All material will be supplied by contractor including all type/contact configuration relays. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs;(ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Installation & commissioning</p>						
45	45	2.00	Numbers	46394.04	92788.08	AT Par	92788.08
	<p>Description:- Supply of Powder Coated Relay Racks as per Drg.No.CSTE/ NWR/SOR/01 with scaffolding and suitable grouting arrangements. The relay racks shall be supplied & completed with scaffolding, bus bars, fuse strips, fuses (G/NDT), fuse bases, resistors, capacitors, insulators and 200-Way tag blocks with poly carbonate covers, grouting bolts, tripods etc. It includes supply of Tag Blocks as per RDSO Specn.No.IRS:S-77/2006 (Rev.1) or latest and RDSO Drg.No.SA-24751. The top of relay racks will be supported through an angle iron with one side fixed on supporting wall. Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply</p>						
46	46	2.00	Numbers	11598.51	23197.02	AT Par	23197.02
	<p>Description:- Erection of Powder Coated Relay Racks as per Drg.No.CSTE/ NWR/SOR/01 with scaffolding and suitable grouting arrangements. The relay racks shall be completed with scaffolding, bus bars, fuse strips, fuses (G/NDT), fuse bases, resistors, capacitors, insulators and 200-Way tag blocks with poly carbonate covers, grouting bolts, tripods etc. It includes fixing of Tag Blocks as per RDSO Specn.No.IRS:S-77/2006 (Rev.1) or latest and RDSO Drg.No.SA-24751. The top of relay racks will be supported through an angle iron with one side fixed on supporting wall. After installation of relay racks, one coat of paint will be done by contractor before fixing the fuses. Scaffolding should include 1 relay rack position as spare at every Station/ Level Crossing Gate for future expansion. Inspection: Consignee Inspection Charges: None Payment Terms: 100% on execution</p>						
47	47	2.00	Numbers	22732.41	45464.82	AT Par	45464.82
	<p>Description:- Supply of Cable Termination (CT) racks as per Drg.No. CSTE/NWR/ SOR/02 complete along with fitting arrangements and also with arrangement for fixing four 8-way terminal strips/ Screw less terminals/ ARA terminals on each row having 16 such rows. Supply of 8 way terminal strips, Screw less terminals, ARA terminals also included in this item. Cable termination rack shall be Powder Coated. Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply</p>						
48	48	2.00	Numbers	8687.12	17374.24	AT Par	17374.24
	<p>Description:- Installation of Cable Termination Racks Assembly complete including wall supports, scaffolding and suitable grouting arrangements with installation of 8 way/ARA terminals/Screw less connectors, Tag blocks & other necessary accessories etc. The work shall be done as per approved plan, extant practice on NWR /DFCCIL & the instruction of DFCCIL engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% on Commissioning.</p>						
49	49	4500.00	Numbers	87.41	393345.00	AT Par	393345.00

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										Description:- Supply of ARA Terminal Block (M-6) made of PBT/Poly Carbonate as per RDSO Specn.No.IRS:S-75/2006 (Rev.2) or latest and RDSO Drg.No. SA-23741A (Alt. 4) or latest. Inspection: RDSO. Inspection Charges: Borne by DFCCIL. Payment Terms: 100% on supply.
50	50	100.00	Numbers	152.98	15298.00	AT Par	15298.00			Description:- Supply of Cartridge Fuse Block made of PBT and as per RDSO Drg. No. SA-23748 (Alt. 4) or latest and RDSO Specn.No.IRS:S-75/2006 (Rev.2) or latest. Inspection: RDSO. Inspection Charges: Borne by DFCCIL. Payment Terms: 100% on supply.
51	5101	100.00	Numbers	61.11	6111.00	AT Par	6111.00			Description:- Supply of indicating type fuse inserts with holder (material will be supplied only from approved vendors of RDSO)- 0.6 A. Inspection: Consignee Inspection Charges: Borne by DFCCIL. Payment Terms: 100% on supply.
51	5102	100.00	Numbers	64.41	6441.00	AT Par	6441.00			Description:- Supply of indicating type fuse inserts with holder (material will be supplied only from approved vendors of RDSO)- 1.6 A. Inspection: Consignee Inspection Charges: Borne by DFCCIL. Payment Terms: 100% on supply.
52	5201	50.00	Numbers	20.23	1011.50	AT Par	1011.50			Description:- Supply of indicating type fuse inserts without holder (material will be supplied only from approved vendors of RDSO)- 0.6A . Inspection: Consignee Inspection Charges: Borne by DFCCIL. Payment Terms: 100% on supply
52	5202	50.00	Numbers	18.22	911.00	AT Par	911.00			Description:- Supply of indicating type fuse inserts without holder (material will be supplied only from approved vendors of RDSO)- 1.6A . Inspection: Consignee Inspection Charges: Borne by DFCCIL. Payment Terms: 100% on supply
53	53	10.00	Numbers	2221.57	22215.70	AT Par	22215.70			Description:- Supply of Tag block 200 way/160 way with PVC covers as per (IRS: S-77/2006 (Rev.1) or latest & Drg. no. SA-24751 & 52. Requirement of each type shall be specified by Engineer-in-charge. NOTE: In case ABB type relays proposed to be used with 100 way block then Two 100 way Tag Block will be consider as one 200 way Tag Block. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply
54	54	100.00	Numbers	29.59	2959.00	AT Par	2959.00			Description:- Supply D type fuse block non indicating type low voltage non detorating fuse base suitable for fuse link of capacity 2A/6A/10A as per specification IRS:S-80/92 or latest. Quantity break up of each type of fuse block will be specified by Engineer in-charge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% on supply.
55	55	100.00	Numbers	30.73	3073.00	AT Par	3073.00			Description:- Supply of D type fuse link non indicating type low voltage non detonating, capacity 2A/6A/10A as per specification IRS:S-80/92 or latest. Quantity break up of each type of fuse block will be specified by Engineer in-charge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% on supply.
56	56	20.00	Each Module	29277.62	585552.40	AT Par	585552.40			Description:- Supply of Fuse auto changeover system for used in Railway Signaling System as per RDSO/SPN/209/2012 rev.1 with latest amendments. One Automatic changeover Unit comprise 32 nos. of external Non-Deteriorating Type or 'G' type fuses from 0.6 Amp to 4 Amp capacities which are in signaling circuits. System shall have 8 cards with monitoring arrangement of 4 fuses in one card. Inspection:(i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy. Inspection charges:(i)Borne by DFCCIL (ii) None Payment Terms: 100% after supply.
57	57	20.00	Each Module	885.44	17708.80	AT Par	17708.80			Description:- Installation wiring testing and commissioning of Fuse change over system (FACS). This includes provision of common Buzzer & indication at ASM Room & ESM Duty Room and painting of fuse details. This also includes fabrication of frame for installation of FACS at Station/ LC gate where installation of relay racks not feasible. Inspection: Consignee Inspection charges: None Payment Terms: 100% on commissioning
58	58	1.00	Numbers	543448.44	543448.44	AT Par	543448.44			Description:- Supply of Auto changeover Power Panel suitable to change over between three incoming Three phase 230V supplies with signaling supply distribution arrangement, voltage sensing relays, MCB's, fuses & contactor Unit as per Drawing supplied by Engineer -in- charge NOTE:- i). Item include supply of 10 spare fuses of each type, 1 contactor relay of each type & 1 MCB of each type used in panel. ii). Program switches & wire to be supplied based on current requirement. iii).The cabinet of Auto changeover shall be powder coated & in compact in size as possible. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply

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59	59	1.00	Numbers	89744.88	89744.88	AT Par	89744.88
	<p>Description:- Supply of Auto changeover Power Panel suitable to change over between three incoming single phase 230V supplies with signaling supply distribution arrangement, voltage sensing relays, MCB's, fuses & contactor Unit as per drawing supplied by Engineer -in- charge i). Item include supply of 10 spare fuses of each type, 1 contactor relay of each type & 1 MCB of each type used in panel. ii). Program switches & wire to be supplied based on current requirement. iii).The cabinet of Auto changeover shall be powder coated & in compact in size as possible. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply</p>						
60	60	1.00	Lot	20558.64	20558.64	AT Par	20558.64
	<p>Description:- Installation of LT Power Panel/ Power distribution panel/ Auto Changeover Panel, power supply equipments such as Rectifiers Transformers, Battery chargers etc including mounting on wooden planks/Hylem Sheet and complete wiring for automatic change over arrangement, mounting of Program switches on Bakelite sheet of size 300 mm x 300 mm x 8 mm fitted to MS angle (size 25mm x 25mm x 5mm) brackets, wiring as per requirements. Necessary wires, lugs & glands to be supplied by Contractor. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution</p>						
61	61	1.00	Numbers	1355751.38	1355751.38	AT Par	1355751.38
	<p>Description:- Supply of SMPS based Integrated Power Supply System for PI in RE-Section up to 6 Line with Block Instruments (OR Block panel) and LC gates as per RDSO/SPN/165/2012 version -3 or latest and as per NWR drawing. This includes transportation to consignee depot & Commissioning of Integrated Power Supply System after duly filling pre commissioning check list by RDSO approved vendor& DFCCIL representative jointly. (Item shall be procured through Store) Inspection: RDSO Inspection Charges: Borne by DFCCIL. Payment Terms: As per Stores Purchase Order (PO) conditions.</p>						
62	62	1.00	Numbers	103449.88	103449.88	AT Par	103449.88
	<p>Description:- Installation, Wiring and testing of Integrated Power Supply System. This includes power distribution connection to bus bars and relay racks in the room with contractor's own wiring materials and fabrication and fixing of AC/DC power distribution board made on 10mm thick Phenolic hylam sheets or any standard make with connections suitable for 32 A. Wiring to be done considering site requirement, depending upon the load with suitable wires, lugs & glands as per instructions of Engineer-in-charge. The work includes installation of Thermo flasher relay, ELD's, fixing & wiring of change over switch (program switch) for selection of DG set supply (DG1 & DG2) and wiring of change over switch (program switch) for selection of mains or DG supply. This item also includes supply & fixing of ladder along the wall for carrying power supply wires/cables from IPS room to Relay room/power room etc. Any masonry work required will be carried out by contactors own material. It includes transportation of IPS from consignee depot to work site/station/ LC gate- For Station. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution</p>						
63	63	2.00	Numbers	16161.14	32322.28	AT Par	32322.28
	<p>Description:- Supply of DC to DC Converter, 110V DC/24V DC, 10 Amp as per RDSO Specn.No.S-96/2000 or latest. Inspection: RDSO Inspection Charges: Borne by DFCCIL. Payment Terms: 100% on Supply</p>						
64	64	2.00	Numbers	15327.81	30655.62	AT Par	30655.62
	<p>Description:- Supply of DC to DC Converter, 110V DC/24V DC, 5 Amp as per RDSO Specn.No.S-96/2000 or latest. Inspection: RDSO Inspection Charges: Borne by DFCCIL Payment Terms: 100% on Supply</p>						
65	65	2.00	Numbers	14563.68	29127.36	AT Par	29127.36
	<p>Description:- Supply of DC to DC Converter, 110V DC/(12 -24)V DC, 5 Amp as per RDSO Specn. No.S-96/2000 or latest. Inspection: RDSO Inspection Charges: Borne by DFCCIL Payment Terms: 100% on Supply</p>						
66	66	2.00	Numbers	30498.87	60997.74	AT Par	60997.74
	<p>Description:- Supply of DC -DC Converter, 110V DC/24V DC, 50 Amp as per RDSO Specn.No.S-96/2000 or latest. Inspection: RDSO Inspection Charges: Borne by DFCCIL Payment Terms: 100% on Supply</p>						
	67	14.00	Numbers	27586.00	386204.00	AT Par	386204.00

