

HOWRAH DIVISION-S AND T/EASTERN RLY TENDER DOCUMENT

Tender No: SDSTE-LHS-18-6-C-E

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-LHS-18-6-C-E** 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

Name of Work	Howrah Division-Signalling work in connection with- Schedule A1-Signalling Cost for construction of LHS at Gate No. 18/6/C/E at Km. No. 89/21-23 between station PTAE-AGAE in lieu of Un Authorized Trespass location under Jurisdiction of AEN/KWAE Schedule A2-Telecom Cost for construction of LHS at Gate No. 18/6/C/E at Km. No. 89/21-23 between station PTAE-AGAE in lieu of Un Authorized Trespass location under Jurisdiction of AEN/KWAE		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	06/07/2026 15:00	Date Time Of Uploading Tender	10/06/2026 16:43
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	18379480.65	Tendering Section	S AND T
Bidding Style	Single Rate for Each Schedule Item	Bidding Unit	
Earnest Money (Rs.)	367600.00	Validity of Offer (Days)	60
Tender Doc. Cost (Rs.)	0.00	Period of Completion	12 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	22/06/2026		
Are JV allowed to bid	No	Number of JV Member Allowed	0
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A1- Signalling Cost for construction of LHS at Gate No. 18/6/C/E at Km. No. 89/21-23 between station PTAE-AGAE in lieu of Un Authorized Trespass location under Jurisdiction of AEN/KWAE							16489518.68	
1	1	20.00	Per Relay	270.00	5400.00	AT Par	5400.00	Above/ Below/P ar
	Description:- Carrying out relay alteration to the existing relay wiring at relay rack/location box as per the approved circuit diagram. These work includes the releasing of existing unused wires and wiring the relays using 16/0.2 mm copper wire as per RDSO Spec. Wire to be procured from RDSO's approved source and 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]. Note: - wire to be procured from RDSO's approved source only. All required material like wire, soldering material, paint etc. To be supplied by the contractor for execution of the work.							
2	2	500.00	Metre	119.00	59500.00	AT Par	59500.00	Above/ Below/P ar
	Description:- Supply of 1 x 10 Sq.mm. {Red/Black/Green} multi strand copper power wire as per IS:694:20 10 or latest, 140 conductor each dia 0.30mm +/- 0.01 with insulation thickness of 1.0 mm and nominal conductor resistance of 1.91 ohms/km and test parameters as per RDSO Specn.No.IRS-S-76/89(Amnd.3) or latest.Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/ RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board.							
	3	500.00	Metre	131.00	65500.00	AT Par	65500.00	Above/ Below/P ar

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3	Description:- "Supply of 1 x 16 Sq.mm. {Red/Black/Green} multi strand copper power wire as per IS:694:20 10 or latest, 126 conductor each dia 0.40mm +/- 0.01 with insulation thickness of 1.0 mm and nominal conductor resistance of 1.21 ohms/ km and test parameters as per RDSO Specn. No.IRS: S-76/89(Amnd.3) or latest. Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs(ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board."							
4	4	500.00	Metre	277.00	138500.00	AT Par	138500.00	Above/ Below/P ar
	Description:- "Supply of 1 x 25 Sq.mm. {Red/Black} multi strand copper power wire as per IS:694: 2010 or latest, 196 conductor each dia 0.40mm +/- 0.01 with insulation thickness of 1.2 mm and nominal conductor resistance of 0.78 ohms/km and test parameters as per RDSO Specn. No.IRS:S-76/89(Amnd.3) or latest.Colour of the wire which is required will be specified by the Engineer incharge. Inspection: (i) RDSO/ RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board."							
5	5	1000.00	Per Conductor	9.00	9000.00	AT Par	9000.00	Above/ Below/P ar
	Description:- Termination of Outdoor Cables (Main Cables / tail cables) at both ends in location boxes, cable termination rack in relay room, station building, generator room etc. The item includes dressing of cables and wires with dressing threads as per standard practice. All material required for this item will be supplied by contractor. The outdoor cable shall be terminated in Relay Room, DG Room, ASM Room etc under supervision and instructions issued by Engr. incharge of the work. Inspection: Consignee							
6	6	500.00	Numbers	55.00	27500.00	AT Par	27500.00	Above/ Below/P ar
	Description:- "Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/ SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway 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)							
7	7	500.00	Numbers	10.00	5000.00	AT Par	5000.00	Above/ Below/P ar
	Description:- "Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/ SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway 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.							
8	8	500.00	Numbers	10.00	5000.00	AT Par	5000.00	Above/ Below/P ar
	Description:- "Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/ SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway 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.							
9	9	200.00	Metre	109.00	21800.00	AT Par	21800.00	Above/ Below/P ar
	Description:- "Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/ SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway 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.							
	10	200.00	Numbers	16.00	3200.00	AT Par	3200.00	Above/ Below/P ar

