

# HOWRAH DIVISION-S AND T/EASTERN RLY TENDER DOCUMENT

**Tender No:** SDSTE-LCGATE-06NOs-26

**Closing Date/Time:** 06/07/2026 15:00

**DRM** acting for and on behalf of The President of India invites E-Tenders against Tender No **SDSTE-LCGATE-06NOs-26** Closing Date/Time 06/07/2026 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

|                                      |   |  |                      |
|--------------------------------------|---|--|----------------------|
| <b>Name of Work</b>                  | Upgradation & Interlocking of LC Gates 06 Gates with TVU > 10000 of HWH Division. |  |                      |
| <b>Bidding type</b>                  | Normal Tender   |  |                      |
| <b>Tender Type</b>                   | Open  | <b>Bidding System</b>                      | Single Packet System |
| <b>Tender Closing Date Time</b>      | 06/07/2026 15:00  | <b>Date Time Of Uploading Tender</b>       | 10/06/2026 16:41     |
| <b>Pre-Bid Conference Required</b>   | No  | <b>Pre-Bid Conference Date Time</b>        | Not Applicable       |
| <b>Advertised Value</b>              | 85640836.80   | <b>Tendering Section</b>                   | S AND T              |
| <b>Bidding Style</b>                 | Single Rate for Each Schedule Item  | <b>Bidding Unit</b>                        |                      |
| <b>Earnest Money (Rs.)</b>           | 1712800.00  | <b>Validity of Offer ( Days)</b>           | 60                   |
| <b>Tender Doc. Cost (Rs.)</b>        | 0.00  | <b>Period of Completion</b>                | 12 Months            |
| <b>Contract Type</b>                 | Works - General   | <b>Contract Category</b>                   | Expenditure          |
| <b>Bidding Start Date</b>            | 22/06/2026  |  |                      |
| <b>Are JV allowed to bid</b>         | No  | <b>Number of JV Member Allowed</b>         | 0                    |
| <b>Are Consortium allowed to bid</b> | No  | <b>Number of Consortium Member Allowed</b> | 0                    |
| <b>Ranking Order For Bids</b>        | Lowest to Highest   | <b>Expenditure Type</b>                    | Capital (Works)      |

## 2. SCHEDULE

| S.No.  | Item Code  | Item Qty | Qty Unit      | Unit Rate | Basic Value | Escl.(%) | Amount      | Bidding Unit     |
|--|--|----------|---------------|-----------|-------------|----------|-------------|------------------|
| <b>Schedule</b> () 1-Upgradation & Interlocking of LC Gates 06 Gates with TVU > 10000 of HWH Division. |  |          |               |           |             |          | 85640836.80 |                  |
| 1  | 1  | 15000.00 | Per Conductor | 9.00      | 135000.00   | AT Par   | 135000.00   | Above/ Below/Par |
|  | <b>Description:-</b> 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 Engr. incharge of the work. Inspection: Consignee  |          |               |           |             |          |             |                  |
| 2  | 2  | 36.00    | Numbers       | 1346.00   | 48456.00    | AT Par   | 48456.00    | Above/ Below/Par |
|  | <b>Description:-</b> "Supply & installation of 'C' class surge protection arrangement at feed end DC Track Ckt Specn no. As follows: - voltage 230 V AC rated voltage 350V AC DIS. CAP 10KA TO 20 KA TIME 100 MILI second protection 1.2V degree protection IP.20 TEC-61643-1. Inspection : by consignee."   |          |               |           |             |          |             |                  |
| 3  | 3  | 36.00    | Numbers       | 15707.00  | 565452.00   | AT Par   | 565452.00   | Above/ Below/Par |
|  | <b>Description:-</b> "Supply of colour light signal post 5.6 mtr and ladder 5.5 mtr with bases for ladder & post as per RDSO SPEC. NO. IRS:S-6-81 (or latest) and DRG. NO. SA-23156 (ADV), ALT-1 (OR LATEST). CLS base as per DRG. NO. S-2011/M (OR LATEST). Note: - this includes signal post, base, ladder, ladder base, platform, rail guard & blanking off. Materials to be procured only from RDSO approved list of firms for manufacture & supply of mechanical signalling items. 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." |          |               |           |             |          |             |                  |
|  | 4  | 36.00    | Numbers       | 19563.00  | 704268.00   | AT Par   | 704268.00   | Above/ Below/Par |

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|----|--|-------|---------|---------|-----------|--------|-----------|-------------------------|
| 4  | <b>Description:-</b> "Installation, erection and wiring of CLS unit (including post, base, ladder etc.), LED unit including paying out of tail cable from location box and Earthing of CLS [LED type]. This includes supply of CLS unit 2 aspect complete without lenses, lamps and signal transformer as per DRG.NO.SA 23001/A/ M/ADV.ALT-8 AND AS PER SPEC.NO.IRS/5-26/64. All drawings should be as per latest. Material to be procured from RDSO's approved firm only. Note: - signal unit should be compatible to 'LED' type. Note: - installation, erection & wiring of signalling unit includes led signal lightening unit including current regulator. this also includes protection of unit from rain water." (A) "Supply. 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." |       |         |         |           |        |           |                         |
| 5  | 5  | 36.00 | Numbers | 2088.00 | 75168.00  | AT Par | 75168.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "Installation, erection and wiring of CLS unit (including post, base, ladder etc.), LED unit including paying out of tail cable from location box and Earthing of CLS [LED type]. This includes supply of CLS unit 2 aspect complete without lenses, lamps and signal transformer as per DRG.NO.SA 23001/A/ M/ADV.ALT-8 AND AS PER SPEC.NO.IRS/5-26/64. All drawings should be as per latest. Material to be procured from RDSO's approved firm only. Note: - signal unit should be compatible to 'LED' type. Note: - installation, erection & wiring of signalling unit includes led signal lightening unit including current regulator. this also includes protection of unit from rain water." (B) Execution   |       |         |         |           |        |           |                         |
| 6  | 6  | 36.00 | Numbers | 550.00  | 19800.00  | AT Par | 19800.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply and installation of P/ C / G/ A/ AG marker (size 250mm dia circle) high intensity prismatic(TYPE-IV) retro reflective sheet over 2 mm thick aluminium sheet & letter will be screen printing (250 mm dia circle) as per drg. S&T/SDAH /SK-1383 and technical specification attached. This will include cost of all materials including fixing clamp required for this work. Inspection: - inspection by rites [for value of material above Rs. 5.0 lakhs.]. Inspection by consignee [for value of material below than Rs 5.0 lakh]   |       |         |         |           |        |           |                         |
| 7  | 7  | 36.00 | Numbers | 373.00  | 13428.00  | AT Par | 13428.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "Supply, Fabrication and Fixing of Retro reflective Nomenclature Board of size 254 mm x 358 mm made of 2mm thick aluminium sheet & high intensity prismatic (hip) grade retro reflective sheet (TYPE -IV) including fixing arrangement for fixing them on existing post per DRG. NO. S&T/SDAH /SK-1386 and as per standard practice. 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."   |       |         |         |           |        |           |                         |
| 8  | 8  | 36.00 | Numbers | 2513.00 | 90468.00  | AT Par | 90468.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "Supply of cast iron offset bracket for Main Signal with U clamps, nuts, washers complete DRG. NO. SA-23080/ADV/ALT-1. RDSO SPEC. NO. IRS-S-10/78. Inspection: consignee. Note : Offset bracket has to be connected wherever necessary as per site engineer."   |       |         |         |           |        |           |                         |
| 9  | 9  | 48.00 | Numbers | 8065.00 | 387120.00 | AT Par | 387120.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Casting, concreting & curing of foundation for Main signal including cost of all materials required for casting and concreting. All materials required for execution will be supplied by the contractor including cement, sand & stone chips as per DRG. NO. S&T/C-42(NKG).   |       |         |         |           |        |           |                         |
| 10 | 10   | 36.00 | Numbers | 8362.00 | 301032.00 | AT Par | 301032.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "Supply of LED signal lamps for Main colour light Signal, 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Specn. No.RDSO/SPN/199/2010(Rev.1) or latest. Inspection: RDSO" (A) RED Aspect   |       |         |         |           |        |           |                         |
| 11 | 11   | 60.00 | Numbers | 8387.00 | 503220.00 | AT Par | 503220.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "Supply of LED signal lamps for Main colour light Signal, 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Specn. No.RDSO/SPN/199/2010(Rev.1) or latest. Inspection: RDSO" (B) YELLOW Aspect  |       |         |         |           |        |           |                         |
| 12 | 12   | 36.00 | Numbers | 9438.00 | 339768.00 | AT Par | 339768.00 | Above/<br>Below/P<br>ar |