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67	<p>Description:- Fixing, wiring, testing and commissioning of Electrical Point Machine on the extended sleepers at points as per std. practice and as per RDSO Drg No. SA 9151-52 or 9710 or 9161 or 10800 or 11000 as per section of rails used. Item includes fixing switch extension bracket, providing insulation for switch extension bracket, fixing ground connection, adjusting opening of the switches and adjusting the point machine with crank handle. The item also includes : (i) Complete material for installation like ground-connections, switch extension brackets, point insulation material, I pipes, wiring materials, various fixing nuts & bolts including castle nuts, spring washers (ii) All smithy & fitting works required at site for complete installation. (iii) Installation of gauge tie plate & providing insulation for gauge tie plate (Insulation in William Stretcher Bar will be Provide by DFCCIL). (iv) Wiring inside the point machine, insertion and termination of tail cable in point machine and junction boxes / location box /cable hut as per extent practice on NWR and the instruction of DFCCIL Engineer at site. (v) Supply and fixing of suitable size GI pipes with flange for taking cable into point machine. Note ; The ground connections shall be suitable to the Point Machines as specified by Engineer-in-charge and shall be suitable to the point lay out i.e. 60 Kg. / 52 Kg / 90R as per yard layout. Electrical Point Machine and M-6 / Screw less terminals will be supplied by DFCCIL / covered in Schedule separately (RDSO Spec.No IRS:S-24/2002 (Amendment-1 Drg.NO RDSO/S 110000) and for Motor IRS:S 37/82(Amendment-3) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.</p>					
68	14.00	Set	1290.61	18068.54	AT Par	18068.54
68	<p>Description:- Point insulation Complete set as per RDSO/SPN/168/2005 for 1.Switch bracket 'D' bracket insulation for IRS point machine - One set comprises of (a)Side plate LH to Drg.No.S-3266 - 1 No. (b) Side plate RH to Drg.No.S-3265 - 1 No. (c)Insulating bush to Drg.No.S-3199 - 4 Nos. (d) Insulating washer to Drg.No.S-8640 - 4 Nos., 2. Split-Stretcher bar 2.1 Insulation for Leading stretcher bars(BG) each set comprising of (a) Insulating plate for leading insulated stretcher bars BG as per RDSO Drg.No.T-10384 - 2 Nos. (b) Insulating bushing for leading insulated stretcher bars for BG as per RDSO Drg.No.T-10535- 4 Nos. (c) Insulating Washer for insulated stretcher bar BG as per RDSO drg.No.T-10371 - 6 Nos. 2.2 Insulation for following stretcher bars BG. Each set comprising of: (a) Insulating side plate for insulated stretcher bars BG as per RDSO Drg.No.T-10367 - 3 No. (b) Insulating bushing for insulated stretcher bars BG as per RDSO Drg.No..T-10368 - 6 Nos. (c)Insulating washer for insulated stretcher bars BG as per RDSO Drg.No.T10371 - 12 Nos& 3. Gauge tie plates (52 Kg/60Kg as per site requirement) Insulation for (BG) complete with insulating bush and washer each set comprising of: (a) Insulating plate for insulated tie plate BG as per RDSO Drg.No.T-10372-1 No. (b) Insulating bushing for insulated stretcher bar BG as per RDSO Drg.No.T10368 - 3 Nos. (c) Insulating Washer for insulated stretcher bar BG to IRS 40/84 as per RDSO drg.No.T-10371 - 6 Nos. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in works less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply</p>					
69	14.00	Numbers	1156.31	16188.34	AT Par	16188.34
69	<p>Description:- Gauge Tie plate insulation as per RDSO/SPN/168/2005 as per RDSO drg No: T-10372Alt2, T- 10368, T- 10371Alt2, T-15083/88/Alt2 & T-11690/Alt2 and as per RDSO/SPN/168/2005 with latest amendments as applicable. Gauge tie plates (52 Kg/60Kg as per site requirement) Insulation for (BG) complete with insulating bush and washer each set comprising of: (a) Insulating plate for insulated tie plate BG as per RDSO Drg.No.T-10372-1 No. (b) Insulating bushing for insulated stretcher bar BG as per RDSO Drg.No.T10368 - 3 Nos. (c) Insulating Washer for insulated stretcher bar BG to IRS 40/84 as perRDSO drg.No.T-10371 - 6 Nos. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment T69erms: 100% on Supply</p>					
70	17.00	Set	6829.74	116105.58	AT Par	116105.58
70	<p>Description:- Ground connections, complete set suitable for IRS type / approved point Machine for ordinary turnout with tongue attachment insulation and other insulation as per RDSO Drg. S/3361@47>47@63 (for IRS type point machine) or RDSO Drg No.SA-9151/52 (for Siemens point machine) with latest amendments. However the ground connection shall be procured only after confirmation from Railway engineer as per site condition /type of machine/turnout. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply</p>					
71	4.00	Set	5847.56	23390.24	AT Par	23390.24
71	<p>Description:- Ground connections, complete set suitable for IRS type/approved point Machine for derail switch with tongue attachment insulation as per RDSO Drg. S/3361@47>47?40@for IRS type point machine) or RDSO Drg No. SA 9151/52 (for Siemens point machine) with latest amendments. However the ground connection shall be procured only after Confirmation from Railway engineer as per latest site condition /type of machine/turnout. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply</p>					
72	16.00	Numbers	72450.00	1159200.00	AT Par	1159200.00

