

**NAGPUR-CR-DIVISION-S AND T/CENTRAL RLY
TENDER DOCUMENT**

Tender No: 40-2026-LL-SN-BPQ

Closing Date/Time: 17/07/2026 15:00

SR.DSTE/CO acting for and on behalf of The President of India invites E-Tenders against Tender No **40-2026-LL-SN-BPQ** Closing Date/Time 17/07/2026 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	Signalling related work for provision of one additional Goods Line Adjacent to existing UP side goods shed line and both line connectivity to UP ML at Manikgarh end, short Shunting neck at Manikgarh end etc at Ballarshah station of Nagpur Division		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	17/07/2026 15:00	Date Time Of Uploading Tender	17/06/2026 17:00
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	63508612.06	Tendering Section	WORKS
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	1270200.00	Validity of Offer (Days)	60
Tender Doc. Cost (Rs.)	0.00	Period of Completion	11 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	03/07/2026		
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	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A-Sch A SOR Supply							13351415.62	Above/ Below/Par
1	Please see Item Breakup for details.				11314759.00	18.00	13351415.62	
	Description:- Schedule A SOR Supply Portion							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B-Sch B SOR Execution							6507539.52	Above/ Below/Par
1	Please see Item Breakup for details.				5514864.00	18.00	6507539.52	
	Description:- Schedule B SOR Execution Portion							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () C-Sch C Non SOR							2777854.43	Above/ Below/Par
1	1	70.00	Numbers	286.51	20055.70	AT Par	20055.70	
	Description:- Supply and fixing of cable route marker of concrete Make as per Drawing Attached. (Insp Agency-Consignee)							
2	2	20.00	cum	245.61	4912.20	AT Par	4912.20	
	Description:- Cross trench for identification of the route of existing signaling and telecom cables.							
3	3	5.00	cum	4409.93	22049.65	AT Par	22049.65	
	Description:- Casting of cement concrete to protect S&T equipments and laid cables,above pipes,Signal store etc by concrete mixture of cement, sand, stone in the ratio of 1:2:4 using 25mm graded stone aggregate as per instruction of site incharge of railways. Concrete is to be casted with the help of suitable size shuttering form as per site requirement. Concrete is to be cured for sufficient time as per standard practices on railways.							
4	4	1.00	Station	8134.67	8134.67	AT Par	8134.67	
	Description:- Preparation of Station working Rule(SWR) for phase/final working in English and Hindi of station based on SWRD of the station. The contractor shall initially supply 2 copies of complete SWR for approval of railway. Railway will return one set of SWR duly approved. Final SWR after doing all corrections and complete in all respect along with 8 set of SWR and final CD to submit to Railway. 1 No. = 1SWR (Hindi OR English).							

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5	5	1.00	Numbers	32644.54	32644.54	AT Par	32644.54	
	Description:- Development and preparation of SIP (Phase) Layout based on existing SIP/ESP . The contractor shall initially supply Tentative SIP for approval of railway. After approval of SIP, final tracing with 8 set of Ammonia/white print to be provided.							
6	6	1.00	Numbers	13057.82	13057.82	AT Par	13057.82	
	Description:- Preparation of SWRD (Phase) based on SIP for EI. After approval of SWRD final tracing with 8 set of ammonia/white print of SWRD to be supplied							
7	7	5.00	Hour	1090.59	5452.95	AT Par	5452.95	
	Description:- Hiring of JCB machine (in good clondition) for levelling & dressing ground /dismantling structures, shifting of heavy material, including disposal of debris through dumpers etc with contractor's labour. JCB machine operator, fuel etc shall be arranged by contractor.							
8	8	5.00	Hour	993.49	4967.45	AT Par	4967.45	
	Description:- Hiring of Road Crane of 25MT capacity including necessary fuel, oil and operator etc. cmplete as directed by engineer in-charge. The contractor shall be responsible for arranging al types of permits required for movement of the Crane. Payment shall be made for actual working hours at site.							
9	9	2.00	Numbers	57692.79	115385.58	AT Par	115385.58	
	Description:- Supply of True RMS Industrial Logging Multimeter with trend capture as per specification attached Make: Fluke 289 or similar.							
10	10	1.00	Numbers	9680.21	9680.21	AT Par	9680.21	
	Description:- Supply of Analog megger 500VMotwane/Waco make or similar							
11	11	2.00	Numbers	76223.32	152446.64	AT Par	152446.64	
	Description:- Supply of AC/DC clamp-on ammeterM/S. Amprobe, Germany.(AC/DC lowcurrent clamp meter model no. LH41 A)or similar.							
12	12	1.00	Numbers	9993.14	9993.14	AT Par	9993.14	
	Description:- Supply of Analog megger 100VMotwane/Waco make or similar							
13	13	1.00	Numbers	501735.00	501735.00	AT Par	501735.00	
	Description:- Radio detection Precision Pipe and Cable locator / Route tracer Brand: Radio detection Make - RD8200G or similar							
14	14	10.00	Numbers	2147.37	21473.70	AT Par	21473.70	
	Description:- Steel Stool Godrej make no ST2 for Relay room or Similar reputed make.							
15	15	5.00	Numbers	13190.00	65950.00	AT Par	65950.00	
	Description:- Unbranded Aluminium Double Sided A Shape Platform step ladder, Capacity 120 kilogram							
16	16	1.00	Numbers	28539.44	28539.44	AT Par	28539.44	
	Description:- "Upgradation of Data logger" Database entry, validation of inputs, simulation							
17	17	8.00	Numbers	2634.97	21079.76	AT Par	21079.76	
	Description:- Supply and fixing of 'S' shape GI bend pipe 50 mm dia. And 01 mtr length, 'B' class, for cable entry in to Point machine with all accessories. Inspection by consignee							
18	18	8.00	Numbers	5753.68	46029.44	AT Par	46029.44	
	Description:- MAIN COVER ASSEMBLY complete -for TWS 220 MM POINT Machine comprising of Main cover, CRANKHANDLE HOLE SUB. ASSY, KEY HOLE LOCK SUB. ASSY, DOOR LOCK,RUBBER GASKATE of MAIN COVERASSY, WIRING DIAGRAM PLATE , OILINSTRUCTION LABEL, OCKINGPIECE B, RUBBER PACKING (KEYHOLE LOCK), RUBBER GASKET (C.H.HOLE LOCK ASSY.), CRANK HANDLEHOLE LOCK BASE, CRANK HANDLEHOLE LOCK LID, PIN (for C.H. HOLELOCK S/A), RUBBER GASKET (C.H.HOLE LOCK ASSY. LOCKING. Modification in cover as per consignee requirement may required to be done. Paint - Powder coated							
19	19	8.00	Numbers	2876.84	23014.72	AT Par	23014.72	
	Description:- Galvanization charges for main cover in above item No. 18							
20	20	100.00	Set	661.39	66139.00	AT Par	66139.00	
	Description:- Printing and Supply of Multi Type Register as per annexure attached.							
22	22	100.00	Numbers	293.81	29381.00	AT Par	29381.00	
	Description:- Supply of Disconnection/Reconnection Notice Records Consisting of 70 Sheets in size 35cm x21cm with 3 Partitions Printed in tri-colour as per given Description duly provided withbound overs on top and bottom with Multicolour Sticking on the top ofthe cover. Matter in the registers to be printed as per Instructions of the consignee and in Bi-lingual where ever prescribed. 70 GSM paper is using for preparation of these registers.							
23	23	100.00	Job	2131.12	213112.00	AT Par	213112.00	
	Description:- Execution of S&T work related to engineering block, in one block, five unskilled man power have to be provided during block for S&T connection removing & refixing as per Railway site Enginner instruction.							
24	24	50.00	Numbers	1078.81	53940.50	AT Par	53940.50	
	Description:- Supply of Ground Enhancement material, it should be permanent & maintenance free & maintain its earth resistance with time, should set up firmly and not dissolve or decompose or otherwise pollute the soil of local water, it should be suitable for installation in dry form orslury. (Each bag should be of 10 Kg.)							
25	25	1.00	Station	170772.12	170772.12	AT Par	170772.12	
	Description:- Supply of RDPM software per station and it includes Configuration and mapping of gear wise signalling information in Remote Diagnostic Softare. (Inspection Agency-RDSO/RITES)							

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26	26	1.00	Numbers	61242.42	61242.42	AT Par	61242.42	
	Description:- Supply, Installation, testing and commissioning of Microprocessor based Mini Logger/Field IOT device installed in location boxes to monitor DC Track circuits, Point Machine, LC Gate, and signals. (Complied with latest RDSO/RDPMS/FRS /2025, Version 1.0 Date Effective: 16.07.2025) (Inspection Agency-RDSO/ RITES)							
27	27	30.00	Numbers	7639.69	229190.70	AT Par	229190.70	
	Description:- Supply, Installation, testing and commissioning of Non Intrusive Crrrent Sensor compatible with Fiels IOT Devices for Track, Signal and Point Machine (Complied with latest RDSO/RDPMS/FRS /2025, Version 1.0 Date Effective: 16.07.2025) (Inspection Agency-RDSO/RITES)							
28	28	60.00	Numbers	3537.60	212256.00	AT Par	212256.00	
	Description:- Supply of galvanically isolated voltage transducers or voltage sensor or voltage sensing channel with high impedance and minimum circuit loading (in no case shall be more than 5 mA Variant: 0-10 V DC/0-50 V DC/0-150 V DC, 0-150 V AC as per Complied with latest RDSO/RDPMS/FRS /2025, Version 1.0 Date Effective: 16.07.2025. Note: The sensors or Voltage sensing channel can be external or can be mounted/integrated in the IOT devices.(Insp Agency RDSO/RITES)							
29	29	2.00	Numbers	175186.20	350372.40	AT Par	350372.40	
	Description:- Supply of IoT device or BHMU for sensing 110 V DC IPS Battery Bank. (Minimum 1No for Each IPS battery bank) (Inspection Agency-RDSO/RITES)							
30	30	2.00	Numbers	27372.84	54745.68	AT Par	54745.68	
	Description:- Testing & commissioning of IoT Devices or BHMU for IPS Battery Bank.							
31	31	10.00	Numbers	21240.00	212400.00	AT Par	212400.00	
	Description:- Supply of external voice modem in location box to connect field IoT device to the station gateway.							
32	32	10.00	Numbers	1770.00	17700.00	AT Par	17700.00	
	Description:- Supply of isolation transformer 600:470							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () D-Sch D IPS							2233740.00	Above/ Below/Par
1	1	2.00	Numbers	1116870.00	2233740.00	AT Par	2233740.00	
	Description:- Supply, installation, testing and commissioning of SMPS based integrated power supply conforming to RDSO Specifications RDSO/SPN/165/2023 Version 4.0 with amendments for Panel Interlocked station as per Central Rly. Drg.No.SK-790/1/A with corrections if any. Details of the standard modules to be used as per RDSO/SPN/165/2023 Version 4.0 or latest as per attached Annexure IIIA. Scope of supply, checking of Installation and commissioning of IPS shall be as per RDSO letter No. STS//E/IPS/Genl. Dated 03/04/2008. (Insp Agency-RDSO)							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () E-Sch E EI Modication							37041841.67	Above/ Below/Par
1	1	100.00	Numbers	2.77	277.00	AT Par	277.00	
	Description:- Low Voltage Transparent GLASS FUSE of rating 0.6 AMP 24 Volts size 5x20MM suitable for Electronic Interlocking system (Insp Agency-Consignee)							
2	2	100.00	Numbers	2.67	267.00	AT Par	267.00	
	Description:- Low Voltage Transparent GLASS FUSE of rating 1.63 AMP 60 Volts size 5x20MM suitable for Electronic Interlocking system(Insp Agency-Consignee)							
3	3	100.00	Numbers	2.50	250.00	AT Par	250.00	
	Description:- Low Voltage Transparent GLASS FUSE of rating 06 AMP 110 Volts size 5x20MM suitable for Electronic System(Insp Agency-Consignee)							
4	4	100.00	Numbers	2.67	267.00	AT Par	267.00	
	Description:- Low Voltage Transparent GLASS FUSE of rating 02 AMP 60 Volts size 5x20MM suitable for Electronic Interlocking system (Insp Agency-Consignee)							
5	5	100.00	Numbers	2.71	271.00	AT Par	271.00	
	Description:- Low Voltage Transparent GLASS FUSE of rating 250 MA 24 Volts size 5x20MM suitable for Electronic Interlocking system(Insp Agency-Consignee)							
6	6	100.00	Numbers	2.71	271.00	AT Par	271.00	
	Description:- Low Voltage Transparent GLASS FUSE of rating 10 AMP 110 Volts size 5x20MM suitable for Electronic Interlocking system(Insp Agency-Consignee)							
	7	120.00	Per Unit	232696.11	27923533.20	AT Par	27923533.20	

