

**JODHPUR DIVISION-GATI SHAKTI/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SNT-GSU-JU-2026-27-02

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

Dy/CSTE/GSU/JU acting for and on behalf of The President of India invites E-Tenders against Tender No **SNT-GSU-JU-2026-27-02** Closing Date/Time 07/07/2026 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	S&T works in connection with "Proposed New Block Station along with development of Goods Shed At Manklav Station."		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	07/07/2026 15:00	Date Time Of Uploading Tender	12/06/2026 13:59
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	47125807.08	Tendering Section	GSU/SNT
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	942500.00	Validity of Offer (Days)	60
Tender Doc. Cost (Rs.)	0.00	Period of Completion	12 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	23/06/2026		
Are JV allowed to bid	No	Number of JV Member Allowed	0
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A-SOR Items							39263428.66	
1	01010200	1.00	Station	12060441.72	12060441.72	AT Par	12060441.72	
	Description:- Design, Manufacture & Supply of Electronic Interlocking (EI) System (with centralized arrangement) for 4 (FOUR) Line stations as per Signal Interlocking Plan in 'Hot Standby architecture'. EI system shall be provided to operate with dual VDU Control Terminal as per RDSO Specification No.RDSO/SPN/ 192/2019 Ver. 2 or latest and from RDSO approved source only. It mainly consist of Microprocessor Equipments, Interface Equipments, EI vendor specific Interfacing Relays , In-built event Logger, In-built Power Supply Equipments, Racks (Only Relay Rack/EI Rack), Indoor cables, Wires, Fuses , Fixtures, Mounting arrangements along with all accessories required to make complete EI system functional. Design of indoor EI system should be compatible as per outdoor interlocking requirement based on Signal Interlocking Plan & Selection Table of station/yard. This item also includes supply of following :- (a) Supply of documents/manuals for EI system as per RDSO Specn.No. RDSO/SPN/192/2019 Ver. 2 or latest. (b) Supply & provision of protective devices like surge and lightning protection devices compatible to RE standards as recommended by OEM / RDSO. Note: It includes supply of all the material which is required to make complete EI system to be functional and as recommended by RDSO in Specn.No.RDSO/SPN/192/2019 Ver. 2 or latest. Design , manufacture & Suupply of EI system will be done by OEM after following all the guidelines/directives issued by RDSO from time to time.The Technical Requirements are attached with the tender document. Railway will supply RDSO approved type of relays with approved contact configuration only . In case of requirement of vendor specific relays/relays with non-RDSO approved contact configuration being supplied, the same shall be supplied by the tenderer and cost of required relays shall be included in the cost of EI (Electronic Interlocking) system and number & type of such relays shall be indicated separately. Inspection: RDSO Inspection charges: Borne by Railways Payment terms:100% after supply							
	01010500	1.00	Station	624714.48	624714.48	AT Par	624714.48	

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2	Description:- Installation, wiring, testing and commissioning of EI System with 'Hot Standby' architecture as supplied upto 6 (six) line station. It includes transportation of material from consignee's depot to the site, erection and grouting of EI Relay Racks, fixing and wiring of all the interfacing relays (Vital & Non-Vital), installation and wiring of Microprocessor equipments, interface equipments, power supply equipments and all other associated accessories to make complete EI system to be functional. Note: (i) Technical Requirements are attached with tender document (ii) Contractor has to arrange simulator/simulation testing panel for testing and commissioning by Selection Table and Square Sheet for each Signalling function.(iii) Installation, wiring, testing and commissioning of EI system will be done by OEM after following all the guidelines/directives issued by RDSO from time to time. Inspection: Consignee Inspection charges: None Payment terms: 100% after commissioning						
3	01010900	2.00	Station	86892.73	173785.46	AT Par	173785.46
	Description:- Supply of work station note book as per Technical Specifications . It also includes supply of Laser Printer (Only branded). The workstation should be capable of reconfiguring the system in case of any alteration in yard interlocking in future. Technical Specifications should be attached with the tender document by Tendering authority. Inspection: Consignee Inspection charges: None Payment terms: 100% after supply						
4	01011100	1.00	Set	125748.67	125748.67	AT Par	125748.67
	Description:- Supply of Instruments and Tool Kits required for Trouble Shooting and repair of hardware and software for EI system should be supplied for stations . (This includes tools required for EI maintenance sorts of crimping, insertion, removal, general purpose tools like screw drivers, spanners, PCB extractor, temp. controlled soldering iron, wire cutter, nose pliers etc. & measuring instruments with carrying case/ holders/ cabinet for technicians/ J.E. for testing, Maintenance and repair at site). Each set comprises of the following :- * Crimping tool for all types of special cable assembly used in EI system. * Insertion tool for all types of special cable assembly used in EI system. *Removal tool for all types of special cable assembly used in EI system. * Digital multimeter (Fluke 111 or better) * Steel cabinet/ Almira, Size: 1980mm height, 915 mm width and 485 mm depth (Godrej Make/Jalaram) of good quality to store tool, spare cards and documents. * Steel Book rack Size: 1850mm height, 900 mm width and 316 mm depth for keeping documents. (Godrej Make/Jalaram) * Clamp Earth Tester.(as per specs mentioned in tender document.) * Clamp Current Meter (fluke 362 or superior) Inspection: Consignee Inspection charges: None Payment terms: 100% after supply						
5	01011200	10.00	Man-Days	1106.23	11062.30	AT Par	11062.30
	Description:- Training of Technician/ Jr. Engineer for installation, Commissioning, Testing, Repairs & Troubleshooting of EI system. (Hard copies of training material/ course modules to be given to each participant). Inspection: Consignee Inspection charges: None Payment terms: 100% after execution						
6	01011300	1.00	Station	175967.35	175967.35	AT Par	175967.35
	Description:- Design, preparation & supply of drawings in computer print copies and original tracing in AUTO CAD FORMAT for Electronic Interlocking at each station. After completion of the work, the completion drawings incorporating completion details are to be supplied as per Technical Specifications given in tender document (upto 6 Line). The technical specifications are as per ANNEXURE 1.13 of SOR. Inspection: Consignee Inspection charges: None Payment terms: 100% after execution						
7	01011400	10.00	Man-Days	1097.13	10971.30	AT Par	10971.30
	Description:- Training of Officers for installation, Commissioning, Testing, Repairs & Troubleshooting of EI system.(Hard copies of training material/ course modules to be given to each participant). Inspection: Consignee Inspection charges: None Payment terms: 100% after execution						
8	01011500	2.00	Numbers	409839.20	819678.40	AT Par	819678.40
	Description:- Supply of embedded fanless PC based VDU control terminal as per RDSO spec. No. RDSO/SPN/192/2019 Ver. 2 or latest & RDSO TAN No. - STS/E/TAN/3007 version 1 dated:02.11.12 . The size of VDU shall be minimum 42 inch. Note: (i) Technical requirements shall be mentioned in the tender document. (ii) One revolving chair should be supplied with control terminal. Inspection: RDSO Inspection charges: Borne by Railways Payment terms:100% after supply.						
9	01011600	2.00	Numbers	102459.80	204919.60	AT Par	204919.60
	Description:- Installation, wiring, testing and commissioning of embedded fanless PC based VDU control terminal as per RDSO spec. No. RDSO/SPN/192/2019 Ver. 2 or latest & RDSO TAN No. - STS/E/TAN/3007 version 1 dated:02.11.12 . Note: (i) Technical requirements shall be mentioned in the tender document by tendering authority. Inspection: Consignee Inspection charges: None Payment terms:100% after commissioning.						
10	01011700	1.00	Numbers	385774.44	385774.44	AT Par	385774.44
	Description:- Supply of embedded fanless PC based Maintenance terminal as per RDSO spec. No. RDSO/SPN/192/2019 Ver. 2 or latest & RDSO TAN No. - STS/E/TAN/3007 version 1 dated:02.11.12 . The size of VDU shall be minimum 42 inch. Note: (i) Technical requirements shall be mentioned in the tender document by tendering authority. (ii) One table of suitable size alongwith revolving chair should be supplied with Maintenance terminal. Inspection: RDSO Inspection charges: Borne by Railways Payment terms:100% after supply						
	01011800	1.00	Numbers	96443.61	96443.61	AT Par	96443.61

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11	Description:- Installation, wiring, testing and commissioning of embedded fanless PC based Maintenance terminal as per RDSO spec. No. RDSO/SPN/192/2019 Ver. 2 or latest & RDSO TAN No. - STS/E/TAN/3007 version 1 dated:02.11.12 . Note: (i) Technical requirements shall be mentioned in the tender document. Inspection: Consignee Inspection charges: None Payment terms:100% after commissioning.						
12	01012100	3.00	Station	3598.62	10795.86	AT Par	10795.86
	Description:- Preparation of SWR literature in english alongwith associated mid-section interlocked gate with all corrections as per approved SWRD & approved SIP. For this all technical corrections, editing, grammatical correction etc. are to be carried out and one rough print to be given to railways for approval before printing, as required for final processing of CRS sanction. This also includes preparation of maintenance cards in format provided by Rly. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.						
13	01012200	3.00	Station	4478.18	13434.54	AT Par	13434.54
	Description:- Translation of Station Working Rules from english to hindi and framing out in DIGLOT form (or similar software) as per extant Rly practice. The required SWR in english will be provided by the contractor and has been covered separately in item no. 1.21 of Chapter 1 of this SOR. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.						
14	01012300	30.00	Set	178.52	5355.60	AT Par	5355.60
	Description:- Making photocopies & binding of the SWR literature in English/hindi/Diglot form as per Railway practice. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.						
15	01012400	1.00	Set	22986.88	22986.88	AT Par	22986.88
	Description:- Supply of maintainer's furniture of godrej make or superior and each set consist of(i) executive revolving bearing series low back-floating chair with normal arms cushioned chair-01 Nos. (ii) Executive table size 1650x900x728 mm with 3 drawers one side locker- 01 no .(iii) visitor chair seat & back cushion with high density foam with plastic pvc handle capsule type painted back-03 nos. Inspection: Consignee Inspection charges: None Payment terms:100% after supply.						
16	01012800	100.00	Sheet	161.07	16107.00	AT Par	16107.00
	Description:- Preparation and supply of laminated one set of all the completion plans including circuit diagrams and indoor as well as outdoor completion documents on standard 75-micron polyester film for station in Auto CAD. 6 (Six) sets xerox copies will also be provided for each of the documents mentioned below: Cable Route Plan, Cable Core Chart, Location details plan for all the locations, Cable termination details, Signalling Plan, SWR Diagram, Wiring Diagrams, Selection table, Locking table, Contact analysis, Fuse and Tag Block analysis of Relay Rack, CT rack, Control cum Indication Panel/VDU Diagram, Power Panel Diagram, Track circuit plan, rack erection plan and Junction Box details etc. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.						
17	01013000	50.00	Per Relay	524.10	26205.00	AT Par	26205.00
	Description:- Addition/alteration in existing relay room wiring. It includes supply of PVC insulated indoor Railway signalling cable @ 40<45@Core/40-Core) of (1/0.6) sqmm as per RDSO Spec.No.IRS/S-76/89 (Amnd.2 or latest) for wiring between relay room and SM's/Panel room & Relay room to DP in SM office for block working. This also includes supply of PVC insulated jumper wires of multi strand 16/2 mm, tinned in all colours as per RDSO Specn.No.IRS-S-76/89(Amnd.2 or latest). This item will include bringing all the power supplies from power room to respective bus bars on relay racks by using 10/6 sqmm copper flexible wire as per instructions of engineer incharge. This will include wiring between control panel and relay room if required. All wiring will be done as per standard practice of North Western Railway with neat dressing & threading. The item includes supply & wiring of tag block, fuse with bases(G-Type and ND Type) and all other related material required for complete indoor wiring in relay room. Inspection: Consignee Inspection charges: None Payment terms:100% after commissioning.						
18	02010200	1.00	Numbers	485984.88	485984.88	AT Par	485984.88
	Description:- Supply of Micro Processor based Data Logger System with 1280 digital and 32 analog inputs as per RDSO Spec. No. IRS (S) 99/2006 or latest with laser printer 22 ppm (Only branded HP/Brother/Canon). It includes supply of all the items required for complete indoor relay room wiring from data logger to relay rack tag blocks, drawing/extension of power supply upto Data Logger. It includes relay room door lock checking arrangement, commercial power supply monitoring arrangement & monitoring of DG sets, ELD , IPS, UFSBI, BI ,interlinking and networking of Data logger. It also includes supply of leased line MODEM , suitable online UPS (minumum 6 hours backup) and other interfacing cards, if required for networking of Data Logger.This also includes supply of one no. composite computer and printer table (Godrej work station table or similar) for keeping processor module and one number Godrej operator chair Model PCH7001 or similar. Note: Total numbers of relays and other signalling functions/gears required to be wired as per list circulated vide RDSO Letter No.STS/E/Data logger dtd.12.09.2011 or latest guidelines. Inspection: RDSO Inspection charges: Borne by Railways Payment terms:100% after supply						
	02010300	1.00	Numbers	121496.22	121496.22	AT Par	121496.22

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19	Description:- Installation, wiring, testing & commissioning of Micro Processor based Data Logger System with 1280/ 4096 digital and 32 analog inputs as per RDSO Spec. No. IRS (S) 99/2006 or latest It cover complete indoor relay room wiring from data logger to relay rack tag blocks, drawing/extension of power supply upto Data Logger. It includes relay room door lock checking arrangement, commercial power supply monitoring arrangement & DG sets,ELD , IPS,UFSBI, BI interlinking and networking of Data logger. All material required for wiring, networking, power supply monitoring, door-locking arrangement etc will be supplied by contractor.. Note: Total numbers of relays and other signalling functions/gears required to be wired as per list circulated vide RDSO Letter No.STS/E/Data logger dtd.12.09.2011 or latest guidelines. Networking of data logger includes extraction of data report from test room. For networking, required communication channel(Quad/ OFC cable) will be arranged/provided by Rly in SM/ASM's room or in OFC Porta Cabin and it will be extended by contractor upto location of data logger by using CAT-5/6 telecom cable with proper casing and capping. The contractor will supply all the material like CAT-5/6 telecom cable, casing & capping, nuts, bolts etc. The final commissioning will be done after filling up of Pre-Commissioning checklist (circulated by RDSO) with the OEM representative. Inspection: Consignee, Inspection charges: None Payment terms:100% after commissioning						
20	02011400	1.00	Numbers	163959.37	163959.37	AT Par	163959.37
	Description:- Supply of Failure Analysis System (FAS) as per Technical Specifications. The specification of FAS should be got approved from the Engineer in charge before supply. Note: The Specification of FAS shall be as per technical specification given in contract Agreement or higher version as approved by Engineer In-Charge.(Technical specification shall be provided in tender documents.) Inspection: Consignee Inspection charges: Borne by Railways Payment terms:100% after supply						
21	02011500	1.00	Numbers	40989.84	40989.84	AT Par	40989.84
	Description:- Installation, testing and commissioning of Failure Analysis System (FAS) as per Technical Specifications. The specification of FAS should be got approved from the Engineer in charge before supply. Note: The Specification of FAS shall be as per technical specification given in contract Agreement or higher version as approved by Engineer In-Charge.(Technical specification shall be provided in tender documents.) Inspection: Consignee, Inspection charges: None Payment terms:100% after commissioning						
22	02012000	1.00	Numbers	26250.00	26250.00	AT Par	26250.00
	Description:- Supply of 750 VA Off line UPS with battery backup 3 Hours for Failure Analysis System of reputed make of Emerson/APC or superior as per Engineer in-charge. Inspection: Consignee, Inspection charges: None Payment terms:100 % after supply.						
23	03010200	5.00	Numbers	1836.67	9183.35	AT Par	9183.35
	Description:- Supply of Relay fail safe electronic time delay device with fixed timing (0 -120) seconds and conforming to RDSO Specn.No.IRS:S-61/2000 with Amnd.1 or latest mounted on Q-series relay base & covered complete with connectors, retaining clip etc.The interlocking code for this unit shall be ""AFGKY"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
24	03010500	20.00	Numbers	3943.56	78871.20	AT Par	78871.20
	Description:- Supply of Q-Series Neutral Line Relay (QN1 Type), 12F/4B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS- 930 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be ""ABCDE"". Inspection authority:- RDSO Inspection charges:- Bornee by Railways Payment Terms:- 100% after supply.						
25	03010600	70.00	Numbers	3789.37	265255.90	AT Par	265255.90
	Description:- Supply of Q-Series Neutral Line Relay (QN1 Type), 8F/8B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS- 930 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be ""ABCDF"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
26	03010700	100.00	Numbers	4985.33	498533.00	AT Par	498533.00
	Description:- Supply of Q-Series Twin Neutral Line Relay(QNN1 Type), 6F/2B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS-960 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be ""ACDEK"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
27	03010800	100.00	Numbers	3938.00	393800.00	AT Par	393800.00
	Description:- Supply of Q-Series Twin Neutral Line Relay(QNN1 Type), 4F/4B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS-960 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be ""ACEHJ"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
28	03010900	10.00	Numbers	5701.45	57014.50	AT Par	57014.50

