

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

SR DSTE/ER/ASN acting for and on behalf of The President of India invites E-Tenders against Tender No **28-SDSTE-ASN-2026-27** Closing Date/Time 22/07/2026 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	Asansol Division: S&T Work i/c/w (1) Interlocking of LC Gates having TVU more than 10,000 in Andal -Sainthia, Deoghar - Dumka, Mohanpur Jn. - Handsiha sections of Asansol Division. (2) Interlocking of L. C. Gate having TVU more than 10000 in UDL- BBI, UDL/LC-BQT, MDP-GRD Sections.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	22/07/2026 15:00	Date Time Of Uploading Tender	29/06/2026 18:49
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	147898341.23	Tendering Section	S AND T
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	2958000.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	0.00	Period of Completion	18 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	08/07/2026		
Are JV allowed to bid	Yes	Number of JV Member Allowed	3
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A-SOR items : Interlocking of LC Gates having TVU more than 10,000 in Andal -Sainthia , Deoghar - Dumka , Mohanpur Jn. - Handsiha sections of Asansol Division.							62323800.70	Above/ Below/Par
1	A	8.00	Set	566573.00	4532584.00	AT Par	4532584.00	
	Description:- Supply of Electrically operated Lifting Barrier complete set suitable for 110V AC / 24V DC / 110V DC. Supply of hand generator back up & motorized boom locking arrangements as per RDSO Spec. No. SPN/208/2012 Ver. 2.0 Amd.1 or with the latest amendment. One set consisting 02 No. of barriers of length 9.76 Mtrs. with stop boards, MS counterweights and 2 nos. of boom support, control panel, Spares & tool kit mentioned in RDSO Specification clause 10.1 & 10.2 mentioned below to be supplied with EOLB set : 10.1 Spares: (i) GI boom - 1 No. (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. (viii) Fuses used- 2 Sets. 10.2: Tool Kit as per RDSO specs. Warranty: Electric Lifting barrier shall be commissioned only if the installation is certified fit by the OEM. Electric Lifting Barrier complete including its sub-systems shall be under warranty for a period of 24 months date of commissioning, whichever is earlier. Inspection: RDSO. Payment: 80% on supply and balance 20% after commissioning.							
2	A	8.00	Set	62460.00	499680.00	AT Par	499680.00	
	Description:- Installation, testing and commissioning of electrically operated lifting barrier, complete with Casting of cement concrete foundation (including supply of sand, stone, cement, bolt, plate, shuttering etc.) for pedestal and boom rest post, cabling, power supply connection & wiring with complete outdoor work as per approved drawing / POLICY of ER, wiring etc.							
3	A	16.00	Numbers	6041.00	96656.00	AT Par	96656.00	
	Description:- Supply of Dual Tone Bell/Buzzer with Flasher arrangement and 20 Watt horn working on 24 V DC/ 110 V AC for warning road users at LC gates. Inspection: Consignee							
4	A	8.00	Numbers	20390.00	163120.00	AT Par	163120.00	
	Description:- Supply of electrical lifting barrier booms of 9.76 meter each as per DRG RDSO/S 11600. The material will be as per RDSO Spec. No. RDSO/SPN/208/2012 Ver.2.0 and Amendment.1 or latest. To be procured from RDSO approved sources. Inspection: RDSO.							

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TENDER DOCUMENT**

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Closing Date/Time: 22/07/2026 15:00