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|    | <b>Description:-</b> "Supply of LED signal lamps for Main colour light Signal, 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Specn. No.RDSO/SPN/199/2010(Rev.1) or latest. Inspection: RDSO" (C) GREEN Aspect  |       |         |          |           |        |           |                         |
| 13 | 13  | 36.00 | Numbers | 13916.00 | 500976.00 | AT Par | 500976.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply of full size apparatus case (GKP type) (as per DRAWING NO. SW SK NO. 4/90 & other applicable GKP SW Drawing). This includes supply of location box (GKP type) with 'E' type lock & key, fitted on location door on both side, 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. 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 O F FIRMS FOR MECHANICAL SIGNALLING ITEMS if value of whole item in work less than 5 lakhs or as per extant policy   |       |         |          |           |        |           |                         |
| 14 | 14  | 36.00 | Numbers | 3532.00  | 127152.00 | AT Par | 127152.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Casting, concreting and curing of concrete foundation ((in ratio 1:3:6), erection and installation of full size apparatus case (GKP type)/Stainless Steel (SS) Apparatus Case as per DRG.NO. S&T/C-6/98(NKG) with 'E' type lock on CC foundation. This includes cost of all materials required for fixing holding down bolts, casting, concreting. Note: - bolts, nuts and washers, bitumen compound to be supplied by contractor and bitumen compound to be used in between apparatus case and foundation as per site engineer. This also includes bottom of apparatus cases filled with sand and the outside covered with masonry work and neat cement plastering. Note: - Location boxes to painted with anti- corrosive paints as per IS:- 9862-1981, one and half feet from the bottom, on all surfaces- both inside and outside. Inspection: Consignee |       |         |          |           |        |           |                         |
| 15 | 15  | 36.00 | Numbers | 4830.00  | 173880.00 | AT Par | 173880.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Fixing by slotted angle, wiring of terminal strips, hylam strip, relays, fuses with base, fixing of hard wood shelves for full size apparatus case with termination & Earthing of cables and wiring with lettering as required including supply of slotted angles, wires, ferrules for marking and miscellaneous materials per location to be supplied by contractor. (all materials except relay, terminal strips, Bakelite strip, fuses with base and hard wood shelves to be supplied by the contractor). Wires to be used for this purpose should be procured from RDSO'S approved firm and to be inspected by RDSO. [Quantity of wires to be specified by contractor]. NB- power cable to be terminated with proper lugs and required buss bar and other terminals to be supplied by the contractor. Inspection: Consignee                              |       |         |          |           |        |           |                         |
| 16 | 16  | 96.00 | Numbers | 563.00   | 54048.00  | AT Par | 54048.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply of hard wood shelves thickness 25 mm for keeping equipment's and batteries in the location box (FULL or HALF GKP /other type) with suitable varnish and anti-termite chemicals fitted on angles with nuts & bolts. Inspection: -Consignee (note-balance quantity may be taken from rly store if available) . (A) 950 x 400 x 25 MM for full size location box .   |       |         |          |           |        |           |                         |
| 17 | 17  | 60.00 | Sqm     | 5370.00  | 322200.00 | AT Par | 322200.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply of paper base hylam sheet 12 mm thick. Inspection: consignee.   |       |         |          |           |        |           |                         |
| 18 | 18  | 60.00 | Numbers | 2782.00  | 166920.00 | AT Par | 166920.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Alteration/modification in the existing location boxes (full size), fixing of equipment's, cable insertion, termination, wiring, testing & commissioning, two coat painting, lettering to suit the circuits as per approved wiring diagrams. This includes filling with sand and plastering the same.  |       |         |          |           |        |           |                         |
| 19 | 19  | 36.00 | Numbers | 733.41   | 26402.76  | AT Par | 26402.76  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> MACLS COMPLETE WITH POST, BASE, LADDER STAGE ETC. THIS INCLUDES CALLING ON SIGNAL, SHUNT SIGNAL, JUNCTION TYPE ROUTE INDICATOR ETC.  |       |         |          |           |        |           |                         |
| 20 | 20  | 36.00 | Numbers | 485.52   | 17478.72  | AT Par | 17478.72  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> LOCATION BOX COMPLETE (FULL). BOTTON OF THE LOCATION BOX PAINT WITH BLACK(I FEET SARROUND). WRITTING OF THE LOCATION IN DETAILS AS LOCATION NO, PERTCULARS OF SIG. GEARS. ETC. IN BLACK PAINT AS PER INSTRUCTION OF SITE ENGINEER.   |       |         |          |           |        |           |                         |

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| 21 | 21   | 480.00   | Metre            | 762.00    | 365760.00   | AT Par | 365760.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply of Medium class GI pipes 100 mm dia {4.5 mm thickness} as per IS 1239 (Part 1}: 2004 or Latest with socket & coupling on culverts bridges 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.  |          |                  |           |             |        |             |                         |
| 22 | 22   | 480.00   | Metre            | 98.00     | 47040.00    | AT Par | 47040.00    | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Laying & Fixing of Medium class GI pipe 50/ 100 mm dia {4.5 mm thickness} as per IS 1239 {Part 1}: 2004 with socket & coupling on culverts bridges 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.   |          |                  |           |             |        |             |                         |
| 23 | 23   | 54.00    | Kilometre        | 286481.61 | 15470006.94 | AT Par | 15470006.94 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply of Underground, Armoured, Unscreened Railway signaling cable (Heavy Duty) with high conductivity copper conductor of size 12 Core X 1.5 sq mm as per Specn. No.IRS: S-63/2014 (Rev.4.0) with latest Amdt.if any. Inspection : RDSO   |          |                  |           |             |        |             |                         |
| 24 | 24   | 6.00     | Kilometre        | 306862.05 | 1841172.30  | AT Par | 1841172.30  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> UNDERGROUND RAILWAY JELLY FILLED TELECOM 6 QUAD CABLE 0.9 MM DIA FOR SIGNALLING AND TELECOM INSTALLATION CONFORMING TO SPECN.NO.IRS-TC-30/2005 VER-I WITH AMDT.- 5 OR LATEST. Inspection : RDSO   |          |                  |           |             |        |             |                         |
| 25 | 25   | 6000.00  | cum              | 245.00    | 1470000.00  | AT Par | 1470000.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> 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 without brick alongside the track in all kinds of soil, conforming to distances as per cable route plan and refilling. This work includes clearing of route from bushes etc. The work shall be done as per the extant practice on Eastern Railway and instructions of Railway Engineer at site. Note:-(a) for all trenches from distant signal to home signal and to relay room, the minimum headway above the uppermost cable in the trench should be 600mm. If due to a large no. Of cables headway is not available, 4" of 1:2:4 concreting should be done. Note:-(b-1) payment wif be made as per actual work done on pro-rata basis, if required depth is not available at site. (b-2) if the depth of trench is not uniform in a span of 100 mtr. Or shorter lengths if site condition demands along the cable run, minimum depth will be taken for that particular stretch for payment. |          |                  |           |             |        |             |                         |
| 26 | 26   | 60000.00 | Running<br>Metre | 5.00      | 300000.00   | AT Par | 300000.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> 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/hectometre 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.  |          |                  |           |             |        |             |                         |
| 27 | 27   | 480.00   | Metre            | 256.00    | 122880.00   | AT Par | 122880.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Repair of pucca roads to original state in level crossing area after cable laying.  |          |                  |           |             |        |             |                         |
| 28 | 28   | 480.00   | Metre            | 265.25    | 127320.00   | AT Par | 127320.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> RE-INSTATEMENT OF PLATFORM AND REPAIRING TO ORIGINAL STATE AFTER CABLE LAYING   |          |                  |           |             |        |             |                         |
| 29 | 29   | 600.00   | Metre            | 288.15    | 172890.00   | AT Par | 172890.00   | Above/<br>Below/P<br>ar |
|    |  |          |                  |           |             |        |             |                         |