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72	<p>Description:- Supply of ELECTRIC POINT MACHINE 143 MM STROKE, AC IMMUNITY 400 VOLT AC, COMPLETE WITH LOCK DETECTOR AND SLIDES, NON - TRAILABLE TO OPERATE ON 110 V DC ROTARY LOCKING WITH CRANK HANDLE UNIVERSAL TYPE AS PER RDSO SPECIFICATION NO. IRS : S- 24/2002 AMENDMENT - 1 OR LATEST AS PER DRAWING.NO. RDSO/S-10800(ALT5.) WITH JUNCTION BOX TELESCOPIC. THE MOTOR WILL BE AS PER RDSO SPECN. NO. S-37/82 (AMND.3) WITH RDSO DRG NO. S-10910. This includes supply of Set of tools as per para20.1 & 20.2 of RDSO SPECN. NO. IRS:S-24/2002 (AMND 1) or latest 20.1 The following set of tools in a suitable tool box shall be supplied along with every set of eight point machines or less. i). Hand operated square drive socket wrenches of 12.5 mm driving square (short type) as per IS: 7381 for M8, M10, M12 & M18 threads. (One 250 mm long 12.5 mm square extension bar as per IS: 7991 Along with compatible Tee handle Square drive as per IS: 7975 suitable for above socket wrenches shall also be provided.) ii). Open jaw wrenches (spanners) for M10, M12, M20, M24 & M33 threads as per IS: 2028. iii). Adjustable wrench. iv). Screw driver 300 mm long. 20.2 Junction box and two numbers of telescopic pipes of approved type shall be supplied as an integral part of the point machine. Inspection: RDSO Inspection Charges: Borne by DFCCIL Payment Terms: 100% after Supply.</p>						
73	73	16.00	Set	386.13	6178.08	AT Par	6178.08
73	<p>Description:- Supply of William Stretcher Insulation Set (complete) as per RDSO/SPN/168/2005 with insulating bush and washer to suit point layout and conforming to RDSO Drg.No.T- 10372 or latest, T-10368 or latest and T-10371 or latest. 1.1 Insulation for Leading stretcher bars (BG) each set comprising of (a) Insulating plate for leading insulated stretcher bars BG as per RDSO Drg.No.T-10384 - 2 Nos. (b) Insulating bushing for leading insulated stretcher bars for BG as per RDSO Drg.No.T-10535- 4 Nos. (c) Insulating Washer for insulated stretcher bar BG as per RDSO drg.No.T-10371 - 6 Nos. 1.2 Insulation for following stretcher bars BG. Each set comprising of: (a) Insulating side plate for insulated stretcher bars BG as per RDSO Drg.No.T-10367 - 3 No. (b) Insulating bushing for insulated stretcher bars BG as per RDSO Drg.No..T-10368 - 6 Nos. (c)Insulating washer for insulated stretcher bars BG as per RDSO Drg.No.T10371 - 12 Nos Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply</p>						
74	74	1.00	Set	7887750.00	7887750.00	AT Par	7887750.00
74	<p>Description:- Supply of High frequency Digital Axle Counter Multi section type complete system including central evaluator (s), final track clearance relay for each track section, Reset boxes, LV boxes, detection points, mushroom housing for track side electronic and all other accessories fully wired to the ultimate capacity and fully equipped for 24 Detection Points and 14 Track Sections as per RDSO'S specification No. RDSO /SPN / 176/2013 (ver. 3) or latest and OEM specification. Inspection: RDSO Inspection Charges: Borne by DFCCIL Payment Terms: 100% after Supply</p>						
75	75	1.00	Numbers	15355.25	15355.25	AT Par	15355.25
75	<p>Description:- Installation and commissioning of Central Evaluator of axle Counter, wiring from CT rack to Central Evaluator, installation and wiring of the reset box, LV box (if required) and associated power supply wiring. This includes supply of shielded cable of required conductor size for wiring between CT rack to evaluator rack, all other wires, power supply cable and wiring materials. The power supply cable from power room to Central Evaluator should not be less than 10 sq.mm PVC wire. Earthing as per OEM's guidelines & specification with their own material. This also includes painting and writing work on evaluator as per site requirement. NOTE: Installation/ programming/ configuration/ commissioning of Axle counter equipment to be carried out in accordance with latest guidelines issued by DFCCIL/ RDSO preferably by Authorised representative of OEM. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.</p>						
76	7601	1.00	Set	104325.07	104325.07	AT Par	104325.07
76	<p>Description:- Supply of Tools Kit for High frequency Digital Axle Counter Multi section- Supply of Service test panel including meter for test of track equipment, tools for mounting and adjustment of track equipment and standard jig for drilling holes in rail. It should be as per Principal manufacturers (OEM) recommended list adequate for installation, day to day maintenance, and adjustment of indoor and outdoor gears. This shall also include kit for making and drilling of holes on rail. Detail Specification of tools kit are provided in tender document. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.</p>						
76	7602	1.00	Set	88247.14	88247.14	AT Par	88247.14
76	<p>Description:- Supply of Tools Kit for High frequency Digital Axle Counter Multi section- Supply of Portable operator console for onsite programming of Axle Counters as per technical requirement given in tender document. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply</p>						
77	7701	2.00	Numbers	202106.07	404212.14	AT Par	404212.14
77	<p>Description:- Supply of spares for High frequency Digital Axle Counter Multi section-Supply of Control card for evaluators of Multi Section DAC along with power supply card or Equivalent. Inspection: (i) RDSO if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply</p>						
	7702	2.00	Numbers	70814.86	141629.72	AT Par	141629.72

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77	Description:- Supply of spares for High frequency Digital Axle Counter Multi section- Supply of Input / Output card for Evaluators for "detection Point" or Equivalent. Inspection: (i) RDSO if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply						
77	7703	2.00	Numbers	70814.86	141629.72	AT Par	141629.72
77	Description:- Supply of spares for High frequency Digital Axle Counter Multi section- Supply of Input / Output card for Evaluators for relay driver and final track clearance relay or Equivalent. Inspection: (i) RDSO if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply						
77	7704	2.00	Set	261222.40	522444.80	AT Par	522444.80
77	Description:- Supply of spares for High frequency Digital Axle Counter Multi section- Supply of Double Rail contact assembly with track side EJB for MSDAC. Each set shall consist of track side Electronic unit, Double rail contact with cable and mounting accessories. Inspection: (i) RDSO if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply						
78	7801	12.00	Numbers	8484.20	101810.40	AT Par	101810.40
78	Description:- Supply of LED signal lamps for Main colour light Signal, 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Specn. No.RDSO/SPN/199/2010(Rev1.1) or latest.- RED Aspect Inspection: RDSO Inspection Charges: Borne by DFCCIL. Payment Terms: 100% after Supply						
78	7802	12.00	Numbers	8488.13	101857.56	AT Par	101857.56
78	Description:- Supply of LED signal lamps for Main colour light Signal, 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Specn. No.RDSO/SPN/199/2010 (Rev1.1) or latest.(items to be procured through Stores) - YELLOW Aspect Inspection: RDSO Inspection Charges: Borne by DFCCIL. Payment Terms: 100% after Supply.						
78	7803	2.00	Numbers	9552.10	19104.20	AT Par	19104.20
78	Description:- Supply of LED signal lamps for Main colour light Signal, 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Specn. No.RDSO/SPN/199/2010 (Rev1.1) or latest.(items to be procured through Stores)- GREEN Aspect Inspection: RDSO Inspection Charges: Borne by DFCCIL. Payment Terms: 100% after Supply.						
79	7901	13.00	Numbers	5860.67	76188.71	AT Par	76188.71
79	Description:- Supply of various LED signals (Subsidiary Signal), 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Specn.No.RDSO/SPN/153/2011 (Rev.4.1) or latest- LED for Route Aspect Inspection: RDSO Inspection Charges:Borne by DFCCIL. Payment Terms: 100% after Supply.						
79	7902	65.00	Numbers	5821.33	378386.45	AT Par	378386.45
79	Description:- Supply of various LED signals (Subsidiary Signal), 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Specn.No.RDSO/SPN/153/2011 (Rev.4.1) or latest.(items to be procured through stores)- LED for Shunt Signal Aspect Inspection: RDSO Inspection Charges:Borne by DFCCIL. Payment Terms: 100% after Supply.						
79	7903	2.00	Numbers	7021.00	14042.00	AT Par	14042.00
79	Description:- Supply of various LED signals (Subsidiary Signal), 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Specn.No.RDSO/SPN/153/2011 (Rev.4.1) or latest.(items to be procured through stores)- LED for Calling ON Signal Aspect Inspection: RDSO Inspection Charges:Borne by DFCCIL. Payment Terms: 100% after Supply.						
80	80	96.00	Numbers	178.89	17173.44	AT Par	17173.44
80	Description:- Installation of LED signals lamps for auxiliary/ subsidiary signals/ main signals (i.e. route, shunt, calling on, Red , Yellow, Green) as per instructions given by engineer incharge. The contractor will supply all materials required for installation. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.						
	81	9.00	Numbers	10791.46	97123.14	AT Par	97123.14

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81	<p>Description:- Supply of Colour Light Signal Complete. This includes: -(1). Post Tubular 140 mm Dia, as per IRS: S-6/81 or Latest & RDSO Drg. No. SA-24625 (Advance). (2). CI Base (As per IRS S-10 & RDSO Drg. No. 2011/M with latest assembly). (3). Number plate to Drawing No. S 23149 Alt.1 =1 No , Number plate clamps to Drawing No. S 23148 Alt.1 =2 no (4). Ladder Assembly, as per RDSO Drg. No. SA-23156, with Base, Ladder Guard rail (complete) to Drawing No. SA 23138 Alt.1(1No), Platform to Drawing No. SA 23134 Alt.1(1 No), Front Maintenance Platform, MS Supporting bracket to Support Ladder.Ladder stay (small) to Drawing No. S 23159 Alt. 1 (2 Nos.) , Ladder stay (large) to Drawing No. S 23160 Alt. 1 (2 Nos.) , Ladder section to Drawing No. SA 23157 Alt. 1(1 Nos.)Stay clamp to Drawing No. SA 2062/M (2 no), Rail Clamp to Drawing No. S 2066/M (1 No.) (5). Signal Front Staging Complete Assembly for CLS Unit. (6). Signal back staging as per extent NWR Practice. Note: Note: Height of the Post shall be 5.5 Long. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply</p>						
	82	3.00	Numbers	4462.49	13387.47	AT Par	13387.47
82	<p>Description:- Supply of Offset brackets for Main Signal, made of tubular steel, outer diameter 140 mm, thickness of pipe 4.5 mm. horizontal length of pipe 545 mm & vertical length of pipe 324 mm with fixing arrangement on Main Signal post as per Drawing No SW/554/G/R Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply</p>						
	83	10.00	Numbers	4336.16	43361.60	AT Par	43361.60
83	<p>Description:- Supply of Offset brackets for Shunt Signal, made of tubular steel, outer diameter 89 mm, thickness of pipe 4.5 mm. horizontal length of pipe 324 mm & vertical length of pipe 324 mm with fixing arrangement on Shunt Signal post as per Drawing No SW/354/I Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply</p>						
	8401	2.00	Numbers	3227.65	6455.30	AT Par	6455.30
84	<p>Description:- Installation of LHS interface module as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest- 2/3/4 aspect signal unit mounted on offset bracket with junction type route indicator 1/2/3/4/5/6 or multilamp route indicators/ Stencil type rout indicator mounted on signal post. Inspection: Consignee, Inspection Charges: None Payment Terms: 100% after execution.</p>						
	8402	6.00	Numbers	2187.43	13124.58	AT Par	13124.58
84	<p>Description:- Installation of LHS interface module as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest-2/3/4 aspect signal unit mounted mounted directly on signal post Inspection: Consignee, Inspection Charges: None Payment Terms: 100% after execution</p>						
	85	13.00	Set	4297.47	55867.11	AT Par	55867.11
85	<p>Description:- Supply of Position Light Shunt Signal Unit Complete with Post(made of GI Pipe of 80 mm Diameter Medium Class IS Spec. No. IS: 1239 Pt. 1/1990, Base, Hood, Cover etc as per Drg. No. SA-23840 suitable for LED Signal Lighting Unit.(Supply of LED Unit is not covered in this item) Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply</p>						
	86	13.00	Numbers	1779.99	23139.87	AT Par	23139.87
86	<p>Description:- Erection of Position Light Shunt signal with Base, Post, Signal unit and fixing of Number Plates. The work shall be done as per instructions of DFCCIL engineer at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.</p>						
	87	9.00	Numbers	3358.53	30226.77	AT Par	30226.77
87	<p>Description:- Supply of Position Light Shunt Signal Unit Complete, with offset bracket, hood, Cover etc as per Drg. No. SA-23840 suitable for LED Signal Lighting Unit.(Supply of LED Unit is not covered in this item)Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply</p>						
	88	9.00	Numbers	1967.77	17709.93	AT Par	17709.93
88	<p>Description:- Erection of Position Light shunt signal on Offset bracket on main signal. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.</p>						
	89	2.00	Numbers	19835.94	39671.88	AT Par	39671.88
89	<p>Description:- Supply of Junction route indicator unit 1 way (Without Lenses & Holder) as per Drg. No. RDSO SA 23401 suitable for LED Signal Lighting Unit & as IRS:S-66/84 amndt-1 or latest.(Supply of LED Unit is not covered in this item) Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply.</p>						