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10	Description:- "Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks & Miniature fuse link of international standard for Railway 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.							
11	11	500.00	Numbers	2.00	1000.00	AT Par	1000.00	Above/ Below/P ar
	Description:- "Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks & Miniature fuse link of international standard for Railway 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 shooting link (jumper) (part no - 283- 402 or similar) , suitable for 0.2 to 16 sqmm terminal block 283-901 or similar.							
12	12	500.00	Numbers	79.00	39500.00	AT Par	39500.00	Above/ Below/P ar
	Description:- Supply & installation of polymer positive temperature coefficient device (PPTC) resettable fuses, for outdoor circuits. 30V/2.5A for track feed and 60V/1.1A in place of 24V/2A fuse and 120V/1.1A for signal lighting. Make- RAYCHE M, BOURNS, LITTLE FUSE, FUZETEC or TYCO. Quantity as per site engineer. Note- PPTC fuses are to be connected with crimped ring type lugs. ". Inspection: Consignee.							
13	13	100.00	Numbers	1346.00	134600.00	AT Par	134600.00	Above/ Below/P ar
	Description:- "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."							
14	14	400.00	Metre	705.97	282388.00	AT Par	282388.00	Above/ Below/P ar
	Description:- Supply of Split DWC Pipe in the cable Trench parallel to track or as per Site and approved cable route plan. Split DWC pipes having non flame propagation and Anti Roddent properties (minimum outer dia 250 mm & minimum Inner Dia 217 mm) with out socket /coupler as per IS:14930, Pt-II(ISI Marked). Inspection : Consignee							
15	15	400.00	Metre	46.08	18432.00	AT Par	18432.00	Above/ Below/P ar
	Description:- Laying & Installation of Split DWC Pipe in the cable Trench parallel to track or as per Site and approved cable route plan. This includes supply of Split DWC pipes having non flame propagation and Anti Roddent properties (minimum outer dia 175 mm & minimum Inner Dia 148 mm) as per IS:14930, Pt-II(ISI Marked) OR LATEST							
16	16	20.00	Numbers	46.94	938.80	AT Par	938.80	Above/ Below/P ar
	Description:- Termination of new/ alteration of main/tail cables on the existing terminals/ fuse blocks in apparatus cases/battery boxes/ CT boxes/ cable termination racks as per approved circuit diagram. The terminal particulars are to be re-painted / corrected on the doors of apparatus cases/ battery boxes/cable termination boxes and FTOT index board as instructed by Railway representative at site. This work includes alteration of lettering / painting, closing the opening created for entry of new cables in the apparatus cases with masonry brick work and sealing the bottom of the apparatus cases/ cable termination racks with cablecompound.[Paints, wire PVC3/0.75mm and 16/0.2mm copper,sealing compound, bricks, cement,river sand and all other required miscellaneous materials shall be supplied by the contractor].							
17	17	8.00	Numbers	13916.00	111328.00	AT Par	111328.00	Above/ Below/P ar
	Description:- 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							

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18	18	8.00	Numbers	3532.00	28256.00	AT Par	28256.00	Above/ Below/P ar
	Description:- 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							
19	19	8.00	Numbers	4830.00	38640.00	AT Par	38640.00	Above/ Below/P ar
	Description:- 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							
20	20	8.00	Numbers	563.00	4504.00	AT Par	4504.00	Above/ Below/P ar
	Description:- 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 .							
21	21	6.40	Sqm	5730.00	36672.00	AT Par	36672.00	Above/ Below/P ar
	Description:- Supply of paper base hylam sheet 12 mm thick. Inspection: consignee.							
22	22	3.00	Numbers	15707.00	47121.00	AT Par	47121.00	Above/ Below/P ar
	Description:- "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."							
23	23	3.00	Numbers	27309.00	81927.00	AT Par	81927.00	Above/ Below/P ar
	Description:- Installation, erection and wiring of CLS unit, post, ladder & base LED unit including paying out of tail cable from location box and earthing of CLS (LED type). This includes supply of non - metallic (FRP) colour light signal housing multi-unit type for Rly. Signalling suitable for RE Area 3 Aspect complete without lenses, lamps and signal transformer as per DRG. NO. SA 23001/A/M(ADV), ALT.8 and as per SPEC. NO. RDSO/SPN/194/2006 (VER1.0) OR LATEST. FRP material as per rdso spec no. Rdso/spn/151/1997 or LATEST. All drawings should be as per latest. Materials 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 lighting 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."							
	24	3.00	Numbers	2352.00	7056.00	AT Par	7056.00	Above/ Below/P ar