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|----|--|---------|---------|-----------|------------|--------|------------|-------------------------|
|    | <b>Description:-</b> EXCAVATION OF TRENCH IN ALL KIND OF SOIL AND REFILLING OF TRENCH AND REINSTATEMENT OF TRACK WHILE TRACK CROSSING. CABLE SHALL BE LAID AT DEPTH OF 1.0 MTRS BELOW RAIL FLANGE WHILE TRACK CROSSING. CABLE WILL BE SUPPLIED BY THE RAILWAY. CABLE MAY BE LAID THROUGH GI PIPES UNDER THE TRENCH WHILE TRACK CROSSING IF NECESSARY . GI PIPE WILL BE SUPPLID BY THE RAILWAY.   |         |         |           |            |        |            |                         |
| 30 | 30   | 120.00  | cum     | 3596.00   | 431520.00  | AT Par | 431520.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> 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). Wherever depth of 0.5 m cable trench is not feasible, cable shall be protected as :- Preparation of cement mixture 1:3:6 with contractor's own materials and spreading cement concrete mixture layer of 100 mm thick over the already laid cables in the excavated trench.   |         |         |           |            |        |            |                         |
| 31 | 31   | 60.00   | Numbers | 1161.00   | 69660.00   | AT Par | 69660.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Fixing of earth electrode including laying and installation of MS flat of size 35 mm x 6 mm with length 5 mtr or as per extant practice of Eastern Railway. As per CSTE/ ER'S DRG. NO. SI/TYP/0097 DTD. 25.03.25 for apparatus cases, signal post & other equipment as per instruction of site engineer. Provision for fixing MS flat at apparatus cases/ signal post/other equipment should be made by the firm at site. Full threaded bolts of 10 mm dia and length 40 mm should be welded in the apparatus cases in such way that the MS flat at apparatus case end can be fixed from outside or from inside. Welding arrangement with accessories and welding materials should be arranged by the contractor for fixing of bolts at equipment end where required as per instruction of site engineer. All hardware and other miscellaneous materials required for installation to be supplied by the contractor except earth electrodes and MS flat. Note:-all materials required to be arranged by the contractor except 2 core cable & Earth Electrode will be supplied by the railway.   |         |         |           |            |        |            |                         |
| 32 | 32   | 60.00   | Numbers | 571.00    | 34260.00   | AT Par | 34260.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Provision of cement concrete enclosure for earth electrodes as per DRG. NO. S&T/C-36(NKG). This includes supply of all materials by the contractor duly inspected by consignee.   |         |         |           |            |        |            |                         |
| 33 | 33   | 6.00    | Set     | 449068.00 | 2694408.00 | AT Par | 2694408.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "Supply of Electrically Operated Lifting Barrier complete set suitable for 24V DC, supply with hand generator back up & motorized boom locking arrangements as per RDSO Spec. SPN/208/2012 with latest amendment. One set consisting of 2 nos. of lifting barrier pedestals, each with 8 contact circuit controller with top roller type limit switches, hand crank, 2 electric motors, 24vdc of capacity suitable to operate barriers upto 32' long booms, 2 nos. of steel octagonal booms of 32 feet length with 2 nos. Stop boards, boom light boxes, MS counter weights and 2 nos. of boom support with motorised boom locking but without fringes along with control panel with buttons and indicating lamps, motor connectors and MCB and hand generator (24VDC) to operate 2 barriers of 1 set. This includes supply and installation of gate hooter - 1 no and Dual Tone Bell /Buzzer with Flasher arrangement and 20 Watt horn working on 24 V DC/ 110 V AC- 1 no with all fixing arrangements. All of the above items including supply of nuts & bolts, foundation as required & supply of cement, civil work materials and etc. Shall be done by the contractor for commissioning. Only 230VAC supply shall be arranged by the railway in nearby relay room. The complete electric lifting barrier set shall confirm to RDSO SPEC NO. RDSO/SPN/208/2012 with latest amendment. Inspection - RDSO. along with Spares & tool kit mentioned in RDSO Spec. SPN/208/2012 clause 10.1 & 10.2 as below - Following spares shall be supplied alongwith each set (02 nos.) of Electric lifting barrier as per requirement of the purchaser i) Steel 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 Tool kit consisting of standard sizes of wrench / spanner and Allen keys should also be supplied with each set (02 nos.) of Electric Lifting barrier. Inspection: RDSO" |         |         |           |            |        |            |                         |
| 34 | 34   | 6000.00 | Numbers | 55.00     | 330000.00  | AT Par | 330000.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "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 signalling) 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." (A) "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)"   |         |         |           |            |        |            |                         |

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|    |   |         |         |           |            |        |            |                         |
|----|---|---------|---------|-----------|------------|--------|------------|-------------------------|
| 35 | 35  | 3000.00 | Numbers | 10.00     | 30000.00   | AT Par | 30000.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "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 signalling) 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." (B) Supply of End plate 2.5mm/0.091 in thick as per site requirement.  |         |         |           |            |        |            |                         |
| 36 | 36  | 3000.00 | Numbers | 10.00     | 30000.00   | AT Par | 30000.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "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 signalling) 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." (C) Supply of End Stopper 10mm/0.0394 in width as per site requirement.  |         |         |           |            |        |            |                         |
| 37 | 37  | 3000.00 | Metre   | 109.00    | 327000.00  | AT Par | 327000.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "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 signalling) 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." (D) Supply of Carrier Rails for above 35mm x 7.5mm, 1mm/0.039 in thickness un-slotted type as per site requirement.  |         |         |           |            |        |            |                         |
| 38 | 38  | 6000.00 | Numbers | 16.00     | 96000.00   | AT Par | 96000.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "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 signalling) 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." (E) Supply of Markers strip.   |         |         |           |            |        |            |                         |
| 39 | 39  | 6000.00 | Numbers | 56.00     | 336000.00  | AT Par | 336000.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "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 signalling) 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." (F) "Supply of Disconnect Terminal Block, screw less type, 2-wire front entry (One in-put & One out-put) The colour will be decided by Engineer- in - Charge. (Preferably In Blue, Red & Grey Colors in the ratio of 1:2:3)" |         |         |           |            |        |            |                         |
| 40 | 40  | 6000.00 | Numbers | 2.00      | 12000.00   | AT Par | 12000.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "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 signalling) 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." (G) Supply of shooting link (jumper) (part no - 283- 402 or similar) , suitable for 0.2 to 16 sqmm terminal block 283-901 or similar.  |         |         |           |            |        |            |                         |
|    | 41  | 6.00    | Numbers | 177112.00 | 1062672.00 | AT Par | 1062672.00 | Above/<br>Below/P<br>ar |
|    |   |         |         |           |            |        |            |                         |

# HOWRAH DIVISION-S AND T/EASTERN RLY TENDER DOCUMENT

**Tender No:** SDSTE-LCGATE-06NOs-26

**Closing Date/Time:** 06/07/2026 15:00

|    |  |        |         |          |           |        |           |                     |
|----|--|--------|---------|----------|-----------|--------|-----------|---------------------|
| 41 | <b>Description:-</b> "Supply of Micro Processor based Remote Terminal Unit (RTU) with 64 digital input & 16 analog input with DOT Matrix Printer,80 COL as per RDSO Spec. No. IRS (S) 99/2006 with Amdt. 3.0 or latest. It includes supply of all the items required for complete indoor relay room wiring from RTU to relay rack tag blocks, drawing/extension of power supply up to RTU. It includes supply of relay room door lock checking arrangement, commercial power supply monitoring arrangement & monitoring of DG sets, ELD (if installed), IPS, interlinking and networking of RTU. It also includes supply of leased line MODEM, suitable online UPS (minimum 6 hours' backup) and other interfacing cards, if required for networking of Data Logger. Note: (1) 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 of Railway Board/ RDSO/ Zonal Railway. (2) Exceptional reports are to be generated by a computer connected to datalogger at the station and at a central location in Control Room. Datalogger software should be able to generate exceptional reports for maintenance, safety and operations as per latest guidelines of Railway Board/ RDSO/ Zonal Railway. Datalogger to be installed at Site by OEM. Manufacturing date of RTU and printer should be of current year at the time of supply. Inspection: RDSO"  |        |         |          |           |        |           |                     |
| 42 | 42   | 6.00   | Numbers | 19811.00 | 118866.00 | AT Par | 118866.00 | Above/<br>Below/Par |
| 42 | <b>Description:-</b> Installation, wiring, testing & commissioning of Micro Processor based Remote Terminal Unit (RTU) with 64/128 digital input & 16 analog input as per RDSO Spec. No. IRS (S) 99/2006 with Amdt. 3.0 or latest. It covers complete indoor relay room wiring from RTU to relay rack tag blocks, drawing/extension of power supply up to RTU. It includes relay room door lock checking arrangement, commercial power supply monitoring arrangement & DG sets, ELD (if installed), IPS, interlinking and networking of RTU. 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.12.09.20 11 or latest guidelines of Railway Board/RDSO/ Zonal Railway. Networking of data logger includes extraction of data report from Control room. Exceptional reports are to be generated by a computer connected to datalogger at the station, EI Huts, LC Gates, AFTC Huts etc. and at a central location in Control Room. Datalogger software should be able to generate exceptional reports for maintenance, safety and operations as per latest guidelines of Railway Board/ RDSO/ Zonal Railway. Datalogger to be installed at Site by OEM. For networking, required communication channel (Quad/ OFC cable) will be arranged/provided by Rly in SM/ASM's room or in OFC/AUTO/ EI Huts/LC Gates etc. and it will be extended by contractor up to 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. Datalogger to be validated and commissioned before simulation test and put in network, validation statement should be jointly signed by railway engineer (open line), railway engineer (construction) & OEM'S engineer before simulation test with name, designation and date. Payment for this item will be released only after submission of duly signed pre-commissioning checklist of data logger in standard RDSO format, joint signature of validation statement. OEM'S engineer will also impart training to rly staff at site for proper functioning /working and applications of data logger. Inspection: Consignee. |        |         |          |           |        |           |                     |
| 43 | 43   | 6.00   | Numbers | 14507.00 | 87042.00  | AT Par | 87042.00  | Above/<br>Below/Par |
| 43 | <b>Description:-</b> Supply of embedded software for RTU to suit GSM/GPRS/4G or higher communication. Inspection By Consignee.   |        |         |          |           |        |           |                     |
| 44 | 44   | 6.00   | Numbers | 31915.00 | 191490.00 | AT Par | 191490.00 | Above/<br>Below/Par |
| 44 | <b>Description:-</b> Supply of GSM/ GPRS/4G or higher- modem for communication between RTU and CMU. Inspection by Consignee. Note: SIM with will be supplied by contractor initially for the 1st years in the name of Railway Supervisor, thereafter will be supplied by the Purchaser.  |        |         |          |           |        |           |                     |
| 45 | 45   | 6.00   | Numbers | 3628.00  | 21768.00  | AT Par | 21768.00  | Above/<br>Below/Par |
| 45 | <b>Description:-</b> Supply of wireless modem adapter card. Inspection By Consignee.   |        |         |          |           |        |           |                     |
| 46 | 46   | 6.00   | Numbers | 20166.00 | 120996.00 | AT Par | 120996.00 | Above/<br>Below/Par |
| 46 | <b>Description:-</b> Testing commissioning of total system including local report system, firewall, static IP to bring DATA of RTUs through GPRS to CMU  |        |         |          |           |        |           |                     |
| 47 | 47   | 120.00 | Numbers | 3769.00  | 452280.00 | AT Par | 452280.00 | Above/<br>Below/Par |
| 47 |  |        |         |          |           |        |           |                     |