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90	90	2.00	Numbers	590.67	1181.34	AT Par	1181.34
	Description:- Fixing of Junction type Route Indication 1-Way/2-Way/3-Way/4-Way/5-Way/6-Way on the top of the signal post. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.						
91	91	4.00	Numbers	5087.65	20350.60	AT Par	20350.60
	Description:- Supply and fixing of protective screen of expanded metal 12 SWG of size 1200 x 1500 mm on signals as per std. practice in RE Area. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
92	92	9.00	Numbers	9361.50	84253.50	AT Par	84253.50
	Description:- Casting of CC Foundation for Signal Post in the ratio of 1:3:6 as per Drg.No.CSTE/NWR/SOR/21/A using standard size of foundation/galvanized holding down bolts required for erection of colour light signal post. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement-sand mixture (aggregate will not exceed 3.8 cm). Aggregate, cement, sand and holding down bolts will be supplied by contractor. Any machines & tools, if required for execution of this item, will be arranged/provided by contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
93	93	13.00	Numbers	6310.26	82033.38	AT Par	82033.38
	Description:- Casting of C.C. Foundation for Position Light Shunt Signal/ Indicator/SPI as per Drg.No.CSTE/NWR/SOR/ 22 in ratio 1:3:6 by using standard size of galvanized holding down/foundation bolts. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement sand mixture. Aggregate cement, sand and holding down bolts, will be supplied by contractor. Any machines and tools, if required for execution of this item, will be arranged/provided by contractor. Note: As per available site conditions, if sizes of foundations are required to be decreased/ increased and same has been approved/agreed by engineer incharge then variation in CC work will be calculated on volumetric basis as per rates of these items. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation						
94	94	1.00	Set	115235.80	115235.80	AT Par	115235.80
	Description:- Supply of Air Sampling Type detector shall use LASER type. This type of detector shall use piping or tubing distribution network that shall run from the detector to the area as to be protected. It should be supplied with required module & Power supply unit complete as a system with all accessories like pipes, Sampling points etc as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by DFCCIL Payment Terms: 100% after Supply.						
95	95	1.00	Set	28808.95	28808.95	AT Par	28808.95
	Description:- Installation, Testing and Commissioning of Air Sampling Type detector (it shall use LASER type) as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning						
96	96	1.00	Numbers	6435.92	6435.92	AT Par	6435.92
	Description:- Supply of intelligent Addressable Loop Powered Sounder cum beacon with base inbuilt fault isolator with protection category of IP42 and duly approved as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by DFCCIL Payment Terms: 100% after Supply.						
97	97	1.00	Numbers	1608.98	1608.98	AT Par	1608.98
	Description:- Installation, testing and commissioning of intelligent Addressable Loop Powered Sounder cum beacon with base inbuilt fault isolator with protection category of IP42 and duly approved as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges:None Payment Terms: 100% after commissioning.						
98	98	1.00	Lot	27324.36	27324.36	AT Par	27324.36
	Description:- Supply of FRLS unarmoured/armoured cable(2Cx1.5 sq.mm) with all accessories for connection of all Fire Alarm devices as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by DFCCIL Payment Terms: 100% after Supply						
99	99	1.00	Lot	6831.09	6831.09	AT Par	6831.09
	Description:- Installation ,Testing and Commissioning of FRLS unarmoured/armoured cable(2Cx1.5 sq.mm) with all accessories for connection of all Fire Alarm devices as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning.						
100	100	6.00	Numbers	5301.70	31810.20	AT Par	31810.20
	Description:- Supply of CO2 type fire extinguisher capacity 4.5 Kg capacity ISI Mark IS: 15683 operating temperature (-30) ° to (50) ° for class 13 B type of fire with 1 mtr. Hose pipe fitted with PVC bend horn complete in all respect. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by DFCCIL (ii) None Payment Terms: 100% after Supply.						
	101	30.00	Numbers	14945.53	448365.90	AT Par	448365.90

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101	<p>Description:- Supply of Apparatus Case Single(Large) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11500. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by DFCCIL (ii) None Payment Terms: 100% after Supply.</p>						
102	102	30.00	Numbers	1039.09	31172.70	AT Par	31172.70
102	<p>Description:- Installation of Apparatus Cases Single(Large) with 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. Supply of 'E' Type lock has been covered in supply of Apparatus case separately. It covers fixing of lamp holder , switch and lamp etc. in Apparatus Case. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.</p>						
103	103	15.00	Numbers	9439.40	141591.00	AT Par	141591.00
103	<p>Description:- Supply of Apparatus Case half (Medium) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11507. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by DFCCIL (ii) None Payment Terms: 100% after Supply.</p>						
104	104	15.00	Numbers	632.78	9491.70	AT Par	9491.70
104	<p>Description:- Installation of Apparatus Cases Half (Medium) with 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. Supply of 'E' Type lock has been covered in supply of Apparatus case separately. It covers fixing of Location lamp holder , switch and lamp etc. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.</p>						
105	10501	30.00	Numbers	6888.92	206667.60	AT Par	206667.60
105	<p>Description:- Excavation and Casting of Apparatus Case foundation in ratio 1:3:6 with contractor's own materials including cement and galvanized anchor bolts of standard size. The required scaffolding Ferma etc for Casting of foundation will have to be brought by the contractor at his own cost.The item also includes additional masonry work as well as earthwork if required on bank where there will be possibilities of foundation sinked, fallen or tilted-Single (Large) Case Apparatus case/SS location box as per Drg No. CSTE/5074. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.</p>						
105	10502	15.00	Numbers	5259.16	78887.40	AT Par	78887.40
105	<p>Description:- Excavation and Casting of Apparatus Case foundation in ratio 1:3:6 with contractor's own materials including cement and galvanized anchor bolts of standard size. The required scaffolding Ferma etc for Casting of foundation will have to be brought by the contractor at his own cost.The item also includes additional masonry work as well as earthwork if required on bank where there will be possibilities of foundation sinked, fallen or tilted-Half (Medium) Case Apparatus case/ SS location box as per DrgNo CSTE/5074 Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation</p>						
106	106	150.00	Numbers	9563.45	1434517.50	AT Par	1434517.50
106	<p>Description:- Supply of Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 20 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee Inspection Charges:(i) Borne by DFCCIL (ii) None Payment Terms: 100% after Supply.</p>						
107	107	60.00	Numbers	4855.13	291307.80	AT Par	291307.80
107	<p>Description:- Supply of Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 12 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee Inspection Charges:(i) Borne by DFCCIL (ii) None Payment Terms: 100% after Supply.</p>						
108	10801	30.00	Numbers	2344.49	70334.70	AT Par	70334.70
108	<p>Description:- Fabrication and fixing of phenolic laminated sheet of size 10/12/20 mm thick in location box by providing all fixtures as per DFCCIL Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per instructions of DFCCIL engineer at site- Single Case (Large Case). Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.</p>						
108	10802	15.00	Numbers	684.00	10260.00	AT Par	10260.00