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28	Description:- Supply of Q-Series Magnetically Latched Neutral Line Relay (QL1 Type), 11F/4B,24V DC complete with plug board(base plate), connectors and retaining clips and conforming to BRS-935A and RDSO Specn.No.IRS:S-34 & S-23 or latest.The interlocking code for this unit shall be ""ABDEG"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
29	03011300	50.00	Numbers	4983.53	249176.50	AT Par	249176.50
	Description:- Supply of Q-Series LED ECR (Universal Type i.e.QECX-61), 4F/4B complete with plug board(base plate), connectors, retaining clips etc and conforming to BRS:941A STS/E/RELAYS/AC LIT LED SIGNAL/09-2002 ,Amdt.-1and RDSO Specn.No.IRS:S-34 & S-23 or latest.The interlocking code for this unit shall be ""ABDHK"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
30	03011400	5.00	Kg	175.27	876.35	AT Par	876.35
	Description:- Supply of Sealing wire used for sealing of signaling relays & equipments. Inspection authority:- Consignee Inspection charges:-None Payment Terms:- 100% after supply.						
31	03011600	20.00	Numbers	4812.82	96256.40	AT Par	96256.40
	Description:- Supply of DC neutral line relay QNA1K , AC immune, DC neutral line 24V, 6F/6B contacts, complete with plug board, retaining clip and connectors. Conforming to BRS:931A & RDSO letter no STs/E/Relays/UEA/PI dated 30.05.97Annexure II and IRS:S34 & IRS:S23 or latest.The interlocking code for this unit shall be ""CDEKY"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
32	03011800	80.00	Numbers	3913.67	313093.60	AT Par	313093.60
	Description:- Supply of Q-Series Line Relay (QNA1 Type),AC immunized, 8F/8B, 24 V DC along with plug board (base plate), connectors, retaining clips etc and conforming to BRS-931A and RDSO Specn.No.IRS:S@ 45"44@ S-23 and S-60 or latest. The interlocking code for this unit shall be ""ABDGH"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
33	03012000	50.00	Numbers	3734.70	186735.00	AT Par	186735.00
	Description:- Supply of Q-Series Track Relay (QTA2 Type), AC immunized, 9 Ohms, 2F/1B along with plug board (base plate), connectors, retaining clips etc and conforming to BRS:939A & 966(Appendix F2) or latest.The interlocking code for this unit shall be ""FGHKX"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
34	03012100	50.00	Numbers	5211.27	260563.50	AT Par	260563.50
	Description:- Supply of Q-Series Neutral Line Relay(QSPA1 Type), 24V DC,8F/4B along with plug board (base plate), connectors, retaining clips etc and conforming to BRS-933A and RDSO Specn.No.IRS:S@ 45"44@ S-23 & S 60 or latest.The interlocking code for this unit shall be ""ABDEJ"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
35	03012500	10.00	Numbers	9440.00	94400.00	AT Par	94400.00
	Description:- Supply of Key Lock Checking Relay (KLCR) working on 24V DC, AC Immunized with different ward combinations and contact configuration 4F/4B with 2 extra ward plates and with case, RDSO spec no. RDSO/SPN/219/2016 ver 1.0 or latest, confirming to IRS S-23, S-34 & S@ 45<44@ IRS S:46. Inspection authority:- For bare relay -RDSO, for key lock housing- consignee Inspection charges:-Bornee by Railways Payment Terms:- 100% after supply.						
36	03011700	20.00	Numbers	7080.00	141600.00	AT Par	141600.00
	Description:- Supply of Track Relay QBAT, AC immunized, 2F-2B contacts, 9 ohms. Complete with plug board, retaining clip & connectors as perRDSO/SPN/84 Ver 2.0 or latest. The interlocking code for this unit shall be ""ABEJX"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
37	04010100	1.00	Kilometre	5813.26	5813.26	AT Par	5813.26
	Description:- Supply of PVC insulated multi strand, single core copper conductor of size 16/0.2 mm (0.5sqmm) as per IS 694:2010 and RDSO Specn.No.IRS:S-76/89 (Amnd-3) or latest. Each coil should be of 100/200/500 meters length. Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
38	04010200	100.00	Metre	36.37	3637.00	AT Par	3637.00
	Description:- Supply of 1 x 6 Sqmm (Red/Black/Green) multi strand copper power wire as per IS:694:2010 or latest, 84 conductor each dia 0.30 +/- 0.01 with insulation thickness of 0.8 mm and nominal conductor resistance of 3.3 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest.Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways(ii) None Payment Terms: 100% on Supply						

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39	04010400	100.00	Metre	99.45	9945.00	AT Par	9945.00	
	Description:- Supply of 1 x 16 Sqmm (Red/Black/Green) multi strand copper power wire as per IS:694:2010 or latest, 127 conductor each dia 0.40 +/- 0.01 with insulation thickness of 1.0 mm and nominal conductor resistance of 1.21 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest.Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways(ii) None Payment Terms: 100% on Supply							
40	04010600	100.00	Metre	176.93	17693.00	AT Par	17693.00	
	Description:- Supply of 1 x 35 Sqmm (Red/Black/Green) multi strand copper power wire as per IS:694:2010 or latest, 277 conductor each dia 0.40 +/- 0.01 with insulation thickness of 1.2 mm and nominal conductor resistance of 0.554 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest. Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply							
41	04010700	1.00	Station	38132.15	38132.15	AT Par	38132.15	
	Description:- Supply of wiring material in relay room for potential free relay contacts for digital & analog Inputs (1280 digital inputs and 32 analog inputs). It includes supply of PVC insulated indoor Railway Signalling cable (1/0.6 sqmm dia), 60-Core/40-Core/Single Core as per RDSO Specn.No.IRS:S-76/89(Amnd.3) or latest, PVC insulated jumper wires multi strand, tinned in all colours as per RDSO Specn.No. IRS: S-76/89 (Amnd.3) or latest. The item also includes supply & wiring of Modular disconnect terminals /Tag Blocks as per RDSO Specn.No.IRS:S-77/2006 (Rev.1) or latest and RDSO Drg.No.SA-24751 or latest. The wiring for getting potential free contacts of relays for complete PI/RR/I/El installation including points, tracks, signals, panel, power supply, IPS, SSDAC,TLBI,LC Gates, crank handle control etc will be done by contractor. All material will be supplied by contractor except the relays. The Relays will be supplied by Railway. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Installation & commissioning							
42	04011300	4.00	Numbers	22732.41	90929.64	AT Par	90929.64	
	Description:- Supply of Cable Termination(CT) racks as per Drg.No.CSTE/NWR/ SOR/02 complete along with fitting arrangements and also with arrangement for fixing four 8-way terminal strips/ Screw less terminals/ ARA terminals on each row having 16 such rows. Supply of 8 way terminal strips/ Screw less terminals / ARA terminals not covered under this item. Cable termination rack shall be Powder Coated. Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply							
43	04011400	4.00	Numbers	8687.12	34748.48	AT Par	34748.48	
	Description:- Installation of Cable Termination Racks Assembly complete including wall supports, scaffolding and suitable grouting arrangements with installation of 8 way/ARA terminals /Screw less connectors, Tag blocks & other necessary accessories etc. The work shall be done as per approved plan, extant practice on NWR & the instruction of Rly engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% on commissioning.							
44	04011500	10000.00	Numbers	87.41	874100.00	AT Par	874100.00	
	Description:- Supply of ARA Terminal Block (M-6) made of PBT/Poly Carbonate as per RDSO Specn.No.IRS:S-75/2006 (Rev.2) or latest and RDSO Drg.No. SA-23741A(Alt. 4) or latest. Inspection: RDSO. Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.							
45	04011600	100.00	Numbers	152.98	15298.00	AT Par	15298.00	
	Description:- Supply of Cartridge Fuse Block made of PBT and as per RDSO Drg. No. SA-23748 (Alt. 4) or latest and RDSO Specn.No.IRS:S-75/2006 (Rev.2) or latest. Inspection: RDSO. Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.							
46	04011701	200.00	Numbers	61.11	12222.00	AT Par	12222.00	
	Description:- Supply of indicating type fuse inserts with holder (material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply. 0.6 A							
47	04011702	200.00	Numbers	64.41	12882.00	AT Par	12882.00	
	Description:- Supply of indicating type fuse inserts with holder (material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply. 1.6 A							
48	04011801	200.00	Numbers	20.23	4046.00	AT Par	4046.00	

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	Description:- Supply of indicating type fuse inserts without holder (material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply. 0.6 A						
49	04011802	200.00	Numbers	18.22	3644.00	AT Par	3644.00
	Description:- Supply of indicating type fuse inserts without holder (material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply. 1.6 A						
50	04011900	500.00	Numbers	54.64	27320.00	AT Par	27320.00
	Description:- Supply of round head type non-deteriorating type low voltage cartridge fuse as per RDSO Specn.No.IRS:S-78/92 or latest and Capacity - 2/4/6/10A/16A/20A Amp. (material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.						
51	04012400	1.00	Kilometre	154443.58	154443.58	AT Par	154443.58
	Description:- Supply of PVC insulated Railway Signaling multi-core Indoor Cable 60core (0.6mm dia) conforming to IRS:76/89(Amd3) or latest. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
52	04012500	2000.00	Per Conductor	8.46	16920.00	AT Par	16920.00
	Description:- Termination of Outdoor Cables (Main Cables /tail cables) at both ends in location boxes, cable termination rack in relay room, station building, generator room etc. The item includes dressing of cables and wires with dressing threads as per standard practice. All material required for this item will be supplied by contractor. The outdoor cable shall be terminated in Relay Room, DG Room, ASM Room etc under supervision and instructions issued by Engg. incharge of the work. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution						
53	04012801	5000.00	Numbers	54.63	273150.00	AT Par	273150.00
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of Disconnect Terminal Block, Screw less type, 4-wire front entry (Two in-put & Two out-put) The colour will be decided by Engineer - in - Charge. (Preferably In Blue, Red & Grey Colors in the ratio of 1:2:3)						
54	04012802	1000.00	Numbers	10.24	10240.00	AT Par	10240.00
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of End plate for item 4.28(i) of Chapter 4 of revised SOR 2.5mm/0.091 in thick as per site requirement.						
55	04012803	1000.00	Numbers	10.24	10240.00	AT Par	10240.00
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of End Stopper for item 4.28(i) of Chapter 4 of revised SOR 10mm/0.0394 in width as per site requirement.						
56	04012804	200.00	Metre	106.98	21396.00	AT Par	21396.00
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of Carrier Rails for item 4.28(i) of Chapter 4 of revised SOR 35mm x 7.5mm, 1mm/0.039 in thickness un-slotted type as per site requirement.						
57	04012805	5000.00	Numbers	15.93	79650.00	AT Par	79650.00

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	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of Markers strip for item 4.28(i) of Chapter 4 of revised SOR						
58	04013400	12.00	Per Unit	29277.62	351331.44	AT Par	351331.44
	Description:- Supply of Fuse auto changeover system for Railway Signaling System as per RDSO/SPN/209/2012 rev.1 with latest amendments. One Automatic changeover Unit comprise 32 nos. of external Non Deteriorating Type or 'G' type fuses from 0.6 Amp to 4 Amp capacities which are in signaling circuits. System shall have 8 cards with monitoring arrangement of 4 fuses in one card. Inspection:(i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy. Inspection charges:(i)Borne by Railways (ii) None Payment Terms: 100% after supply. (Per Unit should be read as Per Module)						
59	04013500	6.00	Per Unit	48285.03	289710.18	AT Par	289710.18
	Description:- Supply of Fuse auto changeover system for Railway Signaling System as per RDSO/SPN/209/2012 rev.1 with latest amendments. One Automatic changeover Unit comprise 24 nos. of external Non Deteriorating Type or 'G' type fuses from 4 Amp to 10 Amp capacities which are in signaling circuits. System shall have 6 cards with monitoring arrangement of 4 fuses in one card. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy. Inspection charges: (i)Borne by Railways (ii) None Payment Terms: 100% after supply. (Per Unit should be read as Per Module)						
60	04013600	12.00	Per Unit	885.44	10625.28	AT Par	10625.28
	Description:- Installation wiring testing and commissioning of Fuse change over system (FACS). This includes provision of common Buzzer & indication at ASM Room & ESM Duty Room and painting of fuse details. This also includes fabrication of frame for installation of FACS at Station/ LC gate where installation of relay racks not feasible. Inspection: Consignee Inspection charges: None Payment Terms: 100% on commissioning(Per Unit should be read as Per Module)						
61	05011401	1.00	Numbers	103449.88	103449.88	AT Par	103449.88
	Description:- Installation, Wiring and testing of Integrated Power Supply System. This includes power distribution connection to bus bars and relay racks in the room with contractor's own wiring materials and fabrication and fixing of AC/DC power distribution board made on 10mm thick Phenolic hylam sheets or any standard make with connections suitable for 32 A. Wiring to be done considering site requirement, depending upon the load with suitable wires, lugs & glands as per instructions of Engineer-in-charge. The work includes installation of Thermo flasher relay, ELD's, fixing & wiring of change over switch (program switch) for selection of DG set supply (DG1 & DG2) and wiring of change over switch (program switch) for selection of mains or DG supply. This item also includes supply & fixing of ladder along the wall for carrying power supply wires/cables from IPS room to Relay room/power room etc. Any masonry work required will be carried out by contactors own material. It includes transportation of IPS from consignee depot to work site/station/ LC gate. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution For Station						
62	05011500	2.00	Numbers	16161.14	32322.28	AT Par	32322.28
	Description:- Supply of DC to DC Converter, 110V DC/24V DC, 10 Amp as per RDSO Specn.No.S-96/2000 or latest. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% on Supply						
63	05012500	1.00	Numbers	159408.42	159408.42	AT Par	159408.42
	Description:- Supply of Self Regulating Type Battery Charger,230V AC/110V DC, 60-100 Amps as per RDSO Specn.No.IRS:S-86/2000 (Amnd.4) or latest. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% on Supply						
64	05012601	150.00	Numbers	2067.93	310189.50	AT Par	310189.50
	Description:- Supply of uncharged Low Maintenance Lead Acid (LMLA) secondary cell, shelf mounting type conforming to RDSO Specn.No.IRS:S-88/2004 or latest with inter cell connectors, nuts and bolts etc. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply. 2V, 80 AH						
65	05012701	135.00	Numbers	371.02	50087.70	AT Par	50087.70
	Description:- Charging of Lead Acid Batteries with contractors own battery grade sulphuric acid and distilled water with minimum two charge - discharge cycles, installation of charged batteries in groups & their connection & wiring. The work shall be done as per extant practice of N.W.Rly & instruction of Engineer-in-charge. Detailed measurements of initial charging shall be recorded jointly by contractor & Rly's site-in-charge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Execution. 2V 80AH						
	05012703	60.00	Numbers	986.73	59203.80	AT Par	59203.80

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66	Description:- Charging of Lead Acid Batteries with contractors own battery grade sulphuric acid and distilled water with minimum two charge - discharge cycles, installation of charged batteries in groups & their connection & wiring. The work shall be done as per extant practice of N.W.Rly & instruction of Engineer-in-charge. Detailed measurements of initial charging shall be recorded jointly by contractor & Rly's site-in-charge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Execution. 2V 300AH/ 500 AH						
67	05014300	1.00	Numbers	51072.24	51072.24	AT Par	51072.24
	Description:- Supply of 4 stroke petrol driven, Kerosene operated portable Generator set self start, 2KVA capacity, and Petrol start kerosene run (Birla Yamaha /Honda). Original Manufacture Certificate to be Submitted. Note: - Contractor takes approval for Make/ Model No. from Engineer In-Charge before supply. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
68	05014500	5.00	Numbers	2293.27	11466.35	AT Par	11466.35
	Description:- Supply of Class 'C' Type lightening cum Surge protection safety device with visual indication and potential free contacts output suitable for 110V AC application as per RDSO/SPN/172/2001 or latest. It also include transparent enclosed box. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
69	05014600	5.00	Numbers	4838.06	24190.30	AT Par	24190.30
	Description:- Supply of Class 'D' Type lightening cum Surge protection safety device with visual indication and potential free contacts output suitable for 110V DC application as per RDSO/SPN/172/2001 or latest. It also include transparent enclosed box. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
70	05014800	5.00	Numbers	5413.94	27069.70	AT Par	27069.70
	Description:- Supply of Class 'D' Type lightening cum Surge protection safety device with visual indication and potential free contacts output suitable for 24V DC application as per RDSO/SPN/172/2001 or latest. It also include transparent enclosed box. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
71	05014900	5.00	Numbers	51611.70	258058.50	AT Par	258058.50
	Description:- Supply of Transient Surge Suppressor Electronic Grade Surge protective device (Surge) current Capacity 50 KA as per following Specifications: -1) Connection Type: Parallel, 2) Nominal discharge current: 3KA, 3) Response Time : <0.5 nanoseconds, 4) Status Indication: LEDs, Dry Contacts. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
72	05015000	15.00	Numbers	245.83	3687.45	AT Par	3687.45
	Description:- Installation and commissioning of various classes of lightening cum surge protection device as decided by site engineer. This include supply and fixing of any other material required to complete the installation & commissioning of lightening cum surge protection device. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.						
73	05015700	1.00	Numbers	2390.64	2390.64	AT Par	2390.64
	Description:- Supply of maintenance stand for relay room / battery room as per samples as per samples /drawings approved by the site engineer incharge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply.						
74	05015800	1.00	Numbers	66992.10	66992.10	AT Par	66992.10
	Description:- Supply of active lightening arrester of Class A for building protection as per standard NFC-17-102. It shall work on early streamer emission principle & shall be made of stainless steel with a T of 60 microseconds. Non resettable type counter shall also be supplied to count the number of lightening occurrences. It also includes supply of electrolytic copper tape of 25mmX2mm or better for connecting class A device to the earth pit. This include installation, testing and commissioning of Class A device on the top of the building. This device shall be installed at suitable height on the roof of the building using a GI mast as per instructions of Railway engineer at Site. The device shall be connected to earth pit using a copper tape of 25mm x 2mm or better. This copper tape shall be run firmly only the site of the mast with the help of spacers. It shall also be ensured that the down conductor shall not touch the building throughout. the down conductor shall be connected to the earth electrode using exothermic welding. A counter shall be installed at appropriate space to count the number of occurrence. All the accessories like spacers, welding material etc. required for installation shall be arranged by the contractor. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning.						
	06010100	15.00	Numbers	60412.20	906183.00	AT Par	906183.00