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7	Description:- Modification in existing EI system as per latest TAN, it includes:- Design and modification in existing interface and interlocking circuit of EI system, including modification in VDU,CCIP, MT, Data logger, EI, Relay rack complete wiring conforming to RDSO specification, as per technical requirement & tentative approved signaling plan/diagrams. Required hardware will be provided by railways except the wiring, material (i.e. connectors, interconnecting cable/wires, fuses etc.) The work includes supply of modified ST/LT, interface and logic circuit, CCIP/VDU diagram etc. to suit the approved interlocking plan. It also includes modification in data logger/MT, carrying out FAT, SAT jointly with railways and satisfactory commissioning of the modified EI with full complements as per approved IP and central railway practices. All plans and wiring diagrams shall be prepared on AUTOCAD and supplied in both soft copy and hard copies (6 sets.) Unit to be read as per Route							
8	8	1.00	Numbers	340413.14	340413.14	AT Par	340413.14	
	Description:- Supply of embedded fanless PC based Maintenance terminal/Datalogger terminal as per RDSO spec. No.RDSO/SPN/192/2019 Ver. 2.0 or latest & RDSO TAN No. - STS/E/TAN/3007 version1 dated:02.11.12 . The size of VDU shall be minimum 42 inch, LED 4K resolution.Note: One table of suitable size alongwith revolving chair should be supplied with Maintenance terminal (make Godrej/Methodex or similar of reputed make) (Insp Agency-Consignee)							
9	9	1.00	Numbers	85103.29	85103.29	AT Par	85103.29	
	Description:- Installation, wiring, testing and commissioning of embedded fanless PC based Maintenance terminal/Datalogger terminal as per RDSO spec. No.RDSO/SPN/192/2019 Ver. 2.0 or latest & RDSO TAN No. - STS/E/TAN/3007 version1 dated:02.11.12							
10	Please see Item Breakup for details.				7760122.50	AT Par	7760122.50	
	Description:- Supply of EI Hardware for OC							
11	11	1.00	Numbers	445121.54	445121.54	AT Par	445121.54	
	Description:- Installation, Wiring, Testing & Commissioning of complete Electronic Interlocking system as per RDSO specification No. RDSO/SPN/192/2019 Ver.2.0 with latest amendment with Hot Standby and latest amendments/ revision for functioning of Signalling system of OC. Unit to be read as IBH/LC GATE/AUTO HUT							
12	12	50.00	Numbers	5132.42	256621.00	AT Par	256621.00	
	Description:- Supply of Class 'D' Type lightening cum Surge protection safety device with visual indication and potential free contacts output suitable for 24V DC application as pe RDSO/SPN/172/2001 or latest. It also include transparent enclosed box. (Insp Agency- RDSO)							
13	13	50.00	Numbers	4586.48	229324.00	AT Par	229324.00	
	Description:- Supply of Class 'D' Type lightening cum Surge protection safety device with visual indication and potential free contacts output suitable for 110V DC application as per RDSO/SPN/172/2001 or latest. It also include transparent enclosed box. (Insp Agency-RDSO)							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () F-Sch F KAVACH							1320000.00	Above/ Below/Par
1	1	120.00	Numbers	10000.00	1200000.00	AT Par	1200000.00	
	Description:- Alteration in commissioned Kavach including Design and drawing for complete indoor and outdoor Kavach system for modifications in existing EI/PI/RRI at station/LC Gate/IBS/ABS installation as per revised approved SIP. Unit: Each altered Route of Kavach TOC shall be treated as one number.							
2	2	1.00	Numbers	120000.00	120000.00	AT Par	120000.00	
	Description:- Factory Acceptance Testing (FAT) and Site Acceptance Testing (SAT) before commissioning of the KAVACH system for the alteration. Unit: Each FAT & SAT testing for alteration/s in Kavach system shall be treated as one number.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () G-Schedule G Telecom Portion							276220.82	Above/ Below/Par
1	1	2.00	Numbers	26566.52	53133.04	AT Par	53133.04	
	Description:- Supply, Installation, testing and commissioning of 2x48 Fiber (SC/APCSC/ APC) FDMS including splicing of OFC and termination of all fibres using pig tail cable of standard size (All materials including pig tails (5 meter each) to be supplied by the contractor, this also includes arrangement & fixing of suitable metal box fixable in wall for spare OFC coil) Insp. By Consignee.							
2	2	2.00	Numbers	15799.40	31598.80	AT Par	31598.80	
	Description:- Supply of straight joint enclosures (SJC) complete with all accessories with latest amendments or Raychems RPG make FOSC-400-B4-A-BJL-4-H-48 or similar make only.(For 48 fiber OFC) and splicing of 2X48 F laid OFC. Insp. By Consignee							
3	3	2.00	Numbers	16323.49	32646.98	AT Par	32646.98	
	Description:- Supply of Layer-2 managed POE Switch (8 ports 10/100/1000 BASE-T ports, 2 SFP 1G uplink ports) with SFP module as per RDSO Specification No RDSO / SPN/TC/ 83/2020 Rev 2 or later. Make - D-link, HP, Cisco,Juniper or similar							
4	4	2.00	Numbers	1545.71	3091.42	AT Par	3091.42	
	Description:- Installation,testing & commissioning of L-2 POE switch 24 port & 8 port LAN manageable switch 10/100/1000 base with 4 SFP port loaded (Inspection by Consignee)							

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5	5	2.00	Numbers	2945.28	5890.56	AT Par	5890.56	
	Description:- Supply of Optical to Ethernet media converter for single mode single fiber as per RDSO specification no. RDSO/SPN/TC/103/2013 Rev.2. Make :MROTEK/RAD/ CYGNUS/DIGISOL/DLINK.							
6	6	2.00	Numbers	895.62	1791.24	AT Par	1791.24	
	Description:- Supply of RJ 45 Crimping Tool, to crimp the connectors RJ-45, RJ12 and RJ-11 of make KRONE or D Link or BestNet.							
7	7	2.00	Numbers	7979.41	15958.82	AT Par	15958.82	
	Description:- Supply of 19 inch 9 U wall mountable rack and installation of it. Accepted make HCL,APW,Rittal,President or similar.							
8	8	100.00	Metre	24.19	2419.00	AT Par	2419.00	
	Description:- supply of 06 core optical fiber cable Un-Armoured Single Mode.D-link or better. Accepted Make/Brand - "D-Link/Finolex/Sterlite"							
9	9	2.00	Numbers	4974.67	9949.34	AT Par	9949.34	
	Description:- Supply Installation & commissioning of 12 Port LIU Rack mountable. LIU should be provided for terminating the optic fiber cables. It shall provide minimum bending radius and the splice trays shall function as a splice cover for pigtail splicing. Cable glands shall be provided for secured anchoring of incoming cables. Rubber grommets shall be provided at the cable entry point for tight sealing. The splice tray shall be made of ABS materials. LIU should be of reputed make. Sample to be approved before supplying. (Inspection by Consignee).							
10	10	2.00	Numbers	2008.36	4016.72	AT Par	4016.72	
	Description:- Supply of OFC jointing kit 6 fiber with splicing & termination of fiber							
11	11	305.00	Metre	18.74	5715.70	AT Par	5715.70	
	Description:- Supply of UTP CAT-6 cable in a roll of 305 meter and make Siemen/Systemax/Panduit/Tyco/Krone/AMP. Inspection: Consignee							
12	12	100.00	Metre	95.58	9558.00	AT Par	9558.00	
	Description:- Supply of PVC switch board 20 pair 0.5mm dia. annealed copper telephone cable ,conductor solid annealed bare copper 0.5mm diameter as per Tec spec. No. GR-WIR 06/03 march 02 or latest. ACCEPTED MAKE/BRAND: NETWORK CABLES, Finolex, Delton OR SIMILAR							
13	13	50.00	Numbers	348.67	17433.50	AT Par	17433.50	
	Description:- Supply of optic fiber patch cord of 3 mtr length with connector type as per site condition for terminations/extension of ofc cables of various lenghts and connectors as per site conditions .							
14	14	50.00	Numbers	123.06	6153.00	AT Par	6153.00	
	Description:- Splicing/Dropping/Termination of each fiber/pigtail in LIU/IO BOX/Terminal Joints through fusion splicing for termination of OFC cables. The fibers terminated shall be tested and test report (hard & soft copy) shall be submitted to railways site incharge for records. each fiber shall be properly marked with necessary ferrules/tags. (Inspection by Consignee).							
15	15	50.00	Numbers	124.88	6244.00	AT Par	6244.00	
	Description:- Supply of RJ-45 UTP patch cord of 2 mtr length from krone or trendnet or D-link make or similar.							
16	16	100.00	Metre	81.49	8149.00	AT Par	8149.00	
	Description:- Supply of power cable 3 core 2.5 sqmm copper flexible any repote/Standard make. (Insp agency-Consignee)							
17	17	100.00	Metre	24.14	2414.00	AT Par	2414.00	
	Description:- Supply of PVC Rigid/Conduict pipes and its fixing accessories 25mm x 1mm thickness of Precision/PLASTO/Presto teak make or similar. Sample to be approved before supplying. (Inspection by Consignee)							
18	18	1.00	Numbers	44575.92	44575.92	AT Par	44575.92	
	Description:- Supply, installation & commissioning of 19" 42U covered racks with all accessories like electrical fitting, Fan, AC power distribution panel,Fan tray, Cable manager, Spike buster etc of HCL,APW,Rittal,President or similar make having size of approximately 2.2mtr (42U height) x 600mm widthx 600mm depth and duly approved by the enginner in charge of the work. The rack shall be complete with all fittings for housing SDH equipment, primary muxes,DDF,MDF using krone module and other equipment like runway ladders etc, completely wired & equipped with integrated protection modules for all channels as per technical specifications & other stipulation of tender document. The contractor shall provide U link Patch panel ,CAT 6 patch chords and other accessories required for installation & install them within the installation cost. It should be possible to lock all the equipment with only order wire telephone reaining outside the rack							
19	19	20.00	Numbers	141.02	2820.40	AT Par	2820.40	
	Description:- Supply of UTP I/O box single port surface mounting having one RJ-45 port from D-link or Legrant or Amp make or similar.							
20	20	20.00	Numbers	33.59	671.80	AT Par	671.80	
	Description:- Fixing of UTP I/O box as per site location and instruction of site engineer of Railways							
21	21	2.00	Numbers	1222.29	2444.58	AT Par	2444.58	
	Description:- Supply of 50 Pair Krone Termination Box complete with mounting arrangements.05 Nos of Krone Terminal modules of 10 ports each with back mount frame.Suitable to connect 0.6mm wire.Box made of MS Sheet of thicknes 0.8mm ,powdered coated,with cable entry holes and washers.Lock and Key stem.Make:KRONE / BSNL/IHT Accepted Make:- KRONE or similar							
22	22	10.00	Metre	11.45	114.50	AT Par	114.50	
23	23							