**HOWRAH DIVISION-S AND T/EASTERN RLY  
TENDER DOCUMENT**

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|    |  |        |         |          |           |        |           |                         |
|----|--|--------|---------|----------|-----------|--------|-----------|-------------------------|
|    | <b>Description:-</b> 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 with Amdt. upto date or latest. The interlocking code for this unit shall be "ABCDE". Inspection authority:- RDSO  |        |         |          |           |        |           |                         |
| 48 | 48   | 120.00 | Numbers | 3737.00  | 448440.00 | AT Par | 448440.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> 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 with Amdt. upto date as applicable or latest. The interlocking code for this unit shall be "ABCDF". Inspection authority:- RDSO   |        |         |          |           |        |           |                         |
| 49 | 49   | 120.00 | Numbers | 4819.00  | 578280.00 | AT Par | 578280.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> 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   |        |         |          |           |        |           |                         |
| 50 | 50   | 120.00 | Numbers | 4856.00  | 582720.00 | AT Par | 582720.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> 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 "ACE HJ". Inspection authority:- RDSO  |        |         |          |           |        |           |                         |
| 51 | 51   | 60.00  | Numbers | 5718.00  | 343080.00 | AT Par | 343080.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> 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 with Amdt. upto date as applicable or latest. The interlocking code for this unit shall be "ABDEG". Inspection authority:- RDSO  |        |         |          |           |        |           |                         |
| 52 | 52   | 60.00  | Numbers | 4912.00  | 294720.00 | AT Par | 294720.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> 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:94 1A STS/E/RELAYS/AC LIT LED SIGNAL/09-2002, Amdt. -1 and RDSO Specn.No.IRS: S-34 & S-23 with Amdt. upto date as applicable or latest. The interlocking code for this unit shall be "ABDHK".Inspection authority:- RDSO  |        |         |          |           |        |           |                         |
| 53 | 53   | 600.00 | Numbers | 391.00   | 234600.00 | AT Par | 234600.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Fixing of Q series relay base plate/metal to metal relay mini group and major group base plate, laying, bunching, lacing, dressing & packeting of 60/40 core PVC indoor cable/flexible wire and termination of 60/40 core cable/flexible wire on tag block/base plate & base plates & soldering. This includes fuse wiring, bus bar looping etc. required for keeping installation ready for circuit wiring work & panel throughing work. The work shall be done as per approved plan, extant practice on ER & the instruction of Rly. Engineer at site. Inspection authority:- Consignee |        |         |          |           |        |           |                         |
| 54 | 54   | 60.00  | Numbers | 5230.00  | 313800.00 | AT Par | 313800.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "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 - 34, S- 23 & S 60 with amdt. upto date as applicable or latest. The interlocking code for this unit shall be ""ABDEJ"". Inspection authority:- RDSO"   |        |         |          |           |        |           |                         |
| 55 | 55   | 60.00  | Numbers | 6532.00  | 391920.00 | AT Par | 391920.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Key Lock Relays (KLCR), 24 V DC, 2F/2B as per RDSO No. IRS:S-46, S-34 & S-23 or latest.Details of ward plates KLCR of all wards manufactured by firm except I and X preferably in equal number are required. Firm shall supply 2 nos. of ward plates extra with each relay in the metallic enclosure. Inspection authority: - For bare relay -RDSO, for key lock housing- consignee   |        |         |          |           |        |           |                         |
|    | 56   | 12.00  | Numbers | 25535.00 | 306420.00 | AT Par | 306420.00 | Above/<br>Below/P<br>ar |



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|    |  |        |         |          |           |        |           |                     |
|----|--|--------|---------|----------|-----------|--------|-----------|---------------------|
| 56 | <b>Description:-</b> "Installation and wiring of relay rack as per DRG.NO.S&T/C-20/2001 with modification vide CSTE/ER'S LETTER NO.SG.42/9, DT.15/3/2016. Supply and fixing of fuses with base, diodes; resistances; condensers, terminal strips / tag blocks, bus bars & other equipment's required for the approved system design complete with scaffolding materials & required hardware & erection materials to accommodate 100 relays (station wise quantity to be specified by the tenderer). PVC wire as per RDSO SPEC.IRS-S-76/89, AMD-2 or latest (for wiring of relay rack) shall be supplied by the contractor, duly inspected by RDSO. This includes supply of relay rack to accommodate 100 relays complete with fittings as per DRG.NO.S&T/C-20/2001. Note: - this includes status of relay to be indicated through led indication at the top of relay rack and in this connection all the required materials to be supplied by the contractor. Rack to be fixed on rubber pad." (A) Supply. 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. |        |         |          |           |        |           |                     |
| 57 | 57   | 12.00  | Numbers | 83032.00 | 996384.00 | AT Par | 996384.00 | Above/<br>Below/Par |
|    | <b>Description:-</b> "Installation and wiring of relay rack as per DRG.NO.S&T/C-20/2001 with modification vide CSTE/ER'S LETTER NO.SG.42/9, DT.15/3/2016. Supply and fixing of fuses with base, diodes; resistances; condensers, terminal strips / tag blocks, bus bars & other equipment's required for the approved system design complete with scaffolding materials & required hardware & erection materials to accommodate 100 relays (station wise quantity to be specified by the tenderer). PVC wire as per RDSO SPEC.IRS-S-76/89, AMD-2 or latest (for wiring of relay rack) shall be supplied by the contractor, duly inspected by RDSO. This includes supply of relay rack to accommodate 100 relays complete with fittings as per DRG.NO.S&T/C-20/2001. Note: - this includes status of relay to be indicated through led indication at the top of relay rack and in this connection all the required materials to be supplied by the contractor. Rack to be fixed on rubber pad." (B) Execution.  |        |         |          |           |        |           |                     |
| 58 | 58   | 6.00   | Numbers | 44924.00 | 269544.00 | AT Par | 269544.00 | Above/<br>Below/Par |
|    | <b>Description:-</b> Installation of cable termination rack with scaffolding materials ladder for supporting outdoor cable; wire guide complete with other necessary hardware as per requirements of rly. & erection materials. Wires to be procured from RDSO's approved firm only. This includes supply of cable termination rack as per DRG.NO. S&T/C- 17/2001 OR latest with screw less disconnect type connectors (Wago/ Phoenix/Similar) , scaffolding materials, ladder for supporting outdoor cable, wire guide, NDT fuse complete with other necessary hardware as per requirements of railway & erection materials. (A) Supply. 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.  |        |         |          |           |        |           |                     |
| 59 | 59   | 6.00   | Numbers | 5790.00  | 34740.00  | AT Par | 34740.00  | Above/<br>Below/Par |
|    | <b>Description:-</b> Installation of cable termination rack with scaffolding materials ladder for supporting outdoor cable; wire guide complete with other necessary hardware as per requirements of rly. & erection materials. Wires to be procured from RDSO's approved firm only. This includes supply of cable termination rack as per DRG.NO. S&T/C- 17/2001 OR latest with screw less disconnect type connectors (Wago/ Phoenix/Similar) , scaffolding materials, ladder for supporting outdoor cable, wire guide, NDT fuse complete with other necessary hardware as per requirements of railway & erection materials. (B) Execution.   |        |         |          |           |        |           |                     |
| 60 | 60   | 300.00 | Numbers | 78.00    | 23400.00  | AT Par | 23400.00  | Above/<br>Below/Par |
|    | <b>Description:-</b> Supply of PBT ARA terminal as per IRS SPECN.NO. IRS: S-75-2006(REV-2) OR LATEST. Material to be procured from RDSO's approved firm only. Inspection: RDSO. (A) 1 WAY,DRG NO.23741A, ALT-4.  |        |         |          |           |        |           |                     |
| 61 | 61   | 300.00 | Numbers | 485.00   | 145500.00 | AT Par | 145500.00 | Above/<br>Below/Par |
|    | <b>Description:-</b> Supply of PBT ARA terminal as per IRS SPECN.NO. IRS: S-75-2006(REV-2) OR LATEST. Material to be procured from RDSO's approved firm only. Inspection: RDSO. (B) 6 WAY, DRG.NO. 23756, ALT-3.   |        |         |          |           |        |           |                     |
| 62 | 62   | 300.00 | Numbers | 61.00    | 18300.00  | AT Par | 18300.00  | Above/<br>Below/Par |
|    | <b>Description:-</b> Supply of fuse block (PBT) to spec.no.IRS-S- 75/2006(REV-2) OR LATEST, DRG.NO.SA-23748 with fuse inserts cartridge, non- deteriorating type to spec.IRS-S-78/92 with latest amendment, to be mounted inside the location box on hylum sheet. Inspection: - RDSO. (A) Fuse, non-deteriorating(2A/6A/10A/16A) type, cylindrical(IRS-S-78/92) [quantity as per site requirement]   |        |         |          |           |        |           |                     |
|    | 63   | 300.00 | Numbers | 178.00   | 53400.00  | AT Par | 53400.00  | Above/<br>Below/Par |