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75	Description:- Supply of ELECTRIC POINT MACHINE 143 MM STROKE AC IMMUNITY 160V AC COMPLETE WITH LOCK DETECTOR AND SLIDES FOR LOCK DETECTOR NON -TRILABLE TO OPERATE ON 110 V DC ROTARY LOCKING WITH CRANK HANDLE UNIVERSAL TPE AS PER RDSO SPECN. NO. IRS:S-24/2002 (AMND 1) RDSO DRG. NO S-10800 (ALT.5) WITH JUNCTION BOX TELESCOPIC. THE MOTOR WILL BE AS PER RDSO SPECN. NO. IRS: S-37/82 (AMND. 3) WITH RDSO DRG. NO. S-10910. This includes supply of Set of tools as per para20.1 & 20.2 of RDSO SPECN. NO. IRS:S-24/2002 (AMND 1) 20.1 The following set of tools in a suitable tool box shall be supplied along with every set of eight point machines or less. i). Hand operated square drive socket wrenches of 12.5 mm driving square (short type) as per IS: 7381 for M8, M10, M12 & M18 threads. (One 250 mm long 12.5 mm square extension bar as per IS: 7991 alongwith compatible Tee handle Square drive as per IS: 7975 suitable for above socket wrenches shall also be provided.) ii). Open jaw wrenches (spanners) for M10, M12, M20, M24 & M33 threads as per IS: 2028. iii). Adjustable wrench. iv). Screw driver 300 mm long. 20.2 Junction box and two numbers of telescopic pipes of approved type shall be supplied as an integral part of the point machine. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply.						
76	06010300	14.00	Numbers	27586.01	386204.14	AT Par	386204.14
	Description:- Fixing, wiring, testing and commissioning of Electrical Point Machine on the extended sleepers at points as per std. practice and as per RDSO Drg No. SA 9151-52 or 9710 or 9161 or 10800 or 11000 as per section of rails used. Item includes fixing switch extension bracket, providing insulation for switch extension bracket, fixing ground connection, adjusting opening of the switches and adjusting the point machine with crank handle.The item also includes : (i)Complete material for installation like ground-connections, switch extension brackets, point insulation material, I pipes, wiring materials, various fixing nuts & bolts including castle nuts, spring washers (ii) All smithy & fitting works required at site for complete installation. (iii) Installation of gauge tie plate & providing insulation for gauge tie plate (Insulation in William Stretcher Bar will be Provide by Railways). (iv) Wiring inside the point machine, insertion and termination of tail cable in point machine and junction boxes / location box /cable hut as per extent practice on NWR and the instruction of Railway Engineer at site. (v) Supply and fixing of suitable size GI pipes with flange for taking cable into point machine. Note ; The ground connections shall be suitable to the Point Machines as specified by Engineer-in-charge and shall be suitable to the point lay out i.e. 60 Kg. / 52 Kg / 90R as per yard layout. Electrical Point Machine and M-6 / Screw less terminals will be supplied by Railways / covered in Schedule separately Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
77	06010400	14.00	Set	1290.61	18068.54	AT Par	18068.54
	Description:- Supply of Point insulation Complete set as per RDSO/SPN/168/2005 for 1.Switch bracket'D' bracket insulation for IRS point machine - One set comprises of (a)Side plate LH to Drg.No.S-3266 - 1 No. (b) Side plate RH to Drg.No.S-3265 - 1 No. (c)Insulating bush to Drg.No.S-3199 - 4 Nos. (d) Insulating washer to Drg.No.S-8640 - 4 Nos., 2. Split-Stretcher bar 2.1 Insulation for Leading stretcher bars(BG) each set comprising of (a) Insulating plate for leading insulated stretcher bars BG as per RDSO Drg.No.T-10384 - 2 Nos. (b) Insulating bushing for leadingg insulated stretcher bars for BG as per RDSO Drg.No.T-10535- 4 Nos. (c) Insulating Washer for insulated stretcher bar BG as per RDSO drg.No.T-10371 - 6 Nos. 2.2 Insulation for following stretcher bars BG. Each set comprising of: (a) Insulating side plate for insulated stretcher bars BG as per RDSO Drg.No.T-10367 - 3 No. (b) Insulating bushing for insulated stretcher bars BG as per RDSO Drg.No..T-10368 - 6 Nos. (c)Insulating washer for insulated stretcher bars BG as per RDSO Drg.No.T10371 - 12 Nos& 3. Gauge tie plates (52 Kg/60Kg as per site requirement) Insulation for (BG) complete with insulating bush and washer each set comprising of: (a) Insulating plate for insulated tie plate BG as per RDSO Drg.No.T-10372-1 No. (b) Insulating bushing for insulated stretcher bar BG as per RDSO Drg.No.T10368 - 3 Nos. (c) Insulating Washer for insulated stretcher bar BG to IRS 40/84 as perRDSO drg.No.T-10371 - 6 Nos. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
78	06010500	14.00	Set	1156.31	16188.34	AT Par	16188.34
	Description:- Supply of Gauge Tie plate insulation as per RDSO/SPN/168/2005 as per RDSO drg No: T- 10372Alt2, T- 10368, T- 10371Alt2, T-15083/88/Alt2 & T-11690/Alt2 and as per RDSO/SPN/168/2005 with latest amendments as applicable. Gauge tie plates (52 Kg/60Kg as per site requirement) Insulation for (BG) complete with insulating bush and washer each set comprising of: (a) Insulating plate for insulated tie plate BG as per RDSO Drg.No.T-10372-1 No. (b) Insulating bushing for insulated stretcher bar BG as per RDSO Drg.No.T10368 - 3 Nos. (c) Insulating Washer for insulated stretcher bar BG to IRS 40/84 as perRDSO drg.No.T-10371 - 6 Nos. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
	06010600	12.00	Set	6829.74	81956.88	AT Par	81956.88

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79	Description:- Supply of Ground connections, complete set suitable for IRS type / approved point Machine for ordinary turnout with tongue attachment insulation and other insulation as per RDSO Drg. S/3361@ 47>47@ 63 (for IRS type point machine) or RDSO Drg No.SA-9151/52 (for Siemens point machine) with latest amendments. However the ground connection shall be procured only after confirmation from Railway engineer as per site condition /type of machine/turnout. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
80	06010700	2.00	Set	5847.56	11695.12	AT Par	11695.12
	Description:- Supply of Ground connections, complete set suitable for IRS type/approved point Machine for derail switch with tongue attachment insulation as per RDSO Drg. S/3361@ 47>47? 40@for IRS type point machine) or RDSO Drg No. SA 9151/52 (for Siemens point machine) with latest amendments. However the ground connection shall be procured only after Confirmation from Railway engineer as per latest site condition /type of machine/turnout. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
81	06011400	14.00	Set	386.13	5405.82	AT Par	5405.82
	Description:- Supply of William Stretcher Insulation Set (complete) as per RDSO/SPN/168/2005 with insulating bush and washer to suit point layout and conforming to RDSO Drg.No.T-10372 or latest, T-10368 or latest and T-10371 or latest. 1.1 Insulation for Leading stretcher bars(BG) each set comprising of (a) Insulating plate for leading insulated stretcher bars BG as per RDSO Drg.No.T-10384 - 2 Nos. (b) Insulating bushing for leadingg insulated stretcher bars for BG as per RDSO Drg.No.T-10535- 4 Nos. (c) Insulating Washer for insulated stretcher bar BG as per RDSO drg.No.T-10371 - 6 Nos. 1.2 Insulation for following stretcher bars BG. Each set comprising of: (a) Insulating side plate for insulated stretcher bars BG as per RDSO Drg.No.T-10367 - 3 No. (b) Insulating bushing for insulated stretcher bars BG as per RDSO Drg.No..T-10368 - 6 Nos. (c)Insulating washer for insulated stretcher bars BG as per RDSO Drg.No.T10371 - 12 Nos Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
82	07010100	45.00	Numbers	4505.12	202730.40	AT Par	202730.40
	Description:- Supply of Track feed Battery Charger as per RDSO Specn. No.IRS: S-89/2013 Ver.1.0 or latest. Charging Capacity Rating 10 Amps for Charging 80 AH Battery. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply.						
83	07010200	45.00	Numbers	1439.17	64762.65	AT Par	64762.65
	Description:- Supply of Adjustable Track Feed Resistance 30 Ohms (Disc Type) as per RDSO Drg. No.SA-20161-66/M or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
84	07010300	40.00	Per Track Circuit	6354.01	254160.40	AT Par	254160.40
	Description:- Fixing and wiring of DC track circuit equipments i.e. track feed charger, resistance, track relay, battery, B type choke etc., in the Apparatus Case and battery box as per standard practice. Termination of tail cable on M 6 / Screw less terminals WAGO or FINOLEX or similar approved make teminals/ fuse blocks / HRC fuse. Item includes testing /commissioning of track circuit. Complete wiring material will be supplied by contractor. (Supply of Track feed battery charger, track feed battery, resistances & 'B' type choke & Track relays, ARA terminal/Modular terminals wago/phoenix contact type will be supplied by Railways / covered in Schedule separately). Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.						
	07010400	40.00	Per Track Circuit	7952.90	318116.00	AT Par	318116.00

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85	Description:- Installation of DC track circuits covering all types of Track circuits including points zones also.The item includes provision of doubled continuity GI wire bonds on rail joints after drilling bond-hole of 7.0/7.2mm dia, skimming of fish plate, insertion of insulated block joint(if required), fixing of TLJB (separate for positive & negative rails) with angle iron for track feed/jumper/track relay ends of track circuits and also for fixing jumper cables as per approved Track Circuit Plan, making rail connections through suitable insulated sleeves from TLJB at TF, jumper & TR end with GI wire, rail clips for fixing bond wire on the TLJB as per standard practice, termination of tail cables on TLJB terminals etc. TF/TR wiring shall be fixed on the suitable arrangement on PRC sleepers with the help of Hooks. In case Engineer at site desires that jumpering from TLJBs is to be done using signalling cable 2 coreX 2.5 sqmm , contractor shall provide the jumpering cable using 2 X 2.5 sqmm signalling cable.The signalling cable will be supplied by Railways. Hooks shall be provided on PRC sleepers with the help of suitable steel bracket. This item also includes fixing & supply of channel pins, Hooks etc. The item does not include includes supply of TLJB as per RDSO Drg.No.RST-11509 or latest as per technical specs Installation of of Track Lead Junction Box(TLJB) as per Drg.No.RST-11509 or latest made from FRP material including brass bolts and hylam board sheet with terminals etc. (a) Installation and commissssioning of TLJB complete with cover to be in black/red having approximate weight of 4.0 Kg with L-262mm W-212mm and H 90 mm and all the holes required for mounting on FRP stump (verticall two for each FRP angle) HDPE pipe , cable etc. (b) Installation and commissssioning of Each TLJB having two bakelite terminal block fitted horizontally : each bakelite terminal block shall have two nickel chrome plate M10 brass terminal, 50mm long.Alongwith each TLJB , nickel chrome plated brass links(two nos.Of adequate strength for vertical linking of the terminals to be wired and fixed properly. (c) Installation of HDPE pipe of size 32/35mm , 380 mm long alongwith two nuts for fixing on the TLJB hole . (d) Installation of the FRP stump for mounting the TLJB to be made of one meter long 30mm X30mmX 4mm angle(2 nos.) and 300mm long 30mm X30mmX 4mm angle(1 no.) fixed at 50 mm from the bottom using galvanised nuts and bolts.The TLJB and the angles for stump should be fixed in given holes on them for fixing using galvanised nuts and bolts . Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.							
86	07010500	200.00	Numbers	1778.40	355680.00	AT Par	355680.00	
	Description:- Supply of Track Lead Junction Box(TLJB) as per Drg.No.RST-11509 or latest made from FRP material including brass bolts and hylam board sheet with terminals etc. The technical specifications are as follows: (a) TLJB complete with cover to be in black/red having approximate weight of 4.0 Kg with L-262mm W-212mm and H 90 mm and all the holes required for mounting on FRP stump (verticall two for each FRP angle) HDPE pipe , cable etc. (b) Each TLJB shall have two bakelite terminal block fitted horizontally : each bakelite terminal block shall have two nickel chrome plate M10 brass terminal, 50mm long.Alongwith each TLJB , nickel chrome plated brass links(two nos.Of adequate strength for vertical linking of the terminals to be supplied. (c) HDPE pipe of size 32/35mm , 380 mm long alongwith two nuts for fixing on the TLJB hole . (d) The FRP stump for mounting the TLJB to be made of one meter long 30mm X30mmX 4mm angle(2 nos.) and 300mm long 30mm X30mmX 4mm angle(1 no.) fixed at 50 mm from the bottom using galvanised nuts and bolts.The TLJB and the agles for stump should come alongwith holes on them for fixing using galvanised nuts and bolts of adequate strength to be supplied alongwith TLJB drawing no. 11509. Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply							
87	07010700	90.00	Numbers	4098.94	368904.60	AT Par	368904.60	
	Description:- Supply of B Type Choke as per RDSO Specn.No.IRS:S-65/83 (Amnd. 1) or latest. Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after supply.							
88	07010800	1000.00	Numbers	5.69	5690.00	AT Par	5690.00	
	Description:- Supply of Channel Pins MS (Galvanized) single groove, 7 mm suitable for 4mm dia bonding wire as per spec No IRS S 17 & RDSO Drg No. S-69/M. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.							
89	07010900	100.00	Kg	66.01	6601.00	AT Par	6601.00	
	Description:- Supply of GI wire 8 SWG (4mm dia) suitable for track circuit rail bonding. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.							
90	07011000	250.00	Numbers	179.82	44955.00	AT Par	44955.00	
	Description:- Provision/Installation of bonding with GI wire 4mm dia (8 SWG) for track jumper & fish plate joints bonds. This will include drilling of 7.0/7.1/7.2 mm dia holes in rails (4 Nos.) and provision of two jumpers for each bond, clipping of bonds etc. with contractors own tools as per instruction of Rly. Engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Execution.							
91	07011100	10.00	Numbers	257.21	2572.10	AT Par	2572.10	
	Description:- Supply of Hydrometer, Exide make or similar for measuring specific gravity of Battery Graded acid with mounting stand in location Boxes. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.							
	07012700	5.00	Numbers	15355.25	76776.25	AT Par	76776.25	

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92	Description:- Installation and commissioning of Central Evaluator of axle Counter, wiring from CT rack to Central Evaluator, installation and wiring of the reset box, LV box (if required) and associated power supply wiring. This includes supply of shielded cable of required conductor size for wiring between CT rack to evaluator rack, all other wires, power supply cable and wiring materials. The power supply cable from power room to Central Evaluator should not be less than 10 sq.mm PVC wire. Earthing as per OEM's guidelines & specification with their own material. This also includes painting and writing work on evaluator as per site requirement. NOTE: Installation/ programming/ configuration/ commissioning of Axle counter equipment to be carried out in accordance with latest guidelines issued by Railways/ RDSO preferably by Authorised representative of OEM. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
93	07012800	24.00	Numbers	13069.94	313678.56	AT Par	313678.56
	Description:- Installation of track device (double rail contact) including digging of trench, track crossing, laying of anti-rodent, anti-oxidant & non-flame propagating type Double Walled Corrugated (DWC) pipe as per IS- 14930 part- I or II or latest and all other accessories as per site requirement to be for laying of transmitter and receiver cable. The item also includes installation of EJB / Track side Electronics including foundation & earthing as per OEM's guidelines and Technical requirement & specification. NOTE: Installation/ programming/ configuration/ commissioning of Axle counter equipment to be carried out in accordance with latest guidelines issued by Railways/RDSO preferably by Authorized representative of OEM. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
94	07013700	4.00	Numbers	171852.45	687409.80	AT Par	687409.80
	Description:- Installation, testing and commissioning of SSBPAC(Digital) for Single Line/Double lines per RDSO Specification No. RDSO/SPN/175/2005 Ver. 1 or latest alongwith station master block panel alongwith DTMF based Electronic Block Bell & Block Telephone equipment as per specification No RDSO/SPN/191/2005(Ver. 0) or latest , Microprocessor Lighting & Surge protection Devices for power line 24 DC Class-C, Lighting & surge protection devices for DATA Line Class-D,EKT for Shunt Key as per Drg. no. SA-22601/Alt.4 & IRS: S-21/2001 and associated data cable including wired relay rack without relays.(Required relays for this item will be supplied by Railways) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.						
95	07013800	3.00	Pair	107188.70	321566.10	AT Par	321566.10
	Description:- Supply of Automatic Media changeover Card for SSBPAC(D) which includes One Voice Modem Circuit and One E1 Converter Circuit, for working on redundant channels for data transmission on OFC/Quad. Necessary Lightning & Surge protection devices for data lines need to be provided. Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after Supply.						
96	07013900	2.00	Pair	26797.18	53594.36	AT Par	53594.36
	Description:- Installation and commissioning of Automatic Media changeover Card for SSBPAC(D) which includes One Voice Modem Circuit and One E1 Converter Circuit, for working on redundant channels for data transmission on OFC/Quad. Necessary Lightning & Surge protection devices for data lines need to be provided. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after commissioning.						
97	07014100	2.00	Numbers	8051.14	16102.28	AT Par	16102.28
	Description:- Supply of hand operated track drilling machine for bonding hole. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
98	08010400	90.00	Numbers	178.89	16100.10	AT Par	16100.10
	Description:- Installation of LED signals lamps for auxiliary/subsidiary signals/main signals (i.e. route, shunt , calling on, Red , Yellow, Green) as per instructions given by engineer incharge. The contractor will supply all materials required for installation. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
99	08010500	22.00	Numbers	10791.46	237412.12	AT Par	237412.12
	Description:- Supply of Colour Light Signal Complete. This includes: - (1). Post Tubular 140 mm Dia, as per IRS: S-6/81 or Latest & RDSO Drg. No. SA-24625 (Advance). (2). CI Base (As per IRS S-10 & RDSO Drg. No. 2011/M with latest assembly). (3). Number plate to Drawing No. S 23149 Alt.1 =1 No , Number plate clamps to Drawing No. S 23148 Alt.1 =2 no (4). Ladder Assembly, as per RDSO Drg. No. SA-23156, with Base, Ladder Guard rail (complete) to Drawing No. SA 23138 Alt.1(1No), Platform to Drawing No. SA 23134 Alt.1(1 No), Front Maintenance Platform, MS Supporting bracket to Support Ladder.Ladder stay (small) to Drawing No. S 23159 Alt. 1 (2 Nos.) , Ladder stay (large) to Drawing No. S 23160 Alt. 1 (2 Nos.) , Ladder section to Drawing No. SA 23157 Alt. 1(1 Nos.) Stay clamp to Drawing No. SA 2062/M (2 no), Rail Clamp to Drawing No. S 2066/M (1 No.) (5). Signal Front Staging Complete Assembly for CLS Unit. (6). Signal back staging as per extent NWR Practice. Note: Note: Height of the Post shall be 5.5 Long. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
	08010600	2.00	Numbers	4462.49	8924.98	AT Par	8924.98