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Description:- Laying of OFC/STP/Power/data/ Telecom/PA cables in trenches & casing along with fixing of casing capping.							
23	2.00	Numbers	1327.50	2655.00	AT Par	2655.00	
Description:- 12 pair C T box (Metal Box) WAGO type with disconnection and reconnection facility suitable for termination of 0.9mm Dia quad cable. Make : epsilon or similar							
24	50.00	Metre	135.51	6775.50	AT Par	6775.50	
Description:- Cutting of wall for insertion of 1" dia PVC conduit pipe for concealed wiring, fixing hardware for fixing the conduit along with its supply and then replaster it with cement and sand mixture and then painting with matching color as per existing color of the wall proper joints in pipes, bends / elbow's / junction box are to be provided as per site requirement. (Inspection: Consignee)							

3. ITEM BREAKUP

Schedule A-Sch A SOR Supply						
Item- 1 Schedule A SOR Supply Portion						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	011040	Supply of Portable work station for Data input & configuration with necessary software/AutoCAD latest version programmes/Accessories, simulation and functional Testing, diagnostics and trouble shooting and commissioning of EI system. Suitable Table & Chair or reputed make shall be supplied by the contractor. The specifications of the PC / Laptop should be got approved from the Engineer in charge before supply. Note : Portable work station should strictly adhere to specification as per annexure-I.	Set	1.00	146679.00	146679.00
2	011070	Supply of Relay rack assembly complete with scaffolding, fixtures and accessories including MS Bars for fixing of relay plug board, string rods, fuse strips with bracket, 11 way Bus bars with cover and mounting brackets, runway for cable/wires, frame, base assembly etc. Siemens type & as per extant practice on C.Rly. Typical part list as per Annexure-II and Rack arrangement as per sketch no SK-727 and Rack plan as approved by Engineer in charge.	Set	4.00	30325.00	121300.00
3	011100	Supply of Main cable Termination rack complete with scaffolding, fixtures & accessories including square bars for mounting 8-way terminal blocks, ladder, string rods, frame, base assembly, insulators, J bolt , nut/bolts & fasteners, backelite sheet, etc. Siemens type and as per extant practice of Central Railway. Typical part list as per Annexure-III and rack arrangement shall be as per sketch No.SK-727 with latest alterations.	Set	2.00	26006.00	52012.00
4	011120	Supply of Data logger for monitoring status of important relays, complete with processor Module to monitor following inputs as per spec. RDSO/SPN/99/2006 Spec. No: IRS:S-99/2006 (Amdt-3) with latest amendments including power supply of adequate capacity, battery and fault diagnostic software for failure analysis. Complete data logger & Processor Module (computer) as per Annexure-IV shall be placed in President rack of suitable size to be supplied. This also includes supply of one no. composite computer & printer table (work station table-Godrej/Durian/Transtee) for keeping processor module and one no. Godrej/Durian/Transtee make operator chair. i)1024 digital and 32 analog inputs.	Set	1.00	572233.00	572233.00
5	011290	Supply of PVC flexible copper cable single core, multistrand 1x10 Sq.mm (80 conductor each diameter 0.40 +/- 0.01) as per IS 694/2010. with latest amendment if any with insulation thickness of 1.0 mm nominal conductor resistance 1.91 ohms/km and test parameters are as per IRS (S) 76/89 (Amd.3) or latest.	Kilometre	0.50	119222.00	59611.00
6	011320	Supply of wire 16/0.2 (Blue, Red, Grey, yellow, Brown, Black, White as per site engineer instruction) finolex/polycab/delton make. IRS:S-76/89 (Amd.3), BS: 4808 Part-2. Wire to be procured from RDSO approved vender.	Kilometre	1.00	5605.00	5605.00
7	011330	Supply of low maintenance Lead Acid secondary cells 2V 80AH as per spec. IRS 88/2004 version 1.0 with latest amendments.	Numbers	80.00	1645.00	131600.00

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8	011640	Supply, installation, wiring, testing & commissioning of Microcontroller based Power Supply Autochangeover device complete along with accessories using Contractor's own wiring & fixing material as per following configuration- (i) Power Supply - AC/DC. (ii) Voltage 24V to 150V. (iii) Current Up to - 45Amp. Note: The work shall be done as per instructions of Railway's Engineer in-charge	Numbers	12.00	31274.00	375288.00
9	011870	Supply of QNA1 AC immunized relay, 8F-8B, 24 VDC along with plug, board, retaining clip and connectors conforming to BRS:931A,IRS:S60/78 with Amendment no.1 , IRS:S34/68 with Amendment no.6 & IRS:S23/88 with Amendment no.1	Numbers	40.00	3359.00	134360.00
10	011880	Supply of QN1 Non AC immunized neutral relay, 8F-8B, 24 VDC along with plug, board, retaining clip and connectors conforming to BRS:930, IRS:S60/78 with Amendment no.1 , IRS:S34/68 with Amendment no.6 & IRS:S23/88 with Amendment no.1	Numbers	40.00	3507.00	140280.00
11	011890	Supply of QN1 Non AC immunized neutral relay, 12F-4B, 24 VDC along with plug, board, retaining clip and connectors conforming to BRS:930,IRS:S60/78 with Amendment no.1 , IRS:S34/68 with Amendment no.6 & IRS:S23/88 with Amendment no.1	Numbers	40.00	3876.00	155040.00
12	011910	Supply of QSPA1 relay, 24 V DC Slow to pick up, 8F-4B along with plug, board, retaining clip and connectors conforming to BRS:933 IRS:S60/78 with Amendment no.1 , IRS:S34/68 with Amendment no.6 & IRS:S23/88 with Amendment no.1)	Numbers	20.00	3678.00	73560.00
13	011920	Supply of QTA2 AC immunized track relay, 9 Ohm, 2F.1B, along with plug, board, retaining clip and connectors conforming to BRS:939A, 966 & Appendix F2, IRS:S34/68 with Amendment no.6 & IRS:S23/88 with Amendment no.1)	Numbers	20.00	3241.00	64820.00
14	011940	Supply of Universal LED Lamp proving relay QECX61 relay, 4F-4B, AC conforming to BRS:941A STS/E/RELAYS/AC LIT LED SIGNAL/09-2002, Amdt.-1 (FOR ALL ASPECT ECR FOR AC LED SIGNAL)	Numbers	30.00	3317.00	99510.00
15	011960	Supply of QBCA1 AC immunized relay, 2FHD 4F-4B, 24VDC along with plug board, retaining clip and connectors conforming to BRS:943 POINT CONTACTOR RELAY. And RS S46/74 with Amendment No.1 & firms specification.	Numbers	12.00	4062.00	48744.00
16	011970	Supply of QL1 LATCH relay, 11F-4B or 8F-6B along with plug board, retaining clip and connectors conforming to BRB:935A.	Numbers	6.00	4006.00	24036.00
17	012020	Supply of Key Lock Relay working on 24V DC, AC immunized with different ward combinations (Three ward plates to be supplied with each relay). RDSO/SPN/219/2016 Version 1.0 with Amendment No.01.	Numbers	5.00	6059.00	30295.00
18	012030	Supply of QNA1K relay 1000 ohm, 6F/6B 24V DC as per BRS :931A, IRS:S60, IRSS354 & IRS:S23 and RDSO Spec. STS/E/Relays/UEA (PI) dtd.30.05.1997 Annexure II (IRS:S60/78 with Amendment no.1 , IRS:S34/68 with Amendment no.6 & IRS:S23/88 with Amendment no.1)	Numbers	30.00	3415.00	102450.00
19	012040	Supply of Relay & plug board QN1 / 50V/ 8F-8B Metal to carbon DC neutral-BRS:930,IRS:S60/78 with Amendment no.1 , IRS:S34/68 with Amendment no.6 & IRS:S23/88 with Amendment no.1	Numbers	80.00	4504.00	360320.00
20	012370	Resin cored wire as per specification No.IS:1921-1975 with Alloying element percentage as 63% SN (Tin) nd / 37% Pb (Lead) with percentage of various impurities not exceeding the values Sb (Antimony 0.2% maximum, Cu (Copper) 0.1% maximum, As (Arsenic) 0.05% maximum, Fe (Iron) 0.02% maximum & other impurities mainly Al, Zn & Cd shall be limited. The flux shall be free from corrosive action as per clause 5.2 & flux percentage may be used as per requirement.	Kg	2.00	1078.00	2156.00
21	012380	Lacing thread rolls, black, wax coated (100 mtrs)	Numbers	100.00	57.00	5700.00