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			Description:- Fabrication and fixing of phenolic laminated sheet of size 10/12/20 mm thick in location box by providing all fixtures as per DFCCIL Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per instructions of DFCCIL engineer at site-Half Case (Medium Case). Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.				
109	109	4500.00	Numbers	12.52	56340.00	AT Par	56340.00
	Description:- Fixing of ARA(M-6) Terminals /Screw less connectors / modular disconnect terminal blocks and fuse blocks on phenolic laminated sheets and fixing by stainless steel/brass nuts & bolts. This includes provision of two additional holes on the board on either side for cable conductor entry. (Supply of all above terminals have been covered under separately in Chapter 4 of SOR of NWR) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.						
110	110	50.00	Numbers	59.18	2959.00	AT Par	2959.00
	Description:- Supply of Round head type non deteriorating type low voltage cartridge fuse as per Spec No IRS/S/78/92 with latest amendments 2A/4A/6A capacity. Inspection: RDSO Inspection Charges: Borne by DFCCIL Payment Terms: 100% after supply.						
111	111	50.00	Numbers	63.73	3186.50	AT Par	3186.50
	Description:- Supply of HRC fuses block complete with 2A fuse link as per IS 9224/79 Inspection: RDSO Inspection Charges: Borne by DFCCIL Payment Terms: 100% after supply.						
112	11201	30.00	Numbers	3506.49	105194.70	AT Par	105194.70
	Description:- Supply of Rapid Joint LS3, suitable for cablejonting of Signalling cable of various size, having dielectric strength > 20KV/mm, Non Toxic, low viscosity, Flamability point > 200 degree C, Re-entrable, Long storage life Make RAYTECH or Similar-Cable Size 6C x 1.5 Sq. mm.. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
112	11202	20.00	Numbers	4879.03	97580.60	AT Par	97580.60
	Description:- Supply of Rapid Joint LS3, suitable for cablejonting of Signalling cable of various size, having dielectric strength > 20KV/mm, Non Toxic, low viscosity, Flamability point > 200 degree C, Re-entrable, Long storage life Make RAYTECH or Similar- Cable Size 12C x 1.5 Sq. mm. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply						
112	11203	10.00	Numbers	12560.07	125600.70	AT Par	125600.70
	Description:- Supply of Rapid Joint LS3, suitable for cablejonting of Signalling cable of various size, having dielectric strength > 20KV/mm, Non Toxic, low viscosity, Flamability point > 200 degree C, Re-entrable, Long storage life Make RAYTECH or Similar- Cable Size 30C x 1.5 Sq. mm. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
113	113	10.00	Numbers	5201.12	52011.20	AT Par	52011.20
	Description:- Tools for installation of Rapid Cable Joint kit.						
114	114	300.00	Metre	760.66	228198.00	AT Par	228198.00
	Description:- Supply of Medium class GI pipes 100 mm dia(4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg.No.CSTE/NWR/SOR/06 to 12 or at any other locations as decided by Site Engineer. It includes supply of all material required for fixing arrangement. Contractor will also supplyflexible/corrugated HDPE pipe at the end of GI pipe to protect the cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
115	115	300.00	Metre	190.17	57051.00	AT Par	57051.00
	Description:- Fixing of Medium class GI pipes 100 mm dia(4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg.No.CSTE/NWR/SOR/06 to 12 or at any other locations as decided by Site Engineer. It includes installation of all material required for fixing arrangement. Contractor will install flexible/ corrugated HDPE pipe at the end of GI pipe along with any masonry work(if required) to protect the cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
116	116	400.00	Metre	390.52	156208.00	AT Par	156208.00
	Description:- Supply of Medium class GI pipes 50 mm dia(3.6 mm thickness) as per IS 1239 (Part 1) : 2004 for use in ASM room and at any other location as decided by Site Engineer. It includes supply of all material required for fixing arrangement. At the ends of GI pipe, flexible/corrugated HDPE pipe will be provided by contractor to protect cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
117	117	400.00	Metre	97.63	39052.00	AT Par	39052.00
	Description:- Fixing of Medium class GI pipes 50 mm dia(3.6 mm thickness) as per IS 1239 (Part 1) : 2004 for use in ASM room and at any other location as decided by Site Engineer. It includes installtion of all material required for fixing arrangement. At the ends of GI pipe, flexible/corrugated HDPE pipe along with any masonrywork(if required) will be provided by contractor to protect cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Installation.						
	118	1500.00	Metre	383.47	575205.00	AT Par	575205.00

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118	<p>Description:- Supply of Double Wall Corrugated (DWC)-HDPE pipe/duct of size 200 mm outer dia, & 175 mm inner dia. It includes supply of Double Wall Corrugated -HDPE pipe/duct as per RDSO Specn.No. RDSO/SPN/ 204/2011 (version 1.1) or latest and conforming to ISI Spec. No.IS:14930, Part-II. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber O-Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vendor name and year of manufacture can be easily identified. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by DFCCIL (ii) NonePayment Terms: 100% after Supply</p>						
119	119	500.00	Metre	1798.20	899100.00	AT Par	899100.00
119	<p>Description:- Supply of Double Walled Corrugated (DWC) HDPE Pipe/duct with associated collars etc. as per RDSO Specification No. RDSO/SPN/204/2011 or latest anti-rodent & anti-oxidant and non flame propagating type in 6 meters straight length and of size 120 mm outer dia,& 103.5 mm inner dia. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber O-Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap (The total quantity of above items is equal to no. of pipes supplied.) DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vendor name and year of manufacture can be easily identified. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% after Supply</p>						
120	120	4500.00	RMT	29.59	133155.00	AT Par	133155.00
120	<p>Description:- Placing of DWC HDPE/RCC/GI pipes along with collars in trenches at places near track and road, crossings, platform cuttings etc. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution</p>						
121	121	10.00	Numbers	1157.45	11574.50	AT Par	11574.50
121	<p>Description:- Jointing of 4 / 6 quad /Signaling cable with Heat Shrinkable straight through Jointing Kit. All the material required for the work are to be arranged by contractor himself at his own cost except Thermo shrinkable Joint Kit/Rapid Joint kit. After jointing the cable through test such as insulation test, continuity cable losses etc. to be carried out jointly with Railway Engineer. If any defect or any damage is observed during jointing, the contractor has to redo the joint free of cost. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution</p>						
122	122	300.00	Metre	1202.97	360891.00	AT Par	360891.00
122	<p>Description:- Horizontal direction drilling/ boring without damage of surface road / track using Auger Machine (HDD machine). The bore shall be upto 200 mm dia & shall be done at the depth of minimum 1200 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road. The length of the bore shall be minimum 4 Mtrs long. This include insertion of different dia DWC-HDPE pipe/ GI pipes coupling etc. as per direction of Engineer In charge. Note:- Pipe Supply is not covered under this item. Contactor shall provide all material required for boring and adequate nos. of labours for proper laying of cables into the bore. Cable shall be laid cautiously so that it should not get damage due to rough handling & pressure on cable. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.</p>						
123	123	100.00	Numbers	328.68	32868.00	AT Par	32868.00
123	<p>Description:- Supply of RCC cable route marker engraved and painted on both side along the route at every 50 meter and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply</p>						
124	124	1800.00	cum	274.28	493704.00	AT Par	493704.00
124	<p>Description:- Excavation of cable trench as per cable route plan, 1.2 Mtr. deep and of 0.3 Mtr. to 0.6 Mtr. wide at bottom as per RDSO sketch No. RSDO/CABLE LAYING/003 or latest alongside the track in normal (all type) soil/strata, conforming to distances as per cable route plan and refilling. This work includes clearing of route from bushes etc, covering of cable laid in trench by loose soil for a layer of 50mm thickness approximately before covering by bricks. The work shall be done as per the extant practice on North Western Railway and instructions of DFCCIL Engineer at site. In case 1.2m depth of trench is not achievable due to site conditions, specific approval of JA grade officer will be required for each site where trench depth of 1.2m is not possible. Without the approval of JA Grade officer, no payment for trenching will be made for trench depth less than 1.2m. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution</p>						
125	125	300.00	cum	274.28	82284.00	AT Par	82284.00
125	<p>Description:- Digging of trench 1.2 Mtrs. deep from rail flange/ road level and 0.3 Mtrs to 0.6 Mtrs wide and back filling after placing of DWC/ RCC/GI pipe. (Placing of DWC/RCC/GI pipe covered separately).The ballast disturbed be screened and dressed as required by Engineer-in-charge or his representatives and road tarred immediately. For track crossing, Drg. No.CSTE/3644 Pg.7 of 11 and for Road Crossing, Drg. No. CSTE/3644 Pg. 5 of 11 are to be followed.Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution</p>						

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126	126	1.00	Numbers	12506.58	12506.58	AT Par	12506.58
	Description:- Digging of cable pit (min 2x2x1m) as per instruction of Site Engineer, supplying and filling of sand before and after coiling the cables, covering top of the cable pit with stones and providing brick masonry on all four sides of the cable pit and plastering thereafter. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
127	127	60000.00	RMT	9.10	546000.00	AT Par	546000.00
	Description:- Laying of S&T Cables of various cores/ pairs/ quads in trenches/ GI pipes/ RCC pipes/ DWC pipes/ Trunking. This also includes laying of cables in track crossings & road crossings. Item includes provision of labels of coloured plastic adhesive tapes or any other identifiable material on each cable to give the cable number at each Gantry Post/hectometerpost.(Cables will be meggered before and after its laying by contractor under supervision of Railway Representative and he will submit the meggering report of each testing). Length of the cable laid includes the length of the cable coiled for termination purposes. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
128	128	1.00	Numbers	158443.22	158443.22	AT Par	158443.22
	Description:- Supply of Earth Leakage Detector (ELD) 12 Channels as per RDSO Specn.RDSO/SPN/256/2002 or latest. Inspection: RDSO Inspection Charges:Borne by DFCCIL Payment Terms: 100% after Supply.						
129	129	1.00	Numbers	39610.81	39610.81	AT Par	39610.81
	Description:- Wiring, installation, testing and commissioning of Earth Leakage Detector (ELD) 12 Channels as per RDSO Specn.RDSO/SPN/ 256/ 2002 or latest. This includes supply of fuse terminal strip for incoming power supply wires. On job training at site will be given by OEM engineer for installation and maintenance of ELD. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning.						
130	130	1.00	Station	151992.97	151992.97	AT Par	151992.97
	Description:- Provision of Ring Earth for EI system which includes supply of all components of earthing & bonding system like earth electrode, earth enhancement material, earth pit, equi- potential earth busbar, connecting cables and tape/strips and other associated accessories in accordance with RDSO Spec.No.RDSO/SPN /197/2008 or latest consisting minimum 8 Nos. of earth pits connected in a ring to achieve less than 1 Ohms earth resistance for connecting EI equipments, relay racks, panel, power equipments as per Signal Engineering Practice. Diagram of ring earth should be supplied to Railway for Approval before execution. All related material as recommended by RDSO in Specn. No.RDSO/SPN /197/2008 or latest, will be supplied by the contractor. basic material for one earth pit is given below: (a) Copper bonded steel electrode of 3.0 m long, 17.2 mm dia with copper bonding thickness of minimum macrons and UL listed and marked = 1 no. (b) Earth enhancement material supplied in sealed bags of minimum 10 kg = 3 nos. © Copper strip of 150x25x6 mm, to terminate earth rod = 1 no. (d) Copper strip of 300x25x6 mm (MEEB) = 1 no. (e) Copper strip of 150x25x6mm (SEEB) = 1 no. (f) Supply of 35 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting main earth electrode to MEEB in the equipment room in duplicate.(minimum 10 meter) (g) Supply of 16 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting MEEB to SEEB and SPD to MEEB (minimum 10 meter) (h) Supply of 10 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting various equipments to SEEB (i) Supply of copper lug sleeve for 3/16 cable Note:Earthing arrangement for EI must be as per RDSO guidelines issued by RDSO vide RDSO TAN no. STS/E//TAN/3006 dated 02.11.2012 or latest. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
131	131	1.00	Station	37998.24	37998.24	AT Par	37998.24