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100	Description:- Supply of Offset brackets for Main Signal, made of tubular steel, outer diameter 140 mm, thickness of pipe 4.5 mm. horizontal length of pipe 545 mm & vertical length of pipe 324 mm with fixing arrangement on Main Signal post as per Drawing No SW/554/G/R Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
101	08010700	8.00	Numbers	4336.16	34689.28	AT Par	34689.28
101	Description:- Supply of Offset brackets for Shunt Signal, made of tubular steel, outer diameter 89 mm, thickness of pipe 4.5 mm. horizontal length of pipe 324 mm & vertical length of pipe 324 mm with fixing arrangement on Shunt Signal post as per Drawing No SW/354/I Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
102	08010801	2.00	Numbers	3227.65	6455.30	AT Par	6455.30
102	Description:- Erection of CLS Post with base and signal unit on top or on OFFset Bracket, fixing of front and back staging, ladder and guards, signal name plates / boards if any with contractor's own brackets and fixing materials. This also includes erection of auxiliary signals like calling on, shunt signal if any. The work shall be done as per instructions of Rly engineer at site. It also includes provision & fixing of maintenance platform as per design given by Engineer -In-Charge at site. The Item includes cutting of Signal post if required by Site In charge. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning. 2/3/4 aspect signal unit mounted on offset bracket with junction type route indicator 1/2/3/4/5/6 or multilamp lamp route indicators/Stencil type rout indicator mounted on signal post.						
103	08010802	20.00	Numbers	2187.43	43748.60	AT Par	43748.60
103	Description:- Erection of CLS Post with base and signal unit on top or on OFFset Bracket, fixing of front and back staging, ladder and guards, signal name plates / boards if any with contractor's own brackets and fixing materials. This also includes erection of auxiliary signals like calling on, shunt signal if any. The work shall be done as per instructions of Rly engineer at site. It also includes provision & fixing of maintenance platform as per design given by Engineer -In-Charge at site. The Item includes cutting of Signal post if required by Site In charge. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning. 2/3/4 aspect signal unit mounted mounted directly on signal post.						
104	08010900	12.00	Numbers	26768.11	321217.32	AT Par	321217.32
104	Description:- Supply of Non Metallic (FRP) colour light signal housing multi unit type for railway signaling suitable for RE area TWO Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Rev 2.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
105	08011000	10.00	Numbers	28042.78	280427.80	AT Par	280427.80
105	Description:- Supply of Non Metallic (FRP) colour light signal housing multi unit type for railway signaling suitable for RE area THREE Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Rev 2.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
106	08011200	3.00	Set	4297.47	12892.41	AT Par	12892.41
106	Description:- Supply of Position Light Shunt Signal Unit Complete with Post(made of GI Pipe of 80 mm Diameter Medium Class IS Spec. No. IS: 1239 Pt. 1/1990, Base, Hood, Cover etc as per Drg. No. SA-23840 suitable for LED Signal Lighting Unit.(Supply of LED Unit is not covered in this item) Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
107	08011300	3.00	Numbers	1779.99	5339.97	AT Par	5339.97
107	Description:- Erection of Position Light Shunt signal with Base, Post, Signal unit and fixing of Number Plates. The work shall be done as per instructions of Rly engineer at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
108	08011400	8.00	Numbers	3358.53	26868.24	AT Par	26868.24
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	Description:- Supply of Position Light Shunt Signal Unit Complete, with offset bracket, hood, Cover etc as per Drg. No. SA-23840 suitable for LED Signal Lighting Unit.(Supply of LED Unit is not covered in this item)Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
109	08011500	8.00	Numbers	1967.77	15742.16	AT Par	15742.16
	Description:- Erection of Position Light shunt signal on Offset bracket on main signal. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
110	08011800	2.00	Numbers	24051.47	48102.94	AT Par	48102.94
	Description:- Supply of Junction route indicator unit 3 ways (Without Lenses & Holder) as per Drg. No. RDSO SA 23403 suitable for LED Signal Lighting Unit & as IRS:S-66/84 amndt-1 or latest.(Supply of LED Unit is not covered in this item) Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
111	08012300	2.00	Numbers	590.67	1181.34	AT Par	1181.34
	Description:- Fixing of Junction type Route Indication 1-Way/2-Way/3-Way/4-Way/5-Way/6-Way on the top of the signal post. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
112	08012400	3.00	Numbers	2550.48	7651.44	AT Par	7651.44
	Description:- Supply of Calling ON Signal Unit with Brackets & Fixing accessories. Calling On Signal Unit shall conform to RDSO Drg no 24351(Adv) Alt1 suitable to LED Signal Lighting Unit. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
113	08012600	2.00	Numbers	2325.14	4650.28	AT Par	4650.28
	Description:- Fixing of Calling-on Signal/A-Sign/AG-Sign unit on signal post. The item includes fixing of Co- On signal /'A' sign/ 'AG' sign unit on signal post with bracket, hood etc. Item includes supply of bracket & fixing materials etc. by the contractor. The item also includes termination of cables & wiring inside Co- On signal /'A' sign/ 'AG' sign unit as per standard practice. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
114	08012800	5.00	Numbers	4637.76	23188.80	AT Par	23188.80
	Description:- Supply of Different warning Boards / Calling on Board used for Railway Signalling system as per RDSO Drg. No. SA2380 (Adv). This includes Painting and retro reflective arrangement should be as per SEM. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
115	08012900	4.00	Numbers	334.60	1338.40	AT Par	1338.40
	Description:- Fixing of Stop Board, Block section limit Board, Shunting Limit Board, goods warning board , Calling on Board with contractors own material. This excludes supply of Stop Board / Block section limit Board / Goods warning board/Calling on board. The work shall be done as per instruction of Rly Engineer at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
116	08013000	50.00	Numbers	1223.46	61173.00	AT Par	61173.00
	Description:- Supply, Fabrication and fixing of Signal Number Plate(CSTE Drg No CSTE/6186) , 'A' Marker (Drg No. CSTE/6180), 'AG' Marker (Drg No. CSTE/6181), 'P' Marker (Drg No. CSTE/6182), Arrow Marker (Drg No. CSTE/6183), 'G' Marker (Drg No. CSTE/6184), 'C' Marker (Drg No. CSTE/6185). marker disk on signals as per standard practice All material required for this work shall be supplied by Contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
117	08013100	10.00	Numbers	5087.65	50876.50	AT Par	50876.50
	Description:- Supply and fixing of protective screen of expanded metal 12 SWG of size 1200 x 1500 mm on signals as per std. practice in RE Area. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
118	08013200	22.00	Numbers	9361.50	205953.00	AT Par	205953.00
	Description:- Casting of CC Foundation for Signal Post in the ratio of 1:3:6 as per Drg.No.CSTE/NWR/SOR/21/A using standard size of foundation/galvanized holding down bolts required for erection of colour light signal post. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement-sand mixture (aggregate will not exceed 3.8 cm). Aggregate, cement, sand and holding down bolts will be supplied by contractor. Any machines & tools, if required for execution of this item, will be arranged/provided by contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
	08013300	3.00	Numbers	6310.26	18930.78	AT Par	18930.78

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119	Description:- Casting of C.C. Foundation for Position Light Shunt Signal/ Indicator/SPI as per Drg.No.CSTE/NWR/SOR/ 22 in ratio 1:3:6 by using standard size of galvanized holding down/foundation bolts. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement sand mixture. Aggregate cement, sand and holding down bolts, will be supplied by contractor. Any machines and tools, if required for execution of this item, will be arranged/provided by contractor. Note: As per available site conditions, if sizes of foundations are required to be decreased/ increased and same has been approved/agreed by engineer incharge then variation in CC work will be calculated on volumetric basis as per rates of these items. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation. . "						
120	08013400	2.00	cum	4323.85	8647.70	AT Par	8647.70
	Description:- Cement concrete work for miscellaneous items in ratio 1:3:6. Item includes excavation, ramming of CC by using vibrator, curing and plastering with cement and sand mixture (aggregate will not exceed beyond 3.8 cm). The aggregate cement and sand will be supplied by contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.(Unit is per cubic meter)						
121	09010100	1.00	Set	433500.01	433500.01	AT Par	433500.01
	Description:- Supply of Electrically Operated Lifting Barrier complete set suitable for 110VDC/24V DC (option to be specified in tender specifically of either 110 V DC or 24V DC)supply without hand generator back up & motorized boom locking arrangements as per RDSO Spec. SPN/208/2012 with latest amendment. One set consisting 02 Nos of Barriers of length 09.76 Mtrs. along with Spares & tool kit mentioned in RDSO Spec. SPN/208/2012 clause 10.1 & 10.2 as below 10.1 Following spares shall be supplied alongwith each set (02 nos.) of Electric lifting barrier as per requirement of the purchaser i) GI boom - 1 no. complete. ii) Belt - 1 no. iii) Crank handle - 1 no. iv) Motor Contactor - 1 no. v) Motor protection MCB- 1 no. vi) Push button complete- 2 nos. vii) Limit switch - 3 nos. (1 lever type and 2 top roller type) viii) Fuses used - 2 sets 10.2 Tool kit consisting of standard sizes of wrinch/ spanner and Allen keys should also be supplied with each set (02 nos.) of Electric Lifting barrier. Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after Supply.						
122	09010300	2.00	Set	1707.15	3414.30	AT Par	3414.30
	Description:- Supply of Yellow Retro reflective sheet for LC Boom prismatic grade reflective sheets of size 305 x 290 mm one set consist 18 pieces. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% on Supply						
123	09010400	2.00	Set	5188.92	10377.84	AT Par	10377.84
	Description:- Supply of Dual Tone Bell /Buzzer with Flasher arrangement and 20 Watt horn working on 24 V DC/ 110 V AC for warning road users at LC gates. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply						
124	09010500	1.00	Set	25128.93	25128.93	AT Par	25128.93
	Description:- Supply of (02) nos. electrical lifting barrier booms of 9.76 meter each as per DRG RDSO/S 11600 . The material will be as per RDSO Specn.No.RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest. Inspection: Consignee subject to procurement from RDSO approved supplier. Inspection Charges: None. Payment Terms: 100% after Supply						
125	09010600	1.00	Set	136768.89	136768.89	AT Par	136768.89
	Description:- Supply of Sliding type mechanical Boom barrier assembly 11 to 12 Meter Long, movement drive mechanism, resetting & supporting stand suitable for Mechanical/Electrical level crossing gate as an emergency arrangements as per Drg. mentioned in the tender document. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply						
126	09010800	2.00	LC Gate	29388.02	58776.04	AT Par	58776.04
	Description:- Casting of CC foundations in the ratio of 1:3:6 for sliding boom as per Drg. Minimum 10 Nos of foundation per set shall be cast using standard size holding down bolts & nuts for erection. Item include excavation, ramming, curing and plastering 1:4 cement and sand mixture. Aggregate, cement, sand and holding down bolts & nuts to be supplied by the contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation						
127	10010600	1.00	Numbers	57452.56	57452.56	AT Par	57452.56
	Description:- Supply of professional LED VDU monitor of display size 42 inch. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
128	10011100	5.00	Numbers	2518.62	12593.10	AT Par	12593.10
	Description:- Supply of Office Chair make Godrej CH-7B or similar of reputed brand. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
129	10011400	2.00	Numbers	16271.42	32542.84	AT Par	32542.84
	Description:- Supply of Steel Plain Almira with 4 adjustable shelvesSize: 1980mm height, 915 mm width and 485 mm depth.Make: Godrej Storewel Plain Large or Similar of reputed brand. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
	10011700	1.00	Numbers	50166.35	50166.35	AT Par	50166.35

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130	Description:- Supply of Microprocessor based Networkable Analogue Addressable up to 64 nodes 1 Loop Fire Alarm Control panel with LCD display, the panel should be equipped with sufficient nos. of loop as per RDSO Specification No. RDSO/SPN/217/2018 ver 2.0 or latest. Each loop shall have capacity of 127 analogue addressable devices in 1 loop, the panel shall have sufficient nos. of programmable relay control for controlling AHU's, pressurisation fans, ventilation fans at fire pump room, monitoring of fire sprinkler & sealed lead acid batteries sufficient for 24 Hours normal working & then capable of operating the system for 24 Hours during Emergency conditions as required. The panel shall have provision of connectivity of BACNET/ MODBUS/ LONWOK/TCP-IP. The panel shall have dedicated RS232 serial port for direct PC or MODEM connection, optional remote printer as per RDSO Specification No. RDSO/SPN/217/2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
131	10011800	1.00	Numbers	12541.59	12541.59	AT Par	12541.59
131	Description:- Installation ,Testing and Commissioning of Microprocessor based Networkable Analogue Addressable up to 64 nodes 1 Loop Fire Alarm Control panel with LCD display, the panel should be equipped with sufficient nos. of loop as per RDSO Specification No. RDSO/SPN/217/2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning.						
132	10011900	2.00	Numbers	5367.29	10734.58	AT Par	10734.58
132	Description:- Supply of Probe type bimetallic Heat Sensor/Fixed cum ROR 90 degree with required module to be communicated with main fire Alarm Panel as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
133	10012000	2.00	Numbers	1341.82	2683.64	AT Par	2683.64
133	Description:- Installation ,Testing and Commissioning of Probe type bimetallic Heat Sensor/Fixed cum ROR 90 degree with required module to be communicated with main fire Alarm Panel as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning						
134	10012100	12.00	Numbers	2737.45	32849.40	AT Par	32849.40
134	Description:- Supply of intelligent Analogue Addressable Multi-Sensor type smoke detector with inbuilt fault isolator and integral response indicator with 360 degree viewing angle. Detector shall communicate 3 danger levels for differentiated alarm activation and high tolerance to dust, dirt, temperature fluctuations and air current. Detector should have unique address for communication and assigned through panel with mounting base as required with the protection category of IP 40. All items as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
135	10012200	12.00	Numbers	684.36	8212.32	AT Par	8212.32
135	Description:- Installation, testing and commissioning of intelligent Analogue Addressable Multi-Sensor type smoke detector with inbuilt fault isolator and integral response indicator with 360 degree viewing angle as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges:Borne by Railways Payment Terms: 100% after commissioning						
136	10012300	2.00	Numbers	2865.44	5730.88	AT Par	5730.88
136	Description:- Supply of Analogue Addressable Manual Call Point with integral short circuit isolator, Analogue addressable protocol having status LED for alarming & standby mode, Electronically addressed) as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
137	10012400	2.00	Numbers	716.36	1432.72	AT Par	1432.72
137	Description:- Installation ,Testing and Commissioning of Analogue Addressable Manual Call Point with integral short circuit isolator, Analogue addressable protocol having status LED for alarming & standby mode, Electronically addressed) as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning						
138	10012500	2.00	Numbers	53605.32	107210.64	AT Par	107210.64
138	Description:- Supply of UV/IR Type Flame detector with required module to communicate on main fire alarm panel as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
139	10012600	2.00	Numbers	13401.33	26802.66	AT Par	26802.66
139	Description:- Installation ,Testing and Commissioning of UV/IR Type Flame detector with required module to communicate on main fire alarm panel as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning						
140	10012700	150.00	Metre	599.26	89889.00	AT Par	89889.00
140	Description:- Supply of Linear Heat Sensing (LHS) cable as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						

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141	10012800	150.00	Metre	149.82	22473.00	AT Par	22473.00	
	Description:- Installation of Linear Heat sensing (LHS) cable as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.							
142	10012900	1.00	Numbers	25189.84	25189.84	AT Par	25189.84	
	Description:- Supply of LHS interface module as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.							
143	10013000	1.00	Numbers	6297.46	6297.46	AT Par	6297.46	
	Description:- Installation of LHS interface module as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.							
144	10013100	1.00	Set	115235.80	115235.80	AT Par	115235.80	
	Description:- Supply of Air Sampling Type detector shall use LASER type. This type of detector shall use piping or tubing distribution network that shall run from the detector to the area as to be protected. It should be supplied with required module & Power supply unit complete as a system with all accessories like pipes, Sampling points etc as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.							
145	10013200	1.00	Set	28808.95	28808.95	AT Par	28808.95	
	Description:- Installation ,Testing and Commissioning of Air Sampling Type detector (it shall use LASER type) as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning							
146	10013300	1.00	Numbers	6435.92	6435.92	AT Par	6435.92	
	Description:- Supply of intelligent Addressable Loop Powered Sounder cum beacon with base inbuilt fault isolator with protection category of IP42 and duly approved as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.							
147	10013400	1.00	Numbers	1608.98	1608.98	AT Par	1608.98	
	Description:- Installation, testing and commissioning of intelligent Addressable Loop Powered Sounder cum beacon with base inbuilt fault isolator with protection category of IP42 and duly approved as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges:None Payment Terms: 100% after commissioning.							
148	10013500	1.00	Lot	27324.36	27324.36	AT Par	27324.36	
	Description:- Supply of FRLS unarmoured/armouredcable(2Cx1.5 sq.mm) with all accessories for connection of all Fire Alarm devices as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.							
149	10013600	1.00	Lot	6831.09	6831.09	AT Par	6831.09	
	Description:- Installation ,Testing and Commissioning of FRLS unarmoured/armouredcable(2Cx1.5 sq.mm) with all accessories for connection of all Fire Alarm devices as per RDSO Specification No. RDSO/ SPN/ 217/ 2018 ver 2.0 or latest Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning.							
150	10013700	10.00	Numbers	5301.70	53017.00	AT Par	53017.00	
	Description:- Supply of CO2 type fire extinguisher capacity 4.5 Kg capacity ISI Mark IS: 15683 operating temperature (-30) ° to (50) ° for class 13 B type of fire with 1 mtr. Hose pipe fitted with PVC bend horn complete in all respect. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.							
151	11010100	45.00	Numbers	14945.53	672548.85	AT Par	672548.85	
	Description:- Supply of Apparatus Case Single(Large) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11500. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.							
152	11010200	45.00	Numbers	1039.09	46759.05	AT Par	46759.05	
	Description:- Installation of Apparatus Cases Single(Large) with 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. Supply of 'E' Type lock has been covered in supply of Apparatus case separately. It covers fixing of lamp holder , switch and lamp etc. in Apparatus Case. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.							
	11010300	20.00	Numbers	9439.40	188788.00	AT Par	188788.00	

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153	Description:- Supply of Apparatus Case half (Medium) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11507. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.						
154	11010400	20.00	Numbers	632.78	12655.60	AT Par	12655.60
154	Description:- Installation of Apparatus Cases Half (Medium) with 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. Supply of 'E' Type lock has been covered in supply of Apparatus case separately. It covers fixing of Location lamp holder , switch and lamp etc. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.						
155	11010801	45.00	Numbers	6888.92	310001.40	AT Par	310001.40
155	Description:- Excavation and Casting of Apparatus Case foundation in ratio 1:3:6 with contractor's own materials including cement and galvanized anchor bolts of standard size. The required scaffolding Ferma etc for Casting of foundation will have to be brought by the contractor at his own cost.The item also includes additional masonry work as well as earthwork if required on bank where there will be possibilities of foundation sinked, fallen or tilted. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation. Single (Large) Case Apparatus case / SS location box as per Drg No. CSTE/5074						
156	11010802	20.00	Numbers	5259.16	105183.20	AT Par	105183.20
156	Description:- Excavation and Casting of Apparatus Case foundation in ratio 1:3:6 with contractor's own materials including cement and galvanized anchor bolts of standard size. The required scaffolding Ferma etc for Casting of foundation will have to be brought by the contractor at his own cost.The item also includes additional masonry work as well as earthwork if required on bank where there will be possibilities of foundation sinked, fallen or tilted. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation. Half (Medium) Case Apparatus case / SS location box as per Drg No CSTE/5074						
157	11010900	20.00	Numbers	9563.45	191269.00	AT Par	191269.00
157	Description:- Supply of Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 20 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.						
158	11011100	5.00	Numbers	4648.00	23240.00	AT Par	23240.00
158	Description:- Supply of Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 10 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.						
159	11011201	45.00	Numbers	2344.49	105502.05	AT Par	105502.05
159	Description:- Fabrication and fixing of phenolic laminated sheet of size 10/12/20 mm thick in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per instructions of Rly engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation. Single Case (Large Case)						
160	11011202	20.00	Numbers	684.00	13680.00	AT Par	13680.00
160	Description:- Fabrication and fixing of phenolic laminated sheet of size 10/12/20 mm thick in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per instructions of Rly engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation. Half Case (Medium Case)						
161	11011300	10000.00	Numbers	12.52	125200.00	AT Par	125200.00
161	Description:- Fixing of ARA(M-6) Terminals /Screw less connectors / modular disconnect terminal blocks and fuse blocks on phenolic laminated sheets and fixing by stainless steel/brass nuts & bolts. This includes provision of two additional holes on the board on either side for cable conductor entry. (Supply of all above terminals have been covered separately in Chapter 4 of SOR) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.						
162	11011400	200.00	Numbers	59.18	11836.00	AT Par	11836.00
162	Description:- Supply of Round head type non deteriorating type low voltage cartridge fuse as per Spec No IRS/S/78/92 with latest amendments 2A/4A/6A capacity. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after supply.						
163	11011700	70.00	Numbers	29.59	2071.30	AT Par	2071.30
163	Description:- Supply of Tic-tac Piano type Switches , 5A (ISI mark of reputed make) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply						