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22	012400	Design, fabrication and supply of fuse Auto changeover system for 32 Nos external non detorating type fuses or 'G' type fuses from 0.6A Amp to 4A Amp capacities used in signaling circuits. System shall have 8 cards with monitoring arrangement of 4 fuses in one card. As per RDSO spec. RDSO/SPN/209/2012 Ver.2.0 or latest amendment if any.	Each Module	5.00	23147.00	115735.00
23	012430	Supply of Main signal post 140 mm outer dia 3.6 Mtr Length as per spec No.IRS S 6/81 with latest amendments.	Numbers	10.00	5908.00	59080.00
24	012460	Supply of Shunt signal post with Base (GI Pipe of 80 mm Dia of min. 1 meter length.)	Numbers	4.00	2650.00	10600.00
25	012470	Supply of Cast Iron Main signal surface base 140mm as per spec No IRS: S-10 and Drg No 2011/M with latest amendments, with CLS Ladder assembly complete for CLS signal 5.5/4.5/3.5 mtrs long as per RDSO Drg no. SA 23156 (Adv), SA 23153 (Adv) & SA 23150 (Adv) Alt.1 respectively with Latest Amendment as the case may be for CLS unit & signal back staging as per extent C.Rly practice.	Numbers	10.00	7944.00	79440.00
26	012490	Supply of Signal No.Plates as per Drg No RST-11393/SK-842	Numbers	14.00	447.00	6258.00
27	012500	OFF set bracket 5-1/2" to suit 140 mm dia CLS Post with two no. of "U" Bolts with nut & washer complete as per RDSO Drg No SA-23080 for signals & Routes.	Numbers	2.00	821.00	1642.00
28	012510	OFF set bracket 3-1/2' for signals & Routes. Drawing No.SA23840(Adv) Alt-2 as per extent C.Rly practice.	Numbers	6.00	4129.00	24774.00
29	012520	Supply of A/AG/C/P/G/IB Board as per Drg. RST-11444/1(A), RDSO Drg No SA-23460(AG), SA-23461(C), RST-11445, SA 23456(P), SA 23477(G) & SA 23476-77 (IB) as applicable respectively with Latest Amendment.	Numbers	10.00	476.00	4760.00
30	012530	Supply of Stop Board / IB Board as per RST-11791 (STOP BOARD)/ RDSO Drg No 7235/B as per extent C.Rly practice.	Numbers	5.00	2763.00	13815.00
31	012540	Supply of different warning Board as per Goods warning Board (SK-784) RDSO Drg No. SA 2380 (Adv), SA 2370/M-, Block section limit Board RDSO Drg No. SA 2373 - Paint and retroreflective arrangement as per Railways drawing.	Numbers	5.00	2795.00	13975.00
32	012550	Supply of Hand Cuff Locks / Godrej Navtal lock with Three common keys.	Numbers	50.00	245.00	12250.00
33	012560	Supply of "2 aspect" Signal Unit in FRP body without lenses and transformers as per RDSO Specification RDSO/SPN/194/2006/Rev.2.0 or latest complete and to suit LED signal Lamps and suitable for 140 mm dia post saves pigment finish on the back side of the and inside. white pigment finish inside the 2 aspect unit to avoid any extra paint cost	Numbers	4.00	25824.00	103296.00
34	012570	Supply of "3 aspect" Signal Unit in FRP body without lenses and transformers as per RDSO Specification RDSO/SPN/194/2006/Rev.2.0 or latest complete and to suit LED signal Lamps and suitable for 140 mm dia post saves pigment finish on the back side of the and inside. white pigment finish inside the 4 aspect unit to avoide any extra paint cost	Numbers	2.00	26638.00	53276.00
35	012580	Supply of "4 aspect" Signal Unit in FRP body without lenses and transformers as per RDSO Specification RDSO/SPN/194/2006/Rev.2.0 or latest complete and to suit LED signal Lamps and suitable for 140 mm dia post saves pigment finish on the back side of the and inside. white pigment finish inside the 4 aspect unit to avoid any extra paint cost	Numbers	2.00	34638.00	69276.00
36	012590	Supply of Shunt Signal Position Light Type FRP complete as per RDSO Specification RDSO/SPN/194/2006/Rev.2.0 or latest with Off set bracket 3-1/2" to be fitted on 140 mm post drawing No.SA23840(Adv) Alt-2 for dependent type complete with signal unit bracket, terminals etc without lenses, lamp, lamp holder, and to suit LED signal lamps.	Numbers	10.00	11731.00	117310.00

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37	012600	Supply of 1 way junction Route Indicator in FRP body without lenses and transformers as per RDSO Specification RDSO/SPN/194/2006/Rev. 2.0 or latest complete and to suit LED signal Lamps	Numbers	1.00	29381.00	29381.00
38	012610	Supply of 2 way junction Route Indicator in FRP body without lenses and transformers as per RDSO Specification RDSO/SPN/194/2006/Rev. 2.0 or latest complete and to suit LED signal Lamps	Numbers	1.00	36469.00	36469.00
39	012620	Supply of 3 way junction Route Indicator in FRP body without lenses and transformers as per RDSO Specification RDSO/SPN/194/2006/Rev. 2.0 or latest complete and to suit LED signal Lamps	Numbers	1.00	38672.00	38672.00
40	012630	Supply of 4 way junction Route Indicator in FRP body without lenses and transformers as per RDSO Specification RDSO/SPN/194/2006/Rev. 2.0 or latest complete and to suit LED signal Lamps	Numbers	1.00	38485.00	38485.00
41	012640	Supply of "Calling On" Signal Unit in FRP body without lenses and transformers as per RDSO Specification RDSO/SPN/194/2006/Rev. 2.0 or latest complete and to suit LED signal Lamps	Numbers	2.00	7154.00	14308.00
42	012650	Supply and Fixing of RE Protective Screens of expanded metal 12 SWG of size 1200 x 1500 mm on signals as per extent practice & as per instruction of Rly engineer at site DRG - No.SK-844	Numbers	5.00	4381.00	21905.00
43	012660	Supply of Phenolic 10mm thick sheet, grade P3 in standard size of 1.22x1.22 Mtr as per spec. No. IS 2036 of 1995.	Numbers	10.00	4649.00	46490.00
44	012670	Supply of FIBRE GLASS INSULATING FIRE RETARDENT SHEET OF 10 MM THICKNESS AS PER ISO: 10192-1982, Dielectric strenth -25KV/mm with glass content 25 to 34% in standard size of 1.10x1.10 Mtr as per spec. No.IS:10192-1982	Numbers	20.00	5065.00	101300.00
45	012680	Supply of ARA Terminal blocks with links made of PBT Specn No.IRS/75/2006 (Rev - 2) with latest amendments and RDSO Drg.No.SA-23741A Alt.4., SA-23745 Alt.5, SA-23746, SA-23748 Alt.4, & SA-23756 Alt.3.	Numbers	8000.00	65.00	520000.00
46	012690	Supply of cartridge fuse block made of PBT as per RDSO Drg No SA-23748 Alt 4, SA-23749 & Spec No.IRS S 75/2006 Rev.02 with latest amendment. Fuse block shall be suitable for round head type voltage fuses.	Numbers	100.00	144.00	14400.00
47	012700	Supply of round head type non deteriorating type low voltage cartridge fuse as per specn No. IRS/S/78/92 with latest amendments - 2A/4A/6A capacity	Numbers	400.00	62.00	24800.00
48	012730	Supply of Lamp 110V / 24W, 2 pin for Loc.	Numbers	500.00	20.00	10000.00
49	012740	Supply of Apparatus case with godown locks with detachable handle on both the doors.a) Single Case as per Drg No SK 783-1 & 2. with latest alteration.	Numbers	10.00	14252.00	142520.00
50	012750	Supply of Apparatus case with godown locks with detachable handle on both the doors. b)Half Case as per Drg No SK 783-1 & 2. with latest alteration.	Numbers	4.00	11287.00	45148.00
51	012760	Supply of earth electrode assembly as per Drg.No.CR/S&T/SK-815	Numbers	28.00	951.00	26628.00
52	012770	A CLASS EARTHING - Supply of ESR ALTEC TERRA STREAMER Lightning Arrestr with SS adaptor (TSP30, 50 Mtr. Radius) SPN : NFC-17-102-2011.	Set	1.00	51446.00	51446.00
53	012780	Supply of FRP mast with GI Mast (FRP mast at top minimum 1.5 Mtr. along with GI mast 3 Mtr.) Total 4-5 Mtr. std mast required for mounting the terminal & adaptor to mount the Air terminal with coupler / reducer. Multi strand stray wires, joints, clamps & accessories. as per IS 2309:1989.	Numbers	1.00	7985.00	7985.00
54	012790	Supply of Test Link joint kit in a IP65 weather proof enclosure of suitable dimension and approved make & design.	Numbers	1.00	2054.00	2054.00
55	012800	Supply of Lightning strike recorder LSC 6 digit shall be weather proof type. It should have 6 digit event count & the capacity to count smallest strike (3KA). It should be voltage sensing type counter. So that it will register nearby strikes & static discharge due to induction effect. as per IS 2309:1989.	Numbers	1.00	12067.00	12067.00

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56	012820	Supply of Down conductor (recommended : 70 Sqmm 19 strand copper insulated cable for lightning current dissipation to earth with necessary fixing clamp, connector accessories etc.)	Numbers	20.00	367.00	7340.00
57	012850	Maintenance Free Earth as per RDSO/SPN/197/2008 or latest consisting of : 1) Copper bond steel electrode 3 Mtr long 17mm dia with copper bonding thickness of min. 250micron & UL listed & marked-01 No. (2) Earth enhancement compound RDSO Approved in sealed bag of 10 kgs - 03 No. (3) Copper strip 150 x 25 x 6mm - 02 No (4) Copper Strip 300 x 25 x 6mm- 01 No (5) 35 Sqmm Copper Cable to connect earth electrode to MEEB - 15Mtr Approx.	Set	20.00	15671.00	313420.00
58	012870	Supply of copper Tape 25x6 mm (Bonding ring conductor) mounted on insulated standoff (1 round).	Metre	80.00	711.00	56880.00
59	012890	Supply of Microprocessor based universal earth resistance sensing unit 12 channel AC/DC. As per RDSO/SPN/256/2002 with latest amendments.	Numbers	1.00	118645.00	118645.00
60	012900	Supply of Track Lead junction Boxes as per C.Rly Drg.No.RST 11509 made from fiber glass alongwith terminal blocks.	Numbers	40.00	878.00	35120.00
61	012910	Supply of B type choke to specn.No.IRS.S.65/83 (Amd.3) with latest amendments.	Numbers	20.00	3099.00	61980.00
62	012920	Supply of adjustable Track Feed Resistance disc type 7.5/15/30 ohms as per RDSO Drg. No. SA 20161-66/M (Adv) with latest amendments (with phenolic moulded base).	Numbers	20.00	1089.00	21780.00
63	012930	Supply of Track feed battery chargers, 110V AC input 2, 4 to 6 V DC Output to Specn. No.IRS.89/2013 Ver.1.0 with latest amendments. Charger shall be suitable for charging 80 AH battery.	Numbers	20.00	2001.00	40020.00
64	012940	Supply of Channel Pins single groove, galvanised, 7 mm suitable for 4mm dia bonding wire as per spec No. IRS: S 17-75 Revision 3.	Numbers	5000.00	2.00	10000.00
65	012950	Supply of PVC jacketed wire rope for Track lead connections. PVC jacketed wire rope should be of Galvanised steel wire rope 6mm dia (6x19 stranded wire with steel core of 6 mm dia) sheathed with PVC 2mm wall thickness, overall thickness being 10 mm. PVC sheath should be made of type 6 compound as per IS 5831 of 1984 Reaffirmed 2001 and steel wire rope as per IS: 2266:2019. Reclaimed for recycled material should not be used.	Metre	3000.00	46.00	138000.00
66	012960	Supply of 8 SWG GI wire (4mm dia) suitable for track circuit rail bonding. As per IRS Specification S:13-62	Kg	2000.00	75.00	150000.00
67	012970	Supply of Hydrometer, Exide make similar for measuring specific gravity of Battery Graded acid with mounting stand in location Boxes. Consignee inspection under manufacturer certificate.	Numbers	100.00	242.00	24200.00
68	013020	Supply, Installation, testing and commissioning of track battery charger monitoring system for 2V/4V/6V/8V batteries with accessories at nominated stations. General scheme to be approved by Engineer-in-charge.	Numbers	20.00	1407.00	28140.00
69	013030	Supply, installation, testing and commissioning of remote indication unit along with all accessories for above item.	Numbers	1.00	984.00	984.00