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|    |   |        |         |                |            |        |            |                         |
|----|---|--------|---------|----------------|------------|--------|------------|-------------------------|
| 63 | <b>Description:-</b> Supply of fuse block (PBT) to spec.no.IRS-S- 75/2006(REV-2) OR LATEST, DRG.NO.SA-23748 with fuse inserts cartridge, non- deteriorating type to spec.IRS-S-78/92 with latest amendment, to be mounted inside the location box on hylum sheet. Inspection: - RDSO. (B) Fuse Base.  |        |         |                |            |        |            |                         |
| 64 | 64  | 300.00 | Numbers | 65.00          | 19500.00   | AT Par | 19500.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "Supply of indicating type fuse inserts with holder (material will be supplied only from approved vendors of RDSO) as per IRS S:78/92 or Latest. Inspection: Consignee" (A) 0.6 A  |        |         |                |            |        |            |                         |
| 65 | 65  | 300.00 | Numbers | 68.00          | 20400.00   | AT Par | 20400.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "Supply of indicating type fuse inserts with holder (material will be supplied only from approved vendors of RDSO) as per IRS S:78/92 or Latest. Inspection: Consignee" (B) 1.6 A  |        |         |                |            |        |            |                         |
| 66 | 66  | 6.00   | Numbers | 1087464.0<br>0 | 6524784.00 | AT Par | 6524784.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply, Installation and Commissioning of SMPS based Integrated power supply (IPS) system as per RDSO Spec. No. RDSO/ SPN/165/2012 (Ver.3. 0) with latest amendment if any and also as per Sketch No. SDO/IPS/ SMPS/4L RE-002 or Latest along with 200AH Low maintenance lead acid cell as per E. Rly. Practice. Inspection: RDSO  |        |         |                |            |        |            |                         |
| 67 | 67  | 6.00   | Numbers | 107712.00      | 646272.00  | AT Par | 646272.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply of active lightning arrestor of class A for building protection as per standard NFC 17-102. It shall work on early streamer emission principle and shall be made of stainless steel with a T of 60 micro second. The dimension of the device shall be 590 mm x 120 mm or more. The provision shall be there to test this device if necessary by an external tester. A non- resettable type counter shall also be supplied to count number of lightening occurrences along with required copper tape for connecting the device with earth pit. Inspection: Consignee   |        |         |                |            |        |            |                         |
| 68 | 68  | 6.00   | Job     | 7170.00        | 43020.00   | AT Par | 43020.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply and erection of a mast / high mast suitable for ESE technology based lightning protection installation, mechanically robust good corrosion and fire resistance, 5 mtr. (including 2 mtr FRP) long GI/MS painted along with guying kit foundation and other accessories required for installation of mast. Supply material inspection by consignee.  |        |         |                |            |        |            |                         |
| 69 | 69  | 480.00 | Metre   | 1362.00        | 653760.00  | AT Par | 653760.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply and laying of 70 sq.mm PVC insulated flexible tinned electrolytic copper down conductor placed in a metallic / PVC protective covering wherever exposed to human intervention including saddles and all accessories as required. Supply material inspection by consignee.   |        |         |                |            |        |            |                         |
| 70 | 70  | 6.00   | Job     | 44808.00       | 268848.00  | AT Par | 268848.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply & fixing of equipotential earth bonding unit between electrical & equipment Earthing in a explosion proof IP68 enclosure with inspection chamber for equipotential bonding during a surge. Supply material inspection by consignee.   |        |         |                |            |        |            |                         |
| 71 | 71  | 480.00 | Metre   | 1377.00        | 660960.00  | AT Par | 660960.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply & laying of 25x3 mm pure electrolytic copper tape through suitable CLASS-'B' GI pipe for loop Earthing and bonding as per site requirement. Supply material inspection by consignee.  |        |         |                |            |        |            |                         |
| 72 | 72  | 6.00   | Set     | 18244.00       | 109464.00  | AT Par | 109464.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Installation of class A device on the top of the building: the device shall be installed at a height of about of about 3 mtrs. From the roof of the building using a GI mast. The device shall be connected to earth pit using the copper tape of 25 mm x 2 mm or better. This copper tape shall be run firmly along the side of the mast with help of spacers. It shall also be ensured that this down conductor shall not touch the building throughout. The down conductor should be connected to earth electrode using exothermic welding or better. A counter shall be installed at a appropriate place to count number of occurrences. |        |         |                |            |        |            |                         |

