

**DYCSTE-C-I-LKO-S AND T/NORTHERN RLY
TENDER DOCUMENT**

Tender No: 287-SigC-I-LKO-T-01-26

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

DycSTE-C-I-LKO acting for and on behalf of The President of India invites E-Tenders against Tender No **287-SigC-I-LKO-T-01-26** 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 | Provision of Indoor and Outdoor signalling work in connection with IBS at 05 Locations between BDKN-SLN, SLN-PKX, MBDP-PHV, RBL-RUM & RBL-GANG section, addition & alteration in existing Electronic Interlocking system at Sultanpur, Pakhrauli, Maa Belha Devi Dham Pratapgarh, Prithviganj, Rae-Bareli, Rupamau and Gangaganj stations and indoor signalling works at Bandhukalan station of Lucknow Division | | |
| Bidding type | Normal Tender | | |
| Tender Type | Open | Bidding System | Two Packet System |
| Tender Closing Date Time | 07/07/2026 15:00 | Date Time Of Uploading Tender | 15/06/2026 16:12 |
| Pre-Bid Conference Required | No | Pre-Bid Conference Date Time | Not Applicable |
| Advertised Value | 160096311.86 | Tendering Section | WORKS |
| Bidding Style | Single Rate for Tender | Bidding Unit | Above/Below/Par |
| Earnest Money (Rs.) | 3201900.00 | Validity of Offer (Days) | 90 |
| 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-All Items | | | | | | | 160096311.86 | |
| 1 | 1 | 3.00 | Job | 5493305.74 | 16479917.22 | AT Par | 16479917.22 | |
| | Description:- Installation, wiring, programming, testing & commissioning i.c.w., Modification/alteration/augmentation in the existing EI system of Hot stand by Arc as per RDSO/SPN/192/2019 as per approved signalling plan with required materials/cards of EI with contractor own in connection with Provision of IBS in SLN-BDKN, SLN-PKX, MBDP-PHV, RBL-RUM and RBL-GANG section. All materials (Cards, wiring materials, communication equipments, Relays, connectors etc..) if required for modification/Alteration/Augmentation must be supplied by the contractor & all activities (Designing, FAT, OEM Certificate, Drawing, Alteration in VDU & Panels etc..) required for modification/Alteration/Augmentation must be carried out by the contractor. This also includes supplies necessary for earthing the modified/Altered/ Augmented EI those needed for re-wiring external data-logger & Fuse Alarm system etc. Item also includes preparation of Selection Table, Locking Table, Control Panel and Route Section Plan, Wiring Diagram and other Diagrams (other technical documents if any) based on Signalling Plan supplied by Railways. Completion Documents as per special condition of contract. Note: 1. Jobs may be executed as per site condition nearly prior to commissioning. 2. These includes all hard copies of documents for each trainee which can be referred after training. Station: Sultanpur, Maa Belha Devi Dham Pratapgarh & Rae-Bareli Station. | | | | | | | |
| | 2 | 4.00 | Job | 4786279.41 | 19145117.64 | AT Par | 19145117.64 | |
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|----|--|--------|-----------|----------|-----------|--------|-----------|
| 2 | Description:- Installation, wiring, programming, testing & commissioning i.c.w., Modification/alteration/augmentation in the existing EI system of Hot stand by Arc as per RDSO/SPN/192/2019 as per approved signalling plan with required materials/cards of EI with contractor own in connection with provision of IBS in SLN-BDKN, SLN-PKX, MBDP-PHV, RBL-RUM and RBL-GANG section. All materials (Cards, wiring materials, communication equipments, Relays, connectors etc.) if required for modification/Alteration/Augmentation must be supplied by the contractor & all activities (Designing, FAT, OEM Certificate, Drawing, Alteration in VDU & Panels etc.) required for modification/Alteration/Augmentation must be carried out by the contractor. This also includes supplies necessary for earthing the modified/Altered/ Augmented EI those needed for re-wiring external data-logger & Fuse Alarm system etc. Item also includes preparation of Selection Table, Locking Table, Control Panel and Route Section Plan, Wiring Diagram and other Diagrams (other technical documents if any) based on Signalling Plan supplied by Railways. Completion Documents as per special condition of contract. Note: 1. Jobs may be executed as per site condition nearly prior to commissioning. 2. These includes all hard copies of documents for each trainee which can be referred after training. Station: Pakhrauli, Prithviganj, Rupamau & Gangaganj Stations. | | | | | | |
| 3 | 3 | 10.00 | Per Route | 4214.52 | 42145.20 | AT Par | 42145.20 |
| | Description:- Design of the PI/EI/IBS system complete including selection table, Logic/interface circuit diagram, contact analysis chart, CT/Relay rack chart etc., preparation of Panel/VDU layout diagram, (circuit shall be designed by the contractor with the use of Q series relays) on the basis of approved signal Interlocking plan and obtaining approval of Competent Authority. The VDU layout diagram, may have addition & alteration to an extent of 5% variation, designing should be as per Railway specifications and as per latest rules prescribed by Rly. Drafting & supply of document shall be as per following details: (i) Supply of 6 copies of complete set of superior quality paper including one set laminated, properly bound in file with cushioned cover. (ii) Software backup of complete set in the form of CD (2 Nos.). (iii) One complete set of tracings. (iv) Design through CAD. (v) Drawings in A-3 size & plan in bigger size papers. (six sets) | | | | | | |
| 4 | 4 | 1.00 | Station | 8505.63 | 8505.63 | AT Par | 8505.63 |
| | Description:- Circuit alterations at adjacent station/cabins at either side of IBS for commissioning of IBS, Resistance, condenser, soldering material etc., to be arranged by the contractor. (For Bandhu Kalan station) | | | | | | |
| 5 | 5 | 192.00 | Numbers | 1071.19 | 205668.48 | AT Par | 205668.48 |
| | Description:- Supply of domino unit with cover plate as per approved panel diagram each size of 54x34mm complete wired up each domino unit should have all the 15-contact terminal wired up. Inspection: Consignee. | | | | | | |
| 6 | 6 | 20.00 | Numbers | 44.50 | 890.00 | AT Par | 890.00 |
| | Description:- Supply of panel indication LED Red, Green, Yellow, Clear etc. Inspection: Consignee. | | | | | | |
| 7 | 7 | 2.00 | Numbers | 1342.16 | 2684.32 | AT Par | 2684.32 |
| | Description:- Supply of Veeder Counter for panel 24 V DC, 23.3mA. Inspection: Consignee. | | | | | | |
| 8 | 8 | 1.00 | Numbers | 17290.08 | 17290.08 | AT Par | 17290.08 |
| | Description:- Design fabrication, supply, fixing & wiring of Block indication panel made of 16 SWG powder coated MS sheet of size 39cmx24cmx15cm appx. Consisting of buzzer, counter & different color LED with holder suitable to work on 24-18-volt dc, supply of push button of standard makes approved by site incharge. Indication on the panel & all description on front panel should screen printed. The indication on the front face of the panel will be based on site condition which will be advised by site incharge, which has to confirm before carrying out the work of screen painting. All materials to be supplied by contractor. | | | | | | |
| 9 | 9 | 220.00 | Numbers | 2936.92 | 646122.40 | AT Par | 646122.40 |
| | Description:- Supply of Relay, Non-AC immune, plug in type, style QN1, DC neutral line relay, 24 V DC 8F/8B contacts, front & back contacts metal to carbon with plug board retaining clip & connectors confirming to BRS:931A, IRS:S-45/47/44, IRS:S-45/47/68 & IRS:S-23/88 as applicable. The interlocking code for this unit shall be ABCDF or latest. Inspection: RDSO. | | | | | | |
| 10 | 10 | 290.00 | Numbers | 2986.94 | 866212.60 | AT Par | 866212.60 |
| | Description:- Supply of Relay AC immune, plug in type, style QNA1, DC neutral line relay, 24 V DC 8F/8B contacts, front & back contacts metal to carbon with plug board retaining clip & connectors confirming to BRS:931A, IRS:S-45/47/44, IRS:S-45/47/68 & IRS:S-23/88 as applicable. The interlocking code for this unit shall be ABDGH or latest. Inspection: RDSO. | | | | | | |
| 11 | 11 | 20.00 | Numbers | 19005.32 | 380106.40 | AT Par | 380106.40 |
| | Description:- Fabrication, supply and fixing of relay racks of size 2200mmx690mm (as per approved Drg. No. NR/S&T/CON/4.3/97A) made of angle iron size 45mmx45mmx6mm alongwith outer frame made of angle iron size 65mmx65mmx8mm, fitted with M.S. squares bars duly galvanized, descriptions strips to accommodate Plug-in-type relays/groups/Point contractor units/ECRs/HMUs. All fixing material like antilting device, hylam sheets if required, bolts & nuts, washers, insulators, shoe, angle irons, flats, L-bolts, Catenary wires and cement concrete etc. will be supplied by the contractor. This includes cleaning, priming by red oxide, painting & description etc. with ISI mark paints. | | | | | | |
| | 12 | 20.00 | Numbers | 21375.16 | 427503.20 | AT Par | 427503.20 |