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70	013110	Supply of Digital Axle counter Multi section type complete system including the central Evaluator and final track clearance relay for each section, Reset boxes, LV boxes, All track side units with detection point complete assembly & fixing arrangement for each detection point, clamps deflector for either side of each detection points, monitoring console for monitoring all the DPs at a time installed at a station/RH/IBH etc. with all other accessories fully wired and fully equipped as per RDSO specification No.RDSO/SPN/176/2013 (ver.3) or latest and manufacturers specification. The equipment must also include the following: a) System must have remote monitoring and health diagnostics feature as per RDSO specification. b) Surge protection device, c) 20% spare slots for the both detection heads and track section in the evaluator for future and emergency provision. Each set also consisting of a) Double rail contact of standard length of cable as per site requirement and mounting accessories - Equal to no. of DP. b) Deflectors to safe guard Rail contact will be TWICE the no. of DPs. c) Protecting tube from DP to railhead as per requirement. d) Diagnostic PC as per specification and other accessories (as per Annexure-VI) e) Pre-wired cabinet/rack - No. as per site requirement. f) 6 nos. Electrostatic Discharge Wrist Band for cards/modules protection.	Per Detection Point (DP)	10.00	288366.00	2883660.00
71	013230	Supply of GI pipe, inner dia. 100mm dia. B-class as per spec. No.IS 1239 PT. 1/2004 or latest with sockets and fittings. TATA/JINDAL/ZENITH BIRLA make.	Metre	120.00	908.00	108960.00
72	013240	Supply of DWC HDPE pipe with one snap fit coupler and 'O' ring fire resistant, anti rodent, in 6 meter length of size 120 mm outer dia as per RDSO/SPN/204/2011 Ver 1.1 with Amd.1 or latest.	Metre	120.00	288.00	34560.00
73	013290	Supply of RCC pipes half round of size 300 mm dia outer and 250 mm dia internal 1 mtr long matching to IS No.458/2003 amendment-1 with Rev.4.	Numbers	2000.00	365.00	730000.00
74	013300	SUPPLY OF "C" CHANNEL CLAMPS with nut bolts, washers and all type fixures for 6 inch dia pipe to be fixed on GIRDERS, on rock cuttings etc. as per DRG No.-SK-900	Numbers	25.00	1867.00	46675.00
75	013310	Supply of modular terminal block of 2.5 sq. mm 2 IN 2 OUT type disconnect type terminal along with as per RDSO SPN/189/2004 Rev 3.0. The current capacity of 16 Amps and more. The terminal should have marking at centre to view description from front. Material to be procured from RDSO approved firms only.	Numbers	2000.00	100.00	200000.00
76	013320	Supply of DIN Channel for the terminals 1 Mtrs each	Numbers	24.00	187.00	4488.00
77	013330	Supply of End plates for modular terminal block	Numbers	167.00	20.00	3340.00
78	013340	Supply of End Clamp for modular terminal block	Numbers	190.00	15.00	2850.00
79	013350	Supply of Marker Card as per customer spec (10x10)	Numbers	24.00	71.00	1704.00
80	013400	Operating tool (operating tool, screw driver & stripper) as per Annexure-VII.	Numbers	1.00	7266.00	7266.00
81	013420	Supply of Digital measuring wheel for measuring cable trench/route make: Stanley or Freemans make or similar reputed make.	Numbers	2.00	3856.00	7712.00
82	013450	Supply of Thermo-Shrink cable joining kit (Reinforced) TSF-2 type generally confirming to RDSO specification RDSO/SPN/TC/57/2015 Rev 1 with modified kit contents as per CSTE's Specification No.:CR/SPN/TC/57 (A)/2015 Dt: 06.01.2015 (Table-A) to be suitable for jointing both 10/20/50 pair PIJF and 4/6 Quad cables alongwith sub-kit (Table-B) for armour continuity.	Numbers	4.00	2710.00	10840.00
83	013560	Supply of Paints as per relevant IS specification preferably Asian / Apcolite/ Dulux make in different colour in one kg/2 kg pack	Kg	400.00	306.00	122400.00

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84	013600	Supply of 4.5 kg CPO2 type fire extinguisher along with all accessories, extinguisher testing certificate has to be supplied along with - Supply of ISI marked Carbon Dioxide type (BC) fire extinguisher of 4.5 Kg capacity confirming to IS 2878: 2004 from seamless cylinder, with ISI marked control value, high pressure mtr., Long discharge hose and horn complete with initial gas charged with carrying handle and wall mounting bracket etc. as required by site Engineer.	Numbers	10.00	4321.00	43210.00
85	013610	Supply, Installation, Testing & Commissioning of Microprocessor based intelligent, addressable, Fire Alarm control Panel with LCD display complying to RDSO/SPN/217/2025 Ver 3.1 or latest modular, 1 loop (minimum 125 detector/devices per loop-expandable to 2 loops) with 320 Character with soft keys for displaying alarm, events and operating functions, Day/Night operation function, Remote maintenance service feature etc. The panel should be multi-protocol i.e. able to support at least 2 different makes of addressable detectors. The panel should have minimum two relay outputs & 1 Monitored Sounder Output. It should have provision to be connected to repeater panels in future. The panel shall capable to operate on 230 volts AC power supply, automatic battery charger, 24 volts, sealed lead acid maintenance free batteries sufficient for 24 hours normal working and then be capable of operating the system for 30 minutes during emergency condition. Panel should be Vds Certified.	Numbers	1.00	55467.00	55467.00
86	013620	Supply, Installation, Testing & Commissioning of Analogue Addressable Multisensor Detector complying to RDSO/SPN/217/2025 Ver 3.1 or latest. As per latest VDS approved/Listed.	Numbers	12.00	2748.00	32976.00
87	013630	Supply, Installation, Testing & Commissioning of Manual call points, complying to RDSO/SPN/217/2025 Ver 3.1 or latest. As per latest VDS approved/Listed.	Numbers	1.00	4313.00	4313.00
88	013640	Supply, Installation, Testing & Commissioning of Resettable, Analogue Type Liner Heat Sensing (LHS) Cable complying to RDSO/SPN/217/2025 Ver 3.1 or latest. As per latest VDS approved/Listed.	Metre	50.00	1167.00	58350.00
89	013650	Supply, Installation, Testing & Commissioning of LHS Interface Module with all accessories for single stretch, complying to RDSO/SPN/217/2025 Ver 3.1 or latest. As per latest VDS approved/Listed.	Numbers	1.00	110725.00	110725.00
90	013660	Supply, Installation, Testing & Commissioning of Aspiration (Air Sampling Type) Detection unit complying to RDSO/SPN/217/2025 Ver 3.1 or latest. As per latest VDS approved/Listed.	Numbers	1.00	222716.00	222716.00
91	013670	Supply, Installation, Testing & Commissioning of CPVC pipe for Aspiration Detection system complying to RDSO/SPN/217/2025 Ver 3.1 or latest. As per latest VDS approved/Listed /approved by UL or FM or VDS or LPCB or tested with appropriate equivalent standard.	Metre	50.00	1320.00	66000.00
92	013680	Supply, Installation, Testing & Commissioning of Analogue Addressable loop powered Monitor Module with inbuilt isolator complying to RDSO/SPN/217/2025 Ver 3.1 or latest. As per latest VDS approved/Listed.	Numbers	2.00	7151.00	14302.00
93	013690	Supply, Installation, Testing & Commissioning of Analogue Addressable loop powered Control Module complying to RDSO/SPN/217/2025 Ver 3.1 or latest.	Numbers	2.00	7151.00	14302.00
94	013700	Supply, Testing & Commissioning of Hooter cum strobe complying to RDSO/SPN/217/2025 Ver 3.1 or latest.	Numbers	1.00	6394.00	6394.00
95	013710	Supply, Testing & Commissioning of 2C 1.5 sq mm twisted shielded armoured copper cable (Per Meter) with accessories complying to the RDSO/SPN/217/2025 Ver 3.1 or latest.	Metre	50.00	94.00	4700.00
96	013720	Supply, Testing & Commissioning of Isolator Device to isolate the circuit in case of short circuit, complying to the RDSO/SPN/217/2025 Ver 3.1 or latest.	Numbers	2.00	3071.00	6142.00

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97	013900	Supply of Permanently Lubricated HDPE Telecom duct of size 50/42 mm and accessories as per latest Specification TEC GR No. GR/TX/CDS-008/03March 11 with latest amendment" for OFC cable of size 24 fibre armoured in length of 1000 mtr/roll. Duct to be supplied from TEC approved sources.	Kilometre	3.00	63534.00	190602.00
98	013910	"Supply of 24 fibre straight joint closure (SJC) complete with all accessories as per RDSO Spec. No. RDSO/SPN/TC/68/2014 Revision 1.0 and as per or TEC Spec. G/OJC/02/02 Sept 2003 or latest of Raychem make model FOSC 400 B4 24F or TVS ICS make model 1500-L1 83-XX or Birla VXL make model VT-200 or 3M make model 2179 CD."	Numbers	4.00	3113.00	12452.00
99	013920	Supply of High Density Polyethylene Pipes (HDPE) of 110 mm OuterDia, 10 mm Wall Thickness, along with one coupler for every 6 Meters as per specification No. IS 4984: 2016 with latest amendments and Material Grade:PE 100	Metre	1650.00	440.00	726000.00
					Total	11314759.00
Schedule Schedule B-Sch B SOR Execution						
Item- 1 Schedule B SOR Execution Portion						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	011040	Installation of Relay Rack Assembly including IDF pillars if any complete with wall supports, scaffolding, ladders, runway for cables, Relay/Relay group base plates, fixing of Tag blocks etc. The work shall be done as per approved plan, extant practice on C.Railways & the instructions of Rly engineer at site.	Numbers	4.00	1258.00	5032.00
2	011050	Installation of Cable Termination Rack Assembly complete including wall supports, scaffolding, Disconnecting links/ARA terminal, 96 way tag block with tag block cover & other necessary accessories etc. The work shall be done as per approved plan, extant practice on C.Railways & the instructions of Rly engineer at site.	Numbers	2.00	1024.00	2048.00
3	011070	Installation, wiring, testing and commissioning of Data logger complete along with accessories with contractors own wiring & fixing material as per following configuration. (It includes loading of NETWORKING software and networking of data logger. The requisite communication cable/channel for networking will be arranged by Railway. i) 1024 digital & 32 analog inputs	Set	1.00	15627.00	15627.00
4	011110	Charging of 2V Lead Acid Batteries with contractors own battery grade sulphuric acid and distilled water with minimum two charge - discharge cycles, installation of charged batteries in groups & their connection & wiring. The work shall be done as per extant practice of C.Rly & instruction of Engineer-in-charge. Detailed measurements of initial charging shall be recorded jointly by contractor & Rly's site-in-charge. Unit(Per 100 VAH=1 set)	Set	128.00	58.00	7424.00
5	011120	Installation of LT Power panel/power distribution panel/Auto Changeover Panel, power supply equipments such as Rectifiers Transformers, Battery chargers etc., 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 to be supplied by Rlys, lugs & glands to be supplied by contractor.	Lot	1.00	20768.00	20768.00
6	011270	Wiring, fixing & commissioning of modules of fuse 0.6 to 4 Amp rating alarm system having change over arrangement and potential free contact wiring at Datalogger IDF. Etc as per instructions of Railway Engineer. (Module of 32 nos fuses)	Each Module	5.00	537.00	2685.00