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164	11011800	70.00	Numbers	44.39	3107.30	AT Par	3107.30	
	Description:- Supply of two pin Lamp holder Bakelite type for Apparatus Cases (ISI mark of reputed make) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply							
165	11012000	5.00	Numbers	2193.20	10966.00	AT Par	10966.00	
	Description:- Fixing of KLCR relays in field in half location boxes if Gate lodge is not provided or at any other location as decided by engineer in charge. Item includes supply and fixing of MS sheet and wiring of KLCR relays, push buttons and LEDs for KLCR circuit. The KLCR relays, push buttons, LEDs will be fixed on a MS sheet of min. 3mm in the half location box. The MS sheet will cover full length and breadth of the half location box and divided in two pieces of approx. 48cm x 46cm and 80cm x 46cm. The first piece to be fitted on top and will contain the KLCR relays, LEDs and push buttons. The second piece to be fitted below the first piece. (Supply of KLCR relays covered in separate item of SOR). Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.							
166	12010200	50.00	Metre	760.66	38033.00	AT Par	38033.00	
	Description:- Supply of Medium class GI pipes 100 mm dia(4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg.No.CSTE/NWR/SOR/06 to 12 or at any other locations as decided by Site Engineer. It includes supply of all material required for fixing arrangement. Contractor will also supply flexible/corrugated HDPE pipe at the end of GI pipe to protect the cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.							
167	12010300	50.00	Metre	190.17	9508.50	AT Par	9508.50	
	Description:- Fixing of Medium class GI pipes 100 mm dia(4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg.No.CSTE/NWR/SOR/06 to 12 or at any other locations as decided by Site Engineer. It includes installation of all material required for fixing arrangement. Contractor will install flexible/corrugated HDPE pipe at the end of GI pipe along with any masonry work(if required) to protect the cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.							
168	12010400	50.00	Metre	390.52	19526.00	AT Par	19526.00	
	Description:- Supply of Medium class GI pipes 50 mm dia(3.6 mm thickness) as per IS 1239 (Part 1) : 2004 for use in ASM room and at any other location as decided by Site Engineer. It includes supply of all material required for fixing arrangement. At the ends of GI pipe, flexible/corrugated HDPE pipe will be provided by contractor to protect cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.							
169	12010500	50.00	Metre	97.63	4881.50	AT Par	4881.50	
	Description:- Fixing of Medium class GI pipes 50 mm dia(3.6 mm thickness) as per IS 1239 (Part 1) : 2004 for use in ASM room and at any other location as decided by Site Engineer. It includes installation of all material required for fixing arrangement. At the ends of GI pipe, flexible/corrugated HDPE pipe along with any masonry work(if required) will be provided by contractor to protect cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Installation.							
170	12010601	2500.00	Metre	14.80	37000.00	AT Par	37000.00	
	Description:- Supplying and placing of one layer of standard size of B grade quality bricks of the local make spreading on cables laid.(minimum size of brick 200mm X 100mm X 70mm) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Installation. Lengthwise (up to 2 cables).(Unit is per RM Running Meter)							
171	12010602	3000.00	Metre	31.87	95610.00	AT Par	95610.00	
	Description:- Supplying and placing of one layer of standard size of B grade quality bricks of the local make spreading on cables laid.(minimum size of brick 200mm X 100mm X 70mm) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Installation. widthwise (more than 2 cables).(Unit is per RM Running Meter)							
172	12010700	100.00	Numbers	1798.20	179820.00	AT Par	179820.00	
	Description:- Supply of Double Walled Corrugated (DWC) HDPE Pipe/duct with associated collars etc. as per RDSO Specification No. RDSO/SPN/204/2011 or latest anti-rodent & anti-oxidant and non flame propagating type in 6 meters straight length and of size 120 mm outer dia,& 103.5 mm inner dia. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber O-Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap (The total quantity of above items is equal to no. of pipes supplied.) DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vendor name and year of manufacture can be easily identified. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply							
	12010800	30.00	Numbers	360.78	10823.40	AT Par	10823.40	

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173	Description:- Supply of Double Walled Corrugated (DWC) HDPE Pipe/duct with associated collars etc. as per RDSO Specification No. RDSO/SPN/204/2011 or latest anti-rodent & anti-oxidant and non flame propagating type in 6 meters straight length and of size 50 mm outer dia, & 38 mm inner dia. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber 'O-Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap (The total quantity of above items is equal to no. of pipes supplied.) DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vender name and year of manufacture can be easily identified. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply						
174	12010900	1000.00	Metre	383.47	383470.00	AT Par	383470.00
	Description:- Supply of Double Wall Corrugated (DWC)-HDPE pipe/duct of size 200 mm outer dia, & 175 mm inner dia. It includes supply of Double Wall Corrugated -HDPE pipe/duct as per RDSO Specn.No. RDSO/SPN/ 204/2011 (version 1.1) or latest and conforming to ISI Spec. No.IS:14930, Part-II. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber O-Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vendor name and year of manufacture can be easily identified. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply						
175	12011700	1500.00	Numbers	678.31	1017465.00	AT Par	1017465.00
	Description:- Supply of Half Round RCC pipes & collars of 300 mm outer dia & 250 mm internal dia (2 meter long) along with collars as per IS No. 458/2003 of NP type Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
176	12011800	1500.00	Numbers	333.46	500190.00	AT Par	500190.00
	Description:- Supply of Half Round RCC pipes & collars of 150 mm internal dia (2 meter long) along with collars as per IS No. 458/2003 of NP type Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
177	12011900	6000.00	Metre	21.62	129720.00	AT Par	129720.00
	Description:- Laying of half round RCC pipe after laying the cables in the trenches. (Cable laying is covered separately) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.(Unit is RM running meter)						
178	12012000	5.00	Numbers	2148.73	10743.65	AT Par	10743.65
	Description:- Supply of Thermo shrink Universal Jointing kit for Quad Cable (for straight joints) as per RDSO spec IRS/TC-77/2012 revision 3 With latest Amd. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply						
179	12012100	5.00	Numbers	1157.45	5787.25	AT Par	5787.25
	Description:- Jointing of 4 / 6 quad /Signaling cable with Heat Shrinkable straight through Jointing Kit. All the material required for the work are to be arranged by contractor himself at his own cost except Thermo shrinkable Joint Kit/Rapid Joint kit. After jointing the cable through test such as insulation test, continuity cable losses etc. to be carried out jointly with Railway Engineer. If any defect or any damage is observed during jointing, the contactor has to redo the joint free of cost. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
180	12012200	600.00	Metre	1202.97	721782.00	AT Par	721782.00
	Description:- Horizontal direction drilling/boring without damage of surface road /track using Auger Machine(HDD machine). The bore shall be upto 200 mm dia & shall be done at the depth of minimum 1200 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road. The length of the bore shall be minimum 4 Mtrs long. This include insertion of different dia DWC-HDPE pipe/ GI pipes coupling etc. as per direction of Engineer In charge. Note:- Pipe Supply is not covered under this item. Contactor shall provide all material required for boring and adequate nos. of labours for proper laying of cables into the bore. Cable shall be laid cautiously so that it should not get damage due to rough handling & pressure on cable. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
181	12012300	100.00	Metre	122.74	12274.00	AT Par	12274.00
	Description:- Horizontal Drilling by using manual pushing method at minimum depth of 1.5 meter below the formation level of earth as per decision of Engineer in charge .Pipe Supply is not covered under this item Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
182	12012500	120.00	Numbers	328.68	39441.60	AT Par	39441.60

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	Description:- Supply of RCC cable route marker engraved and painted on both side along the route at every 50 meter and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply						
183	12012600	120.00	Numbers	82.17	9860.40	AT Par	9860.40
	Description:- Transportation at site and Installation of RCC cable route marker engraved and painted on both side along the route at every 50 meter and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
184	12013700	2520.00	cum	274.28	691185.60	AT Par	691185.60
	Description:- Excavation of cable trench as per cable route plan, 1.2 Mtr. deep and of 0.3 Mtr. to 0.6 Mtr. wide at bottom as per RDSO sketch No. SDO/CABLE LAYING/003 or latest alongside the track in normal (all type) soil/strata, conforming to distances as per cable route plan and refilling. This work includes clearing of route from bushes etc, covering of cable laid in trench by loose soil for a layer of 50mm thickness approximately before covering by bricks. The work shall be done as per the extant practice on North Western Railway and instructions of Railway Engineer at site. In case 1.2m depth of trench is not achievable due to site conditions, specific approval of JA grade officer will be required for each site where trench depth of 1.2m is not possible. Without the approval of JA Grade officer, no payment for trenching will be made for trench depth less than 1.2m. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is Cubic Meter)						
185	12013900	100.00	cum	503.04	50304.00	AT Par	50304.00
	Description:- Digging of cable trench 0.3 Mtrs. Deep and 0.3 Mtrs. Wide on Asphalted Platform / Road / Hard rocky area. Refilling with earth leveling of trenches & restoring the original surface of trenches. The sharp edges will be smoothened out in bottom of the chase and will be leveled properly. In hard rocky ground area , cables will be laid normally on layer of shifted earth of 0.05 mtrs thickness previously deposited at bottom of the trench and cables will be covered with layer of sand or shifted earth of 0.1 mtr thickness. In case sharp edges of rocky ground can not be protected from shifted earth then GI/ CI/PVC /DWC/ HDPE pipes will be used, if numbers of cables is small. In case number of cables are large RCC duct will be used. In isolated cases, it can be given smooth surface by using either masonry bricks or cement concrete. A row of bricks shall then be placed length wise on the top and jointed with cement mortar and layer of concrete with cement plaster shall be provided on top of the same. Note: This item in hard rocky area will be operated only where normal depth i.e.1.2 mtr is not possible and it will be decided by site engineer/unit officer incharge of work. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is Cubic Meter)						
186	12014000	2.00	Numbers	12506.58	25013.16	AT Par	25013.16
	Description:- Digging of cable pit (min 2x2x1m) as per instruction of Site Engineer, supplying and filling of sand before and after coiling the cables, covering top of the cable pit with stones and providing brick masonry on all four sides of the cable pit and plastering thereafter. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
187	12014100	140000.00	Metre	9.10	1274000.00	AT Par	1274000.00
	Description:- Laying of S&T Cables of various cores/ pairs/ quads in trenches/ GI pipes/ RCC pipes/ DWC pipes/ Trunking. This also includes laying of cables in track crossings & road crossings. Item includes provision of labels of coloured plastic adhesive tapes or any other identifiable material on each cable to give the cable number at each Gantry Post/hectometer post.(Cables will be meggered before and after its laying by contractor under supervision of Railway Representative and he will submit the meggering report of each testing). Length of the cable laid includes the length of the cable coiled for termination purposes. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(unit is RM running meter)						
188	12014200	5.00	cum	3628.26	18141.30	AT Par	18141.30
	Description:- Cement concrete work for miscellaneous items in the ratio 1 : 3 : 6 . Item includes excavation, ramming, curing and plastering with cement & sand mixture (aggregate not exceeding 3.8 cm.) (Aggregate cement & sand to be supplied by the contractor). Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is cubic meter)						
189	12014300	5.00	cum	1990.54	9952.70	AT Par	9952.70
	Description:- Providing brick masonry in ratio 1:6 cement and mortar including plastering with 1:4 cement and sand mixture both sides, 20 mm thick each with contractor's owned class II bricks, including excavation, curing, grouting, bolting etc. wherever required. Bricks sand and cement to be supplied by the contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is cubic meter)						
190	13010100	1.00	Numbers	158443.22	158443.22	AT Par	158443.22
	Description:- Supply of Earth Leakage Detector (ELD) 12 Channels as per RDSO Specn.RDSO/SPN/256/2002 or latest. Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
	13010200	1.00	Numbers	39610.81	39610.81	AT Par	39610.81

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191	Description:- Wiring, installation, testing and commissioning of Earth Leakage Detector (ELD) 12 Channels as per RDSO Specn.RDSO/SPN/256/2002 or latest. This includes supply of fuse terminal strip for incoming power supply wires. On job training at site will be given by OEM engineer for installation and maintenance of ELD. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after commissioning.						
192	13010300	20.00	Lot	17530.73	350614.60	AT Par	350614.60
	Description:- Supply of basic material to construct unit maintenance free earth as per RDSO Specs. No RDSO/SPN/197/2008 or latest and conforming to RDSO Drg.No.SDO/ RDSO/E&B/001 dtd.19.09.08 . It consist of following: (a) Copper bonded steel electrode of 3.0 m long, 17.2 mm dia with copper bonding thickness of minimum macrons and UL listed and marked = 1 no. (b) Earth enhancement material supplied in sealed bags of minimum 10 kg = 3 nos. © Copper strip of 150x25x6 mm, to terminate earth rod = 1 no. (d) Copper strip of 300x25x6 mm (MEEB) = 1 no. (e) Copper strip of 150x25x6mm (SEEB) = 1 no. (ii) Supply of 35 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting main earth electrode to MEEB in the equipment room in duplicate.(minimum 10 meter) (iii) Supply of 16 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting MEEB to SEEB and SPD to MEEB (minimum 10 meter) (iv) Supply of 10 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting various equipments to SEEB (v) Supply of copper lug sleeve for 3/16 cable Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
193	13010400	15.00	Set	7861.68	117925.20	AT Par	117925.20
	Description:- Installation of Unit Maintenance Free Earth as supplied under item no. 13.3 of Chapter 13 of SOR . It includes (i) Digging the earth to the required depth. (ii) Insertion of electrode. (iii) Filling of earth enhancing compound (Approx.30 Kg) (iv) Provision of exothermic weld connections to copper tape of 25 mm x 6 mm x 150 mm to the earth electrodes. All material tools and features required for weld will be arranged by contractor. (v) This also includes CC cover 1.5 ft x 1.5 ft. 1 ft wall thickness 2 inch with cover 3 inch thickness. Cables 35 Sq mm/ 16 Sq mm/10 sq mm for connecting earth to busbar, busbar to busbar and busbars to various equipments. Earth electrode of 17.20 mm dia and 3.00 meter long high tensile low carbon steel circular rods molecularly bonded with copper and outer surface (minimum copper bonding thickness of 250 microns to made requirement of under writer's laboratories (UL) 467-2007 or latest. Copper strips of 150 mm x 25 mm x 6 mm to be welded with each earth electrode, copper strips of 300 mm x 25 mm x 6 mm for main equip- potential busbar, copper strips of 150 mm x 25 mm x 6 mm sub equip-potential busbar in relay room, power room and panel room. GI strip 25 mm x 2 mm for ring formation of earth pits Earth enhancement material in bags for each Earth Electrode. Inspection chamber of site 300 mm x 300 mm x 300 mm (Inside dimension) of approximate 50 mm thick with pulling hooks to cover the earth pits. Note: The installation of this item shall be carried out by the contractor as per RDSO Specn.No.RDSO/SPN/ 197/2008 or latest and conforming to RDSO Drg.No.S DO/RDSO/E&B/001 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution and testing.						
194	13010700	1.00	Station	151992.97	151992.97	AT Par	151992.97
	Description:- Provision of Ring Earth for EI system which includes supply of all componenents of earthing & bonding system like earth electrode, earth enhancement material, earth pit, equipotential earth busbar, connecting cables and tape/strips and other associated accessories in accordance with RDSO Spec.No.RDSO/SPN /197/2008 or latest consisting minimum 8 Nos. of earth pits connected in a ring to achieve less than 1 Ohms earth resistance for connecting EI equipments, relay racks, panel, power equipments as per Signal Engineering Practice. Diagram of ring earth should be supplied to Railway for Approval before execution. All related material as recommended by RDSO in Specn. No.RDSO/SPN /197/2008 or latest, will be supplied by the contractor. basic material for one earth pit is given below: (a) Copper bonded steel electrode of 3.0 m long, 17.2 mm dia with copper bonding thickness of minimum macrons and UL listed and marked = 1 no. (b) Earth enhancement material supplied in sealed bags of minimum 10 kg = 3 nos. © Copper strip of 150x25x6 mm, to terminate earth rod = 1 no. (d) Copper strip of 300x25x6 mm (MEEB) = 1 no. (e) Copper strip of 150x25x6mm (SEEB) = 1 no. (f) Supply of 35 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting main earth electrode to MEEB in the equipment room in duplicate.(minimum 10 meter) (g) Supply of 16 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting MEEB to SEEB and SPD to MEEB (minimum 10 meter) (h) Supply of 10 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting various equipments to SEEB (i) Supply of copper lug sleeve for 3/16 cable Note:Earthing arrangement for EI must be as per RDSO guidelines issued by RDSO vide RDSO TAN no. STS/E/TAN/3006 dated 02.11.2012 or latest. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
	13010800	1.00	Station	37998.24	37998.24	AT Par	37998.24