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			Description:- Installation, testing and commissioning of Ring Earth for EI system which includes installation of all components of earthing & bonding system like earth electrode, earth enhancement material, earth pit, equip- potential earth busbar, connecting cables and tape/strips and other associated accessories in accordance with RDSO Spec.No.RDSO/SPN /197/2008 or latest consisting minimum 8 Nos. of earth pits connected in a ring to achieve less than 1 Ohms earth resistance for connecting EI equipments, relay racks, panel, power equipments as per Signal Engineering Practice. Diagram of ring earth should be supplied to DFCCIL for Approval before execution. Installation of one earth pit includes (i) Digging the earth to the required depth. (ii) Insertion of electrode. (iii) Filling of earth enhancing compound (Approx.30 Kg) (iv) Provision of exothermic weld connections to copper tape of 25 mm x 6 mm x 150 mm to the earth electrodes. All material tools and features required for weld will be arranged by contractor. (v) This also includes CC cover 1.5 ft x 1.5 ft. 1 ft wall thickness 2 inch with cover 3 inch thickness. Cables 35 Sq mm/ 16 Sq mm/10 sq mm for connecting earth to busbar, busbar to busbar and busbars to various equipments. Earth electrode of 17.20 mm dia and 3.00 meter long high tensile low carbon steel circular rods molecularly bonded with copper and outer surface (minimum copper bonding thickness of 250 microns to made requirement of under writer's laboratories (UL) 467-2007 or latest. Copper strips of 150 mm x 25 mm x 6 mm to be welded with each earth electrode, copper strips of 300 mm x 25 mm x 6 mm for main equip- potentialbusbar, copper strips of 150 mm x 25 mm x 6 mm sub equip- potential busbar in relay room, power room and panel room. GI strip 25 mm x 2 mm for ring formation of earth pits Earth enhancement material in bags for each Earth Electrode. Inspection chamber of site 300 mm x 300 mm x 300 mm (Inside dimension) of approximate 50 mm thick with pulling hooks to cover the earth pits. Note:Earthing arrangement for EI must be as per RDSO guidelines issued by RDSO vide RDSO TAN no. STS/E//TAN/3006 dated 02.11.2012 or latest. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after commissioning.				
	13201	30.00	Numbers	119.50	3585.00	AT Par	3585.00
132	Description:- Lettering/Numbering Termination particulars, equipment's names etc., legibly and neatly inside location boxes. This includes supply of paints of Asian Paints/ Nerolac/ Dulux/ Berger make-Full Case. Inspection: Consignee, Inspection Charges: None Payment Terms: 100% after Execution						
	13202	15.00	Numbers	81.94	1229.10	AT Par	1229.10
132	Description:- Lettering/Numbering Termination particulars, equipment's names etc., legibly and neatly inside location boxes. This includes supply of paints of Asian Paints/ Nerolac/ Dulux/ Berger make- Half Case. Inspection: Consignee, Inspection Charges: None Payment Terms: 100% after Execution						
	13301	1.00	Station	36944.91	36944.91	AT Par	36944.91
133	Description:- Complete painting and varnishing work at a station (3/4 Line). This includes painting of signal posts and fittings, apparatus cases, point machines, junction boxes, rail post etc. This also includes varnishing, letter writing on relays, terminal Nos., apparatus cases, point machine, Signal Nos. and other details as per Signal Engineering Manual and instructions of Engineer at site. The item includes painting of distances of main cable run from G.P nearest to cable run and painting of distances of signals from nearest line on the signals base. At least two coats of paint is to be applied besides primary coating of red oxide. This includes supply of paints, varnishes and all other material required for complete painting work at a station. This includes painting on existing functional units also. The painting shall consist of initial red oxide / base paint followed by at least two coat of the paint as per standard painting scheme. This item also includes painting of interlocked gate attached to the station. Location box no. shall be painted on both sides. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution						
	134	305.00	Metre	18.74	5715.70	AT Par	5715.70
134	Description:- Supply of UTP CAT-6 cable in a roll of 305 meter and make Siemen/ Systemax / Panduit/ Tyco/ Krone/ AMP. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
	135	2.00	Numbers	3316.73	6633.46	AT Par	6633.46
135	Description:- Supply of 4/2 wire combined Portable Light Weight Emergency control telephones of metal body with 6-pin plug as per IRS-TC-75/99 (Amnd 4) or latest. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
	136	1.00	Numbers	1401.40	1401.40	AT Par	1401.40
136	Description:- Supply of KRONE Punching tool, Krone or any reputed make only. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
	137	100.00	Numbers	947.11	94711.00	AT Par	94711.00
137	Description:- Supply of patch chord cable (10 meter long) with FC/PC connectors compatible with SDH equipments as per TEC Specn.No.GR/OFJ-02/01 May 2004 with latest Amendment. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
	138	10.00	Numbers	12752.20	127522.00	AT Par	127522.00
138	Description:- Supply, preparation, splicing and installation of straight joint for 24 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March- 99 or latest. Splice losses in no case should be more than 0.1 dB. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						

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139	1.00	Numbers	193957.98	193957.98	AT Par	193957.98
<p>Description:- Supply of managed SDH (STM-1 Add/Drop MUX and upgradeable to STM-4) fully wired for 2 X 63 MB and equipped for 21E1s and a Virtual Container (VC)-12 with STM- 1(L1.1) aggregate interface including power supply, order wire, Ethernet card, sub rack, inbuilt DDF, installation material and all other accessories, manuals etc. as per TEC. Specification GR SDH 04/02, March 02 or with latest amendment. The contractor will supply all other accessories as mentioned in the above said TEC Specifications and system will have provision of different redundancy cards as per the TEC Specifications. Note: It shall be possible to increase capacity from 21E1 to 63 E1s by adding / inserting tributary cards. This includes connecting all pig tails, optical patch cords etc. to the SDH equipment. This also includes connecting the SDH equipment with all cards to the 48V Bus including supply of wires and connectors. Termination of all E1s on DDF taking PVC cable over runway or a wall. At the terminal station, one port may be disabled if required as per instructions given by site engineer incharge. Inspection:(i) RDSO if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% after Supply</p>						
140	1.00	Numbers	48489.50	48489.50	AT Par	48489.50
<p>Description:- Installation, wiring, testing & commissioning of managed SDH (STM-1 Add/Drop MUX and upgradeable to STM-4) fully wired for 2 X 63 MB and equipped for 21E1s and a Virtual Container (VC)-12 with STM-1(L1.1) aggregate interface including power supply, order wire, Ethernet card, sub rack, inbuilt DDF, installation material and all other accessories, manuals etc. as per TEC. Specification GR SDH 04/02, March 02 or with latest amendment. The contractor will install all other accessories as mentioned in the above said TEC Specifications and system will have provision of different redundancy cards as per the TEC Specifications. Note: It shall be possible to increase capacity from 21E1 to 63 E1s by adding / inserting tributary cards. This includes connecting all pig tails, optical patch cords etc. to the SDH equipment. This also includes connecting the SDH equipment with all cards to the 48V Bus including supply of wires and connectors. Termination of all E1s on DDF taking PVC cable over runway or a wall. At the terminal station, one port may be disabled if required as per instructions given by site engineer incharge. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.</p>						
141	1.00	Numbers	253550.16	253550.16	AT Par	253550.16
<p>Description:- Supply of 2 Mb Programmable Primary Digital drop insert multiplexer as per RDSO Specs. IRS TC- 68/2004 (Amnd.1) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply card, remote control, supervision facility and all other accessories, installation material, manuals etc. It should have facilities to accommodate data interface card in multi drop mode and should be able to support cards needed for video conferencing and ISDN. It shall support NMS installed at Test Room and may operate local/remote location of entire section. It also includes submission of all technical documents, manuals and supply of all miscellaneous items which will be required for final testing and commissioning of system. The above MUX should be equipped with following circuits: - i) 2 wire/ 4 wire E&M VF circuits (minimum 16 nosckts) ii) Subscriber loop circuits (minimum 4 nosckts) iii) Exchange loop interface circuits (minimum 8 circuits) iv) This also includes connecting all pigtails, optical patch cords etc to the SDH equipments. This also includes connection of SDH and primary MUX equipment with all interface cards to the 48V Bus including supply of wires and connectors termination of all evens on DDF taking PVC cable over runway or a wall and termination of VF interface circuit to the Krone type. Inspection:(i) RDSO if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% after Supply</p>						
142	1.00	Numbers	63387.54	63387.54	AT Par	63387.54
<p>Description:- Installation, wiring, testing and commissioning of 2 Mb Programmable Primary Digital drop insert multiplexer as per RDSO Specs. IRS TC- 68/2004 (Amnd.1) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply card, remote control, supervision facility and all other accessories, installation material, manuals etc. It should have facilities to accommodate data interface card in multi drop mode and should be able to support cards needed for video conferencing and ISDN. It shall support NMS installed at Test Room and may operate local/remote location of entire section. It also includes submission of all technical documents, manuals and supply of all miscellaneous items which will be required for final testing and commissioning of system. The above MUX should be equipped with following circuits: - i) 2 wire/ 4 wire E&M VF circuits (minimum 16 nosckts) ii) Subscriber loop circuits (minimum 4 nosckts) iii) Exchange loop interface circuits (minimum 8 circuits) iv) This also includes connecting all pigtails, optical patch cords etc to the SDH equipments. This also includes connection of SDH and primary MUX equipment with all interface cards to the 48V Bus including supply of wires and connectors termination of all evens on DDF taking PVC cable over runway or a wall and termination of VF interface circuit to the Krone type. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.</p>						
143	4.00	Kilometre	48313.26	193253.04	AT Par	193253.04

