

**CAO-C-USBRL-S AND T/NORTHERN RLY
TENDER DOCUMENT**

Tender No: 287-Sig-USBRL-UHP-T-03-26

Closing Date/Time: 13/07/2026 15:00

DYCSTE/USBRL/JAT acting for and on behalf of The President of India invites E-Tenders against Tender No **287-Sig-USBRL-UHP-T-03-26** Closing Date/Time 13/07/2026 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	1. Provision of Electronic Interlocking at Martyr Captain Tushar Mahajan (MCTM) station alongwith Telecom work including Block Working in c/w "UDHAMPUR-now Shaheed Captain Tushar Mahajan Nagar- Provision of R&D facility on Goods loading line to curtail arrival to placement time" over Northern Railway". 2. Provision of signalling arrangements in c/w "Setting up of additional trip shed at Shri Mata Vaisho Devi Katra (SVDK) over Firozpur division for inspection and maintenance activities of Electric Locomotives" over Northern Railway		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	13/07/2026 15:00	Date Time Of Uploading Tender	20/06/2026 13:04
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	98244927.15	Tendering Section	DY. CSTE
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	1964900.00	Validity of Offer (Days)	60
Tender Doc. Cost (Rs.)	0.00	Period of Completion	10 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	29/06/2026		
Are JV allowed to bid	Yes	Number of JV Member Allowed	2
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-Signalling Items							90244789.72	
	1	1.00	Set	39349647.35	39349647.35	AT Par	39349647.35	

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1	Description:- Design, Fabricate, supply, installation, wiring, testing and commissioning of EI system for MCTM Station statio as per RDSO spec no RDSO/SPN/192/2019 ver 2.0 or latest with amendments & as per special condition of contract and technical specifications (including all relevant and latest RDSO Technical Advisory Note (TAN) and SIP enclosed mainly consisting of following: Central Microprocessor equipment with HOT standby architecture, Interface equipment as per RE requirement, interface suitable one operator main and one operator standby VDU, interconnecting cables etc. All types of racks for relays & EI equipments, fixture mounting arrangements and accessories necessary to make EI system functional. Dual set of Video Display unit control terminal (VDU) having industrial grade fanless PC. The size of VDU minimum 85 inches single screen or combination of more screen (as per latest RDSO specification and TAN) and it's furniture (work station & revolving chair) with UPS minimum one hour backup, maintenance terminal having industrial grade fanless PC with 55 inch LED monitor and it's furniture (Workstation and revolving chair) with UPS minimum one hour backup Supply, OFC connectivity (Patch Cords) as per requirement of system, All type of interface relays used in EI system and Supply, installation, wiring, testing, validation and commissioning of data logger system along with all interface equipment like a protocol converter & failure analysis system (with i7 or higher processor), etc. (required to connect data logger with EI system have to be supplied by contractor as per of this item) DC-DC converter required for EI (un-stabilized 230VAC or 110VDC from the battery set of IPS will be provided by railways), supply & installation of Earthing system of EI, lightening and surge protection device (class A,B,C and D) suitable for EI as per latest RDSO spec. and TAN and their connection with earthing arrangement and accessories necessary to make EI system functional . Note: Other details are included in special conditions of contract. 1. Tenderer may quote any RDSO approved EI system with complete details of all module, cards and accessories etc. Along with necessary spares (refer special condition of contract) as per RDSO spec. no. RDSO/SPN/192 of 2019 with latest amendments. Please give full details of quantities for the station and unit base rates item wise, the total amount of which must be equal to the given LAR of this item in separate annexure . The rate quoted in percentage above/at par/below for entire tender shall be applicable for the rates quoted in schedule item no.1 2. System design should cater to accommodate 15% additional I/Os in future as per para 6.6 of RDSO spec. 3. Other details are included in special conditions of contract. (SIP/TSIP of stations are enclosed along with tender document. Inspection: RDSO- Any sub item which is not inspected by RDSO will be inspected by Consignee)						
2	1	1.00	Set	84964.31	84964.31	AT Par	84964.31
	Description:- Supply of "As built" Documents. (i) Completion Documents as per condition of Contract. (6 Sets for each) (ii) Supply of documents as per Technical specification Para - 10.2 of RDSO Specification no RDSO/SPN/192/2019. (6 Sets for each). Inspection by SSE/C/D&D						
3	1	1.00	Set	155242.19	155242.19	AT Par	155242.19
	Description:- Supply of Instruments / Tool Kits suitable for EI commissioned: Tool kit & Measuring Instruments for technicians / Jr. Engineers for Testing, Maintenance, Trouble Shooting and repair at site. Note: Details of tool kit item is enclosed as Annexure IV/VOL.II of tender document. Inspection by Consignee.						
4	1	1.00	Job	350478.98	350478.98	AT Par	350478.98
	Description:- Installation, testing & commissioning of EI equipment supplied as per item no.1.01, including transportation from consignee depot to site at stations as listed above. Installation is to be done as per RDSO specification RDSO/SPN/192/2019 with latest amendmnents and RDSO practice circulated vide TAN no. STS/E/TAN/3012, Ver. 4.0, Dt.23-07-25, TAN no. STS/E/TAN/3007, Ver. 1.0, Dt.02.11.2012 for industrial grade PC and TAN no. STS/E/TAN/3006, Ver. 3.0, dt. 08.01.2025 for earthing and bonding scheme for Electronic Interlocking. (1 Job=1 Station). Inspection by Site Engineer.						
5	1	20.00	Man-Days	779.90	15598.00	AT Par	15598.00
	Description:- Training for Rly. Tech./JE/SE/SSE by OEM in installation, testing & commissioning, maintenance & trouble shooting of EI system complete including supply of hard/soft copies of course module for each trainee. Competency certificate to trainee to be issued by OEM. All arrangements including classroom, lab, equipment, measuring instruments etc. required for the training should be satisfactorily arranged by the contractor at their own cost. Inspection: Site Engineer						
6	1	5.00	Man-Days	993.89	4969.45	AT Par	4969.45
	Description:- Training for Rly. Officers by OEM in installation, testing & commissioning of EI system complete including supply of hard/soft copies of course module for each trainee. All arrangements including classroom, lab, equipment, measuring instruments etc. required for the training should be satisfactorily arranged by the contractor at their own cost. Inspection : Site Engineer						
7	1	250.00	Per Page	21.59	5397.50	AT Par	5397.50
	Description:- Translation of SWR from English to Hindi: Inspection by SSE/C/D&D						
8	1	250.00	Per Page	23.55	5887.50	AT Par	5887.50
	Description:- Typing and Printing One master Copy SET in Hindi. Inspection by SSE/C/D&D						
9	1	250.00	Per Page	1.52	380.00	AT Par	380.00
	Description:- Two Photocopies of Hindi Master Copy Set Inspection by SSE/C/D&D						
10	1	2.00	Set	55.65	111.30	AT Par	111.30

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10		Description:- Spiral Binding of master of SWR & 02 set of photocopies as above including plastic cover. Inspection by SSE/C/D&D					
11	1	2.00	Numbers	18503.42	37006.84	AT Par	37006.84
		Description:- Fabrication, supply and fixing of cable termination board of size 2200mmx900mm as per Drg. No. NR/S&T/CON/4-1/97A made of angle iron size 40mmx40mmx5mm alongwith outer frame made of angle iron size 65mmx65mmx8mm duly fitted with Bakelite sheet (HYLAM MAKE or similar) of size 6mm thick. This also includes fixing of ARA terminals/strips/Wago connectors & fuse bases etc. Supply and fixing of hard wood of size 70cmx25cmx4cm in the back at bottom for jamming of armour of cables, each cable in the hole drilled separately for each cable through the salwood plank and all cable entry points on location boxes, location huts, JB's relay room/battery room to be closed with suitable masonry Works covered with sand and plastering. All the fixing materials like bolts, nuts, washers, Insulators, shoe, angle irons, flats, L- bolts, Catenary wires & cement concretes etc. will be supplied by the contractor. This includes cleaning, priming by red oxide, painting & description etc. with ISI mark paints. Inspection :Site Engineer					
12	1	12.00	Numbers	20751.61	249019.32	AT Par	249019.32
		Description:- Fabrication, supply and fixing of scaffolding /cable carrier made of angle iron of Size 35mmX35mmX5mm and flat of size 25mmX3mm as per instructions of engineer at site.The space between two flats will be 25cm or less as per site requirements all the fixing materials i.e nut, bolt washer, insulators, cement concrete etc will be supplied by the contractor . This includes insulating flat strips, cleaning priming by Red oxide, painting by ISI mark paint. Inspection :Site Engineer					
13	1	120.00	Metre	494.66	59359.20	AT Par	59359.20
		Description:- Fabrication, supply and fixing of scaffolding /cable carrier made of angle iron of Size 35mmX35mmX5mm and flat of size 25mmX3mm as per instructions of engineer at site.The space between two flats will be 25cm or less as per site requirements all the fixing materials i.e nut, bolt washer, insulators, cement concrete etc will be supplied by the contractor . This includes insulating flat strips, cleaning priming by Red oxide, painting by ISI mark paint.Inspection :Site Engineer					
14	1	5.00	Kilometre	8688.11	43440.55	AT Par	43440.55
		Description:- Supply of Flexible , PVC sheathed, PVC insulated Copper wire 16/20 mm (wiring materials) as per IRS spec. No. IRS-76/89 with amendment no.3 or latest. (From RDSO Approved Source only). Inspection :RDSO					
15	1	2.00	Kilometre	58370.66	116741.32	AT Par	116741.32
		Description:- Supply of power wires 1x6 sq.mm. (Red & Black), IS 694/2010 or latest. Inspection Consignee					
16	1	2.00	Kilometre	159649.03	319298.06	AT Par	319298.06
		Description:- Supply of power wires 1x16 sq.mm. (Red & Black), IS 694/2010 or latest. Inspection Consignee					
17	1	2.00	Kilometre	263629.70	527259.40	AT Par	527259.40
		Description:- Supply of power wires 1x25 sq.mm. (Red & Black), IS 694/2010 or latest. Inspection Consignee					
18	1	1.00	Kilometre	345656.64	345656.64	AT Par	345656.64
		Description:- Supply of cable Indoor copper conductor multi-core plain annealed high conductivity PVC insulated un-armoured but PVC sheathed size 40x1 sq mm as per specification no. IRS-S/S/76/89 with latest amendment ; Inspection RDSO					
19	1	1.00	Kilometre	192927.42	192927.42	AT Par	192927.42
		Description:- Supply of cable Indoor copper conductor multi-core plain annealed high conductivity PVC insulated un-armoured but PVC sheathed size 40x0.6 sq mm as per specification no. IRS-S/S/76/89 with latest amendment ; Inspection RDSO					
20	1	1.00	Kilometre	453509.36	453509.36	AT Par	453509.36
		Description:- Supply of cable Indoor copper conductor multi-core plain annealed high conductivity PVC insulated un-armoured but PVC sheathed size 60x1 sq mm as per specification no. IRS-S/S/76/89 with latest amendment ; Inspection RDSO					
21	1	25.00	Numbers	3804.21	95105.25	AT Par	95105.25
		Description:- Relay, Non AC Immunized, plug in type, style "QN1" DC neutral line 24VDC, 8F/8b contact, front and back contaacte metal to carbon with plug board, retaining clip and connector a conforming to BRS:930,IRS S 34-68 and IRS:S-23. The interlocking code for this unit shall be ABCDF or latest. Inspection: RDSO					
22	1	170.00	Numbers	3941.19	670002.30	AT Par	670002.30
		Description:- Relay, AC Immunized, plug in type, style "QNA1" DC neutral line 24VDC, 8F/8b contact, front and back contact metal to carbon with plug board, retaining clip and connector a conforming to BRS:931A IRS S 60-78 IRS S 34-68 IRS:S-23 (as aplicable). The interlocking code for this unit shall be ABDGH or latest Inspection: RDSO					
	1	175.00	Numbers	472.54	82694.50	AT Par	82694.50
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23	Description:- Wiring of relays in relay room/relay huts as per appd wiring diagrams. All wiring material including resistances and condensers etc. except cables/wires to be supplied by contractor (Supply of cables & wires covered separately). It also includes dressing, bunching , lacing and fixing of relay bases.Inspection :Site Engineer						
24	1	12.00	Sqm	2497.99	29975.88	AT Par	29975.88
	Description:- Fabricating, writing and fixing of description boards made of ply 6mm thick with white sunmica glued over its surface and 1"x1" wooden batton fitted all around on the rear and having alluminium angle size of 25.4mmx25.4mmx3.15mm on all four sides as per instruction of Engineer at site. All the materials to be supplied by contractor. Inspection : Site Engineer						
25	1	20.00	Sqm	2103.14	42062.80	AT Par	42062.80
	Description:- Supply of anti static mats of size1 mtr. X0.7mtrs & 3mm thickness.Inspection : Site Engineer						
26	1	140.00	Sqm	1425.78	199609.20	AT Par	199609.20
	Description:- Supply & laying of anti-static PVC flooring with adhesive(PVC flooring in 2.00mm thickness) for Relay room/equipment room/Data logger room/Axlecounter room etc.Inspection :Site Engineer						
27	1	10.00	Metre	5987.40	59874.00	AT Par	59874.00
	Description:- Fabrication & installation of wooden shelves(Teak wood) 24" wide and 1.25" thick supported on angles 2" x 2" x .25" on three sides. This includes painting of angles and varnishing of shelves. All materials to be supplied by the contractor. Inspection :Site Engineer						
28	1	3.00	Numbers	6112.21	18336.63	AT Par	18336.63
	Description:- Fabrication, wiring & supply of Simulation panel as per drawing no. SSTE/PS/No. 1562 . This includes wiring from Relay room to the simulation panel. All materials such as on/off/2way switches, wires, strips & tagblocks etc. to be supplied by the contractor except indoor cables for wiring between the relay room and the simulation panel which is covered separately. Inspection Site Engineer.						
29	1	3.00	Numbers	10195.76	30587.28	AT Par	30587.28
	Description:- Fabrication, wiring & supply of lamp board as per drawing no. SSTE/PS/No. 1563 . This includes wiring from Relay room to the lamp board. All materials such as wires, strips, tagblocks, lamps & holders etc. including sufficient lamps for testing to be supplied by the contractor except indoor cables for wiring between the relay room and the lamp board which is covered separately. Inspection Site Engineer						
30	1	1.00	Numbers	12784.49	12784.49	AT Par	12784.49
	Description:- Fabrication of aluminium channel (1"x1")champered sunmica sheet on teakwood frame of size 4"x2"x1" and supply thereof duly painted, yard diagram with stand on front and fixing the same in SM office diagram shall be painted as per SWR diagram by contractor. All materials to be supplied by contractor. Inspection Site Engineer						
31	1	3.00	Numbers	56277.19	168831.57	AT Par	168831.57
	Description:- Installation, wiring, testing & commissioning of the 15 KVA DG set. Inspection : Site Engineer						
32	1	820.00	Numbers	195.60	160392.00	AT Par	160392.00
	Description:- Supply of electric fuse complete with fuse block(base) for Railway signalling non-detriorating type low voltage fuse assembly 2Amp/4Amp/16Amp. to suit . Specn. No.IRS: S-78/2006 and fuse block made of PBT/Polycarbonate as per IRS: S-75/2006 (Rev-2 & Amd 2) and drg no. 23748 (IRS) Alt.4 or latest. Fuse block shall be suitable for round head type fuses.Inspection :RDSO						
33	1	3.00	Job	16838.01	50514.03	AT Par	50514.03
	Description:- Fabrication, supply, installation and wiring of power supply board in IPS room/ relay hut/ relay room as per instructions of site engineer and extension of the power supplies from IPS to power supply board and from power supply board upto the MDF board. This includes fixing of ARA terminals, fuse bases, switches etc. and termination of power wire/ cables. This includes supply of all wiring & termination materials except terminals & fuses, power & U/G cable/wires. Wherever outdoor U/G cables are to be laid that is covered separately. Inspection :Site Engineer						
34	1	3.00	Set	160498.01	481494.03	AT Par	481494.03
	Description:- Supply, installation & wiring of Earth leakage detector (12 Channel) for monitoring different AC and DC, supplies including all accessories as per . specification no. RDSO/SPN/256/2002 or latest and stipulations of tender document. Inspection: RDSO						
35	1	2.00	Set	8164.28	16328.56	AT Par	16328.56
	Description:- Supply of Portable digital auto range multi-meter clamp type Philips, Motwani, Fluke or Rishabh make capable to measure from (0.1mv/0.01ma) AC/DC upto 50Amp(AC/DC), 600V(AC/DC) and 0.1 ohms- 40M ohms suitable for measurement of Freq., capacitance complete with Manual, leads, battery and holster etc. Inspection :Consignee						
	1	1.00	Set	52005.91	52005.91	AT Par	52005.91