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24	Description:- Installation, erection and wiring of CLS unit, post, ladder & base LED unit including paying out of tail cable from location box and earthing of CLS (LED type). This includes supply of non - metallic (FRP) colour light signal housing multi-unit type for Rly. Signalling suitable for RE Area 3 Aspect complete without lenses, lamps and signal transformer as per DRG. NO. SA 23001/A/M(ADV), ALT.8 and as per SPEC. NO. RDSO/SPN/194/2006 (VER1.0) OR LATEST. FRP material as per rdso spec no. Rdso/spn/151/1997 or LATEST. All drawings should be as per latest. Materials 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 lighting unit including current regulator. This also includes protection of unit from rain water. B)Execution							
25	25	3.00	Numbers	8065.00	24195.00	AT Par	24195.00	Above/ Below/P ar
	Description:- 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).							
26	26	2.00	Numbers	3065.00	6130.00	AT Par	6130.00	Above/ Below/P ar
	Description:- Releasing of existing tail cables and drawl of new tail cables for colour light signals up to four aspects with or without route indicator, post type shunt signal and calling signals. Termination of new tail cables and wiring using wire PVC 3/0.75 mm copper as per latest RDSO spec. This work includes drawl of new tail cables into the signal post duly releasing the existing tail cables from the relevant signals [Wire PVC 3/0.75 mm copper, paints and all other miscellaneous materials shall be supplied by the contractor. Wire to be procured from RDSO's approved source only]. Inspection- consignee.							
27	27	2.00	Numbers	1218.00	2436.00	AT Par	2436.00	Above/ Below/P ar
	Description:- Dismantling of existing main signal including dependent shunt signal, calling on signal if any, fitted on the same post along with signal post, signal unit, ci base without damaging any part.							
28	28	2.00	Numbers	2212.00	4424.00	AT Par	4424.00	Above/ Below/P ar
	Description:- Dismantling of existing Signal Foundation (upto ground level by hydraulic breaker).							
29	29	3.00	Numbers	373.00	1119.00	AT Par	1119.00	Above/ Below/P ar
	Description:- "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 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."							
30	30	2.00	Numbers	2513.00	5026.00	AT Par	5026.00	Above/ Below/P ar
	Description:- "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-5- 10/78. Inspection: consignee. Note : Offset bracket has to be connected wherever necessary as per site engineer."							
31	31	4.00	Numbers	1225.00	4900.00	AT Par	4900.00	Above/ Below/P ar
	Description:- "Casting, concreting and curing of foundation (1:3:6) and erection of SLB/BSLB/SB/WB/ Stop board as per DRG. NO S&T/ C/ 34(NKG) all materials required for the work including cement, rail post etc. To be supplied by the contractor. This includes supply of SLB/BSLB/SB/WB/ Stop board as per RDSO DRG NO. SA-2375 (ADV.) (WITH LATEST AMDT.) for SLB/BSLB and as per RDSO DRG NO. 7235/ B (WITH LATEST AMDT.) for SB/WB/ Stop Board." 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."							
32	32	4.00	Numbers	5720.00	22880.00	AT Par	22880.00	Above/ Below/P ar
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	Description:- "Casting, concreting and curing of foundation (1:3:6) and erection of SLB/BSLB/SB/WB/ Stop board as per DRG. NO S&T/ C/ 34(NKG) all materials required for the work including cement, rail post etc. To be supplied by the contractor. This includes supply of SLB/BSLB/SB/WB/ Stop board as per RDSO DRG NO. SA-2375 (ADV.) (WITH LATEST AMDT.) for SLB/BSLB and as per RDSO DRG NO. 7235/ B (WITH LATEST AMDT.) for SB/WB/ Stop Board." B)Execution							
33	33	3.00	Numbers	3029.00	9087.00	AT Par	9087.00	Above/ Below/P ar
	Description:- Fabrication and fixing of phenolic laminated sheet of size 10/12/20 mm thick in Full Apparatus Case by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per instructions of Rly engineer at site. Inspection: Consignee							
34	34	2.00	Numbers	2782.00	5564.00	AT Par	5564.00	Above/ Below/P ar
	Description:- 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.							
35	35	3.00	Per Alteration	2699619.0 0	8098857.00	AT Par	8098857.00	Above/ Below/P ar
	Description:- 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.							
36	36	1.00	Station	596262.00	596262.00	AT Par	596262.00	Above/ Below/P ar
	Description:- Installation, wiring, testing (FAT & SAT) and commissioning of EI System with 'Hot Standby' architecture as supplied above item-100101/2/3. It includes transportation of material from consignee's depot to the site, erection and grouting of EI Relay Racks, fixing and wiring of all the interfacing relays (Vital & Non-Vital) , installation and wiring of Microprocessor equipments, interface equipments, power supply equipments and all other associated accessories to make complete EI system to be functional. Note: (i) Technical Requirements are attached with tender document (ii) Contractor has to arrange simulator/ simulation testing panel for testing and commissioning by Selection Table and Square Sheet for each Signalling function.(iii) Installation, wiring, testing and commissioning of EI system will be done by OEM after following all the guidelines/ directives issued by RDSO from time to time.							
37	37	2.00	Set	23528.00	47056.00	AT Par	47056.00	Above/ Below/P ar
	Description:- Supply of maintainer's furniture of godrej make or superior and each set consist of(i) executive revolving bearing series low back-floating chair with normal arms cushioned chair-01 Nos. (ii) Executive table size 1650x900x728 mm with 3 drawers one side locker- 01 no.(iii) visitor chair seat & back cushion with high density foam with plastic pvc handle capsule type painted back-03 nOS.							
38	38	2.00	Per SIP	28072.00	56144.00	AT Par	56144.00	Above/ Below/P ar
	Description:- 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.							
	39	1.00	Lot	12214.00	12214.00	AT Par	12214.00	Above/ Below/P ar