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7	011290	Lettering & Numbering of detail and description writing of particulars of terminations & equipments on relay rack, relays, cable termination rack, battery & power equipment, IPS, operating panel, axle counter etc constituting entire system with contractor's own paint and writing material ("Asian/Dulux" make enamel paints to be used). The work shall be done as per extant practice on C.Rly & instruction of Rly engineer at site.	Rack	6.00	290.00	1740.00
8	011310	Preparation of cable route plan, cable coreage plan, location particulars, cable termination rack particulars, cable meggering report, earth resistance particulars, Traction bonding diagram, 1/2 wire count sheet and any other drawing in Autocad in A3/A4 size. The contractor shall initially supply 3 sets of circuits complete for approval of Railways. Railways will return one set to the contractor duly approved with alteration/corrections if any. The contractor shall incorporate Railways alterations/corrections in the tracings without any deviation and submit all tracings complete in all respects to the Railways. This includes submission of final cable route plan as per laid cable duly measured at every 30m clearly indicating distance of laid cable from fixed point of reference & indicating all track crossings and tail cables. This also include designing of cable coreage plan based upon I.P. in consultation with engineer-in-charge.(ii) For small/medium yards (<=100 routes)	Lot	1.00	19613.00	19613.00
9	011370	Excavation and Casting of main signal foundation as per Drg No SK 801 with contractor's own materials including cement and 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.	Numbers	10.00	7537.00	75370.00
10	011380	Excavation and Casting of Shunt signal foundation as per Drg No SK 802 with contractor's own materials including cement and 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.	Numbers	4.00	2043.00	8172.00
11	011390	Erection of CLS post with surface base and signal unit on top or on OFF set Bracket, fixing of front and back staging, ladder and guards, signal name plates/boards if any with contractors own brackets and fixing materials. This also includes erection of auxiliary signals like calling on, shunt signal if any. The work shall be done as per instructions of Rly engineer at site.	Numbers	10.00	2841.00	28410.00
12	011400	Erection of shunt signal with surface base, post, signal unit and fixing of No. plates. The work shall be done as per instructions of Rly engineer at site.	Numbers	4.00	371.00	1484.00
13	011410	Fixing of Jn. Route Indication 1-way/2-way/3-way on the top of the signal post.	Numbers	4.00	608.00	2432.00
14	011420	Fixing of stop Board, Block section limit Board, goods warning board with contractors own material. The work shall be done as per instruction of Rly engineer at site.	Numbers	10.00	435.00	4350.00
15	011430	Termination of tail cable on Main signal units and wiring with contractor own material etc. The work shall be done as per instruction of Rly engineer at site.	Numbers	10.00	900.00	9000.00
16	011440	Termination of tail cable on Shunt signal units and wiring with contractor own material etc. The work shall be done as per instruction of Rly engineer at site.	Numbers	10.00	273.00	2730.00
17	011470	Installation on ON/OFF aspect LED's in signal including termination of tail cable on signal, wiring fixing of LED units and testing. The work shall be done as per instruction of Railway engineer at site.	Numbers	25.00	406.00	10150.00

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18	011490	Fabrication and fixing of phenolic laminated/Fibre glass sheet in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated/with PVC pipe covered string rods at the back side for cable support with contractor's own materials. The work shall be done as per drg and arrangement similar to SK 783- 1& 2. with latest alterations & as per instructions of Rly engineer at site. a) Single Case	Numbers	10.00	1942.00	19420.00
19	011500	Fabrication and fixing of phenolic laminated/Fibre glass sheet in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated/with PVC pipe covered string rods at the back side for cable support with contractor's own materials. The work shall be done as per drg and arrangement similar to SK 783- 1& 2. with latest alterations & as per instructions of Rly engineer at site. b)Half Case	Numbers	4.00	1647.00	6588.00
20	011510	Fixing of cutting in relay bases & wiring of relays with Contractors own material obtained from approved sources in location box as per the instructions of Engineer in charge.	Numbers	20.00	462.00	9240.00
21	011520	Fixing of ARA Terminals 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.	Per Conductor	8100.00	12.00	97200.00
22	011540	Excavation and Casting of Apparatus case foundation with contractors Anchor bolts, cement, ballast and other materials. The required scaffolding ferma etc for Casting of foundation will have to be brought by the contractor at his own cost. i) Single Case as per Drg No SK-803	Numbers	10.00	8500.00	85000.00
23	011550	Excavation and Casting of Apparatus case foundation with contractors Anchor bolts, cement, ballast and other materials. The required scaffolding ferma etc for Casting of foundation will have to be brought by the contractor at his own cost. ii)Half Case as per Drg No SK-804	Numbers	4.00	8024.00	32096.00
24	011560	Erection of Apparatus cases. This includes filling of location foundations and plastering .i)Single Case	Numbers	10.00	945.00	9450.00
25	011570	Erection of Apparatus cases. This includes filling of location foundations and plastering. ii)Half Case	Numbers	4.00	703.00	2812.00
26	011580	Installation of Eqpt. (Relays, resistance, chargers batteries etc. as applicable) & wiring of the same in apparatus cases as per location diagrams & circuit diagrams, as per Instruction of site incharge and practice. i) Single Case	Numbers	10.00	1266.00	12660.00
27	011590	Installation of Eqpt. (Relays, resistance, chargers batteries etc. as applicable) & wiring of the same in apparatus cases as per location diagrams & circuit diagrams, as per Instruction of site incharge and practice. ii)Half Case	Numbers	4.00	830.00	3320.00
28	011600	Installation of earth electrode assembly as per Drg.No.RE/S&T/SIG/Tender/SK726/85 including earth wire connected through GI wire 8 SWG supported on M.S. flat of size 6mm x 40 mm to earth electrode as per drg. No.CR/S&T/SK-815 for sigg. Equipment such as lever frames, apparatus case, signals, relay racks, block instruments, and etc. as per RE manual. The earth value should be less than 10 Ohms including the lead wire. The value should be measured in presence of Rly. supervisor. It should be documented and painted on earth enclosure made of concrete.(only earth electrode will be supplied by Railway). All other material required for provision of earthing will be brought by the contractor.	Numbers	28.00	2088.00	58464.00
29	011610	Installation & commissioning A-Class Lighting protection complete include base plate with base mast & accessories SPN: NFC-17-102-2011 and as per IS 2309:1989.	Station	1.00	14463.00	14463.00
30	011620	Fabrication, supply and fixing of various type of MS flat clamps on girder bridges/rocky area on GI pipes/its coupler as per drawing with requisite no. of nut and bolts as per site requirement and as per the instructions of Railway Engineer at site.	Kg	10.00	144.00	1440.00

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31	011630	Installation, testing and commissioning of the Ring Earth as per RDSO specification No.RDSO/SPN/197/2008 or latest amendment and RDSO drawing no.SDO/RDSO/E&B/001 and 002. All the consumables for mounting the copper tape/bus bar, copper lugs with stainless steel nut and bolts, copper bus bar etc. will be supplied by the contractor free of cost. Material to be procured from the RDSO approved vendor.	Set	1.00	13955.00	13955.00
32	011640	Installation of unit earth as per RDSO/SPN/197/ver I or latest, to construct earthing of ≤ 1 Ohm consisting of a digging the earth to required depth, insertion of electrode, filling of earth enhancing compound & construction of chamber, measurement of earth value and all other work of earthing as per code of practice. All the consumables for mounting the copper tape inside the relay room, Exothermic weld materials and tools & fixtures for the welding copper tapes and Electrodes etc shall be arranged by the contractor.	Set	20.00	4382.00	87640.00
33	011660	Installation of 25x6 mm copper tape (bonding ring conductors) mounted on insulated standoffs (1 round).	Metre	80.00	174.00	13920.00
34	011680	Installation, wiring, testing and commissioning of Microprocessor based universal earth leakage detector unit 12 channel AC/DC.	Numbers	1.00	5783.00	5783.00
35	011690	Erection, Fitting and Rail connection of Track Lead junction Box on two supports (M.S.angle) with contractor's fixing material and PVC jacketed wire for track lead connection including angles of size 40x40x5mm 1200mm length. This will include drilling of holes for track lead/side connections of rail. The work shall be carried out as per Drg. No.SK-845 or / & instructions of Rly engineer at site.	Numbers	40.00	1012.00	40480.00
36	011700	Provision of bounding with contractor's PVC jacketed wire rope for Track Lead connections. PVC jacketed wire rope should be of Galvanised steel wire rope 6 mm dia (6x19 stranded wire with steel core of 6mm dia) sheathed with PVC 2mm wall thickness, overall thickness being 10 mm. PVC sheath should be made of type 6 compound as per IS 5831 of 1984 Reaffirmed 2001 and steel wire rope as Per IS:2266:2019. Reclaimed or recycled material should not be used. This will include drilling of 7.1mm dia holes in rails (4 Nos) and provision of two jumpers for each bond, clipping of bonds etc. with contractors own materials and tools as per instruction of Rly engineer at site.	Numbers	500.00	134.00	67000.00
37	011710	Provision of bounding with GI wire 4mm dia (8 SWG) for track jumper & fish plate joints bonds. This will include drilling of 7.1mm dia holes in rails (4 Nos) and provision of two jumpers for each bond, clipping of bonds etc. with contractors own tools as per instruction of Rly engineer at site.	Numbers	800.00	122.00	97600.00
38	011810	Installation of EJB and Track devices of Digital Axle counter including digging of trench, drilling of holes, if required on rail, laying of Doubled walled antirodent corrugated pipe, Medium class from track device to location box and making its terminations. (DWC pipe made up of High density polyethylene of 60mm outer dia of suitable length and all other accessories as per site requirement to be supplied by firm.) NOTE: Installation/programming/configuration/commissioning of Axle counter equipment to be carried out in accordance with latest guidelines issued by Railway/RDSO preferably by Authorised representative of OEM.	Set	10.00	10841.00	108410.00