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36	Description:- Supply of tool kit for JE/SE/SSE for Maintenance as per tech spec. given below: (1) Digital Multi Meter suitable for axle counter ranges 20 Amp AC/DC make protek 506 or similar- 1 no. (2) Digital clamp Multi Meter range up to 100 Amps for AC/DC current make SEW or similar - 1 no. (3) Leather Tool Bag for keeping tool kit -1 no. (4) Plier Sealing with sealing code bit -1 no. (5) Plier Wire Cutting 8" make Taparia or similar -1 no. (6) Nose Plier 4" make Taparia or similar -1 no. (7) Wire Stripper - 1 no. (8) Screw Driver set mutli port type -1 set (9) Track shunt resistance .5 ohm -1 no. (10) Soldering Iron 230V AC/65 watt -1 no. (11) Soldering Iron 230V AC/35 watt with diffrent type replacement soldering head - 1 no. (12) Soldering Iron 110V AC/35 watt -1 no. (13) Mesuring Tape steel 30 meters - 1 no. (14) Mesuring Tape steel 3 meters - 1 no. (15) Rechargable Torch Superior quality -1 no. (16) File Flat 8" long - 2 nos. (17) File Round smooth 8" long - 2 nos. (18) File Flat Bsterred 8" long - 2 nos. (19) Electric Drill Machine Portable 6mm make wolf or similar -1 no. Inspection by Consignee						
37	1	18.00	Numbers	40604.37	730878.66	AT Par	730878.66
	Description:- Supply fixing and wiring of fuse auto changeover system (FACS main system) as per RDSO/SPN/209/2012 Rev. 2.0 with latest amendments. One automatic changeover unit comprise 32 nos of external Non Deteriorating Type or 'G' type fuses of various Ampere Rating, working voltage-24 VDC which are in signalling circuits. System shall have 8 cards with monitoring arrangement of 4 fuses in one card. .Installation , wiring, Testing and commissioning of Fuse Alarm System,it consists of fixing of modules of fuse alarm system on existing relay rack, wiring from existing fuses to modules, soldering, lacing etc. working to be executed without affecting the functioning of the existing Circuits/Gears and the work shall be supplied by the contractor. Inspection by RDSO						
38	1	10000.00	Numbers	118.16	1181600.00	AT Par	1181600.00
	Description:- Supply of 4 conductor dis-connect terminal block for test and measurement 0.8 sq.mm-2.5 sq.mm centre marking with test slot for test plug 2mm/0.079IN and 2.3mm/0.091IN carreir rail DIN 35 front entry cage clamp connection Grey wago or similar as RDSO/SPN/189/2004 Ver.3.0 or latest. Inspection: RDSO						
39	1	250.00	Metre	151.24	37810.00	AT Par	37810.00
	Description:- Supply of Steel carrier Rail 35x7.5mm/0.039 in thick unslotted, yellow with Chrome Wago or similar as per RDSO/SPN/189/2004 Ver.3.0 or latest. Inspection :Consignee						
40	1	250.00	Numbers	18.86	4715.00	AT Par	4715.00
	Description:- Supply of End and Intermediate Plate 2.5mm/0.098 in Thick Wago or similar as per RDSO/SPN/189/2004 Ver.3.0 or latest. Inspection :Consignee						
41	1	200.00	Numbers	16.53	3306.00	AT Par	3306.00
	Description:- Supply of screw less end stop 10mm/0.394 in wide carrier rail DIN 35 Grey Wago or similar as per RDSO/SPN/189/2004 Ver.3.0 or latest. Inspection :Consignee						
42	1	3.00	Numbers	5623.00	16869.00	AT Par	16869.00
	Description:- Supply of 3 phase Manual changeover switch 63Amps/100Amps. Siemens/ Havells or similar Iron Clad switch. Inspection : Consignee						
43	1	3.00	Numbers	18622.27	55866.81	AT Par	55866.81
	Description:- Supply of Transformer 3KVA, 230V/130/110V as per IRS spec no. S-72-88 with latest amendments. Inspection : RDSO						
44	1	2.00	Station	46195.59	92391.18	AT Par	92391.18
	Description:- Prep. of cable route plan, Cable core chart, Power supply arrangement plan for indoor and out door , Cable termination chart in relay room and location boxes, Location wiring plan, Cable insulation chart and register, Track circuit history card, Fuse analysis plan , Equipment disposition plan, Track circuit jumpering plan, Terminal and Contact analysis chart , Outdoor circuits,pull sheets,gomettie plans,diagrams. temp. plans required for execution of PNI/NI and other outdoor diagram and obtaining approval of the Engineer as per following :- (i) Supply of 6 copies of completion set of superior quality paper, laminated, properly bound in steel clip jaw file with cushioned cover.(ii) Software back up of complete set in the form of CDs. (iii) One complete set of tracings.(iv) Design through CAD(v) Drawings in A3 & plans in bigger size. (six sets). Inspection: SSE/C/D&D						
45	1	4000.00	Metre	78.20	312800.00	AT Par	312800.00
	Description:- Excavating and refilling of trench in Normal Soil to the level of ground with rammed earth as per approved Drg. No.NR/S&T/CON/1-1/97A. Aso as not to form a drain 0.3 Mtrs. Wide & 1 Mtr. Deep on both side of the station alongside the track. It shall conform to the safe distance as per signalling and cable plan. It also includes clearance of roots of trees & bushes. Inspection: Site Engineer.						
46	1	32000.00	Numbers	8.33	266560.00	AT Par	266560.00
	Description:- Supply and laying of 2nd class bricks in the trench and laying as per approved Drg. No.NR/S&T/CON/1-1/97A as per instructions of the site Engineer. Inspection: Site Engineer.						
	1	10500.00	Metre	127.51	1338855.00	AT Par	1338855.00