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| 12 | Description:- Fabrication, supply and fixing of cable termination board of size 2200mmx900mm as per Drg. No. NR/S&T/CON/4.1/97A made of angel iron size 40mmx40mmx5mm along with outer frame made of angle iron size 65mmx65mmx8mm duly fitted with Bakelite sheet (HYLAM MAKE or similar) of size 6mm thick. This also includes fixing of ARA terminals/strips/Wago connectors & fuse bases etc. Supply and fixing of hard wood of size 70cmx25cmx4cm in the back at bottom for jamming of armour of cables, each cable in the hole drilled separately for each cable through the salwood plank and all cable entry points on location boxes, location huts, JB's relay room/battery room to be closed with suitable masonry Works covered with sand and plastering. All the fixing materials like bolts, nuts, washers, Insulators, shoe, angle irons, flats, L- bolts, Catenary wires & cement concretes etc. will be supplied by the contractor. This includes cleaning, priming by red oxide, painting & description etc. with ISI mark paints. | | | | | | |
| 13 | 13 | 250.00 | Metre | 514.90 | 128725.00 | AT Par | 128725.00 |
| | Description:- Fabrication, supply and fixing of scaffolding /cable carrier made of angle iron of Size 35mmX35mmX5mm and flat of size 25mmX3mm as per instructions of engineer at site. The space between two flats will be 25cm or less as per site requirements all the fixing materials i.e., nut, bolt washer, insulators, cement concrete etc., will be supplied by the contractor. This includes insulating flat strips, cleaning priming by Red oxide, painting by ISI mark paint. | | | | | | |
| 14 | 14 | 15.00 | Kilometre | 8974.61 | 134619.15 | AT Par | 134619.15 |
| | Description:- Supply of Flexible, PVC sheathed, PVC insulated Copper wire 16/.20 sq.mm. (wiring materials) as per IRS spec. No. IRS-76/89 with amendment no.3 or latest. (From RDSO Approved Source only). Inspection: RDSO. | | | | | | |
| 15 | 15 | 1.00 | Kilometre | 473470.89 | 473470.89 | AT Par | 473470.89 |
| | Description:- Supply of Indoor cable 60x1mm indoor copper conductor 60 core plain annealed high conductivity PVC insulated unarmored as per Spec. no. IRS-S/76/89 (Amd 3) or latest amendment. (From RDSO Approved Source only). Inspection: RDSO. | | | | | | |
| 16 | 16 | 300.00 | Numbers | 490.56 | 147168.00 | AT Par | 147168.00 |
| | Description:- Wiring of relays in relay room/relay huts as per approved wiring diagrams. All wiring material including resistances and condensers etc. except cables/wires to be supplied by contractor (Supply of cables & wires covered separately). It also includes dressing, bunching, lacing and fixing of relay bases. | | | | | | |
| 17 | 17 | 180.00 | Numbers | 203.98 | 36716.40 | AT Par | 36716.40 |
| | Description:- Supply of electric fuse complete with fuse block(base) for Railway signalling non-deteriorating type low voltage fuse assembly 2Amp/4Amp/16Amp. to suit. Specn. No.IRS: S-78/2006 and fuse block made of PBT/Polycarbonate as per IRS: S-75/2006 (Rev.2 & Amd.2) and drg no. 23748 (IRS), Alt-4 or latest. Fuse block shall be suitable for round head type fuses. Inspection: RDSO. | | | | | | |
| 18 | 18 | 6.00 | Job | 163636.30 | 981817.80 | AT Par | 981817.80 |
| | Description:- Supply, installation & wiring of Earth leakage detector (12 Channel) for monitoring different AC and DC, supplies including all accessories as per RDSO specification no.RDSO/SPN/256/2002 or latest and stipulations of tender document. Inspection: RDSO for supply portion. | | | | | | |
| 19 | 19 | 4.00 | Numbers | 8238.47 | 32953.88 | AT Par | 32953.88 |
| | Description:- Supply of Portable digital auto range multi-meter clamp type Philips, Motwani, Fluke or Rishabh make capable to measure from (0.1mv/0.01ma) AC/DC up to 50 Amp (AC/DC), 600V(AC/DC) and 0.1 ohms- 40M ohms suitable for measurement of Freq., capacitance complete with Manual, leads, battery and holster etc. Inspection: Consignee. | | | | | | |
| 20 | 20 | 3.00 | Set | 52923.97 | 158771.91 | AT Par | 158771.91 |
| | Description:- Supply of tool kit for JE/SE/SSE for Maintenance as per tech spec. given below: (1) Digital Multi Meter suitable for axle counter ranges 20 Amp AC/DC make protek 506 or similar- 1 no. (2) Digital clamp Multi Meter range up to 100 Amps for AC/DC current make SEW or similar - 1 no. (3) Leather Tool Bag for keeping tool kit -1 no. (4) Plier Sealing with sealing code bit -1 no. (5) Plier Wire Cutting 8" make Tapania or similar -1 no. (6) Nose Plier 4" make Tapania or similar -1 no. (7) Wire Stripper - 1 no. (8) Screwdriver set multi-port type -1 set (9) Track shunt resistance: 5-ohm -1 no. (10) Soldering Iron 230V AC/65 watt -1 no. (11) Soldering Iron 230V AC/35 watt with different type replacement soldering head - 1 no. (12) Soldering Iron 110V AC/35-watt -1 no. (13) Measuring Tape steel 30 meters - 1 no. (14) Measuring Tape steel 3 meters - 1 no. (15) Rechargeable Torch Superior quality -1 no. (16) File Flat 8" long - 2 nos. (17) File Round smooth 8" long - 2 nos. (18) File Flat Bestirred 8" long - 2 nos. (19) Electric Drill Machine Portable 6mm make wolf or similar -1 no. (Inspection: Consignee) | | | | | | |
| 21 | 21 | 14.00 | Numbers | 41951.64 | 587322.96 | AT Par | 587322.96 |
| 21 | | | | | | | |

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| 22 | 22 | 21000.00 | Numbers | 118.08 | 2479680.00 | AT Par | 2479680.00 | |
| | Description:- Supply fixing and wiring of Fuse Auto Changeover System (FACS main system) as per RDSO/SPN/209/2012 Rev. 2.0 with latest amendments. One automatic changeover unit comprise 32 nos of external Non-Deteriorating Type or 'G' type fuses of various Ampere Rating, working voltage-24 VDC which are in signalling circuits. System shall have 8 cards with monitoring arrangement of 4 fuses in one card. Installation, wiring, Testing and commissioning of Fuse Alarm System, it consists of fixing of modules of fuse alarm system on existing relay rack, wiring from existing fuses to modules, soldering, lacing etc. working to be executed without affecting the functioning of the existing Circuits/Gears and the work shall be supplied by the contractor. Inspection: RDSO for supply portion. | | | | | | | |
| 23 | 23 | 420.00 | Metre | 151.72 | 63722.40 | AT Par | 63722.40 | |
| | Description:- Supply of 4 conductor dis-connect terminal block for test and measurement 0.8 sq.mm-2.5 sq.mm center marking with test slot for test plug 2mm/0.079IN and 2.3mm/0.091IN carrier rail DIN 35 front entry cage clamp connection Grey wago or similar as RDSO/SPN/189/2004 Rev. 3.0 or latest. Inspection: RDSO. | | | | | | | |
| 24 | 24 | 4200.00 | Numbers | 18.90 | 79380.00 | AT Par | 79380.00 | |
| | Description:- Supply of End and Intermediate Plate 2.5mm/0.098 in Thick Wago or similar as per RDSO/SPN/189/2004 Rev. 3.0 or latest. Inspection: Consignee. | | | | | | | |
| 25 | 25 | 4200.00 | Numbers | 16.59 | 69678.00 | AT Par | 69678.00 | |
| | Description:- Supply of screw less end stop 10mm/0.394 in wide carrier rail DIN 35 Grey Wago or similar as per RDSO/SPN/189/2004 Rev. 3.0 or latest. Inspection: Consignee. | | | | | | | |
| 26 | 26 | 7.00 | Numbers | 6133.94 | 42937.58 | AT Par | 42937.58 | |
| | Description:- Fabrication, wiring and supply of simulation panel as per drawing no. SSTE/PS/1562 dt.05.09.2001. This includes wiring from Relay room to the simulation panel. ARA terminals and fuse bases shall be supplied by Railway. All materials such as on/off/2way switches, wires, strips & tag blocks etc. to be supplied by the contractor. (Only indoor cables for wiring between relay room and simulation panel shall be supplied by Railways). | | | | | | | |
| 27 | 27 | 6.00 | Numbers | 10338.86 | 62033.16 | AT Par | 62033.16 | |
| | Description:- Fabrication, wiring and supply of lamp board as per drawing no. SSTE/PS/1563 dt.05.09.2001. This includes wiring from Relay room to the lamp board. All materials such as wires, strips, tag blocks, lamps & holders etc. including sufficient lamps for testing to be supplied by the contractor. (Only cables for wiring between relay room and lamp board shall be supplied by Railways). | | | | | | | |
| 28 | 28 | 5.00 | Numbers | 461138.99 | 2305694.95 | AT Par | 2305694.95 | |
| | Description:- Supply, installation, testing, networking & commissioning of Data Logger with 512 Digital and 32 Analog inputs as per RDSO Spec IRS-S-99/2006, Amd.3 with latest amendments complete along with accessories with contractors own wiring & fixing material. This also includes Protocol converter & PC (HP S01-AD0104IN or equivalent) along with B & W A-4 size laser printer. The requisite communication Cable/Channel for networking will be arranged by Railway. Inspection: RDSO for supply portion. | | | | | | | |
| 29 | 29 | 6.00 | Numbers | 58865.66 | 353193.96 | AT Par | 353193.96 | |
| | Description:- Installation, wiring and testing of Integrated Power Supply System. This includes power distribution connection to bus bar and relay racks in the room and fabrication and fixing of AC/DC power distribution board made on 10mm thick Phenolic laminated sheets or any standard make with connections suitable for 32 Amp. as per site requirement. Wiring to be done with flexible cable, single core multi strand 6 sq. mm as per spec-IRS-76/89 with latest amendment from AC distribution board to Integrated Power Supply system. Wiring to be done with Flexible Cable, Single core, multi strand 10sq mm. as per spec IRS 76/89 with latest amendment from integrated power supply system to D.C. bus bar. All connections as per site requirement to be arranged by contractor as per RDSO guidelines and instruction of railway engineer at site. This item includes fixing of ladder along the wall for carrying of power supply wires/cables from IPS room to relay room/ power room / Battery room etc. | | | | | | | |
| 30 | 30 | 5.00 | Kilometre | 61032.04 | 305160.20 | AT Par | 305160.20 | |
| | Description:- Supply of power wires 1x6sq.mm. (Red & black), IS 694/2010 or latest. Inspection: RDSO. | | | | | | | |
| 31 | 31 | 5.00 | Kilometre | 166627.59 | 833137.95 | AT Par | 833137.95 | |
| | Description:- Supply of power wires 1x16sq.mm. (Red & black), IS 694/2010 or latest. Inspection: RDSO | | | | | | | |
| 32 | 32 | 3.00 | Kilometre | 275439.01 | 826317.03 | AT Par | 826317.03 | |
| | Description:- Supply of power wires 1x25sq.mm. (Red & black), IS 694/2010 or latest. Inspection: RDSO. | | | | | | | |
| 33 | 33 | 12.00 | Numbers | 5840.24 | 70082.88 | AT Par | 70082.88 | |
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|----|----|------------|--|-----------|-------------|--------|-------------|
| | | | Description:- Supply of 3 phase Manual changeover switch 63Amps/100Amps. Siemens/ Havells or similar Iron Clad switch. Inspection: Consignee. | | | | |
| 34 | 34 | 20.00 | Numbers | 34694.00 | 693880.00 | AT Par | 693880.00 |
| | | | Description:- Modification in wiring of already procured IPSs for provision of line wise pop-up supplies to the SSDACs in compliance to Railway board's Policy guidelines. | | | | |
| 35 | 35 | 20.00 | Numbers | 41890.96 | 837819.20 | AT Par | 837819.20 |
| | | | Description:- Supply of 24-32V/10Amp modules of DC-DC converters made of IPS. Inspection: RDSO. | | | | |
| 36 | 36 | 5.00 | Station | 48544.04 | 242720.20 | AT Par | 242720.20 |
| | | | Description:- Preparation of cable route plan, Cable core chart, Power supply arrangement plan for indoor and outdoor, Cable termination chart in relay room and location boxes, Location wiring plan, Cable insulation chart and register, Track circuit history card, Fuse analysis plan, Equipment disposition plan, Track circuit jumpering plan, Terminal and Contact analysis chart, Outdoor circuits, pull sheets, gomettie plans, diagrams. temp. plans required for execution of IB Signalling work of SLN-BDKN, SLN-PKX, MBDP-PHV, RBL-RUM and RBL-GANG section and other outdoor diagram and obtaining approval of the Engineer as per following: - (i) Supply of 6 copies of completion set of superior quality paper, laminated, properly bound in steel clip jaw file with cushioned cover. (ii) Software back up of complete set in the form of CDs. (iii) One complete set of tracings. (iv) Design through CAD. (v) Drawings in A3 & plans in bigger size. (six sets). | | | | |
| 37 | 37 | 178000.00 | Metre | 83.20 | 14809600.00 | AT Par | 14809600.00 |
| | | | Description:- Excavating and refilling of trench in Normal Soil to the level of ground with rammed earth as per drg. No.NR/S&T/CON./1.1/97A so as not to form a drain 0.3 mtrs. wide & 1 mtr. deep on both side of the station alongside the track. It shall conform to the safe distance as per signalling and cable plan. It also includes clearance of roots of trees & bushes. | | | | |
| 38 | 38 | 1424000.00 | Numbers | 8.79 | 12516960.00 | AT Par | 12516960.00 |
| | | | Description:- Supply and laying of 2nd class bricks in the trench and laying as per Drg. No. (NR/S&T/Con./1.1/97A) and as per instruction of the site Engineer. | | | | |
| 39 | 39 | 2730.00 | Numbers | 1442.54 | 3938134.20 | AT Par | 3938134.20 |
| | | | Description:- Fabrication, supply and fixing of concrete cable marker as per RDSO drg. No. SDO/Cable Laying/020, dt.31.10.11. The marker shall be fixed at various places of cable route as per instruction of Eng. at site. | | | | |
| 40 | 40 | 2730.00 | Numbers | 2962.38 | 8087297.40 | AT Par | 8087297.40 |
| | | | Description:- Supply and installation of RFID Electronic Marker for S&T underground cable with programmable memory chip, later recordable by electronic marker locator during locating (10 cm diameter with floating coil to keep detection circuit always Horizontal for better detection) which can be buried to depth of 5 ft. Placing in trench. Inspection by RITES for supply portion. | | | | |
| 41 | 41 | 3.00 | Numbers | 533597.26 | 1600791.78 | AT Par | 1600791.78 |
| | | | Description:- Supply of 3M/ or similar make integrated Dynatel Electronic Cable/Pipe/Route Tracer /Locator (with inbuilt marker locator) high power 12 w transmitter for effective long distance locating, 6 active locating frequencies (577 Hz, 1 KHz, 8kHz, 33 kHz, 82 kHz, 200 kHz), depth range up to 9 meter, passive power frequency, Current and resistance measurement in both transmitter and receiver, super induction mode, with capability of Electronic marker locating (both passive and RFID) and cable route locating in a single equipment, receiver with Bluetooth wireless technology, GPS interface (internal, 3m) allows software to be downloaded from website, weight less than 2.5 Kgs for Transmitter as well as receiver, Signal current measurement in cable, (Model No. 2550XID). Inspection by RITES. | | | | |
| 42 | 42 | 50.00 | Metre | 117.49 | 5874.50 | AT Par | 5874.50 |
| | | | Description:- Excavation and refilling of trench 0.3 mtrs wide and 0.8 mtrs deep on pitched/stone/bricks paved surface, road/crossing/platform etc., and restoring the surface to its original condition. | | | | |
| 43 | 43 | 660.00 | Metre | 510.03 | 336619.80 | AT Par | 336619.80 |
| | | | Description:- Supply & installation of HDPE double Wall Corrugated (DWC) Pipe as per as per RDSO Specification No. RDSO/SPN/204/2011 Ver. 1.1 With Amndt-1 (Outer dia 120mm in 6m st. length with one coupler for every 6m length). This includes brick work and other arrangements required to secure the pipe as per specifications, drawings and stipulations of tender documents and as per approved cable route plan including road crossing/platform/track crossing and for bridges and culverts etc. Inspection: Consignee for supply portion. | | | | |
| 44 | 44 | 883.39 | Metre | 660.00 | 583037.40 | AT Par | 583037.40 |
| | | | Description:- Supply and fixing of G.I. pipe 75mm dia, 3mm thick as per spec no IS-1239, perforated at a distance of 20 CM or less of required length at culverts/ bridges/along the cuttings, suitably concreted at both ends as per approved drg. No.Drg. No.NR/S&T/CON/1-4/97.or at ASM office/other buildings suitably fixing it to the wall and at both ends. G.I. clamps of M.S. flats bolts and nut, to be supplied by the contractor. Inspection: RITES for supply portion. | | | | |
| | 45 | 1200.00 | Metre | 998.99 | 1198788.00 | AT Par | 1198788.00 |