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TENDER DOCUMENT**

**Tender No:** SDSTE-LCGATE-06NOs-26

**Closing Date/Time:** 06/07/2026 15:00

|    |   |       |                                |           |             |        |             |                         |
|----|---|-------|--------------------------------|-----------|-------------|--------|-------------|-------------------------|
| 73 | 73  | 36.00 | Per<br>Detection<br>Point (DP) | 342558.00 | 12332088.00 | AT Par | 12332088.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply, Transportation, Installation, Testing and Commissioning of Multi Section Digital Axle Counter (MSDAC) for mentioned detection Point by the purchaser & Track Section as per SIP uploaded with the tender, complete with all accessories, cable required with each track device & Card viz., Axle Detectors, Track Side Electronics/ DAC field units, Central Evaluator (Central Evaluator unit should be housed in a pre-fabricated Rack to be supplied along with the system), Reset unit, Relay unit, Event logger & Diagnostic terminals etc. required for different Detection Points & Track Sections as per RDSO Specification No. RDSO/SPN/176/2013, Ver.3 or latest as per Annexure-070801(A, B & C.)   |       |                                |           |             |        |             |                         |
| 74 | 74  | 36.00 | Per<br>Detection<br>Point (DP) | 7718.00   | 277848.00   | AT Par | 277848.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "Installation testing and commissioning of detection points as above as per RDSO specification no. RDSO/SPN/176/2013 (ver-3) or latest. This include installation, wiring, testing and commissioning of complete MSDAC system which includes track circuit electronics and its all accessories (track electronics unit, central evaluator and its accessories /interface device, if any. All the tools and plants for installation has to be arranged by the contractor. Wiring from cable termination rack to the central evaluator, installation of earth electrode (if required will be supplied by Railway), installation and wiring the reset box and wiring the power supply to the central evaluator including the supply of 2 core shielded cable for required size copper conductor as per IRS-S-76/89 OR IS:694/1977(or latest) as applicable with other accessories. Note- i: - all execution /installation materials as required to be supplied by the contractor. Note- ii: - (i) installation, testing and commissioning of MSDAC to be done by OEM'S engineer. (ii) pre- commissioning checklist issued by RDSO for MSDAC will be prepared by OEM's engineer and to be signed jointly with rly site engineer incharge (iii) payment for this item will be released only after submission of duly signed pre- commissioning checklist of MSDAC in standard RDSO format. (iv) OEM'S engineer will also impart training to rly staff at site for proper functioning /working and applications of MSDAC. Inspection: Consignee" |       |                                |           |             |        |             |                         |
| 75 | 75  | 12.00 | Set                            | 1708.00   | 20496.00    | AT Par | 20496.00    | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> 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  |       |                                |           |             |        |             |                         |
| 76 | 76  | 6.00  | Set                            | 5417.00   | 32502.00    | AT Par | 32502.00    | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> 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  |       |                                |           |             |        |             |                         |
| 77 | 77  | 6.00  | Numbers                        | 21899.00  | 131394.00   | AT Par | 131394.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "Supply, installation and commissioning of ELB opening ,closing and emergency key operation system as per CSTE/ ER'S Typical circuit diagram No-S.I./TYP/ 0062 Which requires i) Rugged 'NO' press switch(Green) - INo ii) Rugged 'NO' press switch (Red)- INo iii) Robust type rotary switch similar to P.I. SM'S key-1 No. iv) Veeder counter to record the count of emergency key operation- INo v)Superior quality 24VDC pizo buzzer-1 No vi)Good quality 10 mm LED Green- INo vii)Good quality 10mm LED Red-1 No viii)Good quality 10mm LED yellow-4 No ix)Robust Indication Board with white hylam sheet top (approx dimension 8"x12"x2")- INo. x)good quality 6"x6" box with transparent cover with locking and sealing arrangement to accomodate emergency rotary switch and veeder counter. Note -contactor has to provide all other items require like flexible wire 16/0.2sq mm for wiring ,casing, capping etc require for installation with one spare for each item from item number -i to viii).Inspection -Consignee."  |       |                                |           |             |        |             |                         |
| 78 | 78  | 6.00  | Numbers                        | 15976.00  | 95856.00    | AT Par | 95856.00    | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply and installation of LED type table mounting gate control-cum-indication panel of required size as per site engineer and as per signalling plan including supply of wooden table (hard wood) of standard height for mounting of panel, cable entry in panel with 50 mm dia gallant. Note- gate panel should have button operation for gate close & open instead of switch. The switch for signal operation preferably should have 2NC/2RC contact. Make-Deltron or similar. Inspection- Consignee.   |       |                                |           |             |        |             |                         |
|    | 79  | 6.00  | Numbers                        | 197415.00 | 1184490.00  | AT Par | 1184490.00  | Above/<br>Below/P<br>ar |
|    |   |       |                                |           |             |        |             |                         |

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|    |  |       |         |          |           |        |           |                         |
|----|--|-------|---------|----------|-----------|--------|-----------|-------------------------|
| 79 | <b>Description:-</b> "Supply of sliding boom gate as per eastern railway signal workshop / Howrah's drawing no. BSA/29/730, BSA/29/731 & BSA/29/737 or Latest. This includes supply of 8 nos. E-type lock with key as per IRS SPEC. NO. IRS-5-30/64 with latest amendment. Key lock 'e' type as per drawing no. SA-3376/ M, 3377/M with latest amendment or Latest. Ward no. To be decided by the site engineer. 'E' type lock to be on MS plate as mentioned in the drawing. Inspection: by rites [for value of material above Rs. 5.0 lakhs.]. Inspection by consignee [for value of material below than Rs 5.0 lakh]"                                 |       |         |          |           |        |           |                         |
| 80 | 80   | 6.00  | Numbers | 53129.00 | 318774.00 | AT Par | 318774.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "Casting, concreting & curing of foundation (1:3:6) for sliding boom gate as per drawing no. SGW- SDAH /SLIDING GATE FOUNDATION/ 2012 or Latest including supply & fixing of holding down bolts with washers and nuts, MS plates of size 350x350x8 mm, cement, sand, stone chips etc. For foundations required in each set of gate."  |       |         |          |           |        |           |                         |
| 81 | 81   | 6.00  | Numbers | 7032.00  | 42192.00  | AT Par | 42192.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Installation & commissioning of sliding boom gate. This includes levelling, fixing of sliding boom with fixing of E-type lock, etc. Note : all materials to be supplied by the contractor except sliding boom gate and E-type lock.   |       |         |          |           |        |           |                         |
| 82 | 82   | 6.00  | Numbers | 7044.00  | 42264.00  | AT Par | 42264.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Installation, wiring and testing of electrical key transmitter for LC gate control as per yard diagram, approved circuit diagram. Installation portion shall include supply of necessary angles, wooden shelf, nuts & bolts as required for the work. The ward no. Of key shall be advised by the site engineer. This includes supply of electrical key transmitter with key for LC gate control as per yard diagram, approved circuit diagram and specn.no. IRS-S-21/01(LATEST) AND IRS-S- 23(LATEST), DRG.NO.SA-22601 (ADV)ALT.2. [key combination will be intimated by site engineer] (A) Supply. Inspection : RDSO.             |       |         |          |           |        |           |                         |
| 83 | 83   | 6.00  | Numbers | 6672.00  | 40032.00  | AT Par | 40032.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Installation, wiring and testing of electrical key transmitter for LC gate control as per yard diagram, approved circuit diagram. Installation portion shall include supply of necessary angles, wooden shelf, nuts & bolts as required for the work. The ward no. Of key shall be advised by the site engineer. This includes supply of electrical key transmitter with key for LC gate control as per yard diagram, approved circuit diagram and specn.no. IRS-S-21/01(LATEST) AND IRS-S- 23(LATEST), DRG.NO.SA-22601 (ADV)ALT.2. [key combination will be intimated by site engineer] (B) Execution.                             |       |         |          |           |        |           |                         |
| 84 | 84   | 12.00 | Numbers | 195.00   | 2340.00   | AT Par | 2340.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Installation of magneto / control telephone, annunciator with all accessories and dry cells (2 nos.) For each phone with wooden battery box. This includes supply of magneto telephones with all accessories including supply of 2 nos. Dry cell for each telephone with wooden battery box. (i) SPEC.FOR magneto telephone IRS-TC- 79/2000.AMD-1 OR LATEST. (A) Execution.   |       |         |          |           |        |           |                         |
| 85 | 85   | 12.00 | Numbers | 3509.00  | 42108.00  | AT Par | 42108.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Installation of magneto / control telephone, annunciator with all accessories and dry cells (2 nos.) For each phone with wooden battery box. This includes supply of magneto telephones with all accessories including supply of 2 nos. Dry cell for each telephone with wooden battery box. (i) SPEC.FOR magneto telephone IRS-TC- 79/2000.AMD-1 OR LATEST. (B) Supply of magneto telephone, desk type, spec. No IRS-TC-79/ 2000 AMDT. 1 or latest. Inspection: by consignee   |       |         |          |           |        |           |                         |
| 86 | 86   | 6.00  | Lot     | 6538.00  | 39228.00  | AT Par | 39228.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Painting two coats of enamel paint over one coat of Red Oxide primer on the following items after scrapping and cleaning of the surface wherever necessary. Primer and Paints both of any reputed make are to be supplied by Contractor. The work shall be done as per instructions of rly engineer at site and extant practice on E Rly on location boxes, signal posts, TLJB. This includes lettering/ Numbering of signals, TLJB & Block joints if any, apparatus Cases, gate booms , etc , Description writing , legibly and neatly inside location boxes , relay hut, gate lodge etc. - for LC Gate. Inspection: by Consignee. |       |         |          |           |        |           |                         |
| 87 | 87   | 12.00 | Numbers | 4867.00  | 58404.00  | AT Par | 58404.00  | Above/<br>Below/P<br>ar |