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47	Description:- Excavating and refilling of trench in Rocky soil to the level of ground with rammed earth as per approved Drg. No.NR/S&T/CON/1-1/97-A1 so as not to form a drain 0.3 Mtrs. Wide & 0.5Mtr. Deep on both side of the station alongside the track .This includes 50mm thick concreting work throughout in 1:3:6 ratio. All concreting material to be supplied by the contractor. It shall conform to the safe distance as per signalling and cable plan It also includes clearance of routes of trees & bushes. Inspection: Site Engineer.						
48	1	170.00	Numbers	1328.22	225797.40	AT Par	225797.40
	Description:- Fabrication, supply and fixing of cable marker as per RDSO drg. No. SDO/Cable Laying / 020, dated 31.10.11. The marker shall be fixed at various places of Cable route as per instruction of Engg. at site.Inspection: Site Engineer						
49	1	120.00	Numbers	2806.17	336740.40	AT Par	336740.40
	Description:- Supply and installation of RFID electronic marker for S&T underground cable with programmable memory for saving the user specific data inside the RFID electronic marker memory chip, later recordable by electronic marker locator during locating (10 cm diameter with floating coil to keep detection circuit always Horizontal for better detection) which can be buried to depth of 5ft Placing in trench. Inspection : RDSO						
50	1	1.00	Numbers	372090.88	372090.88	AT Par	372090.88
	Description:- Supply of TEC approved electronic cable marker locator for locating quad / signalling cable as per Tec Spec. no G/TIE-07/01 jun 98 along with latest amendment. Inspection : RDSO						
51	1	700.00	Metre	110.29	77203.00	AT Par	77203.00
	Description:- Supply of 8x10 Gbps WDM interface module card or Channelized STM 1/4 card. Inspection : RDSO						
52	1	700.00	Metre	119.00	83300.00	AT Par	83300.00
	Description:- Supply and installation of Fibre management system 19" with all installation material, splicing , termination and testing of 2*48 fibre of cable that is 48 fibre with all connectors material as per the instruction of site engineer. Inspection : Site Engineer						
53	1	400.00	Metre	495.62	198248.00	AT Par	198248.00
	Description:- Supply & laying of RCC pipe including split pipe where required 150mm inner dia, 2 meter long with collars (to specification No.IS-460/1974 or latest) in the trench across the track/road & L-xing gates etc.(Length of half pipes will be counted as combined length of top & bottom). Inspection: Site Engineer.						
54	1	400.00	Metre	480.13	192052.00	AT Par	192052.00
	Description:- Supply, laying & fixing of HDPE double Wall Corrugated (DWC) Duct as per as per RDSO Specification No. RDSO/SPN/204/2011 Ver. 1.1 With Amndt-1 (outer dia 120mm in 6m st. length with one coupler for every 6m length). All the materials cement, sand etc. are to be supplied by the contractor. This include brick work and other arrangements required to secure the pipe as per specifications, drawings and stipulations of tender documents and as per approved cable route plan including road crossing/platform/track crossing and for bridges and culverts etc. Inspection : RITES for DWC pipe.						
55	1	1200.00	Metre	848.48	1018176.00	AT Par	1018176.00
	Description:- Supply and fixing of G.I. pipe perforated at a distance of 20 CM or less of required length at culverts/ bridges/along the cuttings, suitably concreted at both ends as per drg. No. (NR/S&T/CON/1. 4/97) or at ASM office / other buildings suitably fixing it to the wall and at both ends. G.I. clamps of M.S. flats bolts and nut, to be supplied by the contractor. G.I. pipe 75/80 mm dia, 3mm thick. Inspection: RITES						
56	1	500.00	Metre	2103.45	1051725.00	AT Par	1051725.00
	Description:- HDD Boring & Trenchless of 120mm dia with HDPE pipe for laying of signalling / telecom /power cable under track/road/culvet etc cable laying is covered seperately. Inspection: Rites						
57	1	1000.00	Metre	2017.72	2017720.00	AT Par	2017720.00
	Description:- All work of horizontal boring and trenchless cabling along with supply, transportation and insertion of double wall corrugated pipe -(ISI marked) conforming to RDSO Spec no. RDSO/SPN/204/2011, and the laying of cable in the boring under the track / road etc as per instruction of site engg. by using pipe of size 120 mm outer dia, 103.5 mm inner dia in which required number of cables to be crossed. The depth of horizontal boring should be minimum 1.0 m from rail flange/road level. Inspection : RITES for DWC pipe.						
58	1	606400.00	Metre	8.91	5403024.00	AT Par	5403024.00
	Description:- Laying of signalling/Telecom/power cables of different sizes as per approved Drg. No. NR/S&T/CON/1-1/97A and as per cable route plan approved by Railways and meggering of cable before and after its laying of all type of outdoor cables. Inspection: Site Engineer.						
59	1	24.00	Numbers	2170.17	52084.08	AT Par	52084.08
	Description:- Jointing of signalling cable straight through M-seal joint kit for U/G signalling cables, it includes supply and provision of jointing kit. Inspection: Site Engineer.						
	1	17000.00	CORE	14.52	246840.00	AT Par	246840.00

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60	Description:- Testing & meggering of all types of outdoor cables after its laying and termination on both ends under supervision of Railway representative. This also includes preparation of test report for core to core and core to earth on prescribed proforma for each core of the cable seperately. This also include dressing and lacing of cable on both ends. Proforma for testing and material for lacing to be supplied by the contractor. Inspection: Site Engineer.						
61	1	2000.00	Numbers	3105.84	6211680.00	AT Par	6211680.00
62	Description:- RCC duct 300x300 square mm for section asp per RDSO Drawing no. SDO/S&T/RCC/DUCT/1018/2. Inspection: Rites						
63	1	1000.00	Numbers	3264.27	3264270.00	AT Par	3264270.00
64	Description:- RCC duct 300x100 square mm for extended cable. As per RDSO Drawing no. SDO/S&T/RCC/DUCT/1018/1. Inspection: Rites						
65	1	20.00	Numbers	39520.99	790419.80	AT Par	790419.80
66	Description:- RCC duct 1200x1200x1500 square mm for chamber at every 500 m (gap hole size - 210 x 510) as per RDSO Drawing no. SDO/S&T/RCC/Chamber/1019/1. Inspection: Rites						
67	1	20.00	Numbers	37602.78	752055.60	AT Par	752055.60
68	Description:- 'RCC duct 1200x1200x1500 square mm for Chamber at every 500 Meter (Gap Hole size - 410x510). As per RDSO Drawing no. SDO/S&T/RCC/Chamber/1019/2. Inspection: Rites						
69	1	115.00	Numbers	7611.03	875268.45	AT Par	875268.45
70	Description:- Casting, concreting and curing of foundation and erection of single app.cases of size (1160mmx760mm) at surface and 650mm deep as per approved Drg.No.NR/S&T/CON/2-7/97. A layer of 3 mm of bitumen compound has to be provided between foundation and location box to prevent ingress of water in the base of location box .All material such as cement,coarse sand,aggregate and anchor bolt shall be supplied by contractor . App. Case single will be supplied by Railway. Contractor is required to execute all type of repair Works of foundations if required during inserting the cable for termination. Inspection: Site Engineer.						
71	1	115.00	Numbers	23438.88	2695471.20	AT Par	2695471.20
72	Description:- Supply of single app.case steel RE with 'E' type lock and key ward no.42 and handle as per drg. No. RE/S&T/ALD/SK/219/82 with (Alt A) and 221/82 with Alt.B. Inspection :RITES						
73	1	65.00	Numbers	6594.43	428637.95	AT Par	428637.95
74	Description:- Preparation of App. Case single involving wiring of relays. Preparation & fixing of bakelite hylum sheet 910x800x6mm and backelite shelf 900x450x10mm duly fixed by angle iron piece of different size inside all the app. Cases. Hylum board shall be fixed on an angle iron frame of 25mmx25mmx3mm. Angle iron frame will be fixed in location boxes secured by nuts and bolts.This includes fixing of fuses, ARA terminal, Q series relays and other type relays on square bars fixing and jamming of cables with 2 inch thick salwood plank provided at the bottom. This will include opening, pasting and jamming armour of each cable in the hole drilled separately for each cable through the salwood plank and all cable entry points on location boxes, location huts, JB's relay room/battery room to be closed with suitable masonry Works covered with sand and plastering.Wiring description for terminal drawing of circuits, inside app. Case. Painting from out side as well inside with red oxide and aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engineer at site. All materials including Backelite shelf, hylum board, salwood plank, angle iron square bar, wire and wiring material as per the IRS specn., non deteriorating type HRC fuses with bases, catenary wires , nuts and bolts and other items shall be supplied by the contractor. Relays, ARA terminals only shall be supplied by the Railways. Inspection: Site Engineer.						
75	1	33.00	Numbers	5268.84	173871.72	AT Par	173871.72
76	Description:- Preparation of App. Case single not involving wiring of relays. Preparation & fixing of bakelite hylum sheet 910x800x6mm and Backelite shelf 900x450x10mm duly fixed by angle iron piece of different size inside all the app. Cases. Hylum board shall be fixed on an angle iron frame of 25mmx25mmx3mm. Angle iron frame will be fixed in location boxes secured by nuts and bolts.This includes fixing of fuses, ARA terminal and fixing and jamming of cables with 2 inch thick salwood plank provided at the bottom. This will include opening, pasting and jamming armour of each cable in the hole drilled separately for each cable through the salwood plank and all cable entry points on location boxes, location huts, JB's relay room/battery room to be closed with suitable masonry Works covered with sand and plastering.Wiring description for terminal drawing of circuits, inside app. Case. Painting from out side as well inside with red oxide and aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engineer at site. All materials including Backelite shelf, hylum board, salwood plank, angle iron square bar, wire and wiring material as per the IRS specn., non deteriorating type HRC fuses with bases, catenary wires , nuts and bolts and other items shall be supplied by the contractor. ARA terminals only shall be supplied by the Railways. Inspection: Site Engineer.						
77	1	17.00	Numbers	3187.06	54180.02	AT Par	54180.02

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69	Description:- Preparation of App. Case to be used as battery box.(not requiring shelf and hylum of size 910x150x6mm only is reqd.). This includes fixing of fuses, ARA terminal and jamming of cables with 2 inch thick salwood plank provided at the bottom. This will include opening, pasting and jamming armour of each cable in the hole drilled separately for each cable through the salwood plank and all cable entry points on location boxes, location huts, JBs relay room/battery room to be closed with suitable masonry Works covered with sand and plastering.Wiring description for terminal drawing of circuits, inside app. Case. Painting from out side as well inside with red oxide and aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engineer at site. All materials including hylum board, salwood plank, wire and wiring material as per the IRS specn., catenary wires, nuts and bolts and other items shall be supplied by the contractor. ARA terminals only shall be supplied by the Railways. Inspection: Site Engineer.						
70	1	55.00	Numbers	5478.98	301343.90	AT Par	301343.90
	Description:- Casting, concreting and curing of foundation and erection of half app.cases of size (670mmx760mm) and 650mm deep as per Drg.No.NR/S&T/CON/2. 8/97. A layer of 3 mm of bitumen compound has to be provided between foundation and location box to prevent ingress of water in the base of location box . All material such as cement,coarse sand,aggregate and anchor bolt shall be supplied by contractor . App. Case half will be supplied by Railway. Contractor is required to execute all type of repair Works of foundations if required during inserting the cable for termination. Inspection: Site Engineer.						
71	1	55.00	Numbers	17651.18	970814.90	AT Par	970814.90
	Description:- Supply of apparatus case steel RE half with E type lock and key ward no.42 and handle as per drg.no. RE/S&T/ALD/SK/220/82 and 221/82 with Alt.B. Inspection :RITES						
72	1	27.00	Numbers	4272.92	115368.84	AT Par	115368.84
	Description:- Preparation of Apparatus Case (location box) half involving wiring of relays. Preparation and fixing of bakelite hylum sheet 450x800x6mm and Bachelite shelf 450x450x10mm duly fixed by angle iron piece of different size inside all the app. Cases. Hylum board shall be fixed on an angle iron frame of 25mmx25mmx3mm. Angle iron frame will be fixed in location box secured by nuts and bolts. This includes fixing of fuse ARA terminal, Q series relays and other type of relays on square bars, fixing and jamming of cable with 2 inch thick salwood plank provided at the bottom. This will include opening, pasting and jamming armour of each cable in the hole drilled separately for each cable through the salwood plank and all cable entry points on location boxes, location huts, JBs relay room/battery room to be closed with suitable masonry Works covered with sand and plastering. Wiring description for terminal drawing of circuits, inside app. Case. Painting from out side as well inside with red oxide and aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engineer at site. All materials including Bachelite shelf, hylum board, salwood plank, angle iron square bar, wire and wiring material as per the IRS specn., non deteriorating type HRC fuses with bases,catenary wires, nuts and bolts and other items shall be supplied by the contractor. Relays, ARA terminals only shall be supplied by the Railways. Inspection: Site Engineer.						
73	1	17.00	Numbers	3611.00	61387.00	AT Par	61387.00
	Description:- Preparation of App. Case half not involving wiring of relays. Preparation and fixing of Bakelite hylum sheet 450x800x6mm and Bachelite shelf 450x450x10mm duly fixed by angle iron piece of different size inside all the app. Cases. Hylum board shall be fixed on an angle iron frame of 25mmx25mmx3mm. Angle iron frame will be fixed in location box secured by nuts and bolts. This includes fixing of fuse ARA terminal and fixing and jamming of cable with 2 inch thick salwood plank provided at the bottom. This will include opening, pasting and jamming armour of each cable in the hole drilled separately for each cable through the salwood plank and all cable entry points on location boxes, location huts, JBs relay room/battery room to be closed with suitable masonry Works covered with sand and plastering.Wiring description for terminal drawing of circuits, inside app. Case. Painting from out side as well inside with red oxide and aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engineer at site. All materials including Bachelite shelf, hylum board, salwood plank, angle iron square bar, wire and wiring material as per the IRS specification, non deteriorating type HRC fuses with bases, catenary wires, nuts and bolts and other items shall be supplied by the contractor. Relays, ARA terminals only shall be supplied by the Railways. Inspection: Site Engineer.						
	1	11.00	Numbers	2693.77	29631.47	AT Par	29631.47