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39	011830	Installation, wiring & /commissioning of Multi section Digital Axle counters's central unit/Evaluator/Processor for the section/at station including its associated all indoor equipments, Indication panel, monitoring console/interface computer and wiring the same to integrate with the relay circuits including supply required power cable of multistrand 10 sq.mm or more from power room to central evaluator, 2 core shielded cable of required size copper conductor as per as per IRS (S)76/89(Amd.3). or IS 694/2010. with latest amendment as applicable with other accessories as per the instruction of Rly engineer at site and earthing as per OEM's technical requirement and specifications. This also includes laying & termination of cable, if any from panel Room to Axle counter room/Relay room in DWC pipe with contractor's material/existing ladder.	Per Detection Point (DP)	10.00	2269.00	22690.00
40	011840	Installation, wiring & Testing / commissioning of Axle counters Reset Box of all types in Cabin/Panel Room and wiring the same to integrate with the axle counter as per instructions of Railway Engineer at site. This includes laying & termination of cable, if any from Panel Room/Axle counter room/ Relay Room to Reset Box in DWC pipe/existing ladder.	Station	1.00	5895.00	5895.00
41	011870	Installation of complete assembly of deflectors on either side of Track Device/Double Rail Contact Unit including drilling of required sizes holes on rails for fixing these.	Per Detection Point (DP)	10.00	731.00	7310.00
42	011880	Supply, fixing & Wiring of mismatch panel depicting Indication panel/VDU layout with contractors own material like LEDs for each track section, flexible wire, connecting terminals, buzzer etc. The work shall be done as per extant practice on C.Rly & the instruction of Rly engineer at site.	Station	1.00	36538.00	36538.00
43	011900	Refixing of electrical point machine, ground connection during phase working (Non interlocked working) after removing the existing fitting if any, adjustment if necessary, cable termination, wiring, testing and commissioning of electrically operated point, fixing and connecting point indicator on derail switch if necessary. The work shall be done as per extant practice on C.Rly & the instruction of Rly engineer at site. Unit(PER T/O=1 set)	Set	4.00	3862.00	15448.00
44	011910	Fixing of point machine on newly laid turnout on Wooden/MBC sleepers, fixing of ground connections, adjustment and testing with crank handle operations, Removal of ground connection & point machines duly numbered. This will include fixing of bend pipes with welded frame for cable entry to machine. This will also includes necessary adjustment and smithy work, drilling of holes to tounge rails, fitting of insulation for tounge attachment, gauge plate & stretcher bars, cable termination & wiring if required. The work shall be done as per extant practice on C.Rly & the instruction of Rly engineer at site. Unit(PER T/O=1 set)	Set	12.00	2709.00	32508.00
45	011920	Installation, fixing and wiring of Boxes for key Lock Relays with contractor's wiring & fixing material. The work shall be done as per extant practice on C.Rly & the instruction of site engineer.	Numbers	1.00	2451.00	2451.00
46	011930	Excavation of cable trench as per cable route plan, 1.0 mt. deep and 300mm wide along side the track in normal soil/strata, conforming to distances as per cable route plan and refilling after cable laying. This work includes covering of cable laid to trench by loose soil for a layer of 50mm thickness after clearing of route, bushes etc. It shall be ensured that top of the cables laid is at a depth of 0.8 m or more. If it is less, then the width and depth shall be suitably increased and accordingly proportionate payment shall be made. In case depth of trench is not achievable due to site conditions, proportionate payment will be made as per procedure. The work shall be done as per extant practice on C.Rly & the instruction of Railway engineer at site. Drg No SK 805	cum	600.00	291.00	174600.00

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47	011940	Excavation of cable trench as per cable route plan, 1.0 mt. deep and 300mm wide along side the track in hard soil, conforming to distances as per cable route plan and refilling after cable laying. This work includes covering of cable laid to trench by loose soil for a layer of 50mm thickness after clearing of route, bushes etc. It shall be ensured that top of the cables laid is at a depth of 0.8 m or more. If it is less, then the width and depth shall be suitably increased and accordingly proportionate payment shall be made. In case depth of trench is not achievable due to site conditions, proportionate payment will be made as per procedure. The work shall be done as per extant practice on C.Rly & the instruction of Railway engineer at site. Drg No SK 805	cum	60.00	491.00	29460.00
48	011950	Cutting of all types of Roads/platforms (except concrete type) for trenching and excavation to depth of 300mmx300mm wide approx. and refilling after laying of RCC/GI/DWC pipe & to restore them to original condition. The work shall be done as per extant practice on C.Rly & the instruction of Railway engineer at site. Drg No SK 807	cum	45.00	2438.00	109710.00
49	011960	Fixing of GI pipes for crossing the culverts, bridges etc. and concreting of ends with brick masonry at both ends as per the instruction of Rly engineer at site.	Metre	96.00	60.00	5760.00
50	011970	Digging of trench 1.0 M deep from rail flange/road level (for LC) and, 0.3 Mtr 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. Drg No SK 806	cum	60.00	504.00	30240.00
51	011980	Laying of DWC/RCC pipes alongwith collars / RCC Half round pipes in trenches at places of track and road crossings, platform cutting etc.	Metre	200.00	49.00	9800.00
52	011990	Laying of signalling/Power/Telecom cable of various cores/sizes in trenches.	Kilometre	55.00	4542.00	249810.00
53	012030	Jointing of 4 / 6 quad cable with Heat shrinkable straight through jointing kit for 4/6 quad cable.	Numbers	5.00	3005.00	15025.00
54	012050	"Where ever depth of 0.5 m cable trench is not feasible, cable shall be protected as under:- Preparation of cement mixture 1:3:6 with contractor's own materials and spreading cement concrete mixture layer of 100 mm thick over the already laid cables in the excavated trench."	cum	5.00	4419.00	22095.00
55	012060	Fixing of modular terminal/fuse blocks alongwith all accessories with provision of fixing holes on hylam sheets/side angles of Loc Box and fixing by galvanised nuts & bolts. This includes fixing on DIN channel alongwith PVC Comb type 'C' channel (size 2 inch x 2 inch) for cable termination of modular terminal. The PVC channel with cover to be supplied by firm as required. The work shall be done as per the instruction of Rly engineer at site.	Numbers	2000.00	16.00	32000.00
56	012070	Termination of cable cores on ARA terminal/Disconnecting link/fuse blocks, in the apparatus Cases/ cable termination rack. This includes all associated works of pulling out the cable from underground. The work shall be done as per location plans and instructions of Rly engineer at site.	Numbers	20200.00	6.00	121200.00
57	012080	Laying of GI pipes in on bridges/culverts/concrete drain/ mountain ridges etc. with suitable GI bend shall be provided where there is turning of pipe as per instructions of the site engineer. GI Clamps at every 2 m as shown in the drawing to be fixed. Suitable holes to be made in the pipe before laying as per instructions of the site engineer. 100 mm dia. Drg No SK 808	Metre	24.00	116.00	2784.00

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58	012090	Laying of GI pipes inside the excavated trench in rocky area/less depth area as per instructions of the site engineer. GI Clamps at every 2 m as shown in the drawing to be fixed. Suitable GI Bend/Coupling and holes to be made in the pipe before laying as per instructions of the site engineer.	Metre	24.00	53.00	1272.00
59	012100	Releasing of cables from old location boxes and taking it into new location boxes. This includes excavating the earth to release the cables. From old location box for taking it into new location. This also includes releasing the old location box and bringing it to nearest station/central cabin. Location (old) will be released only after ensuring all working cables have been shifted in New location. Unit(Per location=1 set)	Set	5.00	1668.00	8340.00
60	012130	FIXING OF "C" Channel Clamps on Girders along with proper coupling of GI/DWC pipes. The work will be executed as per instruction of site incharge and site incharge may take decision as per site condition. All the fixures, nut bolts, tolls required to fix the channel will be provided by Contractor. Proper safety equipment like Helmet, Retroreflective jacket and whistle, flag is to be made available during execution of work.	Numbers	16.00	271.00	4336.00
61	012140	Making an entrance for new cable in old existing location, Casting concreting and curing of foundation and restoring it to old position by perfect masonry/concreting work. Contractor will ensure that cable entered in Location Box is properly protected.	Numbers	6.00	379.00	2274.00
62	012150	Making of thermoshrink straight through/derivation/transformer /PIJF cable joint for underground jelly filled cable 6 quad/4 quad/20 pair 10 pair etc. PIJF cable as per the instruction of Rly engineer at site.	Numbers	4.00	1281.00	5124.00
63	012160	Horizontal boring of cable duct of minimum 2.0 Mtr depth along with laying of 120mm HDPE pipe for track crossing with minimum depth reckoned from bottom of the rail/Road crossing with minimum depth reckoned from ground level. The work shall be done as per extant practice & instructions of site engineer. Preparation of site for Horizontal Boring shall be carried out in presence of Railway Representative. HDPE will be supplied by Railway. Note:- Contractor 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.	Metre	1000.00	2175.00	2175000.00
64	012180	Horizontal boring of cable duct of minimum 2.0 Mtr depth along with laying of 120mm HDPE pipe for Other location with minimum depth reckoned from the ground level. The work shall be done as per extant practice & instructions of site engineer. Preparation of site for Horizontal Boring shall be carried out in presence of Railway Representative. HDPE will be supplied by Railway. Note:- Contractor 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.b)BORING beyond of 150mtrs. Preparation of site for Horizontal Boring shall be carried out in presence of Railway Representative.	Metre	500.00	1905.00	952500.00
65	012190	Termination of Tail cable inside the point machine through bend pipe this includes preparatory work of pulling the cables, and peeling out the insulation, dressing and lacing after termination etc., pulling of tail cable as per circuit requirement inside point machine through bend pipe, termination of cables on terminal blocks as per instruction of site supervisor the cable shall be entered in such a way that, armouring shall protect the cable near sharp edge of entry point and armouring shall be clamped between pipe fixing bracket and boy of point machine.	Numbers	16.00	290.00	4640.00