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39	Description:- 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.							
40	40	1.00	Station	58797.00	58797.00	AT Par	58797.00	Above/ Below/P ar
40	Description:- 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 o f a l l 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).							
41	41	100.00	Numbers	417.00	41700.00	AT Par	41700.00	Above/ Below/P ar
41	Description:- Supply, Transportation at site and Installation of RCC cable route marker engraved and painted on both side along the route at every 30 meter and at route diversion. The cable marker shall be as per ER Drawing DRG NO. S.I.- S&T/1/2024(SHEET NO. 1) Technical Policy Circular -108 Dated-22.04.2024 or latest. The fixing work is to be done as per extant practice of E. Rly. and as per Railway site supervisor.							
42	42	2.00	Numbers	2782.00	5564.00	AT Par	5564.00	Above/ Below/P ar
42	Description:- 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.							
43	43	2.00	Numbers	651.00	1302.00	AT Par	1302.00	Above/ Below/P ar
43	Description:- Dismantling of location box / RCC Goomty including all its accessories & concrete foundation.							
44	44	2.00	Numbers	2759.00	5518.00	AT Par	5518.00	Above/ Below/P ar
44	Description:- Shifting/lifting of location box to facilitate earthwork of Engg/Con.This includes filling with sand and plastering inside location box.							
	45	8.00	Numbers	260.00	2080.00	AT Par	2080.00	Above/ Below/P ar