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74	Description:- Preparation of Battery Box (not requiring shelf and hylum of size 450x150x6mm only is reqd.) Preparation and fixing of bakelite hylum sheet 450x800x6mm and Bachelite shelf 450x450x10mm duly fixed by angle iron piece of different size inside all the app. Cases. Hylum board shall be fixed on an angle iron frame of 25mmx25mmx3mm. Angle iron frame will be fixed in location box secured by nuts and bolts. This includes fixing of fuse ARA terminal and fixing and jamming of cable with 2 inch thick salwood plank provided at the bottom. This will include opening, pasting and jamming armour of each cable in the hole drilled separately for each cable through the salwood plank and all cable entry points on location boxes, location huts, JB's relay room/battery room to be closed with suitable masonry Works covered with sand and plastering. Wiring description for terminal drawing of circuits, inside app. Case. Painting from out side as well inside with red oxide and aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engineer at site. All materials including Bachelite shelf, hylum board, salwood plank, angle iron square bar, wire and wiring material as per the IRS specn., catenary wires, nuts and bolts and other items shall be supplied by the contractor. Relays,ARA terminals only shall be supplied by the Railways. Inspection: Site Engineer						
75	1	22.00	Numbers	4801.13	105624.86	AT Par	105624.86
	Description:- Alteration of wiring in existing apparatus cases single/half. All materials in connection with alteration in wiring shall be provided by the contractor. Relays, ARA terminals only shall be supplied by the Railways. Inspection Site Engineer						
76	1	26500.00	Numbers	74.42	1972130.00	AT Par	1972130.00
	Description:- Supply of ARA Terminal Block 25MM center M6 terminal made of PBT as per IRS spec. No.IRS-S-75/2006 (Rev.2) & IRS drawing No. SA-23741A(Alt.4), SA23745(Alt.5) ,SA-23746 & SA-23756(Alt.3) .Inspection :RDSO						
77	1	10.00	Sqm	5904.87	59048.70	AT Par	59048.70
	Description:- Supply & fixing of bakelite sheet 6mm thick of grade P-1001 (paper based) conforming to IS spec.no.IS-1998-1962 B22 in existing locations OR at any other place as per instructions of site engineer. The sheet shall be fixed on angle iron of size 25mmx25mmx3mm. All materials required for the work to be supplied by the contractor.Inspection: Site Engineer.						
78	1	28.00	Numbers	11497.61	321933.08	AT Par	321933.08
	Description:- Casting, concreting and curing of foundation for main signal of size (1041mmx1041mm)at bottom and (711mmx711mm) at top and 1750mm deep as per approved Drg. no. NR/S&T/CON/2.1/97 all material such as anchor bolts, cement, coarse sand aggregate to be supplied by contractor. Inspection: Site Engineer.						
79	1	20.00	Numbers	18348.28	366965.60	AT Par	366965.60
	Description:- Supply of Colour light signal post 3.6mtr and ladder 3.5Mtr & bases as per tech. spec. IRS-S-6-81, Rev-3 or latest . Inspection: RITES						
80	1	10.00	Numbers	20040.92	200409.20	AT Par	200409.20
	Description:- Supply of Colour light signal post 4.6Mtr and ladder 4.5Mtr & bases as per tech. spec. IRS-S-6-81, Rev-3 or latest . Inspection: RITES						
81	1	24.00	Numbers	19905.87	477740.88	AT Par	477740.88
	Description:- Supply of 2 Aspect colour light signal unit complete with-out holders, lamps, lenses and signal transformer as per RDSO Drg. No. SA-23003 A/M (Adv), Alt-9 or latest . Specification no. IRS:S-26/64 Rev 1 or latest. Inspection: RITES						
82	1	24.00	Numbers	2994.06	71857.44	AT Par	71857.44
	Description:- Fixing of CLS surface base, bolting on the foundation. Erection of CLS post with signal unit on the top or on an off-set bracket and fitting ladder and guard to the post at the top. Concreting ladder base and embedded into the ground with supporting bracket in the middle, blanking of the ladder for a distance of 1 feet between the height 6' 9" and 7' 9" from the rail level by MS angle and MS sheet 6mm thick wherever required. This includes provision of wooden (SAL) cross arm 1 mtr x 1 mtr for CLS unit prior to the commissioning, fixing of LED aspect, current regulator and hoods of CLS unit, terminating cables, wiring the CLS unit and focusing the signal. Elevation & distance of foundation from track shall be in accordance with schedule of dimension for Indian Railways and as per NR practice. All items for the above Works except Signal unit, LED signal, Signal post, Base and Ladder shall be supplied by the contractor including but not limited to the following: i) "U" bolt for offset brackets, ii) Wooden cross arm 1 mtr. x 1 mtr., iii) MS angle and MS sheet for blanking of ladder, iv) Supply and fixing of signal number plate (retro reflective) with complete fittings as per standard railway practice. v) Wire mesh guard, lock for unit if required, nuts, bolts etc for the following: (a) Installation, erection, wiring of 2 aspect color light signal. Inspection: Site Engineer.						
83	1	6.00	Numbers	24026.54	144159.24	AT Par	144159.24
	Description:- Supply of 3/4 Aspect colour light signal unit complete with-out holders, lamps, lenses and signal transformer as per RDSO Drg. No. SA-23001 A/M (Adv), Alt-9 or latest respectively. Specification no. IRS:S-26/64 Rev 1 or latest.Inspection: RITES						
	1	6.00	Numbers	4424.71	26548.26	AT Par	26548.26

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84	Description:- Fixing of CLS surface base, bolting on the foundation. Erection of CLS post with signal unit on the top or on an off-set bracket and fitting ladder and guard to the post at the top. Concreting ladder base and embedded into the ground with supporting bracket in the middle, blanking of the ladder for a distance of 1 feet between the height 6' 9" and 7' 9" from the rail level by MS angle and MS sheet 6mm thick wherever required. This includes provision of wooden (SAL) cross arm 1 mtr x 1 mtr for CLS unit prior to the commissioning, fixing of LED aspect, current regulator and hoods of CLS unit, terminating cables, wiring the CLS unit and focusing the signal. Elevation & distance of foundation from track shall be in accordance with schedule of dimension for Indian Railways and as per NR practice. All items for the above Works except Signal unit, LED signal, Signal post, Base and Ladder shall be supplied by the contractor including but not limited to the following: i) "U" bolt for offset brackets, ii) Wooden cross arm 1 mtr. x 1 mtr., iii) MS angle and MS sheet for blanking of ladder, iv) Supply and fixing of signal number plate (retro reflective) with complete fittings as per standard railway practice. v) Wire mesh guard, lock for unit if required, nuts, bolts etc for the following: (a) Installation, erection, wiring of 3/4 aspect color light signal. Inspection: Site Engineer.						
85	1	2.00	Numbers	4495.60	8991.20	AT Par	8991.20
Description:- Installation, erection and wiring of 2/3/4 aspect LED lit colour light signal including 1/2/3/4/5/6 way Jn. type/Stencil/Theatre type route indicator which also includes fixing of route indicator on the top of the signal post or on offset bracket including fixing of offset bracket, wiring the whole unit, focussing of signal & route indicators. All items for installation and erection (excluding unit junction type route indicator and offset bracket covered separately) to be supplied by the contractor. Wiring & other fixing material, 'U' bolts will also be supplied by the contractor. Inspection: Site Engineer							
86	1	6.00	Numbers	793.92	4763.52	AT Par	4763.52
Description:- Fabrication, Supply and fixing of retroreflective P/G/C markers with complete fittings as per approved Drg. No. NR/S&T/CON/6.2/97. All material required for the job such as MS sheet, MS angle. Nut and bolts will be supplied by the Contractor. The P and G markers shall be as per Drg. No.S 23456(Adv) & SA 23477(Adv) respectively. Inspection: Site Engineer							
87	1	4.00	Numbers	6654.30	26617.20	AT Par	26617.20
Description:- Supply of calling-on colour light signal unit with offset bracket 3.5" dia. type drg.no.SA 24351-52(Adv) or latest .no.IRS-S-23/88. or latest. Inspection: RITES							
88	1	2.00	Numbers	1026.39	2052.78	AT Par	2052.78
Description:- Installation, erection and wiring of LED lit calling-on/dependent shunt signal /illuminated 'A' marker/ 'AG' marker/ 'F' markers on the same post below main signal on offset bracket. Which also includes fixing of stencil and hoods, wiring and focussing of the signal. Offset brackets, calling on signal/shunt signal complete will be supplied by Railways (Supply of calling on/shunt signal is covered separately, else where in the schedule). U-bolt for offset bracket and wire and wiring material will be supplied by contractor. Inspection: Site Engineer							
89	1	2.00	Numbers	35168.58	70337.16	AT Par	70337.16
Description:- Supply of 3/4/5/6-way route indicator junction type as per drg. No. SA-23402 (adv.) or latest complete with hoods & offset bracket 5 1/2" as per . specn.no.IRS-S-66/84 (Amd-1) or latest, drg.no. SA 23402(Adv), Alt.-2 or latest. Inspection: RITES							
90	1	2.00	Numbers	82077.63	164155.26	AT Par	164155.26
Description:- Supply of Multi lamp route indicator (LED Single Digit) matrix type from 1 to 9 with white LED housing as per specification A1. Inspection Consignee							
91	1	6.00	Numbers	9663.02	57978.12	AT Par	57978.12
Description:- Casting, concreting, curing of foundations of size (400mmx300mm) at surface and 1000mm deep and erection of retroreflective SLB/BSLB/SB/ calling on boards/stop dead boards/GoodsWarningBoard/PassangerWarningBoard as per drg. No. NR/S&T/CON/7.4/97 & provisions of SEM. Supply of SLB/BSLB/SB/calling on boards as per approved Drg. No.SA-2373 or latest has to be done by the contractor. Inspection: Site Engineer							
92	1	22.00	Numbers	1102.06	24245.32	AT Par	24245.32
Description:- Installation, erection and wiring of LED lit dependent shunt signal /illuminated 'A' marker/ 'AG' marker/ 'F' markers on the same post below main signal on offset bracket. Which also includes fixing of stencil and hoods, wiring and focussing of the signal. Offset brackets, calling on signal/shunt signal complete will be supplied by Railways (Supply of calling on/shunt signal is covered separately, else where in the schedule). U-bolt for offset bracket and wire and wiring material will be supplied by contractor. Inspection: Site Engineer							
93	1	22.00	Numbers	12440.96	273701.12	AT Par	273701.12
Description:- Supply of shunt signal position light with lock, unit offset bracket 3.5" dia. without holders bulbs etc. to drg.no.SA 23840(adv) to SA 23848 (adv), spec no .IRS-S-23/88 Dependent post type. Inspection :RITES							
94	1	10.00	Numbers	12263.64	122636.40	AT Par	122636.40
Description:- Supply of shunt signal position light complete with lock, unit post and surface base mounting socket 90mm dia without holders bulbs etc. to drg.no.23840 adv. Or latest specs.no.IRS-S-23/88 Independent post type. Inspection :RITES							