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143	Description:- Supply of Pre-lubricated HDPE duct, 40 mm OD, 33 ID as per RDSO specification No. RDSO/SPN/TC/45/2013 Rev. 2.0 or latest. The item also includes supply of all the accessories of HDPE duct like end caps, collars, bends, couplers etc. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply						
144	4.00	Kilometre	12078.31	48313.24	AT Par	48313.24	
144	Description:- Laying of Pre-lubricated HDPE duct, 40 mm OD, 33 ID as per RDSO specification No. RDSO/SPN/TC/45/2013 Rev. 2.0 or latest. The item also includes installation of all the accessories of HDPE duct like end caps, collars, bends, couplers etc. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
145	4.00	Kilometre	10804.77	43219.08	AT Par	43219.08	
145	Description:- Blowing/drawing of OFC cables in the HDPE duct along with all the protective work as per instructions of engineer incharge at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
146	12.00	Numbers	5263.87	63166.44	AT Par	63166.44	
146	Description:- Construction of brick chamber of optical fibre cable straight through joint as per Drg. No. CSTE/NWR/ SOR/23. It also includes supply and provision of all the material required for this item like bricks, sand, cement etc. The cement and sand should be in ratio 1:6. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
147	1.00	Numbers	36716.41	36716.41	AT Par	36716.41	
147	Description:- Supply, installation and complete indoor wiring of 19 inch covered Rack of size 2035 mm x 600 mm x 600 mm (Approx.) as per Drg. No. CSTE/NWR/SOR/24. The rack shall be complete with all fittings for housing SDH equipments, Primary MUXES, DDF, MDF using crone modules and other equipments like runway ladders etc completely wired and equipped with integrated protection modules for all channels as per technical specifications and other stipulations of tender document. It should be possible to lock all the equipments with only order wire telephone remaining outside the rack. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
148	1.00	Numbers	4413.95	4413.95	AT Par	4413.95	
148	Description:- Supply & Installation of Professional 19" Equipment Racks 4U for housing of network equipments. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
149	1.00	Numbers	738877.32	738877.32	AT Par	738877.32	
149	Description:- Supply, installation, testing & commissioning of Network Management System (NMS) for both STM-I ADMs & Primary Digital Drop/Insert MUX including associated application software, power supply arrangement along with all accessories as mentioned in respective tender document. Application software will be licensed software This also includes necessary interface if required at way side stations for achieving the end objective of patching and switching of equipment from NMS. Note: i).It include supply of work station note book (02 Nos.) with configuration of Intel Pentium (R) i5 or i7, 3GB, 667 Mhz, dual channel DDR2 SDRAM, Cache 3MB, Label II Cache or latest model available in the market for data input and as per Technical Specification given in respective tender document. ii). Supply of Laser Printer (02 Nos.) as per technical specifications enclosed in tender documents. iii). NMS shall be capable of monitoring and managing upto 250 nodes simultaneously for both STM-1 ADMs and Primary MUXES iv). User interface shall be Graphic User Interface (GUI) based. v). NMS shall provide point and click facility and trial management capability vi). It also includes supply of furniture (Godrej or any repudiated make) i.e. PC/Printer table, revolving chair and one side rack as approved by site engineer. Inspection: RDSO Inspection Charges: Borne by DFCCIL. Payment Terms: 100% after commissioning.						
150	1.00	Numbers	127514.14	127514.14	AT Par	127514.14	
150	Description:- Supply of SMPS based Battery Chargers as per RDSO Spec for Telecom use 48 volts, 25 Amps in 2+1 configuration modules of 25 Amps with ultimate expandable capacity 50 Amps, automatic switching between the modules as per RDSO Spec No. RDSO/SPN/TC/23/1999 version 4 or latest along with two potential free contacts. Inspection: (i) RDSO if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% on Supply						
151	1.00	Numbers	3666.60	3666.60	AT Par	3666.60	
151	Description:- Installation of Battery chargers, Power distribution Board along with MCBs of suitable ratings and wiring and commissioning of External alarm contacts through EMS. The work includes supply of battery rack, MCBs, battery cable and battery lugs and other accessories required for installation of power plant. Inspection: Consignee, Inspection Charges: None. Payment Terms: 100% after Execution.						
152	1.00	Numbers	37035.61	37035.61	AT Par	37035.61	
152	Description:- Supply of Module for SMPS 25 Amps/48VDC suitable for item no 15.21 of SOR. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
153	1.00	Numbers	77027.97	77027.97	AT Par	77027.97	

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153				Description:- Supply of 48Volt / 200AH maintenance free VRLA Batteries duly charged as per IRS Spec. No. S-93/96(A) with amendments-1 or latest Inspection: RDSO Inspection Charges: Borne by DFCCIL. Payment Terms: 100% after Supply.			
154	154	1.00	Set	19256.99	19256.99	AT Par	19256.99
	Description:- Installation, wiring, testing & commissioning of 48Volt/200AH maintenance free VRLA Batteries duly charged as per IRS Spec. No. S-93/96(A) with amendments-1 or latest. Inspection: Consignee, Inspection Charges: None. Payment Terms: 100% after Execution.						
155	155	1.00	Set	244224.00	244224.00	AT Par	244224.00
	Description:- Supply of 48V/500AH VRLA battery bank consisting of 24x2 volt 500AH VRLA cells, with required container and accessories like connectors, clamp, lugs, interlinks etc as per RDSO Spec. No. IRS-S-93/96A with Amnd.1 or latest. Inspection: RDSO Inspection Charges: Borne by DFCCIL. Payment Terms: 100% after Supply.						
156	156	1.00	Numbers	176550.53	176550.53	AT Par	176550.53
	Description:- Supply of Portable Service terminal with installation of software, for managing both STM-1 ADMs Primary D/I MUXES with all accessories compatible with NMS to be supplied as per detailed technical specification attached and other stipulation of tender document. It should be possible to plung in, the service terminal at any of the station to programme any network element from any location of the network. Inspection: RDSO Inspection Charges: Borne by DFCCIL. Payment Terms: 100% after Supply.						
157	157	1.00	Numbers	24363.18	24363.18	AT Par	24363.18
	Description:- Supply, installation and complete wiring of Optical fiber cable termination box for 24 fibers complete with base housing, base mountings with fixing arrangement etc & splicing of fibers with low loss of pigtail cables as per detailed specification mentioned in respective tender documents. Two pairs of fibers shall be derived from either side of OFC cable at every OFC cable hut provided at wayside stations through pigtails with FC/PC connectors and remaining fibers on either side will be made through by splicing. At OFC terminal stations/MW repeater stations, all fibers shall be derived from either side and to be terminated in OFC termination box through pig tails and FC/PC connector. The OFC termination box to be supplied as per TEC No. G/FTB 01-02 March- 99 or latest. Splice losses in no case should be more than 0.1 dB. Necessary 0 dB connectors should be provided by contractor in OFC termination box. Inspection: Consignee, Inspection Charges: None. Payment Terms: 100% after Execution.						
158	158	10.00	Numbers	1232.67	12326.70	AT Par	12326.70
	Description:- Supply of 10 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
159	159	10.00	Numbers	308.17	3081.70	AT Par	3081.70
	Description:- Fixing and wiring of 10 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
160	160	10.00	Numbers	1963.08	19630.80	AT Par	19630.80
	Description:- Supply of 20 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
161	161	10.00	Numbers	490.77	4907.70	AT Par	4907.70
	Description:- Fixing and wiring of 20 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
162	162	1.00	Numbers	591101.86	591101.86	AT Par	591101.86
	Description:- Supply of Network Management System (NMS) for both STM-I ADMs & Primary Digital Drop/Insert MUX including associated application software, power supply arrangement along with all accessories as mentioned in respective tender document. Application software will be licensed software This also includes necessary interface if required at way side stations for achieving the end objective of patching and switching of equipment from NMS. Note: i).It include supply of work station note book (02 Nos.) with configuration of Intel Pentium (R) i5 or i7, 3GB, 667 Mhz, dual channel DDR2 SDRAM, Cache 3MB, Label II Cache or latest model available in the market for data input and as per Technical Specification given in respective tender document. ii). Supply of Laser Printer (02 Nos.) as per technical specifications enclosed in tender documents. iii). NMS shall be capable of monitoring and managing upto 250 nodes simultaneously for both STM-1 ADMs and Primary MUXES iv). User interface shall be Graphic User Interface (GUI) based. v). NMS shall provide point and click facility and trial management capability vi). It also includes supply of furniture (Godrej or any repudiated make) i.e. PC/Printer table, revolving chair and one side rack as approved by site engineer. Inspection: RDSO Inspection Charges: Borne by DFCCIL. Payment Terms: 100% after supply.						
163	163	2.00	Numbers	39020.98	78041.96	AT Par	78041.96