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45	Description:- "Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy paint will be supplied by Railways. NOTE: - The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974) of Apparatus Case Full Size. (Outside & inside)"							
46	46	8.00	Kilometre	286481.61	2291852.88	AT Par	2291852.88	Above/ Below/P ar
	Description:- 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							
47	47	50.00	Metre	762.00	38100.00	AT Par	38100.00	Above/ Below/P ar
	Description:- 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.							
48	48	50.00	Metre	98.00	4900.00	AT Par	4900.00	Above/ Below/P ar
	Description:- 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.							
49	49	5.00	Numbers	362.00	1810.00	AT Par	1810.00	Above/ Below/P ar
	Description:- Transferring of Signaling/Telecom cables from existing Location box to New Location box . The work include breaking/ Dismantling of Existing foundation of locations, excavating and removing / segregating coils of 2C/6C/12C/19C/24C/30C/Quad cables which may be about 10 mtrs. in length. These cables are to be disconnected and removed from the existing location one by one as per the instruction and under the supervision of Railway staff present at site. The cable is then to be inserted and terminated in new location box. The item includes neatly dressing of cable, making wiring tree etc. The material required to dressing /lacing will be arranged by contractor. The work is required to be done systematically and with due precaution during the block or disconnection within the time that may be allowed. The excavation work to be done carefully without damaging the cable to avoid undue failure. (Termination charges will be given separately). Note: Proportionate payment will be made if cable of other length. One No unit One cable of 10 m length}.							
50	50	2000.00	cum	245.00	490000.00	AT Par	490000.00	Above/ Below/P ar
	Description:- Excavation of cable trench as per cable route plan, 1.2 Mtr. deep and of 0.3 Mtr. to 0.6 Mtr. wide at bottom 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.							
51	51	100.00	Metre	256.00	25600.00	AT Par	25600.00	Above/ Below/P ar
	Description:- Repair of pucca roads to original state in level crossing area after cable laying.							
52	52	8000.00	Running Metre	5.00	40000.00	AT Par	40000.00	Above/ Below/P ar

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	Description:- Laying of S&T Cables of various cores/ pairs/ quads in trenches/ GI pipes/ RCC pipes/ DWC pipes/ Trunking. This also includes laying of cables in track crossings & road crossings. Item includes provision of labels of coloured plastic adhesive tapes or any other identifiable material on each cable to give the cable number at each Gantry Post/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.							
53	53	50.00	cum	3596.00	179800.00	AT Par	179800.00	Above/ Below/P ar
	Description:- Cement concrete work for miscellaneous items in the ratio 1: 3: 6. Item includes excavation, ramming, curing and plastering with cement & sand mixture (aggregate not exceeding 3.8 cm.) (Aggregate cement & sand to be supplied by the contractor). 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.							
54	54	5.00	Lot	15147.00	75735.00	AT Par	75735.00	Above/ Below/P ar
	Description:- "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"							
55	55	5.00	Set	6579.00	32895.00	AT Par	32895.00	Above/ Below/P ar
	Description:- "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"							
56	56	10.00	Numbers	1496.00	14960.00	AT Par	14960.00	Above/ Below/P ar
	Description:- "Supply of earth electrode mild steel galvanized, light class, IS:1239(PART-I) - 1979.earth electrode pipe should be with 3 mm thick, 50 mm dia and perforated(staggered),5 mm dia holes, 2 nos per 305 mm length with clamp of MS FLAT(galvanised) of size 35 mm x 6 mm (SPEC. NO.226 STD). Earth pipe should include CI threaded cap. Materials to be procured and designed as per CSTE /ER'S DRG.NO.SI/TYP/0097 DTD. 25.03.25. 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]"							
57	57	10.00	Numbers	911.00	9110.00	AT Par	9110.00	Above/ Below/P ar
	Description:- Supply of MS FLAT (SPEC. NO. 226 STD or latest) of size 35 mm x 6 mm with length 5 mtr with holes of 12 mm dia at both ends as per CSTE /ER'S DRG.NO.SI/TYP/0097 DTD. 25.03.25 (or latest). Inspection : by consignee.							