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95	1	10.00	Numbers	3915.96	39159.60	AT Par	39159.60	
	Description:- Casting, concreting and curing of foundations for shunt signal/ 'F' marker of size (855mmx855mm) at bottom and (711mmx711mm) at top and 750mm deep as per approved Drg. no. NR/S&T/CON/2-1/97A. All material such as cement, coarse sand, aggregate & foundation bolts will be supplied by contractor. Inspection: Site Engineer							
96	1	10.00	Numbers	1274.80	12748.00	AT Par	12748.00	
	Description:- Installation, erection and wiring of independent position light shunt signal/'F' marker.This includes fixing of shunt signal, surface base signal post,LED signal unit/ lenses, lamp hood and wiring of shunt unit and focusing the signal. All material such as wire,nut& bolt etc. will be supplied by the contractor. Inspection: Site Engineer							
97	1	12.00	Numbers	10560.96	126731.52	AT Par	126731.52	
	Description:- Provision of screen on signal when they fall with in two meter from live conductor by expanding Metal size 20mm X 60mm (strand 3.25 mm wide and 1.6 mm thick) as per instruction at site by Engineer incharge .This includes supply of all materials including earth electrode and earthing arrangement. Inspection: Site Engineer							
98	1	50.00	Job	9125.99	456299.50	AT Par	456299.50	
	Description:- Fixing, wiring, testing & adjustment of point machines as per standard practice. It also includes :- i) Fixing of switch extension 'P' bracket, providing insulation for switch extension bracket, fixing ground connections, adjusting the correct opening of switches and adjusting the point machine with crank handle. ii) Wiring inside the point machine, erection & wiring of JB with lock & key as per drawing, provided with terminal strips. iii) Supply & fixing of GI pipes with flange for taking cable in to point machine and jn. Box through gland/GI pipe. iv) Complete material for installation viz. point insulation material, Jn. box, GI pipe, gland pipe, wiring material, nut & bolts of various sizes, angle iron of size 75mmx75mmx10mm, channels for fixing the machine, lugs for point rodding and insulation materials for stretcher bar 90R/52kg/60kg as per . drg.no.SA-23172 (adv.) Alt.1 will be supplied by the contractor. v) Smithy and fitting work required at site for complete installation of Gauge tie plate and insulation of GTP as per approved Drg.no.NR/S&T/CON/7-6/97 and william stretcher bar (if reqd.) will be done by the contractor. Machine shall be overhauled by contractor if required. vi) This includes removal of existing gears and fixing the machine at raised level on channel as per standard practice to avoid flooding wherever required. vii) Supply of ground connections of electric point machine, non insulated GTP & CTP extension plate,Jn. box and stretcher bar shall be made available by the Rlys. in which the supply of ground connections, Jn box is covered separately. Inspection: Site Engineer							
99	1	50.00	Job	243.77	12188.50	AT Par	12188.50	
	Description:- Supply and fixing of Spigot for point machines. (Job = Per Pt.M/c) .Inspection : Consignee							
100	1	50.00	Job	10105.75	505287.50	AT Par	505287.50	
	Description:- Fabrication & Supply of complete set of point rodding for point machines of IRS type or its equivalent type as per . drg. No. SA 8800-01 (Adv) or latest along with 'P' brackets and 'L' bracket required (coal Bengal for smithy work, all type of nuts & bolts and Lugs as reqd. also to be supplied by contractor with each set) , Inspection: Rites							
101	1	50.00	Set	388.46	19423.00	AT Par	19423.00	
	Description:- Supply of Insulation for 'L' type bracket for point fitting IRS type complete consisting of Insulation plate - 01 No. Ferrule - 02 Nos. Washers - 04Nos. (Material Nylon 66). Inspection : CONSIGNEE							
102	1	100.00	Set	993.37	99337.00	AT Par	99337.00	
	Description:- Supply of Insulation for 'P' bracket for point fitting IRS type complete consisting of Insulation plate - 01 No. Ferrule - 02 Nos. Washers - 04Nos. (Material Nylon 66). Inspection : CONSIGNEE							
103	1	20.00	Job	18214.58	364291.60	AT Par	364291.60	
	Description:- Supply, installation and wiring complete KLCR and its box in location boxes, supply, installation, wiring of heavy duty push button, LED indicator on MS sheet as per N.R. practice for crank handle locking. This work includes fixing & wiring of magneto telephones as per instructions of the site Engr. This includes all materials such as heavy duty push button, LED indicator (10mm), MS sheet of 4.5mm thick, nuts and bolts, fixing materials for the magneto telephone, and wiring materials to be supplied by contractor Inspection : RDSO							
	1	42.00	Numbers	15024.47	631027.74	AT Par	631027.74	

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104	Description:- Installation of Berthing and straight DC track circuits to suit RE area as per std. Practice. This will include following as per site requirement :- (a) Drilling of holes 7.2 mm dia or size as required provision of continuous G.I. wire bonding on switch portion and crossing of point with two bonds wires and two clips duly fastended with fish plates and bolts at each joints including transverse bonding with rope wire. 8 SWG G.I. soft bond wire, Channel bond pins and all other material required will be supplied by contractor. (b) Jumpering from rail to rail or to track lead junction box including polarity jumpers/cables as per track jumpering/ insulation diagram. This includes continuity of joint on rail web for TLJB/BOOTLEG bonding method, terminating the jumpers in the TL JB and fixing the jumper on the sleeper as per instructions of Engr. at site. (c) Fixing of insulated block joints complete with provision of skimmed fish plate. Fish plates shall be supplied by the Railways but skimming to be done by contractor. Supply of insulation materials for insulated block joints is not included.(d) Fixing of TL JB's as per drg. No.(NR/S&T/CON/3.2/97A) along with concrete foundation and plastering on both ends i.e. T.F. and TR end and for polarity changers as per the track jumpering/ insulation diagram. All material for fixing including angle iron shall be supplied by the contractor. This also includes supply and fixing of TLJBs will provision of M-6 terminals. TLJB to be written with track circuit number. (e) Prov. and wiring in the app. Cases/relay huts of T.F. battery charger, TF resistance 15 Ohms, track relays, choke B type (at Feed End & Relay End) & batteries as per the standard practice using fuses and terminals. This all include supply of all material by contractor except supply of TF battery charger, batteries, relays which are covered separately.(f) Commissioning of track circuits as per prov.of para of IRS specn. S-36/87 Amd 2. This includes adjustment of track feed resistance, testing with train shunt resistance. This also includes preparation of track history cards. Track history card should be supplied by the contractor.Inspection : Site Engineer						
105	1	20.00	Numbers	24824.27	496485.40	AT Par	496485.40
	Description:- Installation of Point track circuit having single point (excluding traps) DC track circuits to suit RE area as per std. Practice. This will include following as per site requirement:- (a) Drilling of holes 7.2 mm dia or size as required provision of continuous G.I. wire bonding on switch portion and crossing of point with two bonds wires and two clips duly fastended with fish plates and bolts at each joints including transverse bonding with rope wire. 8 SWG G.I. soft bond wire, Channel bond pins and all other material required will be supplied by contractor. (b) Jumpering from rail to rail or to track lead junction box including polarity jumpers/cables as per track jumpering/ insulation diagram. This includes continuity of joint on rail web for TLJB/BOOTLEG bonding method, terminating the jumpers in the TL JB and fixing the jumper on the sleeper as per instructions of Engr. at site. (c) Fixing of insulated block joints complete with provision of skimmed fish plate. Fish plates shall be supplied by the Railways but skimming to be done by contractor. Supply of insulation materials for insulated block joints is not included.(d) Fixing of TL JB's as per drg. No.(NR/S&T/CON/3.2/97A) along with concrete foundation and plastering on both ends i.e. T.F. and TR end and for polarity changers as per the track jumpering/ insulation diagram. All material for fixing including angle iron shall be supplied by the contractor. This also includes supply and fixing of TL JB's will provision of M-6 terminals. TLJB to be written with track circuit number. (e) Prov. and wiring in the app. Cases/relay huts of T.F. battery charger, TF resistance 15 Ohms, track relays, choke B type (at Feed End & Relay End) & batteries as per the standard practice using fuses and terminals. This all include supply of all material by contractor except supply of TF battery charger, batteries, relays which are covered separately.(f) Commissioning of track circuits as per prov.of para of IRS specn. S-36/87 Amd 2. This includes adjustment of track feed resistance, testing with train shunt resistance. This also includes preparation of track history cards. Track history card should be supplied by the contractor.Inspection : Site Engineer						
106	1	5.00	Numbers	27016.96	135084.80	AT Par	135084.80

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	Description:- Installation of Point track circuit having double point (excluding traps) DC track circuits to suit RE area as per std. Practice. This will include following as per site requirement:- (a) Drilling of holes 7.2 mm dia or size as required provision of continuous G.I. wire bonding on switch portion and crossing of point with two bonds wires and two clips duly fastened with fish plates and bolts at each joints including transverse bonding with rope wire. 8 SWG G.I. soft bond wire, Channel bond pins and all other material required will be supplied by contractor. (b) Jumpering from rail to rail or to track lead junction box including polarity jumpers/cables as per track jumpering/ insulation diagram. This includes continuity of joint on rail web for TLJB/BOOTLEG bonding method, terminating the jumpers in the TL JB and fixing the jumper on the sleeper as per instructions of Engr. at site. (c) Fixing of insulated block joints complete with provision of skimmed fish plate. Fish plates shall be supplied by the Railways but skimming to be done by contractor. Supply of insulation materials for insulated block joints is not included.(d) Fixing of TL JB's as per drg. No.(NR/S&T/CON/3.2/97A) along with concrete foundation and plastering on both ends i.e. T.F. and TR end and for polarity changers as per the track jumpering/ insulation diagram. All material for fixing including angle iron shall be supplied by the contractor. This also includes supply and fixing of TL JB's will provision of M-6 terminals. TLJB to be written with track circuit number. (e) Prov. and wiring in the app. Cases/relay huts of T.F. battery charger, TF resistance 15 Ohms, track relays, choke B type (at Feed End & Relay End) & batteries as per the standard practice using fuses and terminals. This all include supply of all material by contractor except supply of TF battery charger, batteries, relays which are covered separately.(f) Commissioning of track circuits as per prov.of para of IRS specn. S-36/87 Amd 2. This includes adjustment of track feed resistance, testing with train shunt resistance. This also includes preparation of track history cards. Track history card should be supplied by the contractor. Inspection : Site Engineer						
107	1	64.00	Numbers	4760.99	304703.36	AT Par	304703.36
	Description:- Supply of QTA2 relays AC immunised plug in type DC 9 Ohm neutral track relay miniature tractive armature with 2F/1B contacts as per BRS : 939A or latest amendments if any, BRS :966 Append F2, IRS-S-34 & IRS-S-23 & IRS-S-60 (as applicable). Inspection : RDSO						
108	1	64.00	Numbers	4077.71	260973.44	AT Par	260973.44
	Description:- Supply of track feed batt. charger 110VAC/2-4-6 VDC / 10 Amps as per RDSO spec. no. IRS: 89/2013 (Amd 1) or latest from RDSO appd. Firm. Inspection : RDSO						
109	1	212.00	Numbers	2978.66	631475.92	AT Par	631475.92
	Description:- Supply of sec. cell low maintenance 2 V/ 80 AH. conforming to IRS S-88/2004 Rev-1or latest with micro porous vent plugs cum floats with inter cell connectors, nuts,bolts,washers etc. Inspection : RDSO						
110	1	15.00	Numbers	6058.08	90871.20	AT Par	90871.20
	Description:- Supply of Relay AC immune ,plug in type,style QBAT, DC biased track, 9 ohms 24 V DC 2F/2B contacts, front & back contacts metal to carbon with plug board retaining clip conforming to RDSO/SPN/84, Ver 2.0 Alongwith IRS:S-23, S-34 & IRS:S-60 (as applicable). The interlocking code for this unit shall be ABEJX. Inspection : RDSO						
111	1	10.00	Numbers	2689.85	26898.50	AT Par	26898.50
	Description:- Supply of Electronic Timer relay, 24V DC , 60/120 Sec as per RDSO Spec. IRS : S 61/2000 (Amend. No. 3 or latest. Inspection RDSO						
112	1	10.00	Numbers	280.44	2804.40	AT Par	2804.40
	Description:- Supply of Hydrometer Exide make for measuring specific gravity of battery, graded acid with mounting stand in location boxes. Inspection : Consignee						
113	1	300.00	Numbers	7.89	2367.00	AT Par	2367.00
	Description:- Supply, fixing and wiring of PPTC Fuses 2/6A make tyco/Raychem/Bourn/Fuzetech/Little Fuse or similar. Inspection : Consignee						
114	1	212.00	Numbers	231.19	49012.28	AT Par	49012.28
	Description:- Charging of lead acid secondary cells of 80 AH capacity as per standard charging procedure (with contractor charging equipments). All charging materials ie. Sulphuric acid conforming to latest IRS specs and distilled water as per IRS specs will be supplied by contractor. This also includes installation of secondary batteries, their interconnection and writing work. Inspection : Site Engineer						
115	1	1.00	Numbers	125501.30	125501.30	AT Par	125501.30
	Description:- Toolkit for testing & maintenance of SSDAC . Inspection : Consignee						
116	1	2.00	Pair	56636.61	113273.22	AT Par	113273.22
	Description:- Supply & installation of automatic media changeover of modem working on redundant channel data transmission on OFC/QUAD. Inspection :Consignee						
117	1	2.00	Pair	76521.54	153043.08	AT Par	153043.08
	Description:- Supply & installation of Modem compatible with existing UFSBI system to work on backup media (2 MBPS E1 channel from STM) The required type must be mentioned while ordering. Inspection :Consignee						
	1	2.00	Set	252177.61	504355.22	AT Par	504355.22