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|----|--|-----------|---------|----------|------------|--------|------------|
| 45 | Description:- HDD Boring & Trenchless of 120mm diameter without HDPE pipe for laying of signalling / telecom /power cable under track/road/culvert etc., cable laying is covered separately. | | | | | | |
| 46 | 46 | 1800.00 | Metre | 2078.50 | 3741300.00 | AT Par | 3741300.00 |
| | Description:- All work of horizontal boring and trenchless cabling along with supply,transpotation and insertion of double wall corrugated pipe -(ISI marked) conforming to RDSO Spec no. RDSO/SPN/204/2011 or latest, and the laying of cable in the boring under the track / road etc as per instruction of site engg. by using pipe of size 120 mm outer dia, 103.5 mm inner dia in which required number of cables to be crossed. The depth of horizontal boring should be minimum 1.0 mtr. from rail flange/road level. Inspection: RITES for supply portion. | | | | | | |
| 47 | 47 | 250000.00 | Metre | 9.46 | 2365000.00 | AT Par | 2365000.00 |
| | Description:- Laying of signalling/Telecom/power cables of different sizes as per approved Drg. No. NR/S&T/CON/1-1/97C and as per cable route plan approved by Railways and meggering of cable before and after its laying of all type of outdoor cables. | | | | | | |
| 48 | 48 | 21000.00 | CORE | 15.51 | 325710.00 | AT Par | 325710.00 |
| | Description:- Testing & meggering of all types of outdoor cables after its laying and termination on both ends under supervision of Railway representative. This also includes preparation of test report for core to core and core to earth on prescribed proforma for each core of the cable separately after termination of cable. This also includes dressing & lacing of cable on both ends. Performa for testing & material for lacing to be supplied by the contractor. | | | | | | |
| 49 | 49 | 140.00 | Numbers | 6588.35 | 922369.00 | AT Par | 922369.00 |
| | Description:- Casting, concreting and curing of foundation and erection of apparatus case single as per Drg. No.NR/S&T/Con./2.7/97. A layer of 3mm of Bitumin compound has to be provided between foundation and location box to prevent ingress of water in the base of location box. All material such as cement, sand, aggregate & anchor bolts shall be supplied by the contractor. Contractor is required to execute all type of repair work of foundation if required during inserting the cable for termination. | | | | | | |
| 50 | 50 | 140.00 | Numbers | 24933.41 | 3490677.40 | AT Par | 3490677.40 |
| | Description:- Supply of single apparatus case steel RE with 'E' type locks and key ward No 42 & handle as per Drg No. RE/S&T/ALD/SK/219/82 & 221/82 with Alt.B. Inspection: RITES. | | | | | | |
| 51 | 51 | 80.00 | Numbers | 6819.62 | 545569.60 | AT Par | 545569.60 |
| | Description:- Preparation of App. Case single involving wiring of relays: Preparation & fixing of Bakelite hylum sheet 910x800x6mm and Bakelite shelf 900x450x25mm duly fixed by angle iron piece of different size inside all the app. Cases. Hylum board shall be fixed on an angle iron frame of 25mmx25mmx3mm. Angle iron frame will be fixed in location boxes secured by nuts and bolts. This includes fixing of fuses, ARA terminal, Q series relays and other type relays on square bars fixing and jamming of cables with 2-inch thick salwood plank provided at the bottom. This will include opening, pasting and jamming armour of each cable in the hole drilled separately for each cable through the salwood plank and all cable entry points on location boxes, location huts, JB's relay room/battery room to be closed with suitable masonry Works covered with sand and plastering. Wiring description for terminal drawing of circuits, inside app. Case. Painting from outside as well inside with red oxide and aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engineer at site. All materials including Bakelite shelf, hylum board, salwood plank, wire and wiring material, non-deteriorating type HRC fuses with bases, catenary wires, nuts and bolts and other items shall be supplied by the contractor and shall be as per the RDSO specn.(as applicable). Relays, ARA terminals only shall be supplied by the Railways. | | | | | | |
| 52 | 52 | 60.00 | Numbers | 5604.03 | 336241.80 | AT Par | 336241.80 |
| | Description:- Preparation of App. Case single not involving wiring of relays: Preparation & fixing of Bakelite hylum sheet 910x800x6mm and Bakelite shelf 900x450x25mm duly fixed by angle iron piece of different size inside all the app. Cases. Hylum board shall be fixed on an angle iron frame of 25mmx25mmx3mm. Angle iron frame will be fixed in location boxes secured by nuts and bolts. This includes fixing of fuses, ARA terminal, fixing and jamming of cables with 2-inch thick salwood plank provided at the bottom. This will include opening, pasting and jamming armour of each cable in the hole drilled separately for each cable through the salwood plank and all cable entry points on location boxes, location huts, JB's relay room/battery room to be closed with suitable masonry Works covered with sand and plastering. Wiring description for terminal drawing of circuits, inside app. Case. Painting from outside as well inside with red oxide and aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engineer at site. All materials including Bachelite shelf, hylum board, salwood plank, wire and wiring material, non-deteriorating type HRC fuses with bases, catenary wires, nuts and bolts and other items shall be supplied by the contractor and shall be as per the RDSO specn.(as applicable). ARA terminals only shall be supplied by the Railways. | | | | | | |
| 53 | 53 | 120.00 | Numbers | 5828.81 | 699457.20 | AT Par | 699457.20 |