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58	58	10.00	Numbers	1161.00	11610.00	AT Par	11610.00	Above/ Below/P ar
	Description:- 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 M S 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 will be supplied by the railway.							
59	59	100.00	Day	3034.06	303406.00	AT Par	303406.00	Above/ Below/P ar
	Description:- Disconnection & Reconnection of All Signalling Equipments like Cables/TLJB/Point Machine G.Fitting/Point JB/BPAC Track Device etc. immediate before and after the work during block period. This Includes cost of the Releasing of Signalling equipments and Reconnection of the same after the work. This includes 1 Fitter, 1 Black Smith, 1 Hammer Man, 1Cable Joiner, 1 Bonding fitter, 4 Khalasis.							
60	60	20.00	Numbers	44064.00	881280.00	AT Par	881280.00	Above/ Below/P ar
	Description:- Supply of Digital Multimeter of Fluke 287 Industrial or Similar/ superior True RMS with temperature, Analog bar graph, Digital display, Backlight, 1000V AC/DC, measure up to 10A, 20A for up to 30 second .Item to be supplied after successful demonstration and Approval of Railway. Inspection: Consignee							
61	61	4.00	Numbers	410718.00	1642872.00	AT Par	1642872.00	Above/ Below/P ar
	Description:- Supply of electronic Cable route tracer/locator with underground cable and pipe locating receiver and cable avoidance tool that provide location of armoured OFC , signalling and telecom , power cable etc. make : C Scope Stanley/ 3M Dynatel , model: DXL-4 DBG /2273M-iD 30 or Similar/ superior. Item to be supplied after successful demonstration and Approval o f Railway. Inspection: Consignee							
62	62	4.00	Numbers	58579.00	234316.00	AT Par	234316.00	Above/ Below/P ar
	Description:- Supply of Cable Fault Locates to localize the faults of underground cables. Aplab make (Model No.3049} OR C 8scope Stanley maize {Model TS- 90) or Similar/ superior from any reputed make. It also includes supply of all accessories required to localize faults of underground cables. Item to be supplied after successful demonstration and Approval of Railway. Inspection: Consignee							
63	63	1.00	Numbers	3004.00	3004.00	AT Par	3004.00	Above/ Below/P ar
	Description:- Dismantling of level crossing gates with all accessories as per site engineers.							
64	64	50.00	Numbers	485.00	24250.00	AT Par	24250.00	Above/ Below/P ar
	Description:- 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)6 WAY, DRG.NO. 23756,ALT-3.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A2-Telecom Cost for construction of LHS at Gate No. 18/6/C/E at Km. No. 89/21-23 between station PTAE-AGAE in lieu of Un Authorized Trespass location under Jurisdiction of AEN/KWAE.							1889961.97	
1	1	2.00	Kilometre	351802.42	703604.84	AT Par	703604.84	Above/ Below/P ar
	Description:- "Supply of 6 quad cable copper of 0.9 mm dia copper conductor polyethylene insulated aluminium screened underground jelly filled cable as per RDSO specification no. IRS:TC 30/2005 ver-1 Amdt No 05. Inspection:RDSO"							

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2	2	3.00	Kilometre	61006.00	183018.00	AT Par	183018.00	Above/ Below/P ar
	Description:- "Supply of 24 Fiber Armoured Optic Fiber Cable as per RDSO Spec.No. IRS:TC:55/2006 Rev.1 with Amndt.no. 3 or latest amendment."							
3	3	4.00	Numbers	6674.00	26696.00	AT Par	26696.00	Above/ Below/P ar
	Description:- "Excavation of OFC pit for cable jointing of size 1.5m x 1.5m x 1.2 m for all type of soils. The section. Back filling the pit and ramming after jointing. Provision of brick walling the four walls and bottom of pit with RCC slab, back filling with earth and ramming as per drawing. N.B. all the materials including cement required for the above will be supplied by the tenderer"							
4	4	4.00	Numbers	10625.00	42500.00	AT Par	42500.00	Above/ Below/P ar
	Description:- Jointing, terminating & splicing of 24 fiber optic fiber cable and fixing of termination box/FDF/placing of joint closures in the pit required at various locations including transportation of all the jointing & terminating materials from railway store to the work site and returning leftover materials to the railway store.							
5	5	96.00	Numbers	210.05	20164.80	AT Par	20164.80	Above/ Below/P ar
	Description:- Splicing /termination of OFC as per site requirement							
6	6	312.00	cum	245.00	76440.00	AT Par	76440.00	Above/ Below/P ar
	Description:- "Excavation of cable trench as per cable route plan, 1.2 Mtr. deep and of 0.3 Mtr. to 0.6 Mtr. wide at bottom 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. (b-1) Payment will 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. Inspection: Consignee. "							
7	7	120.00	Metre	2379.00	285480.00	AT Par	285480.00	Above/ Below/P ar
	Description:- "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/culverts, 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 labors 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 Boring above the length of 150 meters. Preparation of site for Horizontal Boring shall be carried out in presence of Railway Representative."							
8	8	120.00	Metre	8.00	960.00	AT Par	960.00	Above/ Below/P ar
	Description:- Laying of 6 quad/Signalling cable/Power Cable/OFC cable / other S&T cable with nylon rope through HDPE pipe and back filling of boring pit.							
9	9	55.00	cum	417.00	22935.00	AT Par	22935.00	Above/ Below/P ar
	Description:- "Supply, Transportation at site and Installation of RCC cable route marker engraved and painted on both side along the route at every 30 meter and at route diversion. The cable marker shall be as per ER Drawing DRG NO. S.I.- S&T/1/2024(SHEET NO. 1) Technical Policy Circular -108 Dated-22.04.2024 or latest. The fixing work is to be done as per extant practice of E. Rly. and as per Railway site supervisor.							
	10	2.00	Kilometre	62867.00	125734.00	AT Par	125734.00	Above/ Below/P ar