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118	Description:- Supply of OFC integrated access device 1U height or 1.5 U height / 19 " rack mountable for LVCD / Digital axle counter purpose ; optical module integrated in the unit supporting dual core OFC and one 100Mbps Ethernet port for surveillance / smoke detector ; optical distance support to be 20 kms ; unit to support one E & M module supporting four 2W / 4W (each port configurable) to support axle counter / UFSBI / Control phone / EC / RTU / and one TELNET / SNMP port ; unit to support DC / AC power supply ; unit to support change over mechanism between quad and optical fiber for E & M option ; one number cable to be provided along with unit for E & M ; FABIO / 2CX / OFC / DC & Module 2W / 4W four port : Make : TEAM ENGG / FABIO / WAVES or similar / TANSY. Inspection Consignee						
119	1	28.00	Job	25765.65	721438.20	AT Par	721438.20
119	Description:- Supply, Installtion & Commissioning of maintenance free earth suitable kit as per RDSO Specification no. RDSO/SPN/197/2008 and Drg No. SDO/.E&B/001 dated:- 19.09.2008 and Drg No. RDSO/SDO/.E&B/002 dated:- 19.09.2008. Earthing kit consisting of earthing electrode of 17mm dia as 3m long -01 no 2 MEEB (300mmx25mmx6mm) -o1 no. 3. SEEB (150mmx25mmx6mm) -01 no 4. Earth enhancing compound - 30 kg (minimum). This includes:- Provision of earth connection from MEEB to S&T equipment i.e. cable sheath, apparatus case, BPAC, Axle counter, IPS, Data Logger etc. with PVC earth wire of size 25/35 sq.mm through copper lugs of suitable size PVC earth wire shall be supplied by Railways. Note: At certain locations, it may not be possible to acheive earth resistance of less than 1.0 ohm with one earth electrode /pit due to soil resistivity. In such cases, provision of loop earth consisting of more than one earth pit shall be done, for interconnection of two earth pits copper tape of size 25x2 sq.mm shall be provided by the contractor. The number of pits required shall be decided based on the resistance achieved for the earth pits already installed. The procedure mentioned above for one earth pit shall be repeated for other earth pits. The other earth so installed for the purpose of loop earthing arrangement shall be counted as seperate earth. Inspection : RDSO						
120	1	200.00	Job	3571.71	714342.00	AT Par	714342.00
120	Description:- Supply and installation of earth electrodes as per std. practice. The item includes digging of pit in earth, 3 Mtrs. deep and fixing earth electrode pipe. Casting of cement concrete enclosures as per drg. No. (NR/S&T/CON/6.4/97). The soil treatement shall be done as per std. pratice. The item includes provn. of mild steel flat of size 35mm x 6mm (as per IRSEM) and nut bolted connection of MS flat with earth electrode. The other end of mild steel flat to be connected to block instrument, cable sheath of power equipment, signal base, apparatus case, CT rack / relay racks, other equipments as per the instruction of Engr. at site & IRSEM. Earhting connection location to location shall be done through cable which shall be provided by Railway. Complete materials such as earth electrodes as per drg. No. (NR/S&T/CON/6. 3/97), cement, wiring material, nut bolt for connection & mild steel flat of size 35mm x 6mm or 210 sqm as per SEM etc. to be supplied by the contractor. Inspection : RDSO						
121	1	85.00	cum	141.12	11995.20	AT Par	11995.20
121	Description:- Earth work for excavation and refilling around location boxes, signals etc. where necessary including 50m lead and 1.5m lift by excavation. The earth shall be rammed including breaking of clods, levelling and dressing. The earth work around the location/junction boxes/signals shall be up to the plaster level and for width sufficient for the maintainer to attend the box both from front & back side. Inspection : Site Engineer						
122	1	85.00	cum	3327.40	282829.00	AT Par	282829.00
122	Description:- General concrete work in cement, coarse sand and aggregate ratio 1:3:6, work scattered at different places for items not covered in above schedule and fine plastering of top will be done with cement sand ratio of 1:4 . Volume of foundation also includes volume of C.I. base, anchor bolts etc. Coarse sand, aggregate 25mm and cement to be supplied by contractor. Inspection : Site Engineer						
123	1	85.00	cum	3437.25	292166.25	AT Par	292166.25
123	Description:- Brick work with well burnt bricks in foundations and plinths with cement and sand (ordinary) mixture of 1:4 ratio. All material is to be supplied by the contractor. Inspection : Site Engineer						
124	1	1.00	Job	25397.70	25397.70	AT Par	25397.70
124	Description:- Cleaning , Scrapping , Painting and lettering of all newly installed and existing gears such as signals, point equipment, track circuit equipment with T.C. no on rail app. Cases JB. TL JB's point rodding cranks, compensators etc. including gate equipment if existing in station section as per the provision of IRSEM. All paints (ISI marked) shall be approved by Railway Engr. and painting material to be supplied by the contractor. This item also includes writing and painting requirement of all indoor and outdoor gears along with making of all circuit nos. near terminal and terminal boards/track in app. Cases, junction boxes, relay room, SMs room, writing of relay nomenclature fuse nos. and equipment nomenclature as the approved plans and as per provision of IRSEM. (1 Job=1 Station). Inspection : Site Engineer						
125	1	37.00	Numbers	1405.80	52014.60	AT Par	52014.60
125							

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125	Description:- Dismantling and releasing single signal post which includes dismantling of signal fittings electrical and mechanical both wheel of sorts, GI pipe pullies, pully stakes wire run from cabin to signal posts etc. All dismantled material to be transported and stack in the store of SSE/Sig/C/Store/TKJ or DY.CMM/SSB store depot at SSB/site supervisor or any other store of northern railway as per .. Note :- Before dismantling joint survey is to be done with the site engr. and report to be submitted to the site engr. (1 Job= 1 Signal). Inspection : Site Engineer						
126	1	47.00	Numbers	1510.69	71002.43	AT Par	71002.43
	Description:- Dismantling and releasing of Point eqpts. which includes all S&T fittings of electrical and mechanical, facing point lock/ hand plunger lock/ lock bar / holding bar/ EPD/ mechanical detector/ Pt. machine with all attachments. All dismantled material to be transported and stack in the store of SSE/Sig/C/Store/TKJ or DY.CMM/SSB store depot at SSB/site supervisor or any other store of northern railway as per .. Note :- Before dismantling joint survey is to be done with the site engr. and report to be submitted to the site engr. (1 Job= 1 Point). Inspection : Site Engineer						
127	1	110.00	Numbers	787.09	86579.90	AT Par	86579.90
	Description:- Dismantling and releasing of location boxes which includes all S&T fittings of electrical and mechanical, releasing of termination boards, relays, terminals, batteries, track feed chargers and other associated fittings installed therein complete with fittings. All dismantled material to be transported and stack in the store of SSE/Sig/C/Store/TKJ or DY.CMM/SSB store depot at SSB/site supervisor or any other store of northern railway as per .. Note :- Before dismantling joint survey is to be done with the site engr. and report to be submitted to the site engr. (1 Job= 1 Location Box). Inspection : Site Engineer						
128	1	5.00	Numbers	12324.18	61620.90	AT Par	61620.90
	Description:- Dismantling and releasing of S&T gears in ASM room, Battery room, relay room, equipment room, DG room (including DG sets). This include all equipemt and relays, relay rack, terminal board, SM Slide frame, panel batteries, battery chargers, angle iron, etc. all materials are to be transported and stacked in the store of SSE/Sig/C/Store/TKJ at Delhi or Dy.CMM/SSB store depot at DLI or any other store of northern railway as per consignee. (Job = Per Room). Note :- Before dismantling joint survey is to be done with the site engr. and report to be submitted to the site engr.						
129	1	30.00	Numbers	4467.74	134032.20	AT Par	134032.20
	Description:- Shifting of Apparatus case Single and it includes the Excavation of pit in and around the existing location boxes very carefully without damaging the working cables and shifting and turning the location boxes to clear of the infringement as instructed by the railway representative at site. The work includes ensuring the safety of the signalling system, releasing the cables coils to give access for shifting/ turning the location boxes. Necessary masonry work and earth work in and around the location boxes to the required level shall be done as instructed by the Railway representative at site, if the existing earth connection to the location boxes are disturbed the earth wires shall be the properly reconnected. (All materials required for the work shall be supplied by the contractor). Inspection : Site Engineer						
130	1	30.00	Numbers	2956.88	88706.40	AT Par	88706.40
	Description:- Shifting of Apparatus case half and it includes the Excavation of pit in and around the existing location boxes very carefully without damaging the working cables and shifting and turning the location boxes to clear of the infringement as instructed by the railway representative at site. The work includes ensuring the safety of the signalling system, releasing the cables coils to give access for shifting/ turning the location boxes. Necessary masonry work and earth work in and around the location boxes to the required level shall be done as instructed by the Railway representative at site, if the existing earth connection to the location boxes are disturbed the earth wires shall be the properly reconnected. (All materials required for the work shall be supplied by the contractor). Inspection : Site Engineer						
131	1	10.00	Numbers	2510.78	25107.80	AT Par	25107.80
	Description:- Shifting of Apparatus case Quarter and it includes the Excavation of pit in and around the existing location boxes very carefully without damaging the working cables and shifting and turning the location boxes to clear of the infringement as instructed by the railway representative at site. The work includes ensuring the safety of the signalling system, releasing the cables coils to give access for shifting/ turning the location boxes. Necessary masonry work and earth work in and around the location boxes to the required level shall be done as instructed by the Railway representative at site, if the existing earth connection to the location boxes are disturbed the earth wires shall be the properly reconnected. (All materials required for the work shall be supplied by the contractor). Inspection : Site Engineer						
132	1	1.00	Numbers	5533.41	5533.41	AT Par	5533.41
	Description:- Supply, installation, commissioning of fault locator for short circuit detection in the fire alarm loop required as per UL listed solution & RDSO/SPN/217/2018. ver 2.0 or latest. Inspection : RDSO						
133	1	32.00	Set	5728.35	183307.20	AT Par	183307.20

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	Description:- Supply, installation, commissioning of Heat and Smoke Multi sensor detector with automatically adjusts sensitivity levels without the need for operator intervention or programming sensitivity increase with heat varying and floating sensitivity from 0.5 to 4%/Ft and shall be plug in type facility and address through switch. The base should also be supplied as per RDSO/SPN/217/2018. ver 2.0 or latest. Inspection : RDSO							
134	1	1.00	Numbers	466264.35	466264.35	AT Par	466264.35	
	Description:- Supply of Addressable fire alarm control panel 3 loop (Expandable up to 4 loop) which consists of display board, 160 Character Display with Touch key pad, Mother board which has CORTEX 32 bit processor, Inbuilt RS-485 Networking Circuit for peer to peer networking, Inbuilt USB 2.0 Port for upload and download the Configuration tools, Two inbuilt programmable inputs, Two inbuilt NAC's, and Three Programmable Relay, and 4 loop Card circuits. Power Supply Board which will have SMPS fully protection board, which its operates on 120 to 220V AC +/- 10% with 50/60Hz, battery backup 24VDC with built in charger. the panel have IP-50 rating Optional : for BMS integration MODBUS converter, Graphical Software, Software for TCP/ IP Module, provision for auto dialler approval UL Listed (as per RDSP specification No. RDSO/SPN/217/2021. Ver. 3.0 or latest. Inspection : RDSO							
135	1	100.00	Metre	1692.35	169235.00	AT Par	169235.00	
	Description:- Supply, installation, commissioning of analogue type Linear Heat Sensing (LHS) cable which is self restorable after the fire event as long as its temperature does not exceed specified resettable temperature limit of 120 degree celsius it shall have an activation temperature of 70 degree celsius as per RDSO/SPN/217/2018. ver 2.0 or latest. Inspection : RDSO							
136	1	1.00	Numbers	25088.59	25088.59	AT Par	25088.59	
	Description:- Supply, installation, commissioning of GSM interface module suitable to interface with the control panel as per RDSO/SPN/217/216, Ver 1.0 or latest. Inspection : RDSO							
137	1	2.00	Numbers	5496.52	10993.04	AT Par	10993.04	
	Description:- Supply, installation, commissioning of UL listed glass break manual call point as per RDSO/SPN/217/2018. ver 2.0 or latest. Inspection : RDSO							
138	1	2.00	Numbers	10870.22	21740.44	AT Par	21740.44	
	Description:- Supply, installation, commissioning of audio visual alarm unit as per RDSO/SPN/217/2018. ver 2.0 or latest.Inspection : RDSO							
139	1	2.00	Numbers	140903.85	281807.70	AT Par	281807.70	
	Description:- Supply, installation, commissioning of Linear Heat Sensing interface module as per RDSO/SPN/217/2018. ver 2.0 or latest. Inspection : RDSO							
140	1	2.00	Numbers	4981.32	9962.64	AT Par	9962.64	
	Description:- Supply, installation, commissioning of end of Line box for linear Heat Sensing cable as per RDSO/SPN/217/2018. ver 2.0 or latest. Inspection : RDSO							
141	1	250.00	Metre	275.27	68817.50	AT Par	68817.50	
	Description:- Supply, installation, commissioning of circuit integrity cable 2 core 1.5 Sq.mm as per RDSO/SPN/217/2018. ver 2.0 or latest. Inspection : RDSO							
142	1	2.00	Numbers	3637.54	7275.08	AT Par	7275.08	
	Description:- Supply, installation, testing and commissioning of resettable probe type bimetallic heat sensor as per RDSO specification no. RDSO/SPN/217/2018 ver 2.0 or latest. Purchase by RDSO approved firm. Inspection : RDSO							
143	1	10.00	Numbers	9974.42	99744.20	AT Par	99744.20	
	Description:- Supply of ISI marked Carbon di Oxide type (BC) fire extinguisher of 4.5 Kg capacity confirming to IS: 2878 from seamless cylinder confirming to IS: 7285 with IS marked control value conforming to IS: 3224 high pressure myr. Long discharge hose and horn complete with initial gas charged with carrying handle and wall mounting bracket etc. as required by site Engineer . Inspection : RITES							
144	1	1.00	Numbers	38335.22	38335.22	AT Par	38335.22	
	Description:- Supply and Installation of Demineraliser plant of capacity 65 Litres per hour approx. This includes all the pipe connections from water source to unit and also to collection unit as per instruction of site engineer. Inspection : Consignee							
145	1	1.00	Set	44286.40	44286.40	AT Par	44286.40	
	Description:- Supply of ESM furniture of Godrej or similar make consisting of the following :- 1. Executive revolving bearing series low back floating chair with normal arms cushioned Chair : 1No. 2. Executive Table size 72x36x30" with 3 drawers one side, lockers cabinet on other side : 1No. 3. Visitor chair seat & back cushion with high density Foam with plastic PVC handle capsul type Flat pipe duly Painted black : 3Nos. 4. One Steel Almirah of size 48"x30"x17" with lock and handle arrangement for record keeping at station. Inspection : Consignee							
146	1	1.00	Numbers	6621.34	6621.34	AT Par	6621.34	
	Description:- Supply of Electric drill machine of size up to 6 mm Model no.EG-2C of Ralliwolf make or equivalent. Inspection : consignee							
	1	33.00	Hour	1074.69	35464.77	AT Par	35464.77	