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		Description:- Supply of managed optical media converter Complied RDSO spec SPN/TC/103/2013 rev 0 consisting of minimum four user ports 10/100 Mbps (2.1.3.2) without POE; two SFP slots for networking; Two electrical Ethernet ports for networking ; dual power supply support AC 230 VAC / DC - 48V DC from single socket ; Two numbers EOLS-1312-10-D 1000 base -LX 10 unit to work in daisy chain or ring topology :Make/Model : Teamlink 2100 , Team Engg / Team Link or similar. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by DFCCIL (ii) None Payment Terms: 100% after Supply						
164	164	10.00	Kilometre	221674.80	2216748.00	AT Par	2216748.00	
		Description:- 4 Quad 0.9mm underground Railway Jelly Filled Telecom Quad Cables to Spec. No. IRS:TC 30/2005(Ver.-1) (Amd. 1 to 5)						
165	165	10.00	Kilometre	250503.38	2505033.80	AT Par	2505033.80	
		Description:- 6 Quad 0.9mm underground Railway Jelly Filled Telecom Quad Cables to Spec. No. IRS:TC 30/2005(Ver.-1) (Amd. 1 to 5)						
166	166	60.00	Kilometre	165069.02	9904141.20	AT Par	9904141.20	
		Description:- PVC Insulated Armoured, Unscreened, U/G Railway Signalling Cable 12 C X1.5 sqmm.to Spec.No. IRS:S-63/2014 (Rev.4.0)						
167	167	12.00	Kilometre	252888.16	3034657.92	AT Par	3034657.92	
		Description:- 19Cx1.5 PVC Insulated Armoured, Unscreened, U/G Railway Signalling Cable. Spec No. IRS: S-63/2014 (rev-4.0)						
168	168	8.00	Kilometre	73891.60	591132.80	AT Par	591132.80	
		Description:- 2Cx16 PVC Insulated Armoured, Unscreened, U/G Railway Signalling Cable. Spec No. IRS: S-63/2014 (rev-4.0) and IS:1554(part-1)						
169	169	20.00	Kilometre	329432.40	6588648.00	AT Par	6588648.00	
		Description:- 2Cx2.5 PVC Insulated Armoured, Unscreened, U/G Railway Signalling Cable 12 core x 2.5 sqmm to. Spec No. IRS: S-63/2014 (rev-4.0) or latest						
170	170	8.00	Kilometre	83426.00	667408.00	AT Par	667408.00	
		Description:- 2Cx2.5 PVC Insulated Armoured, Unscreened, U/G Railway Signalling Cable Spec No. IRS: S-63/2014 (rev-4.0) or latest						
171	171	4.00	Kilometre	88500.00	354000.00	AT Par	354000.00	
		Description:- OFC 48C IRS: TC: 55/2006 Rev-1 Amendment No.3.						
172	172	4.00	Kilometre	61360.00	245440.00	AT Par	245440.00	
		Description:- OFC 24C IRS:TC:55/2006 Rev-1 Amendment No.3						
173	173	2.00	Kilometre	56640.00	113280.00	AT Par	113280.00	
		Description:- OFC 12C (Spur fiber)						
174	174	2.00	Kilometre	54870.00	109740.00	AT Par	109740.00	
		Description:- OFC 6C (Spur fiber)						
175	175	4.00	Kilometre	77880.00	311520.00	AT Par	311520.00	
		Description:- 10Pair PIJF Polythene Insulated Polythene Sheathed Jelly Filled Telephone Cable 10 Pair 0.5 mm with Poly-AL Moisture Barrier to Spec No.: IRS:TC:41/97 Amdt.No. 3						
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () 2-SCHEDULE OF WORKS AND RATES for Civil Building Works							2557408.16	
1	1	19.70	cum	6833.40	134617.98	AT Par	134617.98	
		Description:- 4.1- Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : : 1:3:6 (1 Cement: 3 coarse sand (zone-III) derived from natural sources: 6 graded stone aggregate 20 mm nominal size derived from natural sources)						
2	2	40.87	cum	7997.30	326849.65	AT Par	326849.65	
		Description:- 5.33 Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland/Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. 5.33.1-All works upto plinth level 5.33.1.1- Concrete of M25 grade with minimum cement content of 330 kg/cum						
3	3	42.49	cum	10080.15	428305.57	AT Par	428305.57	

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3									Description:- 5.33- Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland/Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the specified minimum cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement. 5.33.2-All works above plinth level upto floor V level 5.33.2.1-Concrete of M25 grade with minimum cement content of 330 kg/cum
4	4	26.25	Sqm	307.95	8083.69	AT Par	8083.69		Description:- 5.9-Centering and shuttering including strutting, propping etc. and removal of form for 5.9.1-Foundations, footings, bases of columns, etc. for mass concrete
5	5	292.13	Sqm	608.35	177717.29	AT Par	177717.29		Description:- 5.9-Centering and shuttering including strutting, propping etc. and removal of form for 5.9.5- Lintels, beams, plinth beams, girders, bressumers and cantilevers
6	6	138.76	Sqm	804.50	111632.42	AT Par	111632.42		Description:- 5.9-Centering and shuttering including strutting, propping etc. and removal of form for 5.9.6-Columns, Pillars, Piers, Abutments, Posts and Struts
7	7	145.70	Sqm	766.55	111686.33	AT Par	111686.33		Description:- 5.9-Centering and shuttering including strutting, propping etc. and removal of form for 5.9.3-Suspended floor,roofs,landing, balconies and access platform
8	8	78.91	cum	8512.10	671689.81	AT Par	671689.81		Description:- 6.4-Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in super structure above plinth level up to floor V level in all shapes and size 6.4.1- Cement mortar 1:4(1 cement : 4 coarse sand)
9	9	686.19	Sqm	307.25	210831.88	AT Par	210831.88		Description:- 13.4- 12 mm cement plaster of mix : 13.4.1- 1:4 (1 cement: 6 coarse sand)
10	10	686.19	Sqm	131.45	90199.68	AT Par	90199.68		Description:- 13.61- Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : 13.61.1-Two or more coats on new work
11	11	686.19	Sqm	123.85	84984.63	AT Par	84984.63		Description:- 13.80-Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.
12	12	53.26	Sqm	1107.05	58961.48	AT Par	58961.48		Description:- 11.38 Providing and laying Ceramic glazed floor tiles of size 300x300 mm thickness to be specified by the manufacturer), of 1st quality conforming to TS 15622, of approved make, in all colours, shades, except White, ivory, Grey, Fume Red Brown, laid on 20 mm thick bed of cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sq.m including pointing the joints with white cement and matching pigments etc., complete.
13	13	48.80	Sqm	1515.45	73953.96	AT Par	73953.96		Description:- 11.21- Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS:4457, complete as per the direction of Engineer-in-Charge. 11.21.1- In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement: 4 coarse sand) 11.21.1.1-Acid and alkali resistant tile
14	14	4.46	Sqm	1637.70	7304.14	AT Par	7304.14		Description:- 11.21- Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS:4457, complete as per the direction of Engineer-in-Charge. 11.21.2-In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement: 4 coarse sand) 11.21.2.1-Acid and alkali resistant tile
15	15	13.43	Sqm	1063.45	14282.13	AT Par	14282.13		Description:- 8.31- Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.
16	16	1.36	cum	131576.95	178944.65	AT Par	178944.65		

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10	Description:- 9.1-Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). 9.1.1-Second class teak wood						
17	17	9.41	Sqm	3086.10	29040.20	AT Par	29040.20
	Description:- 9.20-Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters. 9.20.1-35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws						
18	18	2000.00	Kg	181.00	362000.00	AT Par	362000.00
	Description:- 9.48-Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. 9.48.1-Fixed to steel windows by welding						
19	19	8.35	Sqm	7634.10	63744.74	AT Par	63744.74
	Description:- 9.147D.1-Two track two panels sliding window made of (small series) frame 52 x 44 mm & sash 32 x 60 mm both having wall thickness of 1.9 ± 0.2 mm and single glazing bead of appropriate dimension. (Area of window upto 1.75 sqm)						
20	20	137.60	Sqm	1948.95	268175.52	AT Par	268175.52
	Description:- 12.52-Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x 1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 12.52.3- 12.5 mm thick square edge PVC Laminated Gypsum Tile of size 595x595 mm, made of Gypsum plasterboard, manufactured from natural gypsum as per IS 2095 part land laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with SUB HEAD : 12.0 ROOFING 266 Code Description Unit RateNo.the face side PVC film which goes around and wrapsthe edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.						
21	21	1.00	Lumpsum	102405.62	102405.62	AT Par	102405.62
	Description:- Other DSR item						
22	22	1.00	Lumpsum	-1335856.32	-1335856.32	AT Par	-1335856.32
	Description:- Deduction @ 38% as As per NWR letter No. NWR-HQ0ENGG(WKS)/73/2021 Base rate of tenders						
23	23	1.00	Lumpsum	-233523.76	-233523.76	AT Par	-233523.76
	Description:- Deduction for 12% GST						
24	24	1.00	Lumpsum	350285.63	350285.63	AT Par	350285.63
	Description:- Addition for 18 % GST						
25	25	1.00	Lumpsum	261091.24	261091.24	AT Par	261091.24
	Description:- Addition @ 11.37% above as LAR issued by All unit						

3. ITEM BREAKUP

No item break up added

4. ELIGIBILITY CONDITIONS

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	Financial Eligibility Criteria: The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less; where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIII (Mandatory), along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet. Note: Client certificate from other than Govt Organization should be duly supported by Form 16A/26AS generated through TRACES of Income Tax Department of India. As per Clause No. 10.2 of Tender Form (second Sheet) of Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip.	No	No	Allowed (Mandatory)
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Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	(a)The tenderer must have successfully completed or substantially completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works, each costing not less than the amount equal to30% of advertised value of the tender, OR Two similar works, each costing not less than the amount equal to 40% of advertised value of the tender, OR One similar work, each costing not less than the amount equal to 60% of advertised value of the tender. Note# The similar nature of Work as defined is Any EI Supply, Installation, Testing, Commissioning Signaling work. OR Any EI Alterations Signaling work. OR Any CTC/TMS work.	No	No	Allowed (Mandatory)

5. COMPLIANCE

Check Lst

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As mentioned in Tender Document	No	No	Not Allowed

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As mentioned in the Tender Document	No	No	Allowed (Mandatory)
2	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As mentioned in the Tender Document	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As mentioned in the Tender Document	No	No	Allowed (Mandatory)

Undertakings

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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As mentioned in the Tender Document	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	TenderdocumentforSignalInterlockingworkatCONCORPFT-19.02.2025_2.pdf	Tender Document

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: KANTI KUMAR THAKUR

Designation : APM/S T