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10	Description:- "Supply of 40 mm dia permanently lubricated HDPE telecom: ducts (with chord) as per RDSO SPEC.NO. RDSO/SPN/TC/45/2013 REVISION 2.0 with latest amendments or Latest in length of 1000 mtrs/roll For each km. Of HDPE duct following items are to be supplied (a) end plugs-2 nos. (b) cable sealing plugs - 2 nos. (c) plastic couplers slip fit/push fit type-2 nos. (d) end plugs to be provided along with drum 2 nos. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy "							
11	11	2.00	Kilometre	24734.00	49468.00	AT Par	49468.00	Above/ Below/P ar
	Description:- "Laying of HDPE pipe duct, 40/33 mm in trenches and protective works including pulling of mono-mode armoured OFC cable (24 fibres) through duct in trenches and as advised by site engineer.Note:- (1) the contractor will take over the OFC cable from railway store to site of work duly checked the continuity of each fibre from end to end . (2) before & after laying of optical fibre cable through duct, continuity test from end to end of each fibre to be made by the contractor to ensure availability of all 24 fibre duly certified by the site engineer. "							
12	12	1993.00	Running Metre	5.00	9965.00	AT Par	9965.00	Above/ Below/P ar
	Description:- "Laying of S&T Cables of various cores/ pairs/ quads in trenches/ GI pipes/ RCC pipes/ DWC pipes/ Trunking. This also includes laying of cables in track crossings & road crossings. Item includes provision of labels of colored plastic adhesive tapes or any other identifiable material on each cable to give the cable number at each Gantry Post/hectometer post. (Cables will be meggered before and after its laying by contractor under supervision of Railway Representative and he will submit the meggering report of each testing). Length of the cable laid includes the length of the cable coiled for termination purposes."							
13	13	36.00	Metre	404.00	14544.00	AT Par	14544.00	Above/ Below/P ar
	Description:- "Supply of Medium class GI pipes 50 mm dia (3.6 mm thickness) as per IS 1239 (Part 1): 2004 for use in ASM room and at any other location as decided by Site Engineer. It includes supply of all material required for fixing arrangement. At the ends of GI pipe, flexible/corrugated HDPE pipe will be provided by contractor to protect cables from sharp edges and sudden bends."							
14	14	36.00	Metre	98.00	3528.00	AT Par	3528.00	Above/ Below/P ar
	Description:- "Laying & Fixing of Medium class GI pipes 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"							
15	15	35.00	Day	4213.53	147473.55	AT Par	147473.55	Above/ Below/P ar
	Description:- "Disconnection & Reconnection of All Telecom Equipments like Cables/joints/terminationand other telecom works. This includes Supply of Labours(Helper/Assistant) of 5 Nos per Man Day to assist Telecoml Supervisor / Officer during Field Work & Other S&T work. "							
16	16	10.00	Numbers	2185.00	21850.00	AT Par	21850.00	Above/ Below/P ar
	Description:- "Supply of Thermo shrink Universal Jointing kit for Quad Cable (for straight joints) as per RDSO spec IRS/TC- 77/2012 revision 3 With latest Amdt."							
17	17	6.00	Numbers	956.00	5736.00	AT Par	5736.00	Above/ Below/P ar
	Description:- "Jointing of 4 / 6 quad /Signaling cable with Heat Shrinkable straight through Jointing Kit. All the material required for the work are to be arranged by contractor himself at his own cost except Thermo shrinkable joint Kit/Rapid joint kit. After jointing the cable through test such as insulation test, continuity cable losses etc. to be carried out jointly with Railway Engineer. If any defect or any damage is observed during jointing, the contactor has to redo the joint free of cost."							
18	18	6.00	Numbers	7860.00	47160.00	AT Par	47160.00	Above/ Below/P ar