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147	Description:- Engaging mechanical excavators like JCB or other machineries for regarding and leveling the formation, dismantling any infringing structures, cleaning and removing debris etc., with all leads and lifts etc., complete and as per the instruction of Railway representative at site. Inspection: Site Engineer							
148	1	2.00	Numbers	4647.73	9295.46	AT Par	9295.46	
	Description:- Supply of Megger 500VDC /1000VAC with earth tester electronic push button type phillips or similar made MICO. Inspection: Consignee							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B-Telecommunication Items							8000137.43	
1	1	2000.00	Metre	78.90	157800.00	AT Par	157800.00	
	Description:- Excavation of cable trench (Kacha) of 300mm wide and 1200mm deep for all type of soil, back filling after laying of telecom cable/ OFC in GI/HDPE pipes ramming of soil in trenches and consolidation of soil. This also includes clearing of roots of trees and bushes & temporary obstruction on the selected routes. Where digging of trench of 1200mm depth or 300mm width or both is not possible as per site condition & the same can be reduced if accepted by the site engineer, the payment shall be decreased proportionately according to the volume. It shall conform to the safe distance as per signalling/telecom (NR/S&T/Con/1.1/97A) and cable plan. Inspection: Site Engineer.							
2	1	16000.00	Numbers	8.33	133280.00	AT Par	133280.00	
	Description:- Supply and laying of 2nd class bricks in the trench and laying as per approved Drg. No.NR/S&T/CON/1-1/97A as per instructions of the site Engineer. Inspection: Site Engineer.							
3	1	2000.00	Metre	127.51	255020.00	AT Par	255020.00	
	Description:- Excavating and refilling of trench in Rocky soil to the level of ground with rammed earth as per approved Drg. No.NR/S&T/CON/1-1/97-A1 so as not to form a drain 0.3 Mtrs. Wide & 0.5Mtr. Deep on both side of the station alongside the track .This includes 50mm thick concreting work throughout in 1:3:6 ratio. All concreting material to be supplied by the contractor. It shall conform to the safe distance as per signalling and cable plan It also includes clearance of routes of trees & bushes. Inspection: Site Engineer.							
4	1	50.00	Numbers	1446.45	72322.50	AT Par	72322.50	
	Description:- Fabrication, supply and fixing of cable route marker as per RDSO drg. No. SDO/Cable Laying / 020, dated 31.10.11. The marker shall be fixed at various places of Cable route as per instruction of Engg. at site. Inspection: Site Engineer.							
5	1	50.00	Numbers	2968.42	148421.00	AT Par	148421.00	
	Description:- Supply and installation of RFID electronic cable route marker for S&T underground cable with progammable memory for saving the user specific data inside the RFID electronic marker memory chip, later recordable by electronic marker locator during locating (10 cm diameter with floating coil to keep detection circuit always Horizontal for better detection) which can be buried to depth of 5ft Placing in trench. Inspection: RDSO.							
6	1	200.00	Metre	111.32	22264.00	AT Par	22264.00	
	Description:- Excavating and refilling of trench 0.3 Mtr. Wide & 1 Mtr. Deep from bottom of rail flange across the track or 0.5Mtr. from ground level which ever is more as per approved Drg no. NR/S&T/CON /1-2/97. Earth should be rammed so as not form a drain. This includes removal and refilling of ballast and restoration of surface under normal traffic conditions. Inspection: Site Engineer.							
7	1	200.00	Metre	123.46	24692.00	AT Par	24692.00	
	Description:- Excavating and refilling of trench 0.3 Mtr. Wide and 0.8 Mtr. Deep on pitched/Stone/bricks paved surface, road crossing/platform etc. and restoring the surface to its original conditions. Inspection: Site Engineer.							
8	1	400.00	Metre	476.81	190724.00	AT Par	190724.00	
	Description:- Supply & laying of RCC pipe including split pipe where required 150mm inner dia, 2 meter long with collars (to specification No.IS-460/1974 or latest) in the trench across the track/road & L-xing gates etc.(Length of half pipes will be counted as combined length of top & bottom). Inspection: Site Engineer.							
9	1	200.00	Metre	510.74	102148.00	AT Par	102148.00	
	Description:- Supply, laying & fixing of HDPE double Wall Corrugated (DWC) Duct as per as per RDSO Specification No. RDSO/SPN/204/2011 Ver. 1.1 With Amndt-1 (outer dia 120mm in 6m st. length with one coupler for every 6m length). All the materials cement, sand etc. are to be supplied by the contractor. This include brick work and other arrangements required to secure the pipe as per specifications, drawings and stipulations of tender documents and as per approved cable route plan including road crossing/platform/track crossing and for bridges and culverts etc. Inspection : RITES for DWC pipe.							
	1	200.00	Metre	933.27	186654.00	AT Par	186654.00	

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10	Description:- Supply and fixing of G.I. pipe perforated at a distance of 20 CM or less of required length at culverts/ bridges along the cuttings, suitably concreted at both ends as per drg. No. (NR/S&T/CON/1. 4/97) or at ASM office / other buildings suitably fixing it to the wall and at both ends. G.I. clamps of M.S. flats bolts and nut, to be supplied by the contractor. G.I. pipe 75/80 mm dia, 3mm thick. Inspection: RITES						
11	1	200.00	Metre	1309.85	261970.00	AT Par	261970.00
	Description:- Supply of G.I. Trough as per drg. No. RE/S&T/Sig./Tender/22/85 and fixing of G.I. troughs on girder bridges as per drg. No. RE/S&T/Sig./Tender/SK/23/85 and refilling of trough with bitumen compound of specification no. IS-7084/73 clause (4) after the cable is laid. Inspection: Site Engineer						
12	1	1000.00	Metre	1992.80	1992800.00	AT Par	1992800.00
	Description:- HDD Boring & Trenchless of 120mm dia with HDPE pipe for laying of signalling / telecom /power cable under track/road/culvet etc cable laying is covered seperately. Inspection: Rites						
13	1	1000.00	Metre	2100.85	2100850.00	AT Par	2100850.00
	Description:- All work of horizontal boring and trenchless cabling along with supply,transpotation and insertion of double wall corrugated pipe -(ISI marked) conforming to RDSO Spec no. RDSO/SPN/204/2011, and the laying of cable in the boring under the track / road etc as per instruction of site engg. by using pipe of size 120 mm outer dia, 103.5 mm inner dia in which required number of cables to be crossed. The depth of horizontal boring should be minimum 1.0 m from rail flange/road level. Inspection : RITES for DWC pipe.						
14	1	10000.00	Metre	9.43	94300.00	AT Par	94300.00
	Description:- Laying of signalling/Telecom/power cables of different sizes as per approved Drg. No. NR/S&T/CON/1-1/97A and as per cable route plan approved by Railways and meggering of cable before and after its laying of all type of outdoor cables. Inspection: Site Engineer.						
15	1	10.00	Numbers	2122.62	21226.20	AT Par	21226.20
	Description:- Jointing of signalling cable straight through M-seal joint kit for U/G signalling cables, it includes supply and provision of jointing kit.Inspection: Site Engineer.						
16	1	200.00	CORE	15.51	3102.00	AT Par	3102.00
	Description:- Testing & meggering of all types of outdoor cables after its laying and termination on both ends under supervision of Railway representative. This also includes preparation of test report for core to core and core to earth on prescribed proforma for each core of the cable seperately. This also include dressing and lacing of cable on both ends. Proforma for testing and material for lacing to be supplied by the contractor. Inspection: Site Engineer.						
17	1	5.00	Job	27234.69	136173.45	AT Par	136173.45
	Description:- Supply, Installtion & Commissioning of maintenance free earth suitable kit as per RDSO Specification no. RDSO/SPN/197/2008 and Drg No. SDO./E&B/001 dated:- 19.09.2008 and Drg No. RDSO/SDO./E&B/002 dated:- 19.09.2008. Earthing kit consisting of earthing electrode of 17mm dia as 3m long -01 no 2 MEEB (300mmx25mmx6mm) -o1 no. 3. SEEB (150mmx25mmx6mm) -01 no 4. Earth enhancing compound - 30 kg (minimum). This includes:- Provision of earth connection from MEEB to S&T equipment i.e. cable sheath, apparatus case, BPAC, Axle counter, IPS, Data Logger etc. with PVC earth wire of size 25/35 sq.mm through copper lugs of suitable size PVC earth wire shall be supplied by Railways. Note: At certain locations, it may not be possible to acheive earth resistance of less than 1.0 ohm with one earth electrode /pit due to soil resistivity. In such cases, provision of loop earth consisting of more than one earth pit shall be done, for interconnection of two earth pits copper tape of size 25x2 sq.mm shall be provided by the contractor. The number of pits required shall be decided based on the resistance achieved for the earth pits already installed. The procedure mentioned above for one earth pit shall be repeated for other earth pits. The other earth so installeed for the purpose of loop earthing arrangement shall be counted as seperate earth. Inspection : RDSO						
18	1	5.00	Job	3548.84	17744.20	AT Par	17744.20
	Description:- Supply and installation of earth electrodes as per std. practice. The item includes digging of pit in earth, 3 Mtrs. deep and fixing earth electrode pipe. Casting of cement concrete enclosures as per drg. No. (NR/S&T/CON/6.4/97). The soil treatement shall be done as per std. pratice. The item includes provn. of mild steel flat of size 35mm x 6mm (as per IRSEM) and nut bolted connection of MS flat with earth electrode. The other end of mild steel flat to be connected to block instrument, cable sheath of power equipment, signal base, apparatus case, CT rack / relay racks, other equipments as per the instruction of Engr. at site & IRSEM. Earhting connection location to location shall be done through cable which shall be provided by Railway. Complete materials such as earth electrodes as per drg. No. (NR/S&T/CON/6. 3/97), cement, wiring material, nut bolt for connection & mild steel flat of size 35mm x 6mm or 210 sqm as per SEM etc. to be supplied by the contractor. Inspection : RDSO						
19	1	25.00	Numbers	6327.46	158186.50	AT Par	158186.50
	Description:- Supply, Fixing & wiring of magneto telephones with all accessories including Standard battery box and 3 nos. of RR cells in the ASM office with crank handle locations/ K-points and interlocked L-xing gates as per instructions of the site Engr. All fixing materials including Standard battery box and 3 nos. Of RR cells to be supplied by the contractor. Inspection : RDSO						