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195	Description:- Installation, testing and commissioning of Ring Earth for EI system which includes installation of all components of earthing & bonding system like earth electrode, earth enhancement material, earth pit, equip- potential earth busbar, connecting cables and tape/strips and other associated accessories in accordance with RDSO Spec.No.RDSO/SPN /197/2008 or latest consisting minimum 8 Nos. of earth pits connected in a ring to achieve less than 1 Ohms earth resistance for connecting EI equipments, relay racks, panel, power equipments as per Signal Engineering Practice. Diagram of ring earth should be supplied to Railway for Approval before execution. Installation of one earth pit includes (i) Digging the earth to the required depth. (ii) Insertion of electrode. (iii) Filling of earth enhancing compound (Approx.30 Kg) (iv) Provision of exothermic weld connections to copper tape of 25 mm x 6 mm x 150 mm to the earth electrodes. All material tools and features required for weld will be arranged by contractor. (v) This also includes CC cover 1.5 ft x 1.5 ft. 1 ft wall thickness 2 inch with cover 3 inch thickness. Cables 35 Sq mm/ 16 Sq mm/10 sq mm for connecting earth to busbar, busbar to busbar and busbars to various equipments. Earth electrode of 17.20 mm dia and 3.00 meter long high tensile low carbon steel circular rods molecularly bonded with copper and outer surface (minimum copper bonding thickness of 250 microns to made requirement of under writer's laboratories (UL) 467-2007 or latest. Copper strips of 150 mm x 25 mm x 6 mm to be welded with each earth electrode, copper strips of 300 mm x 25 mm x 6 mm for main equip- potential busbar, copper strips of 150 mm x 25 mm x 6 mm sub equip-potential busbar in relay room, power room and panel room. GI strip 25 mm x 2 mm for ring formation of earth pits Earth enhancement material in bags for each Earth Electrode. Inspection chamber of site 300 mm x 300 mm x 300 mm (Inside dimension) of approximate 50 mm thick with pulling hooks to cover the earth pits. Note:Earthing arrangement for EI must be as per RDSO guidelines issued by RDSO vide RDSO TAN no. STS/E/TAN/3006 dated 02.11.2012 or latest. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after commissioning.						
196	13011000	1.00	Numbers	44045.61	44045.61	AT Par	44045.61
197	Description:- Supply of Digital Multimeter of Fluke 287 Industrial or superior True RMS with temperature, Analog bar graph, Digital display, Backlight, 1000V AC/DC, measure up to 10A, 20A for up to 30 second . Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
198	13011100	1.00	Numbers	13946.28	13946.28	AT Par	13946.28
199	Description:- Supply of Professional AC/DC clamp meter 3 ¾ digit , true RMS measurement, For Measurement of DC/AC currents up to 1000A, Voltage up to 600V, resistance up to 40 M and frequency up to 1 MHz with set of leads & carrying case. Model - DCM 39A or equivalent/ higher make Motwane/Stanlay/Fluke/Megger Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
200	13011200	1.00	Numbers	84854.46	84854.46	AT Par	84854.46
201	Description:- Supply of Handheld Digital Earth Clamp Tester for clamp on earth/ground resistance measurement up to 1000 ohms. Accuracy 0.1 - 0.99 : 1%, 1 - 49 : 1.5% Also measure current leakage up to 20A. No spines required for measurement Model - DECT-2 or equivalent / higher version make Motwane/Stanlay/Fluke/Megger. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
202	13011300	1.00	Numbers	416265.75	416265.75	AT Par	416265.75
203	Description:- Supply of electronic Cable route tracer/locator with underground cable and pipe locating receiver and cable avoidance tool that provide location of armoured OFC , signalling and telecom , power cable etc. make : C Scope Stanley/3M Dynatel , model: DXL-4 DBG /2273M-iD 30 or superior. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
204	13011400	1.00	Numbers	4298.60	4298.60	AT Par	4298.60
205	Description:- Supply of Road Measuring Cycle, made of Aluminum with 05 digit counter, foldable with bag. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
206	13011500	1.00	Numbers	8689.42	8689.42	AT Par	8689.42
207	Description:- Supply of Digital Cable Insulation Tester for measurement of cable insulation resistance with auto range 0-500 V DC. Motwani or from any reputed make. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
208	13011600	1.00	Numbers	18663.41	18663.41	AT Par	18663.41
209	Description:- Supply of Transmission Measuring Set/Kit along with all accessories as per RDSO Specn.No.IRS- TC- 43/87 or latest. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
210	13011700	1.00	Numbers	57230.47	57230.47	AT Par	57230.47
211	Description:- Supply of Cable Fault Locator to localize the faults of underground cables. Aplab make (Model No.3049) OR C Scope Stanley make(Model TS-90) or superior from any reputed make. It also includes supply of all accessories required to localize faults of underground cables. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
212	13011800	1.00	Numbers	8758.40	8758.40	AT Par	8758.40

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	Description:- Supply of Digital Earth Resistance Tester for measurement of earth resistance with 3.5 digital LCD, 12.5 mm screen segment and Range -0.5 Ohms to 500 Ohms. WACO or from any repudiated make. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
205	14010200	5.00	Numbers	1052.83	5264.15	AT Par	5264.15
	Description:- Supply of seal plier as per sample got approved from site engineer incharge. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Supply						
206	14010300	1.00	Numbers	22344.97	22344.97	AT Par	22344.97
	Description:- Supply of Vacuum Cleaner, Eureka Forbes or from any reputed make only as per specification given below:-Voltage-230V AC,50Hz, Input Power(IEC)-1000 Watt, Suction of the motor 1700 mm of water column , Airflow-30 litres/second, Dust collection capacity-61(dry), 81(wet), Variable power option-2 Speed, Blower function, Air filtration-2 Stage, Hepa filter, Dust collection type-Washable dust bag, On board accessory storage. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Supply						
207	14010400	25.00	Numbers	111.94	2798.50	AT Par	2798.50
	Description:- Supply of Safety lock Godrej or Navtal make size as approved by site engineer. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Supply						
208	14010500	50.00	Numbers	344.34	17217.00	AT Par	17217.00
	Description:- Supply of hand cuff lock Godrej or Navtal make size as approved by site engineer. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Supply						
209	14010600	10.00	Numbers	2460.28	24602.80	AT Par	24602.80
	Description:- Supply of Obstruction test piece 3mm/5mm as per sample approved by Engineer incharge. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Supply						
210	14011500	5.00	Per Unit	1750.40	8752.00	AT Par	8752.00
	Description:- Provision of Power supply arrangement, with contractors own Generating sets , capacity 5 KVA or above as per requirement of Station Signalling load, for testing of Signalling system in the case of irregular Local power supply / under capacity AT,s supply system at station. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution(Unit is per DG set per day)						
211	14011600	1.00	Station	36944.91	36944.91	AT Par	36944.91
	Description:- Complete painting and varnishing work at a station (3/4 Line). This includes painting of signal posts and fittings, apparatus cases, point machines, junction boxes, rail post etc. This also includes varnishing, letter writing on relays, terminal Nos., apparatus cases, point machine, Signal Nos. and other details as per Signal Engineering Manual and instructions of Engineer at site. The item includes painting of distances of main cable run from G.P nearest to cable run and painting of distances of signals from nearest line on the signals base. At least two coats of paint is to be applied besides primary coating of red oxide. This includes supply of paints, varnishes and all other material required for complete painting work at a station. This includes painting on existing functional units also. The painting shall consist of initial red oxide / base paint followed by at least two coat of the paint as per standard painting scheme. This item also includes painting of interlocked gate attached to the station. Location box no. shall be painted on both sides. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution						
212	14011900	10.00	Hour	1090.59	10905.90	AT Par	10905.90
	Description:- Hiring of JCB machine(in good condition) for levelling and dressing ground/ dismantling structures including disposal of debris through dumpers etc with contractors labour , JCB machine , machine operator, fuel etc. The contractor shall arrange for road permit for all the states for operation as per instructions of engineer incharge and vehicle shall not be more than 3 years old . Payment shall be made for actual working hrs at site. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution						
213	05014000	1.00	Numbers	97013.46	97013.46	AT Par	97013.46
	Description:- Installation, wiring, testing and commissioning of Diesel Generator Set 20 KVA, Single Phase, 240V, 1500 RPM, 50 Hz, 30 BHP (minimum) mounted with air cooled double cylinder diesel engine with acoustic enclosure complete silent type DG sets confirming to RDSO Specn.No.IRS(S) 69/86 with latest. (CPCB Noise and Emission Complaint) Kirloskar make engine/alternator.This also includes supply of standard AMF control panel, supply of 12V/120 AH battery set along with battery charger of suitable rating for charging the batteries to ensure self starting arrangement of DG sets. It also includes supply of start/stop buttons, Volt/Ampere/Frequency meters and 63 AMP MCB(minimum). Note: DG set will be procured from OEM or authorized dealer of OEM's with the warranty certificate of minimum 1 year. All masonry work required for installation of DG set will be done by contractor under supervision/instructions issued by site engineer incharge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Commissioning						
214	14012700	5.00	Numbers	1830.92	9154.60	AT Par	9154.60

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	Description:- Supply & fixing of Crank Handle Box & SM's key box of size 450 mm x 250 mm x150 mm and made of 12 mm thick teakwood with a glass front, lock and sealing arrangement. All material like lock, teakwood, handles, hinges, glass sheet of 3 mm thick will be supplied by the contractor. Box will be polished and description will be written as per instructions of Engineer in charge. Inspection:Consignee Inspection Charges: None Payment Terms: 100 % after Execution						
215	14012800	5.00	Numbers	1722.47	8612.35	AT Par	8612.35
	Description:- Supply & fixing of KLCR boxes & fixing of KLCR Relays in ASM office. It includes supply of any minor bracket, nuts, bolts, teakwood, sun mica, lock, drilling hole etc as directed by engineer at site. It also includes supply and wiring of push buttons along with LEDs for KLCR circuit. Rly will supply only KLCR relays and contractor has to wire KLCR relays. It includes supply of all the related wiring material. Inspection:Consignee Inspection Charges: None Payment Terms: 100 % after Execution						
216	15010100	305.00	Metre	18.74	5715.70	AT Par	5715.70
	Description:- Supply of UTP CAT-6 cable in a roll of 305 meter and make Siemen/ Systemax / Panduit/ Tyco/ Krone/ AMP. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
217	15010200	2.00	Numbers	3316.73	6633.46	AT Par	6633.46
	Description:- Supply of 4/2 wire combined Portable Light Weight Emergency control telephones of metal body with 6-pin plug as per IRS-TC-75/99 (Amnd 4) or latest. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
218	15010300	2.00	Numbers	1401.40	2802.80	AT Par	2802.80
	Description:- Supply of KRONE Punching tool, Krone or any reputed make only. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
219	15010500	20.00	Numbers	947.11	18942.20	AT Par	18942.20
	Description:- Supply of patch chord cable (10 meter long) with FC/PC connectors compatible with SDH equipments as per TEC Specn.No.GR/OFJ-02/01 May 2004 with latest Amendment. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
220	15010600	2.00	Numbers	12752.20	25504.40	AT Par	25504.40
	Description:- Supply, preparation, splicing and installation of straight joint for 24 fibers along with enclosures with heat shrinkable splice protection sleeve as per TEC Specn.G/OJC-02/01 March- 99 or latest. Splice losses in no case should be more than 0.1 dB. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
221	15010700	1.00	Numbers	193957.98	193957.98	AT Par	193957.98
	Description:- Supply of managed SDH (STM-1 Add/Drop MUX and upgradeable to STM-4) fully wired for 2 X 63 MB and equipped for 21E1s and a Virtual Container (VC)-12 with STM-1(L1.1) aggregate interface including power supply, order wire, Ethernet card, sub rack, inbuilt DDF, installation material and all other accessories, manuals etc. as per TEC. Specification GR SDH 04/02, March 02 or with latest amendment. The contractor will supply all other accessories as mentioned in the above said TEC Specifications and system will have provision of different redundancy cards as per the TEC Specifications. Note: It shall be possible to increase capacity from 21E1 to 63 E1s by adding / inserting tributary cards. This includes connecting all pig tails, optical patch cords etc. to the SDH equipment. This also includes connecting the SDH equipment with all cards to the 48V Bus including supply of wires and connectors. Termination of all E1s on DDF taking PVC cable over runway or a wall. At the terminal station, one port may be disabled if required as per instructions given by site engineer incharge. Inspection:(i) RDSO if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply.						
222	15010800	1.00	Numbers	48489.50	48489.50	AT Par	48489.50
	Description:- Installation, wiring, testing & commissioning of managed SDH (STM-1 Add/Drop MUX and upgradeable to STM-4) fully wired for 2 X 63 MB and equipped for 21E1s and a Virtual Container (VC)-12 with STM-1(L1.1) aggregate interface including power supply, order wire, Ethernet card, sub rack, inbuilt DDF, installation material and all other accessories, manuals etc. as per TEC. Specification GR SDH 04/02, March 02 or with latest amendment. The contractor will install all other accessories as mentioned in the above said TEC Specifications and system will have provision of different redundancy cards as per the TEC Specifications. Note: It shall be possible to increase capacity from 21E1 to 63 E1s by adding / inserting tributary cards. This includes connecting all pig tails, optical patch cords etc. to the SDH equipment. This also includes connecting the SDH equipment with all cards to the 48V Bus including supply of wires and connectors. Termination of all E1s on DDF taking PVC cable over runway or a wall. At the terminal station, one port may be disabled if required as per instructions given by site engineer incharge. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
	15010900	1.00	Numbers	253550.16	253550.16	AT Par	253550.16

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TENDER DOCUMENT**

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223	Description:- Supply of 2 Mb Programmable Primary Digital drop insert multiplexer as per RDSO Specs. IRS TC- 68/2004 (Amnd.1) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply card, remote control, supervision facility and all other accessories, installation material, manuals etc. It should have facilities to accommodate data interface card in multi drop mode and should be able to support cards needed for video conferencing and ISDN. It shall support NMS installed at Test Room and may operate local/remote location of entire section. It also includes submission of all technical documents, manuals and supply of all miscellaneous items which will be required for final testing and commissioning of system. The above MUX should be equipped with following circuits: - i) 2 wire/ 4 wire E&M VF circuits (minimum 16 nos ckts) ii) Subscriber loop circuits (minimum 4 nos ckts) iii) Exchange loop interface circuits (minimum 8 circuits) iv) This also includes connecting all pigtails, optical patch cords etc to the SDH equipments. This also includes connection of SDH and primary MUX equipment with all interface cards to the 48V Bus including supply of wires and connectors termination of all evens on DDF taking PVC cable over runway or a wall and termination of VF interface circuit to the Krone type. Inspection:(i) RDSO if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply						
224	15011000	1.00	Numbers	63387.54	63387.54	AT Par	63387.54
	Description:- Installation, wiring, testing and commissioning of 2 Mb Programmable Primary Digital drop insert multiplexer as per RDSO Specs. IRS TC- 68/2004 (Amnd.1) or latest with conference facility and other stipulation to tender documents and fully wired for 30 channel complete with power supply card, remote control, supervision facility and all other accessories, installation material, manuals etc. It should have facilities to accommodate data interface card in multi drop mode and should be able to support cards needed for video conferencing and ISDN. It shall support NMS installed at Test Room and may operate local/remote location of entire section. It also includes submission of all technical documents, manuals and supply of all miscellaneous items which will be required for final testing and commissioning of system. The above MUX should be equipped with following circuits: - i) 2 wire/ 4 wire E&M VF circuits (minimum 16 nos ckts) ii) Subscriber loop circuits (minimum 4 nos ckts) iii) Exchange loop interface circuits (minimum 8 circuits) iv) This also includes connecting all pigtails, optical patch cords etc to the SDH equipments. This also includes connection of SDH and primary MUX equipment with all interface cards to the 48V Bus including supply of wires and connectors termination of all evens on DDF taking PVC cable over runway or a wall and termination of VF interface circuit to the Krone type. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
225	15011100	1.00	Kilometre	48313.26	48313.26	AT Par	48313.26
	Description:- Supply of Pre-lubricated HDPE duct, 40 mm OD, 33 ID as per RDSO specification No. RDSO/SPN/TC/45/2013 Rev. 2.0 or latest. The item also includes supply of all the accessories of HDPE duct like end caps, collars, bends, couplers etc. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
226	15011200	1.00	Kilometre	12078.31	12078.31	AT Par	12078.31
	Description:- Laying of Pre-lubricated HDPE duct, 40 mm OD, 33 ID as per RDSO specification No. RDSO/SPN/TC/45/2013 Rev. 2.0 or latest. The item also includes installation of all the accessories of HDPE duct like end caps, collars, bends, couplers etc. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
227	15011300	1.00	Kilometre	10804.77	10804.77	AT Par	10804.77
	Description:- Blowing/drawing of OFC cables in the HDPE duct along with all the protective work as per instructions of engineer incharge at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
228	15011400	2.00	Numbers	5263.87	10527.74	AT Par	10527.74
	Description:- Construction of brick chamber of optical fibre cable straight through joint as per Drg. No. CSTE/NWR/ SOR/23. It also includes supply and provision of all the material required for this item like bricks, sand, cement etc. The cement and sand should be in ratio 1:6. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
229	15012000	1.00	Numbers	127514.14	127514.14	AT Par	127514.14
	Description:- Supply of SMPS based Battery Chargers as per RDSO Spec for Telecom use 48 volts, 25 Amps in 2+1 configuration modules of 25 Amps with ultimate expandable capacity 50 Amps, automatic switching between the modules as per RDSO Spec No. RDSO/SPN/TC/23/1999 version 4 or latest along with two potential free contacts. Inspection: (i) RDSO if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
230	15012300	1.00	Numbers	77027.97	77027.97	AT Par	77027.97