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66	012200	"Patching work in old location box consisting 1) Digging of pit, cleaning of earth from all sides, breaking of seal of location boxes removal of sand from location, marking of new cable holes. 2) insertion cable from ground 3) making place for cable termination in old location, shifting ARA, fuse etc after removal and termination including fixing of ARA. 4) Termination of cable in old location. 5) Filling of sand and plastering to all sides upto 50 mm below ground level."	Numbers	6.00	4835.00	29010.00
67	012210	Shifting of existing full location boxes coming in the alignment of doubling. The work includes losing & removal of soil around loction boxes by excavating soil around foundation, making of pit for shifting of location box horizontally opposite to railway track up to 0.5 to 1.0 mtr. This includes loosening of existing cable coils without any damage. The excavated soil shall be back filled after shifting of Location Boxes. Location box along with its foundation shall be shifted by push method with the help of jacks or by crane by contractors own expenditure under instructions of engineer in-charge at site. Any minor repairs in foundation due to patching shall also be carried out by contractor as per instruction of Engineer incharge. The work may affect train working hence the work shall be done as per margin only or during traffic block only.	Numbers	2.00	4102.00	8204.00
68	012220	Shifting of existing Half location boxes coming in the alignment of doubling. The work includes losing & removal of soil around loction boxes by excavating soil around foundation, making of pit for shifting of location box horizontally opposite to railway track up to 0.5 to 1.0 mtr. This includes loosening of existing cable coils without any damage. The excavated soil shall be back filled after shifting of Location Boxes. Location box along with its foundation shall be shifted by push method with the help of jacks or by crane by contractors own expenditure under instructions of engineer in-charge at site. Any minor repairs in foundation due to patching shall also be carried out by contractor as per instruction of Engineer incharge. The work may affect train working hence the work shall be done as per margin only or during traffic block only.	Numbers	2.00	3304.00	6608.00
69	012260	Laying of RCC half round cement pipe of approximate size (150/300 mm dia X 2 Meter length) inside the trench after laying of cable. Pipes shall be placed as per directives of engineer.	Metre	2000.00	29.00	58000.00
70	012270	Providing Road Breaker/concrete breaker/boulder or rock breaker with compressor & Jack Hammer for Railway work such as cutting & dismantling of road concrete/Brick pucca structure (RCC/Steel section) including contractors fuel, driver and all other charges completed as directed by Engineer in charge	Hour	5.00	1191.00	5955.00
71	012360	Painting two coats of synthetic enamel paint over one coat of primer on the following after scrapping and cleaning of the surface wherever necessary with contractor own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy will be supplied by Railways. NOTE:- The paint and primer should be from M/s Asian paints Co. Ltd.,. The paints will be primer (IS 5660 of 1970) the Aluminium synthetic black enamel (IS 2932 of 1974) brilliant white and yellow Painting two coats of enamel paint over one coat of primer.(i)Apparatus Cases Full size.	Numbers	60.00	360.00	21600.00

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72	012370	Painting two coats of synthetic enamel paint over one coat of primer on the following after scrapping and cleaning of the surface wherever necessary with contractor own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy will be supplied by Railways. NOTE:- The paint and primer should be from M/s Asian paints Co. Ltd.,. The paints will be primer (IS 5660 of 1970) the Aluminium synthetic black enamel (IS 2932 of 1974) brilliant white and yellow Painting two coats of enamel paint over one coat of primer.(ii)Apparatus Cases Half size.	Numbers	20.00	265.00	5300.00
73	012380	Painting two coats of synthetic enamel paint over one coat of primer on the following after scrapping and cleaning of the surface wherever necessary with contractor own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy will be supplied by Railways. NOTE:- The paint and primer should be from M/s Asian paints Co. Ltd.,. The paints will be primer (IS 5660 of 1970) the Aluminium synthetic black enamel (IS 2932 of 1974) brilliant white and yellow Painting two coats of enamel paint over one coat of primer.(iii)Main signal post with signal Units, Surface base and complete fittings as per Centre Railways standard practice.	Numbers	50.00	594.00	29700.00
74	012400	Painting two coats of synthetic enamel paint over one coat of primer on the following after scrapping and cleaning of the surface wherever necessary with contractor own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy will be supplied by Railways. NOTE:- The paint and primer should be from M/s Asian paints Co. Ltd.,. The paints will be primer (IS 5660 of 1970) the Aluminium synthetic black enamel (IS 2932 of 1974) brilliant white and yellow Painting two coats of enamel paint over one coat of primer.(v)Track lead Junction Box. (Black enamel outside only)	Numbers	200.00	69.00	13800.00
75	012410	Painting two coats of synthetic enamel paint over one coat of primer on the following after scrapping and cleaning of the surface wherever necessary with contractor own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy will be supplied by Railways. NOTE:- The paint and primer should be from M/s Asian paints Co. Ltd.,. The paints will be primer (IS 5660 of 1970) the Aluminium synthetic black enamel (IS 2932 of 1974) brilliant white and yellow Painting two coats of enamel paint over one coat of primer.(vi)Point Machine with ground connections complete (Point Machine with Black enamel only outside and ground connections with Red Oxide)	Numbers	50.00	122.00	6100.00
76	012420	Painting two coats of synthetic enamel paint over one coat of primer on the following after scrapping and cleaning of the surface wherever necessary with contractor own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy will be supplied by Railways. NOTE:- The paint and primer should be from M/s Asian paints Co. Ltd.,. The paints will be primer (IS 5660 of 1970) the Aluminium synthetic black enamel (IS 2932 of 1974) brilliant white and yellow Painting two coats of enamel paint over one coat of primer.(vii)Axle counter devices.	Numbers	30.00	87.00	2610.00
77	012430	Lettering / Numbering of Signals, Point Machine, Track Lead junction Boxes, Block joints, Apparatus Cases etc.(each item to be taken as One Unit) This work will be carried out as per the standard practice being followed in Central Railway.	Numbers	440.00	47.00	20680.00
78	012440	Lettering / Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes.(a)Full Case.	Numbers	10.00	220.00	2200.00

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79	012450	Lettering / Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes.(b)Half Case.	Numbers	4.00	121.00	484.00
80	012510	Dismantling/Releasing of the existing outdoor signalling items such as CLS unit with posts alongwith base, lever frames (5 levers set), battery box with equipments, location box with equipments, block instruments, point machines, mechanical point, AFTC/DAC, Relay rack, CT Rack alongwith Relay rack. IDF with all accessories. All these unit will be counted as one no. along with their accessories. This includes the cost of transportation of released material from site to Railway scrap Depot. Unit(per sign/per point/Loc.Box/Relay Rack = 1 set)	Set	20.00	1181.00	23620.00
81	012540	Transportation of signaling material/equipments including loading and unloading in 10MT vehicle, anywhere to anywhere, and stacking at destination as per instructions of SSE in-charge as per inventory. For carrying heavy materials like cable drums, DG set, Electrical lifting barrier pedestal, IPS, Batteries, Point machine etc.Unit(Per Ton/Per KM=1 set)	Set	3000.00	49.00	147000.00
82	012560	Laying of HDPE duct in trench and its protective work as per direction of site engineer.	Kilometre	3.00	5462.00	16386.00
83	012570	Blowing/Drawing of OFC cable in HDPE/DWC duct and protective work, as per direction of site engineer.	Kilometre	3.00	11607.00	34821.00
Total						5514864.00

Schedule Schedule E-Sch E EI Modication

Item- 10 Supply of EI Hardware for OC

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Processor Module with Back plane(Insp Agency-RDSO)	Numbers	2.00	850000.00	1700000.00
2	2	Parallel Input Module (PIM50)(Insp Agency-RDSO)	Numbers	10.00	175000.00	1750000.00
3	3	Relay Output Module (ROM50)(Insp Agency-RDSO)	Numbers	10.00	190000.00	1900000.00
4	4	10-Slot housing with backplane with shield and Screws full width(Insp Agency-RDSO)	Numbers	2.00	195000.00	390000.00
5	5	SMB Termination Dongle (plug)(Insp Agency-RDSO)	Numbers	6.00	15000.00	90000.00
6	6	I/O back plate connector - Crimp - PIM (Insp Agency-RDSO)	Numbers	10.00	15600.00	156000.00
7	7	I/O back plate connector - Crimp - ROM (Insp Agency-RDSO)	Numbers	10.00	15800.00	158000.00
8	8	Front filler panel-8hp (Insp Agency-RDSO)	Numbers	8.00	5800.00	46400.00
9	9	Rear Filler panel- 8hp (Insp Agency-RDSO)	Numbers	8.00	5800.00	46400.00
10	10	Surge Protection devices(Insp Agency-RDSO)	Numbers	4.00	12500.00	50000.00
11	11	Communication Equipment-Network Switch (Insp Agency-RDSO)	Numbers	2.00	225000.00	450000.00
12	12	Westrace Rack (Insp Agency-RDSO)	Numbers	1.00	225000.00	225000.00
13	13	Relay Rack (Insp Agency-RDSO)	Numbers	2.00	100000.00	200000.00
14	14	Wiring Material	Lot	0.50	316645.00	158322.50
15	15	DC - DC convertors, 110V/50V, 5 Amps (Insp Agency-RDSO)	Numbers	4.00	35000.00	140000.00
16	16	DC - DC convertors, 110V/24V, 10 Amps (Insp Agency-RDSO)	Numbers	4.00	35000.00	140000.00
17	17	SSI Protocol Converter(Insp Agency-RDSO)	Numbers	1.00	35000.00	35000.00
18	18	Design of Westrace MKII Electronic Interlocking System(Insp Agency-RDSO)	Station	0.50	250000.00	125000.00
Total						7760122.50

4. ELIGIBILITY CONDITIONS

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The Tender Cost is more than 50 lakhs, hence eligibility criteria is applicable. The other terms and conditions are as per latest GCC 2022 with all correction slips and tender document.	No	No	Allowed (Mandatory)

Special Technical Criteria

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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The Tender Cost is more than 50 lakhs, hence eligibility criteria is applicable. The other terms and conditions are as per latest GCC 2022 with all correction slips and tender document.	No	No	Allowed (Mandatory)

Bidders shall confirm and certify on the behalf of the tenderer including its constituents as under:

S.No.	Description
1	I/we the tenderer (s) am/are signing this document after carefully reading the contents.
2	I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3	I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website www.ireps.gov.in . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
4	I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.
5	I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6	I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7	I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.
8	I/we understand that if the contents of the certificate submitted by us are found to be forged/false at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. Further, I/we and all my/our constituents understand that my/our offer shall be summarily rejected.
9	I/we also understand that if the contents of the certificate submitted by us are found to be false/forged at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of upto two year.
10	I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.

S.No.	Description
1	Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. Please submit a certificate in the prescribed format (please download the format from the link given below). Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. (Click here to download the Format of Self Certification)

5. COMPLIANCE

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	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)

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The PVC clause in not applicable for this tender. The consignee for this tender is SSE(Signal)Warora The maintenance period of the work is 12 months from the actual date of completion of work.	No	No	Not Allowed
2	The Inspection agency of Schedule B(Execution Portion), C(Non SOR) and Schedule G(Telecom) all the items are consignee items. Where as Schedule A(SOR Supply) Inspection Agency has been uploaded. The Schedule D(IPS), F(KAVACH) are RDSO only. Schedule E(EI) inspection agency has been mentioned in the schedule itself.	No	No	Not Allowed

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3	Trenching, Cable laying, location and signal foundation/erection/termination/ wiring in connection with any signaling work. OR Any Indoor or combined indoor/outdoor signaling including supply, installation, testing and commissioning of relay interlocking (RRI/PI) system for passenger carrying lines."	No	No	Not Allowed
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6. Documents attached with tender

S.No.	Document Name	Document Description
1	InspAgencySchA.pdf	Inspection Agency
2	SpecificationandAnnexuresofSchC_removed.pdf	Specification and Annexure
3	40-2026-LL-SN-BPQ.pdf	Tender Document
4	BPQproposedespupgoodsyard.pdf	Drawing of BPQ

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: DHIRAJ KUMAR DWIVEDI

Designation : Sr.DSTE1