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20	1	4.00	Set	8828.85	35315.40	AT Par	35315.40	
	Description:- Supply of 4-Wire DTMF base way station eqpt. consisting of the following : i) Supply of 4 wire way station equipment as per IRS-TC 60/2007 or latest complete with 4 wire control telephone as per IRS-TC 38/97 with latest amendment suitable to work on 4/6 quads- ii) Supply of Battery charger/power supply unit 230VAC/12VDC with battery backup of 12V/7AH as per IRS-TC-72/97 or latest Inspection : Consignee							
21	1	4.00	Job	4044.42	16177.68	AT Par	16177.68	
	Description:- Installation wiring & commissioning of 4 - wire way station eqpt.Item required for installation such as wires, wiring materials, connectors, battery rack runway, hardware etc. to be supplied by contractor. (Job = Per way stn. eqpt.). Inspection : Site Engineer							
22	1	500.00	Metre	48.79	24395.00	AT Par	24395.00	
	Description:- Switch board cable as per IRS Specification No. IRS TC-24/91 - 05 Pair/0.6 mm., Inspection: Consignee							
23	1	500.00	Metre	91.52	45760.00	AT Par	45760.00	
	Description:- Switch board cable as per IRS Specification No. IRS TC-24/91 -10 Pair/0.6 mm., Inspection: Consignee							
24	1	500.00	Metre	86.81	43405.00	AT Par	43405.00	
	Description:- Switch board cable as per IRS Specification No. IRS TC-24/91 -20 Pair/0.6 mm., Inspection:Consignee							
25	1	10.00	Numbers	1139.15	11391.50	AT Par	11391.50	
	Description:- Supply and Installation of 10 pair DP box made of cast Aluminium with inbuilt locking system and water proof should have double outlet with leading in brass nozzle.The main tag block plate is mounted on the inner aluminium chamber with brass terminal studded in bakelite sheet. DP boxes & termination of cables as per specifications, drawing and stipulations of tender documents. . This includes fixing of the same on 1" thick board of size as per directions of site engineer with ground nuts and bolts of suitable size and pipe fixed with clamps on pole /wall . All materials required for fixing & termination including salwood/hylum board and the hardware required for fixing will be supplied by contractor. Inspection : Consignee							
26	1	10.00	Numbers	1584.43	15844.30	AT Par	15844.30	
	Description:- Supply and Installation of 20 pair DP box made of cast Aluminium with in built locking system and water proof should have double outlet with leading in brass nozzle.The main tag block plate is mounted on the inner aluminium chamber with brass terminal studded in bakelite sheet. DP boxes & termination of cables as per specifications, drawing and stipulations of tender documents. . This includes fixing of the same on 1" thick board of size as per directions of site engineer with ground nuts and bolts of suitable size and pipe fixed with clamps on pole /wall . All materials required for fixing & termination including salwood/hylum board and the hardware required for fixing will be supplied by contractor. Inspection : Consignee							
27	1	10.00	Numbers	3364.00	33640.00	AT Par	33640.00	
	Description:- Supply and Installation of 50 pair DP box made of cast Aluminium with in built locking system and water proof should have double outlet with leading in brass nozzle.The main tag block plate is mounted on the inner aluminium chamber with brass terminal studded in bakelite sheet. DP boxes & termination of cables as per specifications, drawing and stipulations of tender documents. . This includes fixing of the same on 1" thick board of size as pesr directions of site engineer with ground nuts and bolts of suitable size and pipe fixed with clamps on pole /wall . All materials required for fixing & termination including salwood/hylum board and the hardware required for fixing will be supplied by contractor. Inspection : Consignee							
28	1	1.00	Job	7194.84	7194.84	AT Par	7194.84	
	Description:- Installation of Master VHF set 25W on ASM's table and wiring of the same with power supply wiring with 120AH VRLA batt. The 230VAC from IPS to be extended to the Power supply unit of the VHF & provision of power socket. This includes foundation (500x500x1000mm) and erection of the 50mm GI pipe on roof top and fixing of Antenna with GI pipe (mini. 6 mtr)& wiring from Antenna to the VHF set with provision of guy wires for support of the GI pipe. All the materials cement, sand, GI pipe, guy wires, power wire with socket etc. (VHF set, Antenna & 120AH VRLA batt. to be supplied by the Railway). Inspection : Site Engineer							
29	1	2.00	Numbers	9352.90	18705.80	AT Par	18705.80	
	Description:- Supply & installation of Annunciator (Multiway Telephone Exchange) 10 lines as per RDSO Drg No TCA-3352 (Adv.) or latest. Inspection : Consignee							
30	1	200.00	Metre	17.99	3598.00	AT Par	3598.00	
	Description:- Supply of PVC channel 1"with fixing accessories. Inspection : Consignee							
31	1	400.00	Metre	55.75	22300.00	AT Par	22300.00	
	Description:- Supply of PVC channel 2" with fixing accessories. Inspection : Consignee							
32	1	200.00	Metre	31.07	6214.00	AT Par	6214.00	
	Description:- Supply of PVC conduit pipe 1" dia with fixing accessories. Inspection : Consignee							
	1	600.00	Metre	13.46	8076.00	AT Par	8076.00	

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33	Description:- Fixing of 1"/2" PVC channel/conduit pipe 1" dia on proper clamps and screws and indoor cable laying. Inspection : Site Engineer						
34	1	20.00	Numbers	1961.60	39232.00	AT Par	39232.00
	Description:- Supply and installation of unit horn combination speakers (25Watts) & 100V line with LMT taps of 25W, 15W, 10W and 5W. Inspection : Site Engineer						
35	1	10.00	Numbers	7396.08	73960.80	AT Par	73960.80
	Description:- Supply & Installation of Thermo shrink jointing kit for 6-Quad/4-Quad cable for straight through joints as per specifications, drawings and stipulations of tender documents and as per approved cable route plan at various locations. Jointing kits to be supplied as per RDSO specification IRS:TC 77-2012 (Rev.-3) or latest amendments. Inspection : RDSO						
36	1	10.00	Numbers	8412.91	84129.10	AT Par	84129.10
	Description:- Supply & Installation of Thermoshrink jointing kit for 6-Quad cable and PIJF cable for Derivation/ Termination joints at LC Gates/Pump House/different locations as decided by the site Engineer as per IRS: TC-77/2012 (Rev.3) with amendment 1 & 2 or latest. This includes all materials required for joints. Inspection : RDSO						
37	1	5.00	Numbers	2344.38	11721.90	AT Par	11721.90
	Description:- Supply & Installation of U link Panel with 32 Nos of U link. Inspection : Site Engineer						
38	1	1.00	Numbers	6323.01	6323.01	AT Par	6323.01
	Description:- Supply of Digital insulation Tester (Megger 100V) Motwani, Philips or equal make. Inspection : Consignee						
39	1	5.00	Kilometre	68651.63	343258.15	AT Par	343258.15
	Description:- Laying of HDPE duct in the trenches, including in HDD/Manual Boring and supply pulling of Nylon rope through it at different places as per direction of Engineer incharge/ site Engineer. It includes Supply of HDPE duct outer dia 40mm & inner dia 33mm as per TEC Gr No. G/CDS-08/02 Nov /2004 with latest amendment with end cap to be provided along with the drum at both ends . (RDSO specs No. RDSO/SPN/TC/45/2013 revi 2.0) Inspection : Rites						
40	1	10.00	Numbers	31.11	311.10	AT Par	311.10
	Description:- End plug for above item. Inspection : Site Engineer						
41	1	10.00	Numbers	39.31	393.10	AT Par	393.10
	Description:- Cable sealing plug for above item. Inspection : Site Engineer						
42	1	10.00	Numbers	80.21	802.10	AT Par	802.10
	Description:- Plastic Coupler- Slip fit/ Push fit type for above item. Inspection : Site Engineer						
43	1	5.00	Kilometre	10811.21	54056.05	AT Par	54056.05
	Description:- Blowing/ Drawing of OFC cable in the HDPE duct by mechanical system. Inspection : Site Engineer						
44	1	10.00	Numbers	17627.15	176271.50	AT Par	176271.50
	Description:- Supply and installation of optical fibre cable joint enclosure as per TEC spec no. GR/OJC-02/01/March 99 with latest amendment and splicing of optical fiber cables (24 fibers and testing) . This includes provision of joint pit (RCC/Prefabricated) as detailed in the technical specifications and as advised by Engineer at site. Inspection : Consignee						
45	1	10.00	Numbers	619.11	6191.10	AT Par	6191.10
	Description:- Supply of OFC jumper (patch cards) (10 mtr. long) with FC/PC & SC or suitable connector at both end as per IRS:TC/81-2000 with latest amendments. Inspection : consignee						
46	1	5.00	Numbers	463.44	2317.20	AT Par	2317.20
	Description:- Supply of OFC jumper (pigtaills) (10 mtr. long) with FC/PC & SC or suitable connector at both end as per IRS:TC/81-2000 with latest amendments. Inspection : Consignee						
47	1	2.00	Numbers	78713.22	157426.44	AT Par	157426.44
	Description:- Supply of 48VDC (2VDC, 200AH x 24) VRLA maintenance free battery as per RDSO spec no. IRS-S-93/96(A) or latest. Inspection : RDSO						
48	1	2.00	Numbers	85492.39	170984.78	AT Par	170984.78
	Description:- Supply & installation of SMPS based FCBC charger for system rating 25Amp 48VDC (N+1) configuration i.e. using 2 module of 25Amp with automatic switching between the modules as per RDSO/SPN/TL/23/99 or latest. Inspection : RDSO						
49	1	1.00	Numbers	7064.67	7064.67	AT Par	7064.67
	Description:- Supply of digital Earth Tester 04 terminal, range 0-10/100 ohm with rechargeable battery with accessories kit as per TEC Spec no GR/TIE-10/01-April 2005 or latest . Inspection : consignee						
50	1	4.00	Numbers	35623.45	142493.80	AT Par	142493.80
	Description:- Supply and installation of Fibre management system 19" with all installation material, splicing , termination and testing of 2*24 fibre of cable that is 48 fibre with all connectors material as per the instruction of site engineer.						

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51	1	2.00	Numbers	59273.75	118547.50	AT Par	118547.50	
	Description:- Supply of 8x10 Gbps WDM interface module card or Channelized STM 1/4 card. Inspection : RDSO							
52	1	4.00	Numbers	34077.44	136309.76	AT Par	136309.76	
	Description:- Supply and installation of Fibre management system 19" with all installation material, splicing , termination and testing of 2*48 fibre of cable that is 96 fibre with all connectors material as per the instruction of site engineer. Inspection : Consignee							
53	1	10.00	Numbers	2349.72	23497.20	AT Par	23497.20	
	Description:- Supply of VF Tapping & Termination Transformers 2T/1120:470 Ohm as per IRS-TC-22/76 with Amd 1 with latest amendments from RDSO approved source. Inspection Consignee							
54	1	10.00	Numbers	369.55	3695.50	AT Par	3695.50	
	Description:- Supply of 6 pin emergency socket as per IRS/TC/42/87 (Amd 1) or latest. Inspection Consignee							
55	1	10.00	Numbers	1779.15	17791.50	AT Par	17791.50	
	Description:- Supply of "Emergency socket Box of FRP material" as per RDSO specification no. RDSO / SPN / TC / 44/ 02 Ver.2.0, Amendment No.2 or latest.from RDSO approved source. Inspection Consignee							
56	1	10.00	Numbers	5166.38	51663.80	AT Par	51663.80	
	Description:- Fabrication & Erection of Emergency Rail post complete without Emergency Socket box and emergency socket & its wiring alongside the railway track at locations to be indicated by the engineer, material for fixing of emergency socket box etc. shall be supplied by the contractor (Rail post, emergency socket & emergency socket box shall be supplied by Railway) including transportation of Rails from the store of SSE/P. Way at various stations to the location of emergency socket to be carried out by contractor. Balance rail pieces will be returned to SSE/Sig/TKJ or store of SSE/P- way by contractor. Inspection : Site Engineer.							

3. ITEM BREAKUP

No item break up added

4. ELIGIBILITY CONDITIONS

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per the Financial Eligibility Criteria in the Tender Document.	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per the Technical Eligibility Criteria in the 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.

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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)

6. Documents attached with tender

S.No.	Document Name	Document Description
1	GCC-ACS7to10.pdf	GCC ACS 7 to 10
2	TentativeSIPMCTM_.pdf	Tentative SIP MCTM
3	TenderNoticeEnglish.pdf	Tender Notice English
4	TenderNoticeHindi.pdf	Tender Notice Hindi
5	TenderDocumentMCTM_1.pdf	Tender Document MCTM
6	GCC-2022-ACS6_1.pdf	GCC 2022 upto ACS6
7	ACS11toGCC2022dated13-03-26_.pdf	GCC ACS 11

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: PARAMJEET SINGH

Designation : AESTE/USBRL