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	Description:- "Supply of half size apparatus case (As per as per RDSO drawing No. RDSO/S-11507). 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-11507. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS if value of whole item in work less than 5 lakhs or as per extant policy."							
19	19	6.00	Numbers	3105.00	18630.00	AT Par	18630.00	Above/ Below/Par
	Description:- "Casting, concreting and curing of concrete foundation (in ratio 1:3:6), erection and installation of half size apparatus case (GKP type) Apparatus Case as per DRG.NO. RE/S&T/SIG/TENDER /SK/8/85 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"							
20	20	6.00	Numbers	450.00	2700.00	AT Par	2700.00	Above/ Below/Par
	Description:- "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 (notebalance quantity may be taken from Rly store if available). 450 x 400 x 25 MM for half size location box. "							
21	21	6.00	Numbers	1496.00	8976.00	AT Par	8976.00	Above/ Below/Par
	Description:- "Supply of earth electrode mild steel galvanized, light class, IS:1239(PART-I)-1979.earth electrode pipe should be with 3 mm thick, 50 mm dia and perforated(staggered),5 mm dia holes, 2 nos per 305 mm length with clamp of MS FLAT (galvanized) of size 35 mm x 6 mm (SPEC.NO.226 STD). Earth pipe should include CI threaded cap. Materials to be procured and designed as per CSTE /ER'S DRG.NO.SI/TYP/0097 DTD. 25.03.25. 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] "							
22	22	6.00	Numbers	911.00	5466.00	AT Par	5466.00	Above/ Below/Par
	Description:- "Supply of MS FLAT (SPEC. NO. 226 STD or latest) of size 35 mm x 6 mm with length 5 mtr with holes of 12 mm dia at both ends as per CSTE /ER'S DRG.NO.SI/TYP/0097 DTD. 25.03.25(or latest). Inspection: by Consignee."							
23	23	6.00	Numbers	1161.00	6966.00	AT Par	6966.00	Above/ Below/Par
	Description:- "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 will be supplied by the railway. "							
24	24	6.00	Numbers	571.00	3426.00	AT Par	3426.00	Above/ Below/Par
	Description:- "Provision of cement concrete enclosure for earth electrodes as per DRG. NO. S&T/C36(NKG). This includes supply of all materials by the contractor duly inspected by consignee. "							
25	25	1.00	Numbers	44064.00	44064.00	AT Par	44064.00	Above/ Below/Par

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	Description:- "Supply of Digital Multimeter of Fluke 287 Industrial or Similar/ superior True RMS with temperature, Analog bar graph, Digital display, Backlight, 1000V AC/DC, measure up to 10A, 20A for up to 30 second. Item to be supplied after successful demonstration and Approval of Railway. Inspection: Consignee"							
26	26	200.00	Kilometre	52.02	10404.00	AT Par	10404.00	Above/ Below/P ar
	Description:- "LOADING, UN-LOADING & TRANSPORTATION OF MATERIALS INCLUDING CABLES, LOCATION BOXES AND MISCELLANEOUS ITEMS REQUIRED FROM VARIOUS PLACES IN 9MT TRUCK TO THE RAILWAY STORES AS PER SITE ENGINEER. (i) TRANSPORTATION OF MATERIALS"							
27	27	1.00	Per Trip	2072.78	2072.78	AT Par	2072.78	Above/ Below/P ar
	Description:- "LOADING, UN-LOADING & TRANSPORTATION OF MATERIALS INCLUDING CABLES, LOCATION BOXES AND MISCELLANEOUS ITEMS REQUIRED FROM VARIOUS PLACES IN 9MT TRUCK TO THE RAILWAY STORES AS PER SITE ENGINEER. (ii) Loading and Unloading "							

3. ITEM BREAKUP

No item break up added

4. ELIGIBILITY CONDITIONS

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 -" Electronic Interlocking work { Indoor OR (Indoor + Outdoor)}. And/OR Panel Interlocking work { Indoor OR (Indoor + Outdoor)}. And/OR Route Relay Interlocking work { Indoor OR (Indoor + Outdoor)}."	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.

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

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

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

5. COMPLIANCE

Commercial-Compliance

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

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-LHSLCgate.pdf	Tender Document
14	NewEarthElectrodeDrawing1.pdf	Earth Electrode

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15	TECHNICALCIRCULARNO108-CableRouteMarkerPoli_250925_155743.pdf	Technical Circular No 108
16	foundationMain.pdf	Foundation Main Signal
17	FoundationC-6-98.pdf	Foundation 1
18	EarthElectrodeC-36.pdf	Cement Concrete

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