**DYCSTE-C-I-LKO-S AND T/NORTHERN RLY
TENDER DOCUMENT**

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|----|--|----------|---------|-----------|------------|--------|------------|
| 53 | Description:- Casting, concreting and curing of foundation and erection of half apparatus cases of size (670mmx760mm) and 650mm deep as per Drg.No.NR/S&T/CON/2.8/97. A layer of 3 mm of bitumen compound has to be provided between foundation and location box to prevent ingress of water in the base of location box. All material such as cement, coarse sand, aggregate and anchor bolt shall be supplied by contractor. App. Case half will be supplied by Railway. Contractor is required to execute all type of repair Works of foundations if required during inserting the cable for termination. | | | | | | |
| 54 | 54 | 120.00 | Numbers | 18312.65 | 2197518.00 | AT Par | 2197518.00 |
| | Description:- Supply of apparatus case steel RE half with 'E' type locks and key ward No 42 & handle as per Drg No. RE/S&T/ALD/SK/220/82 & 221/82 with Alt.B. Inspection: RITES. | | | | | | |
| 55 | 55 | 36.00 | Numbers | 4492.61 | 161733.96 | AT Par | 161733.96 |
| | Description:- Preparation of App. Case half involving wiring of relays: Preparation & fixing of Bakelite hylum sheet 450x800x6mm and Bakelite shelf 450x450x25mm duly fixed by angle iron piece of different size inside all the app. Cases. Hylum board shall be fixed on an angle iron frame of 25mmx25mmx3mm. Angle iron frame will be fixed in location boxes secured by nuts and bolts. This includes fixing of fuses, ARA terminal, Q series relays and other type relays on square bars fixing and jamming of cables with 2-inch thick salwood plank provided at the bottom. This will include opening, pasting and jamming armour of each cable in the hole drilled separately for each cable through the salwood plank and all cable entry points on location boxes, location huts, JB's relay room/battery room to be closed with suitable masonry Works covered with sand and plastering. Wiring description for terminal drawing of circuits, inside app. Case. Painting from outside as well inside with red oxide and aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engineer at site. All materials including Bakelite shelf, hylum board, salwood plank, wire and wiring material, non-deteriorating type HRC fuses with bases, catenary wires, nuts and bolts and other items shall be supplied by the contractor and shall be as per the RDSO specn.(as applicable). Relays, ARA terminals only shall be supplied by the Railways. | | | | | | |
| 56 | 56 | 84.00 | Numbers | 3767.80 | 316495.20 | AT Par | 316495.20 |
| | Description:- Preparation of App. Case half not involving wiring of relays: Preparation & fixing of Bakelite hylum sheet 450x800x6mm and Bakelite shelf 450x450x25mm duly fixed by angle iron piece of different size inside all the app. Cases. Hylum board shall be fixed on an angle iron frame of 25mmx25mmx3mm. Angle iron frame will be fixed in location boxes secured by nuts and bolts. This includes fixing of fuses, ARA terminal, fixing and jamming of cables with 2-inch thick salwood plank provided at the bottom. This will include opening, pasting and jamming armour of each cable in the hole drilled separately for each cable through the salwood plank and all cable entry points on location boxes, location huts, JB's relay room/battery room to be closed with suitable masonry Works covered with sand and plastering. Wiring description for terminal drawing of circuits, inside app. Case. Painting from outside as well inside with red oxide and aluminum paint is covered separately. Size of lettering will be 100mm or as per instructions of Engineer at site. All materials including Bakelite shelf, hylum board, salwood plank, wire and wiring material, non-deteriorating type HRC fuses with bases, catenary wires, nuts and bolts and other items shall be supplied by the contractor and shall be as per the RDSO specn.(as applicable). ARA terminals only shall be supplied by the Railways. | | | | | | |
| 57 | 57 | 21000.00 | Numbers | 79.63 | 1672230.00 | AT Par | 1672230.00 |
| | Description:- Supply of terminal block 25mm center M-6 (ARA terminals) as per IRS spec. No.IRS-S-75/2006 (Rev.2) & IRS drawing No. SA-23741A(Alt.4), SA-23745(Alt.5), SA-23746 & SA-23756(Alt.3). Inspection; RDSO. | | | | | | |
| 58 | 58 | 1.00 | Job | 639295.88 | 639295.88 | AT Par | 639295.88 |
| | Description:- Supply, Installation, testing and commissioning of Electrically Operated lifting barrier assembly as per RDSO Spec. No. RDSO/SPN/208/2012 (version 2.0) or latest consisting of 2 nos. of electrically operated lifting barriers, 2 pedestals, 8 band circuit controller with limit switches of Siemens, hand cranks, 2 electric motors, 110V AC, without centrifugal switch, 2 GI Boom in 4 sections of 8 feet each with 2 retroreflective stop boards, boom light boxes, MS counter weight, 2 nos. of boom support for resting boom etc. The item also consists of following items: a) Supply of motorized boom locking /unlocking assembly with electrical coil complete (1 no. each). b) Supply of level crossing gate control panel floor mounting type with switches and buttons sheet metal fabricated, (1 No). c) Supply of push button for operating the gate with 2 NO/NC contact, green color-close & Amber-open, Siemens or Kaypee or similar make (1 no.) Inspections RDSO for supply portion. d) Supply of solid-state electronic flasher 24V DC operated (1 no. each). e) Supply of dual tone warning bell with 20W horn & 15W amplifier (2 no. each). Inspection for (d) & (e): Consignee | | | | | | |
| 59 | 59 | 1.00 | Job | 43524.12 | 43524.12 | AT Par | 43524.12 |
| | Description:- Design and preparation of wiring diagram for Level-Xing MACLS on the basis of approved interlocking plan, typical circuit diagram and as per Railway practice and latest rules prescribed by the Railway and obtaining approval of the competent authority. Preparation of locking tables and dog charts to suit colour light signalling plan and obtaining the approval of the competent authority. Drawing shall be supplied as per following: - (i) Supply of 6 copies of completion set of superior quality paper, laminated, properly bound in steel clip jaw file with cushioned cover. (ii) Software backup of complete set in the form of CDs. (iii) The complete set of tracings. (iv) Design through CAD. (v) Drawing in A3 & plans in bigger size (6 sets). | | | | | | |

**DYCSSTE-C-I-LKO-S AND T/NORTHERN RLY
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|----|---|-------|---------|-----------|-----------|--------|-----------|--|
| 60 | 60 | 1.00 | Job | 19119.09 | 19119.09 | AT Par | 19119.09 | |
| | Description:- Cleaning, scraping, painting and lettering of all newly installed and existing gears by the contractor for existing/ new Level Crossing Gates. This includes supply of all painting materials and marking of all the circuit particulars near terminal-on-terminal board/in apparatus case/Jn. boxes and fuse nos, relay and equipment nomenclatures as per approved terminal chart and provisions of SEM. | | | | | | | |
| 61 | 61 | 96.00 | Dominos | 753.96 | 72380.16 | AT Par | 72380.16 | |
| | Description:- Fabrication & supply of domino type operating cum indication panel for way side station/LC Gate as per RDSO spec RDSO/SPN/186/2004, Ver. 2 or latest (if applicable). This includes LEDs, acrylic sheet etc. Inspection: Consignee or site Incharge. | | | | | | | |
| 62 | 62 | 96.00 | Numbers | 62.17 | 5968.32 | AT Par | 5968.32 | |
| | Description:- Installation and complete wiring of optg-cum indication panel for mid-section LC Gate. | | | | | | | |
| 63 | 63 | 2.00 | Numbers | 1175.84 | 2351.68 | AT Par | 2351.68 | |
| | Description:- Supply of Electronic Timer relay, 24 V DC @40<47@120 sec) as per RDSO Spec. IRS:S:61/2000 (Amend. No. 3) or latest. Inspection: RDSO. | | | | | | | |
| 64 | 64 | 4.00 | Numbers | 19807.61 | 79230.44 | AT Par | 79230.44 | |
| | Description:- Supply, installation and wiring complete KLCR and its box in location boxes, supply, installation, wiring of heavy-duty push-button AC immunized, LED indicator on MS sheet as per N.R. practice for crank handle locking/Gate locking. This work includes fixing & wiring of magneto telephones as per instructions of the site Engr. This includes all materials such as heavy-duty push button, LED indicator (10mm), MS sheet of 4.5mm thick, nuts and bolts, fixing materials for the magneto telephone, and wiring materials to be supplied by contractor. Inspection: RDSO for supply portion. | | | | | | | |
| 65 | 65 | 1.00 | Set | 292372.73 | 292372.73 | AT Par | 292372.73 | |
| | Description:- Supply, Installation & Commissioning of Emergency Sliding Boom complete with all accessories for L/B gate. Inspection: Consignee for supply portion. | | | | | | | |
| 66 | 66 | 2.00 | Numbers | 41021.56 | 82043.12 | AT Par | 82043.12 | |
| | Description:- Supply of spare electric operated lifting barrier GI booms as per latest RDSO Drg S-11600 in maximum 4 sections of 8 feet each. Inspection: Consignee. | | | | | | | |
| 67 | 67 | 29.00 | Numbers | 12234.04 | 354787.16 | AT Par | 354787.16 | |
| | Description:- Casting, concreting and curing of foundation for main signal of size (1,041mm X 1,041mm) at bottom and (711mm X 711mm) at top and 1,750mm deep as per Drg. no. NR/S&T/CON./2.1/97 all material such as anchor bolts, cement, sand aggregate to be supplied by contractor. | | | | | | | |
| 68 | 68 | 29.00 | Numbers | 21415.86 | 621059.94 | AT Par | 621059.94 | |
| | Description:- Supply of color light signal post 4.6m and ladder 4.5M with bases as per IRS specification No. IRS-S-6-81, Rev-3 or latest. Inspection: RITES. | | | | | | | |
| 69 | 69 | 15.00 | Numbers | 25709.66 | 385644.90 | AT Par | 385644.90 | |
| | Description:- Supply of non-metallic (FRP) color light signal housing multi-unit type for Railway signalling suitable for RE Area, 2-Aspect complete without lamps, lenses and signals transformers, as per RDSO Drg. No. SA-23003 A/M (Adv), Alt-8 or latest and as per specification no.RDSO/SPN/194/2006/Ver.1.0 or latest and FRP material as per RDSO No.RDSO/SPN/151/1997 or latest. All drawing should be as per latest. Material to be procured from RDSO approved firm only. Note: Signal shall be compatible to LED Lamp. Inspection: Consignee. | | | | | | | |
| 70 | 70 | 15.00 | Numbers | 3207.14 | 48107.10 | AT Par | 48107.10 | |
| | Description:- Fixing of CLS surface base, bolting on the foundation. Erection of CLS post with signal unit on the top or on an off-set bracket and fitting ladder and guard to the post at the top. Concreting ladder base and embedded into the ground with supporting bracket in the middle, blanking of the ladder for a distance of 1 foot between the height 6' 9" and 7' 9" from the rail level by MS angle and MS sheet 6mm thick wherever required. This includes provision of wooden (SAL) cross arm 1 mtr x 1 mtr for CLS unit prior to the commissioning, fixing of LED aspect, current regulator and hoods of CLS unit, terminating cables, wiring the CLS unit and focusing the signal. Elevation & distance of foundation from track shall be in accordance with schedule of dimension for Indian Railways and as per NR practice. All items for the above works except Signal unit, LED signal, Signal post, Base and Ladder shall be supplied by the contractor including but not limited to the following: i) "U" bolt for offset brackets, ii) Wooden cross arm 1 mtr. x 1 mtr., iii) MS angle and MS sheet for blanking of ladder, iv) Supply and fixing of signal number plate (Retro reflective) with complete fittings as per standard railway practice. v) Wire mesh guard, lock for unit if required, nuts, bolts etc., for the following: (a) Installation, erection, wiring of 2 aspect color light signals. | | | | | | | |
| | 71 | 14.00 | Numbers | 26929.82 | 377017.48 | AT Par | 377017.48 | |