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	Description:- Supply of 48Volt/200AH maintenance free VRLA Batteries duly charged as per IRS Spec. No. S-93/96(A) with amendments-1 or latest Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after Supply.						
231	15012400	1.00	Numbers	19256.99	19256.99	AT Par	19256.99
	Description:- Installation, wiring, testing & commissioning of 48Volt/200AH maintenance free VRLA Batteries duly charged as per IRS Spec. No. S-93/96(A) with amendments-1 or latest. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
232	15012600	2.00	Numbers	20260.32	40520.64	AT Par	40520.64
	Description:- Supply of Universal 2/4 wire way station control Telephone with PSU as per RDSO spec. no. IRS: TC:82: 2005) (with Amd. 1 or latest) Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply."						
233	15013000	6.00	Kilometre	305.00	1830.00	AT Par	1830.00
	Description:- Video recording of trenching. It includes the man power and all required arrangement for video recording at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
234	15013700	10.00	Numbers	1232.67	12326.70	AT Par	12326.70
	Description:- Supply of 10 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
235	15013800	10.00	Numbers	308.17	3081.70	AT Par	3081.70
	Description:- Fixing and wiring of 10 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
236	15013900	10.00	Numbers	1963.08	19630.80	AT Par	19630.80
	Description:- Supply of 20 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
237	15014000	10.00	Numbers	490.77	4907.70	AT Par	4907.70
	Description:- Fixing and wiring of 20 Pairs Krone type D.P. box as per Tech spec, make Hensel or superior. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
238	15015400	1.00	Numbers	29373.13	29373.13	AT Par	29373.13
	Description:- Supply of 19" covered rack of size 2035 X 600 X 600 mm (Approx) as per Drg.No.CSTE NWR SOR 24. The rake shall be complete with all fittings for housing SDH equipments, PDMUX, DDF, MDF using krone modules and other accessories like cable and connectors, runway ladders, locking arrangement, completely wired and equipped with IPM for all equipped channels. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
239	15015500	1.00	Numbers	7343.28	7343.28	AT Par	7343.28
	Description:- Installation and complete indoor wiring of 19" covered rack of size 2035 X 600 X 600 mm (Approx) as per Drg.No.CSTE NWR SOR 24. The rake shall be complete with all fittings for housing SDH equipments, PDMUX, DDF, MDF using krone modules and other accessories like cable and connectors, runway ladders, locking arrangement, completely wired and equipped with IPM for all equipped channels. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
240	15015600	1.00	Numbers	53345.24	53345.24	AT Par	53345.24
	Description:- Supply of integrated Access Multiplexer 4U height/19" Rack mountable with 4 DTE (1+1) protection E1 interfaces & V.21/V.23 Modules supporting 8 Interface of (2W/4W) in one module and one Telnet port balance 2 slots empty; unit to support both AC/DC power supply; Cable to be provided for one no for E&M interface; DC to AC adapter- 1 Nos; Make Fabio 4C/ 4E1/ DC Team Engineer. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.						
241	15015700	1.00	Lumpsum	9048.21	9048.21	AT Par	9048.21
	Description:- Installation of integrated Access Multiplexer 4U height/19" Rack mountable with 4 DTE (1+1) protection E1 interfaces & V.21/V.23 Modules supporting 8 Interface of (2W/4W) in one module and one Telnet port balance 2 slots empty; unit to support both AC/DC power supply; Cable to be provided for one no for E&M interface; DC to AC adapter- 1 Nos; Make Fabio 4C/ 4E1/ DC Team Engineer. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.						
242	15016300	1.00	Numbers	65503.57	65503.57	AT Par	65503.57
	Description:- Supply of Electronic LC gate telephone system in 1+6 configuration with inbuilt voice recorder . It includes supply of 'surge protection and line connection unit /circuit' and centralised power supply system with battery as per RDSO Spec no. RDSO/SPN/TC/51/2011Revision 3.0 amendment 1.0 or latest. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply						
243	15016800	3.00	Numbers	1548.91	4646.73	AT Par	4646.73

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	Description:- Supply and provision of thermo-shrink splice filling jelly jointing kit as per RDSO Specn.No.RDSO/SPN/TC/57 2015 (Rev.1) Amnd.1 or latest suitable for PIJF cable for straight through joints. It includes supply of all the accessories as recommended by RDSO. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.							
244	15016900	15.00	Numbers	248.70	3730.50	AT Par	3730.50	
	Description:- Painting of emergency post and sockets in sections as per instructions of the site engineer in charge. This shall include all material, labour and transportation required for painting of emergency post and sockets in section. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.							
245	15017200	1.00	Station	8912.22	8912.22	AT Par	8912.22	
	Description:- Shifting and installation of control and other telecom equipments like control phone, magneto phone, auto phone, VHF sets, VF Repeaters etc from old station building to new station building as per instructions of site engineer. All the material required for fixing and installation will be supplied by the contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after execution.							
246	15020400	1.00	Numbers	31750.25	31750.25	AT Par	31750.25	
	Description:- Supply of Sine Wave output Voltage inverter of 2.0KVA capacity with minimum 180 Minutes backup, with having battery capacity VAH:8640 with trolley stand. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after supply.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B-NS Items							7862378.42	
1	NS	3.00	Set	159975.55	479926.65	AT Par	479926.65	
	Description:- Supply of modular power supply arrangement for VDU (42" to 85") and embedded PC with input and output redundancy arrangement and hot plug-able modules having voltage & load current digital display on each module. Each set consisting of: - 1.Isolated inverters (master/slave with auto changeover) -2 Nos. input: 110VDC,output: 110 VAC, 500VA (as per RDSOTAN No. STS/E/TAN/3012 Version 3.0Dated.03.11.22) 2.Isolated DC-Converters - 02 Nos. connected in parallel with built in O-ring diode, active current sharing as per RDSO/SPN/165/2023 version 4.0 or latest (input: 110VDC, output:24VDC/10A) 3.Input (redundancy) O-ring diode module with two input sources and one output supply along with potential free contacts, alarm and acknowledgment switch. 4. 3Ustainless steel rack with back panel mother board and front panel power connectors, power cord for VDU panel. Technical detail is mentioned inAnnexure-TS-1(B). Make- Gallant or Similar. Inspection: RITES, Inspection charges: Borne by Railways, Paymentterms:100% after supply							
2	NS	3.00	Set	18282.92	54848.76	AT Par	54848.76	
	Description:- Installation, Wiring, Testing and Commissioning of modular power supply arrangement for VDU (42" to85") as per RDSO TAN No.STS/E/TAN/3012 Version 3.0Dated.03.11.22 item includes supply and fixing of suitable mount in arrangement. Inspection: Consignee, Inspection charges: None ,Paymentterms:100% after commissioning							
3	NS	1.00	Lot	1607809.26	1607809.26	AT Par	1607809.26	
	Description:- Supply of the various spares card related to EI to suit Item no-1.2 of NWR SOR S&T/2020 (10% of spare which include minimum 01cards)							
4	NS	1.00	Numbers	31092.91	31092.91	AT Par	31092.91	
	Description:- Supply of Dual RS232 to E1 Converter card suitable to insert in the data logger euro rack for interlinking data loggers installed at various stations. One number per data logger is required which converts voice to E1 channel at stations Inspection Charges: Nil. Payment Terms: 100% after supply							
5	NS	1.00	Numbers	57410.64	57410.64	AT Par	57410.64	
	Description:- Fabrication and supply of CT Rack Moveable Board. The CT Rack moveable board should have arectanguloid structure consist of four nos. of white coloured rectangular faces of adequate size to accommodate terminal detail writing of one cable termination rack on eachface. The CTR board should be fabricated from wood/metal frame, plywood, sun mica and mounted on arectanguloid stand by mean of the ball bearing pivot to facilitate the rotation of upper rectanguloid structure freely. The bottom rectanguloid stand should be fitted with rollers for smooth movement on floor. Drawing, size and material will be as per instructions of Engineer in-charge of the work. Inspection: Consignee. Inspection charges: None. Payment terms: 100% after supply							
6	NS	100.00	Metre	300.50	30050.00	AT Par	30050.00	
	Description:- Supply & installation of Copper Tape25x3mm for perimeter bonding in S&T rooms as per RDSO Drawing no.SDO/RDSO/E&B/001 of latest. it includes supply of insulators ,fasteners clamps etc. (To be used in Relay Room, IPS room and Panel Room for BRC and to be connected to Ring earth.).Inspection: Consignee. Inspection charges: None. Payment terms: 100% after installation.							
	NS	1.00	Set	9901.11	9901.11	AT Par	9901.11	

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Tender No: SNT-GSU-JU-2026-27-02

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7	Description:- Supply, Fixing and Wiring of DISTRIBUTION BOARD (MCB BOX), 12WAY, METAL DOOR (Double Door)TYPEOF MAKE- HAVELS (Model 'Metallic DB')/L&T (Model IP-43, Metal Door)/SIEMENS (Model Double Door SPN DB -IP-42 .The distribution box should be fitted with 06 numbers of Double Pole MCBs (2P/240V or 415VAC) of current rating preferably 2Amp (or rating decided by suggested by site engineer) of HAVELS/L&T/SIEMENS make. (This item to be used for distribution of 230V AC supply from DG/Mains change over to different functions like -For Data logger 230 V operation supply, For 230 V input for Analog sensors of Data logger, For Input of VHF and other communication equipment of SM Room etc. or for other purposes as decided by site engineer). Inspection: Consignee. Inspection charges: None. Payment terms: 100% after installation						
8	NS	1.00	Set	64429.22	64429.22	AT Par	64429.22
	Description:- Supply and Installation of RO membrane based De-ionizer plant to produce Battery water of TDS less than5 ppm irrespective of the quality of raw water, pH Value:- 6.5 to 7.2,specific electric conductivity :- 0 to 5micro mhos/cm at 25 Degree Celsius, output capacity should be 12-15 Ltrpurified water/Hour. Plant should have suitable fixture/wall mounting arrangement with external PVC storage tank of capacity 200 Ltr, Plant should have on board TDS meter, Indication of On/Off, Solenoid/Flow switch fitted to avoid dry run of the machine, Weight sensor/Float switch installed on storage tank to avoid over flowing of the tank. The item includes supply of one set of the spare filters/membranes in addition to the fitted filters-membrane with the machine (spare should be of similar spec/type as used in the machine). Plant should work on230V AC input (Internally works on 24V DC) and should not require any type of chemical re- charging except filters and membranes. The life of filter/membrane should not last before production of minimum 12000 Ltr of battery water. Item includes supply offal the accessories required for installation of the plant like fasteners, connecting pipes (of length up to2 Mtr), cable from wall socket to the machine (of length up to 2 Mtr), couplers/tap required to connect it from water tap/outlet, PVC pipe up to storage tank (of length up to 2 Mtr).The quality test certificate of produced water must be submitted by the supplier from any repudiated test laboratory. The OEM should give on-site warranty of one year. Inspection: Consignee. Inspection Charges: None. Payment Terms:100% after installation.						
9	NS	25.00	Sqm	1658.02	41450.50	AT Par	41450.50
	Description:- Supply and fixing of insulation Rubber mat for electrical purpose 2.5mm thick size 2m x 1 m suitable for 3.3 KV to 11KV (Class- B) confirming to IS 15652-2006.(Unit-Per Square Meter)Inspection: Consignee Inspection Charges: NonePaymentTerms:100% after fixing						
10	NS	1.00	Set	284356.92	284356.92	AT Par	284356.92
	Description:- Supply, fabrication, installation and fixing of panel operator console with arrangement to fix up to 55"/65"/75"VDU's - 2Nos. Reset boxes, and others gadgets. This shall be made of knotless than18mm thick plywood/novopanolr better materials with storage facility of approved colors with contractors 'materials, lead, lift and manpower as per the instructions of engineer in charge and as per tentative drawing enclosed in Annexure-TS-10. One number of revolving chair (Godrej Make) Model PCH7001 also to be supplied with the console. Inspection: Consignee. Inspection Charges None.Payment-100% after supply and installation.						
11	NS	12.00	Month	15814.23	189770.76	AT Par	189770.76
	Description:- Hiring of fully furnished Camp Office at site (of Size 2 BHK) for Railway S&T officials for monitoring/ supervision of work. The contractor will provide the storage safe for protection of Important tender related document i.e. M.B./Inspection certificates, drawings ,T&P items etc .The rental cost includes electricity charges, water charges, cost of internet connection (Wifi) & cost of regular cleaning of camp office. The location of the camp office will be decided by the engineer in charge at any place/city/town near the section(probably at Churu Or Ratangarh).Inspection: Consignee, Inspection Charges: None, Payment Terms: 100%after completion of each month cycle						
12	NS	1.00	Numbers	55398.85	55398.85	AT Par	55398.85
	Description:- Supply of led indication system with indication, buzzer and acknowledgment button up to 6 lin station with interface facility to existing data logger and modification of Data logger embedded software when a station master fails to set the point against the occupied line within stipulated time after arrival of the train. Inspection by RITES.						
13	NS	1.00	Numbers	7811.05	7811.05	AT Par	7811.05
	Description:- Testing and commissioning of led indication system with indication, buzzer and acknowledgment button up to 6 line station with interface facility to existing data logger and modification of Data logger embedded software when a station master fails to set the point against the occupied line within stipulated time after arrival of the train. Inspection by Consignee						
14	NS	2.00	Numbers	2861.93	5723.86	AT Par	5723.86
	Description:- Supply of heavy duty Heat Gun of minimum 2000 Watt with LCD display (for temperature) for testing of heat sensors in S&T installation. Make BOSCH , DEWALT or similar professional quality brand. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after supply						
15	NS	5.00	Numbers	1043.86	5219.30	AT Par	5219.30
	Description:- Supply of Smoke Detector Tester Spray, Aerol 9980 or similar for testing of smoke detectors. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after supply						
	NS	1.00	Numbers	7461.05	7461.05	AT Par	7461.05

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16	Description:- Supply of High standing table having iron bar legs, wooden/ plywood top, powder coated metal work and polished wooden work(height 40 to 48 inch, length 60 inch, width 30 inch). Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply						
	NS	60.00	Numbers	6038.36	362301.60	AT Par	362301.60
17	Description:- Supply and installation of Earth Electrode including MS flat for Signalling Equipment as lever frames, apparatus cases, signal, Relay Rack, Block Instrument etc. (Supply and fixing of each earth electrode as per drawing no.RE/S&T/DRG/Tender/SK/398/94 for apparatus cases, signal post and other equipment as per instruction unearthing of S&T equipment. Laying of earth lead mild steel flat of size 35 mmx6mm and fixing of lead M.S. flat to earth electrode and lever frame, signal post and apparatus cases as per drg.no. CORE/S&T/ALD/SK/591/2008,592/2008 and 593/2008 respectively and instructions on earthing at S&T equipment And providing cement enclosure for earth electrode as per drawing no.RE/S&T/Sig/Tender/SK/13/85Alt.- 'A').The detail specification of work is enclosed as Annexure-TS-14 Inspection: RITES. Inspection Charges: Borne by Railway. Payment Terms: 100% after installation						
	NS	200.00	Numbers	9.14	1828.00	AT Par	1828.00
18	Description:- Supply of PTCC Fuse 16-V(GP16-300) or 30V(GP30-185) as decided by Railway. Inspection: Consignee Inspection Charges: None, Payment Terms: 100% after supply.						
	NS	5.00	Set	4630.32	23151.60	AT Par	23151.60
19	Description:- Supply of mechanical tool kit consist of : (a) Hammer hand medium(500 gms) =01 Nos, (b) Goti Handle 12"socket = 01 Nos, (c) Socket in goti 19mm= 01 Nos, (d) Socket in goti 30 mm=01 Nos, (e) Socket in goti16 mm= 01 Nos,(f) Socket in goti 13 mm = 01Nos, (g)Socket in goti 10 mm = 01 Nos, (h) Wire cutter 6" = 01 Nos, (i) Nose plier 6" = 01Nos, (j) Screw driver 6" = 01 Nos, (k) Plier electric 6" = 01 Nos , (l) Screw driver kit(6PC) = 01 Nos, (m) Spanner D/E(30x32)= 01Nos, (n) Spanner D/E(17x19)= 01 Nos, (o) Spanner D/E(32x36) = 01Nos, (p) Spanner S/E (45)=01 Nos , (q) Adjustable Key (12- 300mm)=01 Nos, (r) Screw Driver 16"= 01Nos, (s)Spanner S/E 24 mm = 01 Nos, (t) Tin Cutter = 01 Nos, (u) Cable Insulation Cutter = 01 Nos, (v) Cable Insulation Stripper =01 Nos, (w) Aleen Key Set = 01Nos, (x) Tuner screw drivers = 01 Nos, (y)Measuring Tape(Non - Metallic, 5 meters)= 01 Nos. (z) Heavy Duty, Waterproof, Durable bag for keeping above tools. (AA)Safety gloves for maintenance use in RE Area. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after supply.						
	NS	1.00	Set	6367.03	6367.03	AT Par	6367.03
20	Description:- Supply of 6dB GP Antenna VHF Band(136-174 MHz) with RF cable (min. length of 30 mtr) with both end Connectors (RG 213 Co-axial Cable)suitable for 25 W VHF set.(Kenwood, HYT, Motorola or similar) Inspection: RITES, Inspection Charges: Borne by Railway, Payment Terms: 100% after Supply						
	NS	1.00	Set	8755.46	8755.46	AT Par	8755.46
21	Description:- Fixing of GP antenna for 25 W VHF on the roof of ASM office, connection of the Antenna with coaxial cable, supply and fixing of wooden stand on the wall of ASM room for VHF set, SMPS at the station It includes supply of the12V/100 AH battery, GI pipe of 50mmdia of suitable length (3 m or less),Wooden stand wall mounting size 18" x12 " for VHF, SMPS and battery, PVC conduit pipe 25 mm of required length. it excludes supply of VHF set, Antenna, coaxial cable, SMPS. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation						
	NS	2.00	Numbers	3665.05	7330.10	AT Par	7330.10
22	Description:- Supply, installation and wiring of 24 pair C.T. Box fitted with WAGO make or similar Disconnect type Terminal blocks (Knife type cage clamp technology [Screw-less] with spring loaded contact) having disconnection and reconnection facility, WAGO terminal should suitable for termination of cable from 0.4mm to 0.9mm dia. PIJF/Quad cable [Indoor type]. Inspection: Consignee. Inspection Charges: None. Payment Terms: 70% after supply and remaining 30% after installation/wiring (if installed).						
	NS	5.00	Numbers	2351.14	11755.70	AT Par	11755.70
23	Description:- Supply of magneto telephone desk type (push button) spec No. TC-79/2000 with Amendment No. 3 or latest. Inspection: Consignee (material must be procured from RDSO approved sources only) Inspection Charges: None, Payment Terms: 100%after installation.						
	NS	5.00	Numbers	17295.71	86478.55	AT Par	86478.55
24	Description:- Supply of straight joint closer and splicing of optical fibre (2X48) as per RDSO Spec. TC-68/2020 Rev. 2 or latest. This includes supply of straight joint closer (SJC) complete with all accessories with latest amendments and splicing of optical fibre cables (2X48Fibers)and testing. Inspection: RITES Inspection Charges: Borne by Railway. Payment Terms: 100% after testing.						
	NS	5.00	Numbers	21770.24	108851.20	AT Par	108851.20