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|----|---|--------|---------|-----------|------------|--------|------------|-------------------------|
|    | <b>Description:-</b> C.I. foundation 'A' type with hole SPEC.IRS-S- 10/78 (LATEST). Inspection - Consignee.   |        |         |           |            |        |            |                         |
| 88 | 88  | 12.00  | Numbers | 1702.00   | 20424.00   | AT Par | 20424.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> C.I. foundation 'B' type with hole SPEC.IRS-S- 10/78 (LATEST). Inspection - Consignee.   |        |         |           |            |        |            |                         |
| 89 | 89  | 24.00  | Numbers | 2639.00   | 63336.00   | AT Par | 63336.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Casting of A/B type foundation for fixing adjustment arc lever, accommodating crank etc. With supply of cement, sand and ballast.  |        |         |           |            |        |            |                         |
| 90 | 90  | 24.00  | Numbers | 1107.00   | 26568.00   | AT Par | 26568.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply of KEY LOCK 'E' type to Drg. No. SA- 3376/M (IRS} Alt.-2 (with latest Alt if any) and KEY to Drg. No. S-3377/ M (IRS) to ward No. 17 and RDSO specification No. IRS: S- 30/64 (with Amdt. up to date if any). Inspection: RDSO.   |        |         |           |            |        |            |                         |
| 91 | 91  | 6.00   | Numbers | 70159.00  | 420954.00  | AT Par | 420954.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply, Installation, Testing & 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 numbers of loop as per RDSO Specification No. RDSO/SPN/217/2025 Version No. 3.1 or latest. Each loop shall have capacity of 127 analogue addressable devices in 1 loop, the panel shall have sufficient No. of programmable relay control for controlling AHU's, pressurization 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. |        |         |           |            |        |            |                         |
| 92 | 92  | 24.00  | Numbers | 3364.00   | 80736.00   | AT Par | 80736.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply, Installation, Testing & Commissioning 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 a unique address for communication and be assigned through a panel with mounting base as required with the protection category of IP 40. All items as per RDSO Specification No. RDSO/SPN/217/2025 Version No.3.1 or latest. Inspection: RDSO.   |        |         |           |            |        |            |                         |
| 93 | 93  | 12.00  | Numbers | 3995.00   | 47940.00   | AT Par | 47940.00   | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply, Installation, Testing & 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/217/2025 Version No.3.1 or latest. Inspection: RDSO.   |        |         |           |            |        |            |                         |
| 94 | 94  | 30.00  | Set     | 185877.00 | 5576310.00 | AT Par | 5576310.00 | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> "Supply, Installation, testing and commissioning of single channel laser or High-power LED based Aspiration detection unit with area covering 5000 sq. ft. with programmable 4 stage alarm generation and with 4 addressable modules. It should have an auto cleaning facility in the 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 backup. Approval-UL/LPCB/VDS listed and shall comply with Specification No. RDSO/SPN/217/2025 Ver.-3 or latest. Spares cost is also included & to be supplied as per RDSO para no. 4.15. Inspection: RDSO. "  |        |         |           |            |        |            |                         |
| 95 | 95  | 900.00 | Metre   | 379.00    | 341100.00  | AT Par | 341100.00  | Above/<br>Below/P<br>ar |
|    | <b>Description:-</b> Supply, Installation, Testing & Commissioning of UL/LPCB/VDS listed CPVC Pipe with suitable diameter as per requirements & pipe accessories for the Aspiration detection shall comply with RDSO/SPN/217/2025 Ver.3 or latest. Spares cost is also included & to be supplied as per RDSO para no. 4.15. Inspection: RDSO.   |        |         |           |            |        |            |                         |

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| 96  | 96  | 12.00  | Numbers | 8963.00  | 107556.00  | AT Par | 107556.00  | Above/<br>Below/P<br>ar |
|     | <b>Description:-</b> Supply, Installation, Testing & 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/217/2025 Version No.3.1 or latest. Inspection: RDSO.   |        |         |          |            |        |            |                         |
| 97  | 97  | 900.00 | Metre   | 125.00   | 112500.00  | AT Par | 112500.00  | Above/<br>Below/P<br>ar |
|     | <b>Description:-</b> Supply, Installation, Testing & Commissioning of FRLS unarmoured/armoured cable (2C x 1.5 sq. mm.) with all accessories for connection of all Fire Alarm devices as per RDSO Specification No. RDSO/SPN/217/2025 Version No. 3.1or latest. Inspection: RDSO.   |        |         |          |            |        |            |                         |
| 98  | 98  | 6.00   | Numbers | 28766.00 | 172596.00  | AT Par | 172596.00  | Above/<br>Below/P<br>ar |
|     | <b>Description:-</b> Supply Installation & Commissioning of Layer 2 Manageable, 24 Port POE, 24 GE10/100/1000 Base X Ethernet port with POE+ support and 4x1GE SFP Port for uplink with 4 no of 1GE SFP modules loaded, with all accessories as per RDSO/SPN/TC/83/2020, Rev.2.0 or latest. Inspection: Consignee.  |        |         |          |            |        |            |                         |
| 99  | 99  | 6.00   | Numbers | 2254.00  | 13524.00   | AT Par | 13524.00   | Above/<br>Below/P<br>ar |
|     | <b>Description:-</b> Supply of RS232 Serial communication to Optical fiber media converters as per RDSO Spec. No. IRS (S) 99/2006 (Amdt.3) or latest. Inspection: Consignee.  |        |         |          |            |        |            |                         |
| 100 | 100   | 900.00 | Metre   | 25.00    | 22500.00   | AT Par | 22500.00   | Above/<br>Below/P<br>ar |
|     | <b>Description:-</b> Supply of FR CAT-6 UTP Cable suitable for 10BASE-T/100BASETX/and 1000BASE-T(Gigabit Ethernet). Make: DLINK/AMP/Avaya/Krone/Bestnet/Aambernet. Inspection: Consignee.   |        |         |          |            |        |            |                         |
| 101 | 101   | 900.00 | Metre   | 19.00    | 17100.00   | AT Par | 17100.00   | Above/<br>Below/P<br>ar |
|     | <b>Description:-</b> Laying of STP/UTP CAT-6/Power Cable/LS cable through flexible PVC Conduit Pipe/GI Pipe/HDPE Pipe (where necessary) as per direction of the Rly. Representative, including any fixing of cables/PVC pipe/PVC Casing on wall/shed with suitable clamps (the clamps and screws should be made of Stainless steel). All the fixing materials including Collar, bend, junction etc. shall be supplied by the contractor. This also includes transportation of cable, PVC Pipe, GI Pipe, HDPE Pipe etc. to the site. |        |         |          |            |        |            |                         |
| 102 | 102   | 18.00  | Numbers | 3884.00  | 69912.00   | AT Par | 69912.00   | Above/<br>Below/P<br>ar |
|     | <b>Description:-</b> Supply of 10 Meters LC to LC Outdoor Armored Fiber Patch Cable, Single Mode Fiber Optic Cable Jumper Optical Patch Cord, Simplex, 9/125um, (OS1/OS2 Compatible), Low Friction LSZH Black. Inspection: Consignee.   |        |         |          |            |        |            |                         |
| 103 | 103   | 24.00  | Job     | 53099.67 | 1274392.08 | AT Par | 1274392.08 | Above/<br>Below/P<br>ar |
|     | <b>Description:-</b> Installation Testing & Commissioning of Fire Detection system & Accessories.   |        |         |          |            |        |            |                         |
| 104 | 104   | 12.00  | Numbers | 5176.00  | 62112.00   | AT Par | 62112.00   | Above/<br>Below/P<br>ar |
|     | <b>Description:-</b> 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  |        |         |          |            |        |            |                         |
| 105 | 105   | 12.00  | Numbers | 2185.00  | 26220.00   | AT Par | 26220.00   | Above/<br>Below/P<br>ar |
|     | <b>Description:-</b> 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 Amdt.  |        |         |          |            |        |            |                         |
|     | 106   | 12.00  | Numbers | 956.00   | 11472.00   | AT Par | 11472.00   | Above/<br>Below/P<br>ar |
|     |   |        |         |          |            |        |            |                         |

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| 106 | <b>Description:-</b> 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 joining the cable through test such as insulation test, continuity cable losses etc. to be carried out jointly with Railway Engineer. If any defect or any damage is observed during jointing, the contractor has to redo the joint free of cost.  |        |                   |                |             |        |             |                         |
|     | 107   | 300.00 | Metre             | 1804.00        | 541200.00   | AT Par | 541200.00   | Above/<br>Below/P<br>ar |
| 107 | <b>Description:-</b> Transportation of HDT machine with accessories including handling of stores materials, preparation of sites and boring for placing of 110 mm dia HDPE PIPE for crossing of S&T cables together a bridges/ culvers, pucca road/crossing, boring trench shall be minimum 3 (three) meter below the river bed and 1(one) meter below the track/road/pucca road crossing area. This includes supply of accessories for HDPE pipes, including, cost of fuel and all other items etc. which will be required for laying of cable through it.the work shall be executed as per instruction of site engineer.HDPE PIPE TO BE SUPPLIED AS PER RDSO SPEC. 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. (A) Boring up to the length of 150 meters. Preparation of site for Horizontal Boring shall be carried out in presence of Railway Representative.   |        |                   |                |             |        |             |                         |
| 108 | 108   | 240.00 | Metre             | 8.00           | 1920.00     | AT Par | 1920.00     | Above/<br>Below/P<br>ar |
|     | <b>Description:-</b> Laying of 6 quad/Signalling cable/ Power Cable with nylon rope through 110 mm HDPE pipe and back filling of boring pit.  |        |                   |                |             |        |             |                         |
|     | 109   | 12.00  | Lot               | 15147.00       | 181764.00   | AT Par | 181764.00   | Above/<br>Below/P<br>ar |
| 109 | <b>Description:-</b> Supply of basic material to construct unit maintenance free earth as per RDSO Specs. No RDSO/SPN/197 Ver.1.0 or latest and conforming to RDSO Drg. No. SDO / RDSO/ E&B/001 or Latest. Necessary testing certificate of UL, IEC to be produced. 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. (c) 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   |        |                   |                |             |        |             |                         |
|     | 110   | 12.00  | Set               | 6579.00        | 78948.00    | AT Par | 78948.00    | Above/<br>Below/P<br>ar |
| 110 | <b>Description:-</b> Installation of Unit Maintenance Free Earth as supplied in above item. 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 bus bars 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 bus bar, copper strips of 150 mm x 25 mm x 6 mm sub equip-potential bus bar 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 Specs. No RDSO/SPN/197 Ver.1.0 or latest and conforming to RDSO Drg. No. SDO / RDSO/ E&B/001 or Latest. Inspection: Consignee |        |                   |                |             |        |             |                         |
|     | 111   | 6.00   | Per<br>Alteration | 2699619.0<br>0 | 16197714.00 | AT Par | 16197714.00 | Above/<br>Below/P<br>ar |
|     |   |        |                   |                |             |        |             |                         |