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|----|--|--------|---------|------------|-------------|--------|-------------|
| 71 | Description:- Supply of non-metallic (FRP) color light signal housing multi-unit type for Railway signalling suitable for RE Area, 3/4-Aspect complete without lamps, lenses and signals transformers, as per RDSO Drg. No. SA-23003 A/M (Adv), Alt-8 or latest and as per specification no.RDSO/SPN/194/2006/Ver.1.0 or latest and FRP material as per RDSO No.RDSO/SPN/151/1997 or latest. All drawing should be as per latest. Material to be procured from RDSO approved firm only. Note: Signal shall be compatible to LED Lamp. Inspection: Consignee. (3-Aspect:9No. & 4-Aspect: 5No.). | | | | | | |
| | 72 | 14.00 | Numbers | 4523.05 | 63322.70 | AT Par | 63322.70 |
| 72 | Description:- Fixing of CLS surface base, bolting on the foundation. Erection of CLS post with signal unit on the top or on an off-set bracket and fitting ladder and guard to the post at the top. Concreting ladder base and embedded into the ground with supporting bracket in the middle, blanking of the ladder for a distance of 1 foot between the height 6' 9" and 7' 9" from the rail level by MS angle and MS sheet 6mm thick wherever required. This includes provision of wooden (SAL) cross arm 1 mtr x 1 mtr for CLS unit prior to the commissioning, fixing of LED aspect, current regulator and hoods of CLS unit, terminating cables, wiring the CLS unit and focusing the signal. Elevation & distance of foundation from track shall be in accordance with schedule of dimension for Indian Railways and as per NR practice. All items for the above works except Signal unit, LED signal, Signal post, Base and Ladder shall be supplied by the contractor including but not limited to the following: i) "U" bolt for offset brackets, ii) Wooden cross arm 1 mtr. x 1 mtr., iii) MS angle and MS sheet for blanking of ladder, iv) Supply and fixing of signal number plate (Retro reflective) with complete fittings as per standard railway practice. v) Wire mesh guard, lock for unit if required, nuts, bolts etc., for the following: (a) Installation, erection, wiring of 3/4 aspect color light signal. | | | | | | |
| | 73 | 10.00 | Numbers | 14795.83 | 147958.30 | AT Par | 147958.30 |
| 73 | Description:- Supply, Installation, wiring, testing and commissioning of SPT (Half Duplex) at IBS Location and adjacent stations. Each set shall comprise one no. of signal post telephone SPT) master unit (Which shall be installed on IBS post) along with one no. of slave unit to be installed in SM's office suitable for working on 24V DC and suitable for 25KV RE area as per Instruction of site In-charge, ACES make or similar. Note: The contractor shall ensure that there is no interference in communication between the master and slave unit owing to power hump due to RE Induction. Cable from IB signal unit to the cable termination Board in SM's Room/Relay Room will be provided by Railway. Inspection: Consignee for supply portion. | | | | | | |
| | 74 | 24.00 | Numbers | 838.83 | 20131.92 | AT Par | 20131.92 |
| 74 | Description:- Fabrication, Supply and fixing of retroreflective P/G/C/IB markers with complete fittings as per approved Drg. No. NR/S&T/CON/6.2/97. All material required for the job such as MS sheet, MS angle. Nut and bolts, paint and painting materials will be supplied by the Contractor. The P and G markers shall be as per Drg. No.S 23456(Adv) & SA 23477(Adv) respectively. | | | | | | |
| | 75 | 4.00 | Numbers | 10134.67 | 40538.68 | AT Par | 40538.68 |
| 75 | Description:- Casting, concreting, curing of foundations of size (400mmx300mm) at surface and 1000mm deep and erection of retroreflective SLB/BSLB/SB/Calling-on Board/Goods Warning Board/Passenger Warning Board as per drg. No. NR/S&T/CON/7.4/97 & provisions of SEM. It includes supply of retroreflective SLB/BSLB/SB/ calling on boards/Goods Warning Board/Passenger Warning Board. The SLB/BSLB shall be as per approved Drg. No.SA-2373 or latest. | | | | | | |
| | 76 | 29.00 | Numbers | 697.85 | 20237.65 | AT Par | 20237.65 |
| 76 | Description:- Supply and installation signal number plates Retroreflective type as per Drg.No.11393. Inspection; Consignee/Site incharge. | | | | | | |
| | 77 | 6.00 | Numbers | 277.85 | 1667.10 | AT Par | 1667.10 |
| 77 | Description:- Supply of Hydrometer Exide make for measuring specific gravity of battery, graded acid with mounting stand in location boxes. | | | | | | |
| | 78 | 160.00 | Numbers | 7.99 | 1278.40 | AT Par | 1278.40 |
| 78 | Description:- Supply, fixing and wiring of PPTC Fuses 2/6A make tyco/Raychem/Bourn/Fuzetech/ Little Fuse or similar. Inspection: Consignee for supply portion. | | | | | | |
| | 79 | 20.00 | Set | 254049.74 | 5080994.80 | AT Par | 5080994.80 |
| 79 | Description:- Supply of OFC integrated access device 1U height or 1.5 U height /19" rack mountable for LVCD /Digital axle counter purpose; optical module integrated in the unit supporting dual core OFC and one 100Mbps Ethernet port for surveillance/ smoke detector; optical distance support to be 20 kms; unit to support one E&M module supporting four 2W/4W (each port configurable) to support axle counter / UFSBI/Control phone/ EC/RTU/ and one TELNET/SNMP port; unit to support DC/AC power supply ; unit to support change over mechanism between quad and optical fiber for E&M option; one number cable to be provided along with unit for E&M ; FABIO/2CX/OFC/DC & Module 2W/4W four port : Make :TEAM ENGG/FABIO/WAVES or similar /TANSY. Inspection: RITES. | | | | | | |
| | 80 | 10.00 | Pair | 1069327.08 | 10693270.80 | AT Par | 10693270.80 |