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25	Description:- Supply, installation, complete splicing & testing of rack mounted sliding type with Optical fiber cable termination box SC-APC connector for 48 fibers complete with base housing, base mountings with fixing arrangement etc & splicing of fibers with low loss of pigtail cables as per detailed specification mentioned in respective tender documents. Two pairs of fibers shall be derived from either side of OFC cable at every OFC cable hut provided at wayside stations through pigtails with SC/APC connectors and remaining fibers on either side will be made through by splicing. At OFC terminal stations/MW repeater stations, all fibers shall be derived from either side and to be terminated in OFC termination box through pig tails and SC/APC connector. The OFC termination box to be supplied as per TEC No. G/FTB 01-02 March- 99 or latest. Splice losses in no case should be more than 0.1 dB. Necessary 0 dB connectors should be provided by contractor in OFC termination box. Inspection: RITES Inspection Charges: Borne by Railway. Payment Terms: 70% after supply and remaining 30% after splicing and testing.						
26	NS	6.00	Kilometre	4290.26	25741.56	AT Par	25741.56
	Description:- Provision of Geographic Information System (GIS) Mapping of all S&T cable trenches & RCC Ducts (Main and Tail Cables) by collecting and storing positional data at every 5 meter interval with reference to existing track and proposed signaling gears like Location boxes, Signals, Points, Glued Joints, LC gates and other important fixed structures with an accuracy of 23 cm. The GIS mapping includes collection of positional data of the objects using a GNSS RTK enabled device and processing the data on suitable software and map it for preparation of trench layout and exporting data on excel format. It includes exporting and processing of data on google earth and other suitable applications in reference of tracks and track kilo meter chain age. Item covers preparation of trenching plan on CAD format on A3 size paper by importing the data collected from site through GIS mapping device. The plan shall be prepared with suitable scale to showing minute detail of depth of trench and ground level at every five-meter interval, Position of all S&T gears. The data collection shall be done before refilling of trench and shall be processed. After approval of filed units the trench plan will be submitted in 8 Nos of colour copies. Trench data shall be used for preparation of standard cable route plan, preparation of cable route plan is covered separately in another item of schedule. Note:- The GIS mapping shall be done by contractor using their own devices , software and man power. The accuracy of mapped point (saved position of object) must be in range of 2-3 cm (the deviation shall not be permitted beyond 3 cm) Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after after execution. (Measurement Unit: Kilo metre length of mapped trench/RCC duct in Kilo Meters)						
27	NS	2.00	Numbers	2205.61	4411.22	AT Par	4411.22
	Description:- Supply, installation and wiring of 10 pair C.T. Box fitted with WAGO make or similar Disconnect type Terminal blocks (Knife type cage clamp technology [Screw-less] with spring loaded contact) having disconnection and reconnection facility, WAGO terminal should suitable for termination of cable from 0.4mm to 0.9mm dia. PIJF/Quad cable [Indoor type]. Inspection: Consignee. Inspection Charges: None. Payment Terms:70% after supply and remaining 30% after installation/wiring (if installed)						
28	NS	5.00	Numbers	5421.02	27105.10	AT Par	27105.10
	Description:- Supply of Digital AC-DC clamp meter capable of measuring current from 0.1A to 200 A and Voltage up to 600 V with jaw opening size 18 mm (or +/- 2 mm). Make Fluke-362 or Similar from KUSAM-MECO/MATRIX or better Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after after supply.						
29	NS	1.00	Set	359709.17	359709.17	AT Par	359709.17
	Description:- Supply of portable GIS mapping device LT800AH tablet or similar with Antenna, Charger and complete Accessories with warranty of minimum 3 years Technical specifications are attached in Annexure- TS-11 (B). Inspection: RITES, Inspection Charges: Borne by Railway. Payment Terms:100% after supply.						
30	NS	30.00	Square Foot	384.08	11522.40	AT Par	11522.40
	Description:- Printing, Supply and fixing of signboard with printing on Sun board (of thickness minimum 4mm) having colour print of various drawings/photographs/documents like Power board diagram, Relay index chart, Station Rule Diagram, FTOT Particulars etc. as decided by the Railway). Item includes framing of the board with suitable mounting arrangement and fixing on the wall as per instruction of site engineer. Inspection: Consignee. Inspection Charges: None. Payment Terms:100% after fixing.						
31	NS	100.00	Numbers	186.48	18648.00	AT Par	18648.00
	Description:- Supply of various type of printed and bounded booklets/registers/SMC card required for use of maintenance record of the S&T assets. It includes maintenance registers for SMC 1 to 12,Battery maintenance record, cable testing record, earth testing record, counter record, key transaction record etc. for station record and Spot Maintenance Cards for axle counter, point machine, track circuit, Signal, LC Gate etc. to keep in the locations boxes/gears. Each booklet/register must have proper binding with proper hardcover /Thick paper cover. Paper size, print matter, paper thickness and cover quality will be approved by the engineer in charges per Railway practice. Approximate number of pages per each booklet will be 100 Pages (Measurement Unit: Number= per booklet). Inspection: Consignee. Inspection Charges: None. Payment Terms:100% after Supply.						

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32	NS	8000.00	Per Unit	122.47	979760.00	AT Par	979760.00	
	Description:- Termination of main, tail, Signalling and power cables on terminal/ fuse blocks in apparatus cases, cable termination boxes and in gate Lodges excluding cable termination rack at relay room. The work includes fixing of cables by teakwood clamp on teakwood base plank, varnishing all teakwood items, fixing of terminals/fuse blocks on the terminal board/Phenolic sheet, drilling of necessary holes, termination of cables, wiring, earthing of armour of all cables on copper bus bar of 25mm X 3 mm of suitable length to fix it from left wall to right wall of apparatus case, identification of cables using aluminum tags with letters punched neatly, as per approved circuit diagram and cable plan, painting/printing of particulars on sleeves and also on the inner side of the doors of apparatus cases. After terminations are over, the cable entry space/openings of apparatus case foundation shall be closed with brick work; cement plastered, the inter-space filled with river sand up to base level and the bottom surface shall be sealed with sealing compound. (Supply of Phenolic Sheet, Terminals and Fuse blocks are not covered in this schedule).[Cement, teakwood made cable clamp 50mm x 50mm, base planks 100mm x 25mm, PVC/Nylon sleeves, varnish, paints, slotted angles, bolts, nuts and washers, Aluminum cable tags, sealing compound, country bricks, copper bus bars for armour earthing, brass screwdriver sand and other miscellaneous materials shall be supplied by the Contractor]. Note :-Termination/Working work should be done in accordance with the policy circulated by Rly Board vide Letter No.2023/Sig/17-SigEquip/Maintenance/Part							
33	NS	1000.00	Per Unit	117.52	117520.00	AT Par	117520.00	
	Description:- Termination of Main, Tail, Signalling and power cables and internal wiring on terminal/ fuse blocks in cable termination Rack at relay room. The work includes fixing of all cables by teakwood clamp on teakwood base plank, fixing of phenolic sheet/ladder for terminal board, varnishing all teakwood items, fixing of terminals/fuse blocks on the terminal board, drilling of necessary holes, termination of cables, wiring, identification of cables using aluminum tags with letters punched neatly, as per approved circuit diagram and cable plan, printing of particulars on sleeves. After terminations are over, cable entry at the bottom shall be closed with cement plastered, the inter-space filled with sand up to base level and the bottom surface shall be sealed with sealing compound. Cable armour to be soldered to earth. (Supply of cable termination racks, Terminals, Fuse blocks is not included in this schedule).[All bolts and nuts with washers, Phenolic laminated Sheet, grade P3 of size 10 mm Thick, cement, sand, stone jelly, copper bus bars for armour earthing, brass screw, Teak wood base/MS ladder, insulators, PVC/Nylon sleeves, CT Rack detail printed on vinyl/flex duly fixed on S.S. frame of size prescribed by engineer in charge, varnish, paints, Aluminum cable tags, sealing compound and all other miscellaneous materials required for the work shall be supplied by the contractor] Note :- Termination/Working work should be done in accordance with the policy circulated by Rly Board vide Letter No. 2023/Sig/17-SigEquip/Maintenance/Part dtd 06.11.2023 (as reproduced below) 1.Conductor/wire labeling: Function identification marker (Ferrules with printed letters / PVC sleeve with printed details of the cable core /Signaling function in Black with Yellow background) to be provided on each cable conductor., 2.Description details of Terminals : The Row of Screw less Disconnect Terminal / ARA Terminal shall be serially numbered as A, B, C,D from top and in each row, terminals shall also be serially numbered from left to right starting from 1., 3.The Centre to Centre Distance between two rows of screwless Disconnect Terminal / ARA Terminal shall be around 18cm to 20cm. After every cable terminated in a row, there should be a minimum gap equivalent to 1 ARA terminal or 02 spacers/ dummy Screw less Disconnect Terminals, 4.The Cables terminated on CT rack shall be identified by punched labels/ Cable Identification Tag tied on each end of the cable for correct identification., 5.Line wise and if necessary, function wise cables shall be provided as per Para 15.1.2.(c) of IRSEM, 6.Minimum clearance of bottom most terminal in CT rack shall be normally 300mm from ground, 7.CTRacks Particulars (i.e., Function wiring and termination details) may be made using Vinyl Printing or Flex Printing on 300 GSM PVC banner roll of suitable size framed or any other means and shall be fixed on wall or CT Rack moveable board through suitable metallic frame (CT Board) adjacent to CT rack. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after execution. {Measurement Unit: Per Unit= Per Terminal or Per Fuse Block}							
34	NS	1.00	Numbers	324198.35	324198.35	AT Par	324198.35	
	Description:- Supply, Transportation & Testing of VHF based secured communication equipment consisting of microcontroller based equipment with built in Voice/Data storage facilities. 25 W VHF radio with talking instrument, power supply (12V DC/15Amp) sealed maintenance free battery bank 12V/120AH, Omni directional stacked dipole antenna, 50 mtr length RG-217 cable, including portable programming and data backup terminal . Make -AE Tele link as per RDSO specification no. RDSO/SPN/TC/73/2008 with latest amendments.							
35	NS	1.00	Numbers	13175.80	13175.80	AT Par	13175.80	
	Description:- Supply of LASER Distance meter capable of measuring distance up to range 150 M with accuracy upto 10 mm, Make- BOSCH Model GLM 150 C or similar product from Fluke , Stanley, Dewalt etc. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after supply.							
	NS	10.00	Numbers	11849.04	118490.40	AT Par	118490.40	

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36	Description:- Supply and fixing of earth pipe in hard and rocky area. Provision (SITC) of earthing protection arrangement rocky area by using boring machine/ vibrator machine drilling 06" dia hole 03 meter deep) as advised by the site in charge of Railway including supply of earth GI pipe /earth plate. Earth connection will be done by MS flat of size 40x05mm. All the material like charcoal, salt, nuts, bolts etc. to be supplied by the contractor and provision of earthing from earth electrode to relay room, A/cases, signal unit, station, LC gate pedestal, battery racks, relay racks CTR, various S&T equipments, power panel, control panel, cable earth, block earth, control earth, signal screen etc. as the case may be including fixing and soldering of copper lugs at both end of the wire as well as ensuring that earth resistance value is within prescribed limits. This includes transportation of material, painting, Lettering etc. Consignee Inspection. Payment terms mentioned as per in Original CA.						
37	NS	2.00	Set	20814.91	41629.82	AT Par	41629.82
	Description:- Supply of Electric Track drilling machine consisting of heavy duty drill machine capable to work on 110 V AC, 50 HZ supply, capacity up to 22mm metal drilling, with suitable mounting bracket/stand. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after supply.						
38	NS	500.00	Metre	395.10	197550.00	AT Par	197550.00
	Description:- High density polyethylene pipes(HDPE) of 110mm outer Dia,10mm wall thickness along with one coupler for every 6 meters as per specification no IS 4984:2016 with latest amendments (Inspection: RITES)						
39	NS	100.00	Numbers	4956.00	495600.00	AT Par	495600.00
	Description:- Relay AC Immune Plug in type style QNNA1 DC Twin DC Neutral line relay 24-volt 6F/2B for LH and RH front and back contact metal to carbon complete with plug board retaining clip and connector confirming to BRS 960A, IRS:S@58"44@ S:60 and IRS S-23. the interlocking pin code CDEHX						
40	NS	100.00	Numbers	4956.00	495600.00	AT Par	495600.00
	Description:- Relay AC Immune Plug in type style QNNA1 DC Twin DC Neutral line relay 24-volt 4F/4B for LH and RH front and back contact metal to carbon complete with plug board retaining clip and connector confirming to BRS 960A, IRS:S@58"44@ S:60 and IRS S-23. the interlocking pin code ACDHJ						
41	NS	1.00	Numbers	612678.35	612678.35	AT Par	612678.35
	Description:- Design, Fabrication & Supply of rack mountable modular intelligent service IP MPLS aggregator router with minimum switching speed of 160 Gbps, unit to support L2VPN, L3 VPN, MPLS-TE, unit to be capable to support 8x10Gbe, 48x1Gbe, 64xE1 ,12XSTM 1 ports or 2x8 port WD support multiple routing functions such as OSPF, ISIS, BGP & MP-BGP and support LDP and RSVP - TE to dynamically establish MPLS tunnels & PW service. It should support dual main control card redundancy design supporting 1:1 hot back 7 up. The router should have console and SNMP interface, FAN Module, Redundant control card modules and Redundant 48V DC power supply modules including connection cable and fixing accessories etc. The Router should have required interface slots to accommodate 8x10Gbe interface modules from day one. The router should support all the software features, environmental standards and security features as mentioned in RDSO technical document no STT/TAN/IP-MPLS/2020 Ver1.0 or latest for the LSR Router. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
42	NS	1.00	Numbers	18975.15	18975.15	AT Par	18975.15
	Description:- Installation of IP MPLS Router and switches, with power distribution panel and all accessories in the Rack (19" 42 U), DDF, Aluminum runway ladder, patch cord etc and their testing and commissioning. This includes termination of all E1's on DDF, connection of pigtails, optical patch cords and 48 V bus to the IPMPLS equipment including supply of wires and connectors. It also includes proper mounting of rack, provision of Aluminum runway ladder, casing and capping and conduit pipe as per requirement at each station, other materials from stores supplied by Railways for installation. (Conduit pipe/ casing and capping, aluminum runway ladder and all other miscellaneous materials should be supplied by the contractor). Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after installation.						
43	NS	1.00	Numbers	95585.58	95585.58	AT Par	95585.58
	Description:- Supply and installation of 16 port E1 Card along with Patch panel/Krone Module and wiring for Routers with all accessories etc. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 80% after supply & 20% after execution						
44	NS	2.00	Numbers	23316.92	46633.84	AT Par	46633.84
	Description:- Supply of 4 port x10G SFP (optical) module card suitable for the IP MPLS router. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply						
	NS	2.00	Numbers	24709.08	49418.15	AT Par	49418.15

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45	Description:- Supply 8 port x 1Gbe (4 no. of optical port and 4 no electrical port) module card suitable for IP MPLS Router. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply.						
46	NS	1.00	Numbers	132447.45	132447.45	AT Par	132447.45
	Description:- Integration, testing and final commissioning of all IP-MPLS equipments, switches etc. at each station for all the equipment confirming with the approve system design including end to end testing for realization of optical fiber system. This also includes supply of all AS made documents for the entire section (six copy) plus technical, maintenance and installation manual for IPMPLS (LER & LSR), NMS, Switches, Charger and Power Supply Unit. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after commissioning.						
47	NS	10.00	Numbers	9043.53	90435.30	AT Par	90435.30
	Description:- Supply of SFP (1310nm) 1.25 GBPS as pe the site requirement for electrical 10/100/1000 MBPS support as per site condition. Inspection: (i) RDSO/RITES: if value of item in work more than 5 lakhs (ii) Consignee: subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant policy Inspection charges: (i) Borne by Railways (ii) None Payment Terms: 100% after supply						
48	NS	1.00	Set	17415.60	17415.60	AT Par	17415.60
	Description:- Supply of 53 Piece Telecommunication Tool Set consists of (1) 1Pc Standard Digital Multi Meter. (2) 4Pc Phillips Screwdrivers: #1x75, #1x150, #2x45, #2x100 mm. (3) 4Pc Slotted Screwdrivers: 3x75mm, 3X150, 6.5x45, 6.5x100 mm. (4) 1Pc Tape - 3m. 1Pc Utility Knife. (5) 1Pc Diagonal Pliers 6". (6) 1Pc Linesman Pliers 8". (7) 1Pc Mini hacksaw. (8) 1Pc Adjustable Wrench 10". (9) 1Pc Wire Stripper 9". (10) 10Pc Hex Key set 1.5, 2, 2.5, 3, 4, 5, 5.5, 6, 8, 10 min. (11) 1Pc Spinner Handle. (12) 1Pc 1/4" Drive Adapter. (13) 13Pc 1/4" Drive 6 Point Sockets : 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14mm. (14) 6Pc Precision Screwdriver Set OPT, 1PT, 1.4PT, 1.8mm, 2.3mm, 3.0mm. (15) 1Pc Soldering iron. (16) 1Pc Solder. (17) 1Pc Disordering Pump. (18) 1Pc Digital Tester. (19) 1Pc Tweezers. (20) 1Pc Blow Mould Case. Make & model Stanley STHT89883-812 or similar. Inspection: Consignee, Inspection Charges: None, Payment Terms:100% after supply.						
49	NS	2.00	Lot	9323.55	18647.10	AT Par	18647.10
	Description:- Supply of CAT-6 500 MHz STP cable roll of 305 meter length/roll/bundle, compliant with latest EIA/TIA-568-B-2-1 standard. Make Cabernet/DC6C/AUTP3X/Dig link or similar. Inspection: Consignee Inspection Charges: Nil Payment Terms: 100% after supply.						

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 Tender Document	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document (Similar Nature of Work)	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.

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5	I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us.
6	I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us.
7	I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust.
8	I/we understand that if the contents of the certificate submitted by us are found to be forged/false at any time during process for evaluation of tenders, it shall lead to forfeiture of the Bid Security and may also lead to any other action provided in the contract including banning of business for a period of upto two year. Further, I/we and all my/our constituents understand that my/our offer shall be summarily rejected.
9	I/we also understand that if the contents of the certificate submitted by us are found to be false/forged at any time after the award of the contract, it will lead to termination of the contract, along with forfeiture of Bid Security/Security Deposit and Performance guarantee and may also lead to any other action provided in the contract including banning of business for a period of upto two year.
10	I/We have read the clause regarding restriction on procurement from a bidder of a country which shares a land border with India and certify that I am/We are not from such a country or, if from such a country, have been registered with the competent Authority. I/We hereby certify that I/we fulfil all the requirements in this regard and am/are eligible to be considered (evidence of valid registration by the competent authority is enclosed)

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

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

5. COMPLIANCE

Commercial-Compliance

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

6. Documents attached with tender

S.No.	Document Name	Document Description
1	SNT-GSU-JU-2026-27-02MANKLAV.pdf	Tender Document
2	GCC-2022-ACS10_merged1_compressed.pdf	GCC 2022
3	GCCACS11_compressed.pdf	GCC 2022 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: RAVINDRA PAL SINGH

Designation : Dy.CSTE/GSU/JU