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|     |  |      |         |          |           |        |           |                     |
|-----|--|------|---------|----------|-----------|--------|-----------|---------------------|
| 111 | <b>Description:-</b> Modification /Alteration in existing EI (Electronic Interlocking) as per latest RDSO guidelines /TAN. It includes: Design and modification in existing Interface and Interlocking circuits and logic of EI system including modification in the VDU (Video Display Unit)/ LCP (Local Control panel)/ CCIP (Control cum Indication Panel), Maintenance terminal (MPC), Data Logger, Relay rack wiring. The complete work should comply with the latest RDSO specifications and guidelines and as per approved SIP and circuit diagrams. All the material (Interface cards/relays/wiring material/connectors /fuses/communication devices etc.) shall be provided by the contractor. The work also includes the supply of modified Selection table, Interface Circuits, VDU/LCP/CCIP diagram etc. to suit the modified SIP. It also includes the carrying out of FAT, SAT (as applicable) jointly with Railways and satisfactory commissioning. All plans/drawings /circuits etc. should be prepared on AUTOCAD, softcopy to be supplied on Pen Drive and 06 sets of hard copies also to be supplied. (A) Alteration involving modification from 11 up to 20 routes.  |      |         |          |           |        |           |                     |
| 112 | 112  | 6.00 | Per SIP | 28072.00 | 168432.00 | AT Par | 168432.00 | Above/<br>Below/Par |
|     | <b>Description:-</b> Designing and Plotting of Signalling Interlocking Plan(SIP) in AUTOCAD. Two copies of prints with soft copy will be submitted to Railway for checking. If alterations are suggested /proposed by Railways then again two copies of prints will be submitted for advance approval after carrying out all the alterations as suggested/proposed by the Railways. Tracings will be submitted for all the diagrams mentioned above for the purpose of approval by Railway prior to commissioning of station.  |      |         |          |           |        |           |                     |
| 113 | 113  | 6.00 | Lot     | 12214.00 | 73284.00  | AT Par | 73284.00  | Above/<br>Below/Par |
|     | <b>Description:-</b> Design of circuits and plans to suit layout given in the signalling plan of IBS/ABS /LC GATE. All plans and wiring diagram shall be prepared on Auto Cad Drawing and supplied with CD. This will include supply of Control cum Indication panel diagram, Route section plan, square sheet, wiring diagrams, Relay rack/Relay arrangements, Bus bar details, Fuse analysis, contact analysis, Relay room tag block analysis, panel tag block analysis, Power panel diagram, IPS wiring diagram, Auto change over diagram, Power equipment arrangement with program switch, Block circuit wiring diagram, Digital Axle counter wiring diagram and all other relevant drawings. NOTE: The contactor shall initially supply 2 sets of documents (Paper Prints) for approval of Railways. Railway will return one set to the contactor duly approved with alterations/ corrections, if any. The contactor shall incorporate Railways' alterations/ corrections / comments, if any, in the tracing & CD without any deviation and submit all the tracings and Final CD complete with all respect for Approval of Railways. After Approval of Railways on the tracings, the contractor shall submit 3 sets of final approved diagrams to the Railways within IN days. He shall ensure that each sheet has a block for signature of railway official as well as a block for signature of firm, duly signed by the authorized signatory of the firm. The name of the work as given by Railways shall be written on every sheet under the work column. All the drawing shall be supplied in a good quality folder for each IBS/ABS/LC Gate.   |      |         |          |           |        |           |                     |
| 114 | 114  | 6.00 | Station | 58797.00 | 352782.00 | AT Par | 352782.00 | Above/<br>Below/Par |
|     | <b>Description:-</b> Design of circuits in connection with preparation of wiring diagrams as per approved Signalling Plan and submission of indoor as well as outdoor completion documents for alteration work. It includes Route Section Plan (RSP), Selection Table (ST), Locking Table (LT) and Control Panel Diagram (CPD). Two copies of prints with soft copy will be submitted to Railway for checking. If alterations are suggested/proposed by Railways, then again two copies of prints will be submitted for advance approval after carrying out all the alterations as suggested/proposed by the Railways. Tracings will be submitted for all the diagrams mentioned above for the purpose of approval by Railway prior to commissioning of station. All drawings will be prepared in CAD. The wiring diagrams will consist relay rack analysis, relay contact analysis, fuse details. Tag block analysis etc. A separate CD/Pen drive will be submitted to Railway for each station along with original tracings. It also includes preparation and supply of laminated one set of all completion plans including circuit diagrams and indoor as well as outdoor completion documents on standard 75- micron polyester film for station in Auto CAD. 6 (Six) sets photo copies will be submitted for each of the documents mentioned below: Cable Route Plan, Cable Core Chart, Location details plan for all the locations, Cable termination details, Signalling Plan, SWR Diagram, Wiring Diagrams, Selection Table, Locking Table, Contact Analysis, Fuse and Tag Block Analysis of Relay Rack and CT Rack, Control Cum Indication Panel, Power Panel Diagram, Track Circuit Plan, Rack Erection Plan and Junction Box details etc. Note: Total cost of design and completion documents for a station/yard will be calculated on basis of total possible movements/routes as per Selection Table (ST). |      |         |          |           |        |           |                     |

**3. ITEM BREAKUP**

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

**4. ELIGIBILITY CONDITIONS**



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**Special 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-VIB, 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) |

**Special Technical Criteria**

| S.No. | Description  | Confirmation Required | Remarks Allowed | Documents Uploading |
|-------|--|-----------------------|-----------------|---------------------|
| 1     | The tenderer must have successfully or substantially completed any of the following during last 07(seven) years, ending last day of month previous to the one in which tender is invited: Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or One similar work costing not less than the amount equal to 60% of advertised value of the tender. Similar Nature of work for this tender is -"Panel Interlocking OR Route Relay Interlocking OR Electronic Interlocking or IBH OR Automatic Signalling OR LC gate Interlocking." | No                    | No              | Allowed (Mandatory) |

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

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

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

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| S.No. | Description   |
|-------|---|
| 1     | <b>Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc.</b> 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.<br>( <a href="#">Click here</a> 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     | CheckListAnnexItoVIIIUPDATED.pdf  | Annexure I to VIII     |
| 2     | Annexure-IX.pdf   | Annexure IX            |
| 3     | Annexure-X.pdf  | Annexure X             |
| 4     | Annexure-XI.pdf   | Annexure XI            |
| 5     | AnnexureV.pdf   | Annexure V             |
| 6     | Annexure_VA.pdf   | Annexure VA            |
| 7     | Annexure-VIA.pdf  | Annexure VIA           |
| 8     | Annexure-VIB.pdf  | Annexure VIB           |
| 9     | GCCwithCorrectionSlips1to10.pdf   | GCC 2022               |
| 10    | LabourCess_compressed.pdf   | Labour Cess            |
| 11    | JPO-CABLEDIGGINGWORK-VICINITYOFUNDERGROUND CABLE-SRDSTESRDEN-C-240124.pdf | Penalty JPO            |
| 12    | TermsofPayment.July-25.pdf  | Terms of payment       |
| 13    | Updatedtenderdocument-lcg.pdf   | Tender Document        |
| 14    | FoundationC-6-98.pdf  | Foundation 1           |
| 15    | foundationMain.pdf  | Foundation Main Signal |
| 16    | NewEarthElectrodeDrawing1.pdf   | Earth Electrode        |
| 17    | EarthElectrodeC-36.pdf  | Cement Concrete        |
| 18    | MSDAC-ANNEXURE1.pdf   | Annex MSDAC            |

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:** ASHOK KUMAR SAINI

**Designation :** DSTE/1/HWH