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|----|---|---------|---------------|-----------|------------|--------|------------|
| 80 | Description:- Supply, Installation & commissioning of Universal Fail-Safe Block Interface (as per RDSO Spec. No. IRS-S-104/2012 ver.0 with latest amendments) Suitable to work on OFC/1 Quad Cable as 16 Input -16 Output Multiplexer for IB signalling including 68 Nos of QN1 (8F/8B) Relays for system commissioning. It also includes RS232 Fiber converter for operating UFSBI equipment as per IRS specn. No.IRS:S-104/2012 Ver.0 on dark fiber and Supply of prewired powder coated MS Cabinet at least 36U (1.6 m) approx. for housing UFSBI electronic modules, relay racks, SPD modules, 4 nos. of QN1 (8F/8B) relays per pair, etc. as required for commissioning of UFSBI electronics in Automatic Block signalling/IB signalling. Inspection: RDSO for supply portion. | | | | | | |
| 81 | 81 | 10.00 | Pair | 208447.00 | 2084470.00 | AT Par | 2084470.00 |
| | Description:- Supply, installation and commissioning of Reliability improvement kit suitable to work with UFSBI Deltron make as per RDSO/SPN/104/2012 or latest. it comprises (a) Automatic Media Changeover or modems working on redundant channels for data transmission on OFC/Quad/Microwave Radio (any two media): 01 pair, (b) Secondary modem for UFSBI for use with secondary media OFC/Quad-01 pair (c) Type C&D power line (VF 24 AC/DC: 02 Nos. V20C/3PH-150VA: 02 Nos.) & Data line SPD (MDP 4D/5T: 02Nos.) comprising suitable to work with 01 pair UFSBI: 01 Set (d) Power monitor & soft start unit PMSS: 01pair. Make-DELTRON. (Warranty Period: Up to 30 months from the date of delivery). Inspection: RDSO for supply portion. | | | | | | |
| 82 | 82 | 10.00 | Pair | 82212.98 | 822129.80 | AT Par | 822129.80 |
| | Description:- Supply and provision of modem compatible with existing UFSBI system to work on backup media compatible with IBS (direct single media 1 core optical fiber cable up to 30 km distance). Inspection: RDSO. | | | | | | |
| 83 | 83 | 20.00 | Numbers | 72056.99 | 1441139.80 | AT Par | 1441139.80 |
| | Description:- Supply of Reset Box RB 259A suitable for SSDAC. Inspection: RDSO. | | | | | | |
| 84 | 84 | 2.00 | Job | 74564.06 | 149128.12 | AT Par | 149128.12 |
| | Description:- Supply of portable Management Console for onsite programming. Model: DELL Inspiron 14 Laptop or similar (12th Generation Intel Core i7 or better, processor 4.4 Ghz or higher, RAM 8GB or higher, SSD 1TB, with inbuilt dual Graphic Card) or better as per specification. Inspection: Consignee | | | | | | |
| 85 | 85 | 127.00 | Job | 26949.13 | 3422539.51 | AT Par | 3422539.51 |
| | Description:- Supply, installation & commissioning of maintenance free earth suitable kit as per RDSO specification RDSO/SPN/197/2008 and Drg No. SDO/RDSO/E&B/002 dated 19.09.2008 or latest with latest amendments. Earthing kit consists of 1. Earthing electrode of 17mm dia and 3 meter long-01 no. 2. MEEB (300mmX25mmX6MM) -01 no. 3. SEEB (150mmX25mmX6mm)-01 no. 4. Earth enhancing compound-30 Kg (minimum). This includes provision of earth connection from MEEB to S&T equipment i.e. cable sheath, apparatus case, IPS, data logger, MSDAC, SSDAC etc. with PVC earth wire of size 16/25Sq.mm through copper lugs of suitable size. PVC wire shall be supplied by Railways. Note: At certain locations it may not be possible to achieve earth resistance of less than 1.0 ohm with one earth electrode/pit due to soil resistivity. In such case provision of loop earth consisting of more than one earth pit shall be done. For inter-connection of two earth pits copper tape of size 25x2 sq. mm shall be provided by contractor. The number of pits required shall be decided based upon the resistance achieved for the earth pit already installed. The procedure mentioned above for one earth pit shall be repeated for other earth pits. The other earth so installed for the purpose of loop earthing arrangement shall be counted as separate earth. Inspection: RDSO for supply portion. | | | | | | |
| 86 | 86 | 200.00 | Job | 3768.14 | 753628.00 | AT Par | 753628.00 |
| | Description:- Supply and installation of earth electrodes as per std. practice. The item includes digging of pit in earth, 3 Mtrs. deep and fixing earth electrode pipe. Casting of cement concrete enclosures as per drg. No. (NR/S&T/CON/6.4/97). The soil treatment shall be done as per std. practice. The item includes provision of mild steel flat of size 35mm x 6mm (as per IRSEM) and nut bolted connection of MS flat with earth electrode. The other end of mild steel flat to be connected to block instrument, cable sheath of power equipment, signal base, apparatus case, CT rack / relay racks, other equipment as per the instruction of Engr. at site & IRSEM. Earthing connection location to location shall be done through cable which shall be provided by Railway. Complete materials such as earth electrodes as per drg. No. (NR/S&T/CON/6.3/97), cement, wiring material, nut bolt for connection & mild steel flat of size 35mm x 6mm or 210 sqm as per SEM etc. to be supplied by the contractor. Inspection: RITES for supply portion. | | | | | | |
| 87 | 87 | 9.00 | Vehicle-Month | 32064.19 | 288577.71 | AT Par | 288577.71 |
| | Description:- Hiring and operating multi utility vehicle (Maximum 3 vehicle in a month) of loading capacity one MT with sitting capacity of 4 to 6 persons, 4-stroke, 4-cylinder engine, factory-built metal body, cargo box type passenger cabin type or both (with 24 hrs availability) including cost of fuel, lubricants, operating and maintenance including on kutcha/pucca road along the track. The contractor shall arrange road permit for vehicles for all the states of operation as per instructions of engineer incharge. Vehicle shall not be older than 3 years. The max KM utilization per month is 1200KM per vehicle. | | | | | | |
| 88 | 88 | 9000.00 | Vehicle Km | 22.71 | 204390.00 | AT Par | 204390.00 |

**DYCSTE-C-I-LKO-S AND T/NORTHERN RLY
TENDER DOCUMENT**

Tender No: 287-SigC-I-LKO-T-01-26

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|----|--|--------|---------|-----------|------------|--------|------------|
| | Description:- Extra over item no.87 above for every additional KM or part thereof over 1200 KM per month. | | | | | | |
| 89 | 89 | 12.00 | Numbers | 5635.87 | 67630.44 | AT Par | 67630.44 |
| | Description:- Supply, installation, commissioning of fault locator for short circuit detection in the fire alarm loop required as per UL listed solution & RDSO/SPN/217/2021 Ver 3.0 or latest. Spare cost also included & to be supplied as per RDSO para no.4.15. Inspection: RDSO for supply portion. | | | | | | |
| 90 | 90 | 6.00 | Set | 275220.96 | 1651325.76 | AT Par | 1651325.76 |
| | Description:- Supply, installation, testing and commissioning of single channel laser or high-power LED based Aspiration detection unit (for AC room) with area covering 5000 sq.ft. with programmable 4 stage alarm generation and with 4 addressable modules along with required module and power supply, interfacing module etc. It should have auto cleaning facility in optical chamber, electronic discrimination of particle size, ultrasonic air flow sensing auto learn feature with TCP/IP network capability, the aspiration system shall also include external power supply unit with battery back-up. Approval-UL/LPCB/VDS listed and shall comply to specification No.RDSO/SPN/217/2021 ver-3 or latest. Spare cost also included & to be supplied as per RDSO para no.4.15. Inspection: RDSO for supply portion. | | | | | | |
| 91 | 91 | 76.00 | Set | 5820.97 | 442393.72 | AT Par | 442393.72 |
| | Description:- Supply, installation, commissioning Heat and Smoke Multi sensor detector with automatically adjusts sensitivity levels without the need for operator intervention or programming sensitivity increase with heat varying and floating sensitivity from 0.5 to 4% Ft and shall be plug in type facility and address through switch. The base should also be supplied as per RDSO/SPN/217/2017 Ver 3.0 or latest. Spare cost also included & to be supplied as per RDSO para no.4.15. Inspection: RDSO for supply portion. | | | | | | |
| 92 | 92 | 6.00 | Numbers | 553123.57 | 3318741.42 | AT Par | 3318741.42 |
| | Description:- Supply, installation, commissioning of microprocessor based networkable analogue addressable UL listed and modular type of Fire alarm Control Panel with 2-loop expandable up to 4-loop with 80 character display with battery charger and battery, backup for 24 Hr. normal operation and 15 Min alarm operation addressable power supply and alpha-numeric keypad for installation for the FAS panel and 1,000 event recording facility as per RDSO/SPN/217/2021, Ver 3.0 or latest with GSM module-01 no. for sending SMS to configured mobile number and relay module-02 no. for connecting to datalogger for remote monitoring. The panel should support sufficient devices of both detectors and modules in a single line. Spare cost also included & to be supplied as per RDSO para no.4.15. Inspection: RDSO for supply portion. | | | | | | |
| 93 | 93 | 200.00 | Metre | 764.61 | 152922.00 | AT Par | 152922.00 |
| | Description:- Supply, installation, testing and commissioning of UL/LPCB/VDS listed CPVC pipe with suitable diameter as per requirements & pipe accessories for the Aspiration detection shall comply to RDSO/SPN/217/2021 Ver.3.0 or latest. Spare costs are also included & to be supplied as per RDSO Para no.4.15. Inspection: RDSO for supply portion. | | | | | | |
| 94 | 94 | 420.00 | Metre | 1719.71 | 722278.20 | AT Par | 722278.20 |
| | Description:- Supply, installation, commissioning of analogue type Linear Heat Sensing (LHS) cable which is self-restorable after the fire event as long as its temperature does not exceed specified resettable temperature limit of 120 degree Celsius it shall have an activation temperature of 70 degree Celsius as per RDSO/SPN/217/2021, Ver 3.0 or latest. Spare cost also included & to be supplied as per RDSO para no.4.15. Inspection: RDSO for supply portion. | | | | | | |
| 95 | 95 | 6.00 | Numbers | 25470.00 | 152820.00 | AT Par | 152820.00 |
| | Description:- Supply, installation, commissioning of GSM interface module suitable to interface with the control panel as per RDSO/SPN/217/2021, Ver 3.0 or latest. Spare cost also included & to be supplied as per RDSO para no.4.15. Inspection: RDSO for supply portion. | | | | | | |
| 96 | 96 | 12.00 | Numbers | 5585.39 | 67024.68 | AT Par | 67024.68 |
| | Description:- Supply, installation, commissioning of UL listed glass break manual call point as per RDSO/SPN/217/2021 Ver. 3.0 or latest. Spare cost also included & to be supplied as per RDSO para no.4.15. Inspection: RDSO for supply portion. | | | | | | |
| 97 | 97 | 12.00 | Numbers | 11045.99 | 132551.88 | AT Par | 132551.88 |
| | Description:- Supply, installation, commissioning of audio-visual alarm unit as per RDSO/SPN/217/2021, Ver 3.0 or latest. Spare cost also included & to be supplied as per RDSO para no.4.15. Inspection: RDSO for supply portion. | | | | | | |
| 98 | 98 | 12.00 | Numbers | 143168.73 | 1718024.76 | AT Par | 1718024.76 |
| | Description:- Supply, installation, commissioning of Linear Heat Sensing interface module as per RDSO/SPN/217/2021, Ver 3.0 or latest. Spare cost also included & to be supplied as per RDSO para no.4.15. Inspection: RDSO for supply portion. | | | | | | |
| 99 | 99 | 12.00 | Numbers | 5061.86 | 60742.32 | AT Par | 60742.32 |
| | Description:- Supply, installation, commissioning of end of Line box for linear Heat Sensing cable as per RDSO/SPN/217/2021, Ver 3.0 or latest. Spare cost also included & to be supplied as per RDSO para no.4.15. Inspection: RDSO for supply portion. | | | | | | |
| | 100 | 700.00 | Metre | 279.71 | 195797.00 | AT Par | 195797.00 |

**DYCSTE-C-I-LKO-S AND T/NORTHERN RLY
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|-----|---|---------|---------|----------|-----------|--------|-----------|
| 100 | Description:- Supply, installation, commissioning of circuit integrity cable 2 core 1.5 Sq.mm as per RDSO/SPN/217/2021, Ver 3.0 or latest. Spare cost also included & to be supplied as per RDSO para no.4.15. Inspection: RDSO for supply portion. | | | | | | |
| 101 | 101 | 32.00 | Numbers | 10167.53 | 325360.96 | AT Par | 325360.96 |
| | Description:- Supply of ISI marked Carbon di Oxide type (BC) fire extinguisher of 4.5 Kg capacity confirming to IS: 2878 from seamless cylinder confirming to IS: 7285 with ISI marked control valve conforming to IS: 3224 high pressure meter long discharge hose and horn complete with initial gas charged with carrying handle and wall mounting bracket etc. as required by site Engineer. Inspection: Consignee | | | | | | |
| 102 | 102 | 7.00 | Job | 1523.37 | 10663.59 | AT Par | 10663.59 |
| | Description:- Dismantling and releasing single signal post which includes dismantling of signal fittings electrical and mechanical both wheel of sorts, GI pipe, pulley stakes wire run from cabin to signal posts etc. All dismantled material to be transported and stacked in the store of SSE/C/TKJ or DYCM/SSB/LKO or any other stores of northern railway. | | | | | | |
| 103 | 103 | 30.00 | Job | 870.71 | 26121.30 | AT Par | 26121.30 |
| | Description:- Dismantling and release of location boxes/apparatus case Jn boxes including of terminal board relay terminal, batteries, track feed chargers & other associated fitting installed therein complete with fittings all materials transported and deposited in the store of SSE/CTKJ or DYCM/SSB/LKO or any other stores of northern railway. | | | | | | |
| 104 | 104 | 3000.00 | MT-Km | 6.60 | 19800.00 | AT Par | 19800.00 |
| | Description:- Loading, leading and unloading of released/other materials from site to DyCM/AMV store or SSE/Sig/C/UTR store. Transportation of signalling /Telecom material such as cable drum or other Railway Material etc using Truck/MUV from Railway Store/any designated place to work site. Labour required for loading/unloading and transportation vehicle will be arranged by contractor. | | | | | | |
| 105 | 105 | 70.00 | cum | 152.45 | 10671.50 | AT Par | 10671.50 |
| | Description:- Earth work for excavation and refilling around location boxes and signals etc. where necessary including 50M lead and 1.5M lift. The lead is to be measured from center of gravity of location to the center of filling and lift from main ground level. The earth work should be well rammed including breaking of clods, leveling and dressing etc. as per instruction of Engineer at site. | | | | | | |
| 106 | 106 | 25.00 | cum | 15305.34 | 382633.50 | AT Par | 382633.50 |
| | Description:- Concreting unscheduled items in concrete of 1:3:6 ratio in cement, coarse sand and aggregate 25mm at different places in the yard and plastering top in fine plaster of 1:4 cement sand ratio. It also includes the excavation of earth as required at site and as per instruction of site in charge. The volume in cubic meters shall include the volume occupied by any CI foundation, trestle, MS angle or flat or GI pipe required to be embedded in the casting. Cement coarse sand and aggregate 25mm are to be supplied by the contractor. | | | | | | |
| 107 | 107 | 5.00 | Job | 25593.19 | 127965.95 | AT Par | 127965.95 |
| | Description:- Cleaning, scrapping, painting & lettering of all newly installed & existing gears such as signals, point equipment, track circuit equipment with TC No. on rail, apparatus cases, JB, TLJB, point Roding, cranks, compensators etc. including gate equipment if existing in station section as per the provision of IRSEM. All paints (ISI marked) shall be approved by Railway Engineer and painting materials to be supplied by the contractor. This includes writing, and painting requirement of all indoor and outdoor gears along with marking of all circuit Nos. near terminal and terminal boards/rack in apparatus cases, Jn. boxes, relay room, SMs room, writing of relay nomenclature, fuse Nos. and equipment nomenclature as per the approved plans and as per provision of IRSEM. (1 JOB = 1 Station). | | | | | | |
| 108 | 108 | 5.00 | Numbers | 39435.57 | 197177.85 | AT Par | 197177.85 |
| | Description:- Supply and Installation of Demineralizer plant of capacity 65 Liters per hour approx. This includes all the pipe connections from water source to unit and also to collection unit as per instruction of site engineer. Inspection: Consignee for supply portion. | | | | | | |
| 109 | 109 | 40.00 | Hour | 1091.87 | 43674.80 | AT Par | 43674.80 |
| | Description:- Engaging mechanical excavators like JCB or other machineries for regarding and leveling the formation, dismantling any infringing structures, clearing and removing debris etc., with all lead and lifts etc., complete and as per the instruction of railway representative at site. | | | | | | |
| 110 | 110 | 5.00 | Numbers | 45224.30 | 226121.50 | AT Par | 226121.50 |
| | Description:- Supply of ESM furniture of Godrej or similar make consisting of the following: 1. Executive revolving bearing series low back floating chair with normal arms cushioned Chair : 1No. 2. Executive Table size 72x36x30" with 3 drawers one side, lockers cabinet on other side : 1No. 3. Visitor chair seat & back cushion with high density Foam with plastic PVC handle capsul type Flat pipe duly Painted black : 3Nos. 4. One Steel Almirah of size 48"x30"x17" with lock and handle arrangement for record keeping at station. Inspection: Consignee | | | | | | |
| 111 | 111 | 12.00 | Numbers | 5474.44 | 65693.28 | AT Par | 65693.28 |
| | Description:- Supply of desk type magneto telephone suit IRS TC:36-97(Amndt.1) or latest with latest amendments. Inspection: Consignee | | | | | | |
| | 112 | 15.00 | Numbers | 1600.68 | 24010.20 | AT Par | 24010.20 |

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|-----|--|--------|-----------|-----------|------------|--------|------------|
| 112 | Description:- Supply and Installation of 20 pair DP box made of cast Aluminum within built locking system and waterproof should have double outlet with leading in brass nozzle. The main tag block plate is mounted on the inner aluminum chamber with brass terminal studded in back lite sheet. DP boxes & termination of cables as per specifications, drawing and stipulations of tender documents. This includes fixing of the same on 1" thick board of size as per directions of site engineer with ground nuts and bolts of suitable size and pipe fixed with clamps on pole /wall. All materials required for fixing & termination including salwood/hylum board and the hardware required for fixing will be supplied by contractor. Inspection: Consignee for supply portion. | | | | | | |
| 113 | 113 | 82.00 | Kilometre | 1607.23 | 131792.86 | AT Par | 131792.86 |
| | Description:- Final location survey of cable route, preparation of cable route plan, terminating plan, jointing schedule and tapping chart etc. as detailed in tender documents with particular reference to RDSO's code of practice "For installation and commissioning of OFC / 6 quad cable system" Approved drawings and documents shall be supplied in 6 hard copies in original of A4/A3 size along with 2 CD in AutoCAD of latest version. | | | | | | |
| 114 | 114 | 120.00 | Numbers | 7501.76 | 900211.20 | AT Par | 900211.20 |
| | Description:- Supply & provision of straight through joints thermo-shrink jointing kit with the help of thermo-shrink jointing kit as per specifications, drawings and stipulations of tender documents and as per approved cable route plan at various locations for 06 Quad/04 Quad cable. Jointing kits to be supplied as per RDSO specification IRS:TC 77-2012 (Rev.-3) or latest amendments. Inspection: RDSO for supply portion. | | | | | | |
| 115 | 115 | 60.00 | Numbers | 8402.53 | 504151.80 | AT Par | 504151.80 |
| | Description:- Supply of thermo-shrink jointing kit as per IRS TC 77/2012 Rev.3 with Amendment 1 & 2 latest amendments & provision of derivation isolation joint in quad cable & PIJF cable at LC gate, pump, houses, station cabins etc., using thermo-shrink jointing kit as per specifications, drawings and stipulations of tender documents. This includes all material required for making joints. Inspection: RDSO for supply portion. | | | | | | |
| 116 | 116 | 20.00 | Numbers | 2371.68 | 47433.60 | AT Par | 47433.60 |
| | Description:- Supply of VF Tapping & Termination Transformers 2T/1120:470 Ohm as per IRS-TC-22/76 with Amd-1 or latest amendments (round type). Inspection: Consignee | | | | | | |
| 117 | 117 | 100.00 | Metre | 12.92 | 1292.00 | AT Par | 1292.00 |
| | Description:- Fixing of 1"/2" PVC channel/conduit pipe 1"/2" diameter on proper clamps and screws and indoor cable laying. | | | | | | |
| 118 | 118 | 200.00 | Metre | 51.55 | 10310.00 | AT Par | 10310.00 |
| | Description:- Switch board cables per IRS Specification No IRS-TC-24/91 Make delton. (a) 5 pair/0.6 mm. (Inspection: Consignee). | | | | | | |
| 119 | 119 | 200.00 | Metre | 97.20 | 19440.00 | AT Par | 19440.00 |
| | Description:- Switch board cables per IRS Specification No IRS-TC-24/91 Make delton. (b) 10 Pair/0.6mm. (Inspection: Consignee). | | | | | | |
| 120 | 120 | 200.00 | Metre | 92.75 | 18550.00 | AT Par | 18550.00 |
| | Description:- Switch board cables per IRS Specification No IRS-TC-24/91 Make delton. (c) 20 pair/0.6 mm. (Inspection: Consignee). | | | | | | |
| 121 | 121 | 15.00 | Numbers | 36846.21 | 552693.15 | AT Par | 552693.15 |
| | Description:- Supply and installation of Fiber management system 19" with all installation materials, splicing, termination and testing of 2*24 fiber of the cable i.e. 48 fibers with all connectors material as per the instruction of the site engineer. (Inspection: RITES for supply portion). | | | | | | |
| 122 | 122 | 3.00 | Numbers | 344783.44 | 1034350.32 | AT Par | 1034350.32 |
| | Description:- Supply of cable fault locator for underground cable as per model no. Telscout TS-90 (Test signal output 1/2 Sine, Pulse width 5nsec to 2500nsec, Max Range:1500m, Filter cut-off Frequency:150kHz (High Pass Filter), Gain:0 to 63dB), Stanley or similar branded make as per specification. Inspection: RITES. | | | | | | |
| 123 | 123 | 6.00 | Numbers | 6814.02 | 40884.12 | AT Par | 40884.12 |
| | Description:- Supply of Digital insulation Tester (Megger) 100 V, Motwani, Philips or equal to make. Inspection: Consignee | | | | | | |
| 124 | 124 | 82.00 | Kilometre | 72249.05 | 5924422.10 | AT Par | 5924422.10 |
| | Description:- Laying of HDPE duct in the trenches, including in HDD/Manual Boring and supply pulling of Nylon rope through is at different places as per direction of Engineer incharge/ site Engineer. It includes Supply of HDPE duct outer dia 40mm & inner dia 33mm as per TEC Gr No. G/CDS-08/02 Nov /2004 with latest amendment with end cap to be provided along with the drum at both ends. (RDSO specs No. RDSO/SPN/TC/45/2013 Rev.2.0). Inspection: RITES for supply portion. | | | | | | |
| 125 | 125 | 100.00 | Numbers | 32.73 | 3273.00 | AT Par | 3273.00 |
| | Description:- End plug for item no.124 above. Inspection: Consignee for supply portion. | | | | | | |
| 126 | 126 | 100.00 | Numbers | 41.36 | 4136.00 | AT Par | 4136.00 |
| | Description:- Cable sealing plug for item no.124 above. Inspection: Consignee for supply portion. | | | | | | |

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| 127 | 127 | 100.00 | Numbers | 84.37 | 8437.00 | AT Par | 8437.00 | |
| | Description:- Plastic Coupler-Slip Fit/Push fit type for item no.124 above. Inspection: Consignee for supply portion. | | | | | | | |
| 128 | 128 | 82.00 | Kilometre | 11380.64 | 933212.48 | AT Par | 933212.48 | |
| | Description:- Blowing/Drawing of OFC cable in the HDPE duct by mechanical system. | | | | | | | |
| 129 | 129 | 50.00 | Numbers | 18620.97 | 931048.50 | AT Par | 931048.50 | |
| | Description:- Supply and installation of optical fiber cable joint enclosure as per TEC spec no. GR/OJC-02/01/ March 99 with latest amendment and splicing of optical fiber cables (24 fibers & testing). This includes provision of jointing kit (RCC/Prefabricated) as detailed in the technical specification and as advised by engineer at site. Inspection: Consignee for supply portion. | | | | | | | |
| 130 | 130 | 100.00 | Numbers | 635.95 | 63595.00 | AT Par | 63595.00 | |
| | Description:- Supply of OFC jumper (Patch card) 10mtr. long with FC/PC & SC or suitable connector at both end as per IRS:TC-81/2000 with latest amendment. Inspection: Consignee | | | | | | | |
| 131 | 131 | 100.00 | Numbers | 475.99 | 47599.00 | AT Par | 47599.00 | |
| | Description:- Supply of OFC jumper (Pigtail) 10mtr. long with FC/PC & SC or suitable connector at both end as per IRS:TC-81/2000 with latest amendment. Inspection: Consignee | | | | | | | |
| 132 | 132 | 20.00 | Set | 24922.79 | 498455.80 | AT Par | 498455.80 | |
| | Description:- Installation & commissioning of OFC equipment for SCADA/axle counter per location. | | | | | | | |

3. ITEM BREAKUP

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|------------------------|
| No item break up added |
|------------------------|

4. ELIGIBILITY CONDITIONS

Important : All documents uploaded and remarks / confirmation entered by the bidders against any eligibility condition shall be opened as part of technical bid only

Standard Financial Criteria

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|--|-----------------------|-----------------|---------------------|
| 1 | The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less, where V= Advertised value of the tender in crores of Rupees. N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-I, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet. | No | No | Allowed (Mandatory) |

Standard Technical Criteria

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|-------------|-----------------------|-----------------|---------------------|
|-------|-------------|-----------------------|-----------------|---------------------|

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|-----|---|----|----|------------------------|
| 1 | The tenderer must have successfully completed or substantially completed any of the following (by any Government organizations) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited. Three similar works costing not less than the amount equal to 30% of advertised value of the tender, or Two similar works costing not less than the amount equal to 40% of advertised value of the tender, or One similar work costing not less than the amount equal to 60% of advertised value of the tender. NOTE FOR TECHNICAL ELIGIBILITY CRITERIA- Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organisation, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of closing of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate. | No | No | Allowed (Mandatory) |
| 1.1 | Defination of Similar Work :- 2.1 Any Automatic Signalling work or IBS/IBH work (involving Indoor as well as Outdoor). Any RI or EI or CLS or ABS or IBS/IBH or Track Circuiting work (using AFTC or Any Axle Counter) involving Indoor & Outdoor work. Note-1: Tenderer may be required to submit the schedule of those works, Completion/Performance Certificates of which have been submitted by him/her in support of 30/40 / 60 % (as the case may be) criterion of similar nature of work. Note-2: (a) Submission of 'Undertaking by the tenderer' that the equipment for EI or Axle Counter or AFTC or UFSBI shall be procured from RDSO approved sources and installation, testing and commissioning of EI or Axle Counter or AFTC or UFSBI shall be got done from the same source including after sales support required during the warranty period. The tenderer should submit an MoU with OEM of the EI in which alteration is to be done. AND (b) After the award of the contract, MOU with RDSO approved source covering supply of equipment for Axle Counter or AFTC or UFSBI. Installation, testing & commissioning of Axle Counter or AFTC or UFSBI by the same RDSO approved source including after sales support required during the warranty period before supply of equipments is undertaken. For Electronic Interlocking (EI) equipments 'The successful bidder shall submit an undertaking from RDSO approved EI OEM, before the supply of material, to confirm compliance with extent RDSO guidelines and to meet contract specific requirements'. | No | No | Not Allowed |

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

| S.No. | Description |
|-------|--|
| 1 | I/we the tenderer (s) am/are signing this document after carefully reading the contents. |
| 2 | I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof. |
| 3 | I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website www.ireps.gov.in . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us. |
| 4 | I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements. |
| 5 | I/We also understand that my/our offer will be evaluated based on the documents/credentials submitted along with the offer and same shall be binding upon me/us. |
| 6 | I/We declare that the information and documents submitted along with the tender by me/us are correct and I/we are fully responsible for the correctness of the information and documents, submitted by us. |
| 7 | I/we certify that I/we the tenderer(s) is/are not blacklisted or debarred by Railways or any other Ministry / Department of Govt. of India from participation in tender on the date of submission of bids, either in individual capacity or as a HUF/ member of the partnership firm/LLP/JV/Society/Trust. |

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| | |
|----|---|
| 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

Important : All documents uploaded and remarks / confirmation entered by the bidders against any compliance condition shall be opened as part of technical bid only.

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) |

General Instructions

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|---|-----------------------|-----------------|---------------------|
| 1 | Tenderer should go through Annexure 1&2 of Tender Notice (attached in Tender Document)for list of documents required to be uploaded along with the offer. | No | No | Not Allowed |

Technical-Compliances

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|--|-----------------------|-----------------|---------------------|
| 1 | Upload filled & signed Annexure-C:Declaration form regarding site etc.(Format attached with Vol-I of tender document) | Yes | No | Allowed (Mandatory) |
| 2 | Upload filled & signed Annexure-D:"Declaration regarding constitution of firm".(Copy attached with Vol-I of tender document) | Yes | Yes | Allowed (Mandatory) |
| 3 | Upload filled and signed Annexure-E: List of plant and Machinery.(Copy attached with Vol-I of tender document) | Yes | No | Allowed (Mandatory) |
| 4 | Upload filled and signed Annexure-F: List of Engineers/Personnel (Copy attached with Vol-I of tender document). | Yes | No | Allowed (Mandatory) |
| 5 | Upload filled & Signed Annexure-G:Statement of work executed/completed during last 7 years ending last day of the month previous to the one in which tender is invited (Format available in Vol-I of tender document). | Yes | No | Allowed (Mandatory) |
| 6 | Upload filled & Signed Annexure-H: Statement of works being executed/in hand - in support of Bid Capacity (Mandatorily for tender value more than Rs.10 crore) (copy of format available in Vol-I of Tender Document). | Yes | No | Allowed (Mandatory) |

**DYCSTE-C-I-LKO-S AND T/NORTHERN RLY
TENDER DOCUMENT**

Tender No: 287-SigC-I-LKO-T-01-26

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

| | | | | |
|----|--|-----|-----|---------------------|
| 7 | Upload filled and signed Annexure-I: Detail of Annual Contractual Turnover Data for previous 3/4 Years (Copy of format available in Vol-I of tender document) | Yes | No | Allowed (Mandatory) |
| 8 | Upload filled & signed Annexure-J:Real Time Gross Saving (RTGS)/National Electronic Fund Transfer(NEFT) Model Mandate Form (copy of format available in Vol-I of tender document) | Yes | No | Allowed (Mandatory) |
| 9 | Upload filled & signed Annexure-L: Completion Certificate(copy of format available in Vol-I of tender document) | Yes | No | Allowed (Mandatory) |
| 10 | Upload filled & signed Annexure-Q: Undertaking Regarding Employment/ Partnership of Retired Railway Employees | Yes | No | Allowed (Optional) |
| 11 | Upload filled & signed Annexure-AB: STATEMENT OF DEVIATIONS.(copy of format available in Vol-I of tender document) | Yes | No | Allowed (Optional) |
| 12 | Upload filled and signed Annexure-M(A):" Mandatory certificate to be submitted by tenderer along with the tender documents | Yes | No | Allowed (Mandatory) |
| 13 | Upload filled & signed Annexure K-3 & K-4: If tender submitted on behalf of Partnership Firm, relevant Annexures K-3 and K-4 as Declaration to be submitted by the tenderer. (Copy attached with Vol-I of tender document) | Yes | Yes | Allowed (Optional) |
| 14 | Upload filled & signed Annexure-N: Maximum value of construction works executed and payment received in any one of the previous three financial years or the current financial year (up to date of inviting tender) for calculating A on prescribed proforma as per Annexure-N duly verified by Chartered Accountant. (Mandatory for tender value more than Rs.10 crore) | No | No | Allowed (Mandatory) |

Undertakings

| S.No. | Description | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|---|-----------------------|-----------------|---------------------|
| 1 | I/We have read all pages of the tender document and understood all terms and conditions mentioned in the tender document and agreed to abide by the same. | No | No | Not Allowed |
| 2 | Each page of the documents uploaded along with the bid must be signed and stamped before uploading the same on the IREPS website. | No | No | Not Allowed |

6. Documents attached with tender

| S.No. | Document Name | Document Description |
|-------|---------------------------------------|----------------------|
| 1 | BDKN_SLNIBS_compressed1.pdf | TSIP SLN BDKN |
| 2 | SLN-PKXIBS-Model2.pdf | TSIP SLN PKX |
| 3 | TenderNotice.pdf | Tender Notice |
| 4 | TenderDocument01-26.pdf | Tender Document |
| 5 | RBL-GANG.pdf | TSIP RBL GANG |
| 6 | RBL-RUM.pdf | TSIP RBL RUM |
| 7 | MBDP-PHV.pdf | TSIP MBDP PHV |
| 8 | Standard_General_Condition_060919.pdf | GCC 2019 |

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: MANOJ KUMAR SRIVASTAV

Designation : ESTE/C-II/LKO