5	A	8.00	Numbers	38364.00	306912.00	AT Par	306912.00	
	Description:- Supply of Motorised boom locking set (consisting of locking arrangement for two booms). The material will be as per RDSO Spec. No. RDSO/SPN/208/2012 Ver.2.0 and Amendment.1 or latest. To be procured from RDSO approved sources. Inspection: RDSO							
6	A	8.00	Numbers	14806.00	118448.00	AT Par	118448.00	
	Description:- Supply of PMDC Motor 24V DC, 90W/1500 RPM. The material will be as per RDSO Spec. No. RDSO/SPN/208/2012 Ver.2.0 and Amendment.1 or latest. Warranty Certificate of OEM to be submitted. To be procured from RDSO approved sources. Inspection: RDSO							
7	A	8.00	Numbers	2747.00	21976.00	AT Par	21976.00	
	Description:- Supply of boom lock PMDC motor 24V DC/40W/1500 RPM. The material will be as per RDSO Spec. No. RDSO/SPN/208/2012 Ver.2.0 and Amendment.1 or latest. Warranty Certificate of OEM to be submitted. To be procured from RDSO approved sources. Inspection: RDSO							
8	A	8.00	Numbers	6850.00	54800.00	AT Par	54800.00	
	Description:- Supply of Friction Clutch Sub Assembly. The material will be as per RDSO Spec. No. RDSO/SPN/208/2012 Ver.2.0 and Amendment.1 or latest. To be procured from RDSO approved sources. Inspection:RDSO							
9	A	8.00	Numbers	60614.00	484912.00	AT Par	484912.00	
	Description:- Supply of Control cum Indication panel Domino Type as per approved PFD at Mid-section interlocked LC Gate as per RDSO Specification No. RDSO/SPN/186/2004Rev. 2.0 or latest. Size of each Domino will be 54 x 34 mm2. Control Panel includes panel rest, front and side table, complete with switches, push button, termination of cables, painting and lettering as required. This also includes 10% spare of panel LED's, Dominos and button assemblies, counter, keys, buzzer etc. Inspection: RDSO							
10	A	8.00	Numbers	6062.00	48496.00	AT Par	48496.00	
	Description:- Installation, fixing, complete wiring, testing , commissioning of the Control cum Indication panel domino type at Mid-section interlocked LC Gate as per approved interlocking plan, FPD, circuit diagram etc. This includes termination/ soldering of cables/wires, lettering.							
11	A	8.00	Set	249072.00	1992576.00	AT Par	1992576.00	
	Description:- Supply of sliding boom gate as per eastern railway signal workshop/Howrah's drawing no. SW/SA/768 or Latest. This includes a supply of 6 nos. E-type lock with key as per IRS Spec. No. IRS:S-30/64 with latest amendment. Key lock 'e' type as per drawing no. SA-3376/M, SA-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:RITES Payment: 80% on supply and balance on commissioning.							
12	A	8.00	Set	67031.00	536248.00	AT Par	536248.00	
	Description:- 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 350 mm. x 350 mm. x 8 mm., cement, sand, stone chips etc. For foundations required in each set of gate.							
13	A	8.00	Set	8872.00	70976.00	AT Par	70976.00	
	Description:- 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							
14	A	8.00	Set	7907.00	63256.00	AT Par	63256.00	
	Description:- Supply of paint of approved quality (Asian, Berger, Nicholson) and painting of complete sliding boom arrangements and accessories (Rectangular boom movement stand, pillar supports, resting stand with one coat of red oxide and two coats of Yellow/black enamel paint & Yellow color retro reflective tape (HIP) with width of 12" and as directed by engineer in-charge at site.							
15	A	2.00	Station	1828281.00	3656562.00	AT Par	3656562.00	
	Description:- Modification/Alteration in existing EI (Electronic Interlocking) as per latest RDSO guidelines & TAN. It includes: Design and modification in existing Interface, Interlocking circuits and logic of EI system including modification in the VDU (Video Display Unit)/ LCP (Local Control panel), CCIP (Control cum Indication Panel) if any, Maintenance terminal (MTPC), Data Logger, Relay rack wiring etc. The complete work should comply with the latest RDSO specifications, guidelines and as per approved SIP & circuit diagrams. All the material (Interface cards/ relays/ wiring material/ connectors/ fuses /communication devices etc.) shall be provided by the contractor. The work includes the supply of modified Selection table, Interface Circuits, VDU/LCP, CCIP diagram if any etc. to suit the modified SIP. It also includes the carrying out of FAT, SAT or two rounds FAT (as applicable) jointly with Railways and satisfactory commissioning. All plans/drawings/circuits etc. should be prepared on Auto CAD. Soft copy including Auto CAD copy has to be supplied in pen drive and 06 sets of hard copies also to be supplied as a completion drawing.							
	A	8.00	Numbers	70159.00	561272.00	AT Par	561272.00	

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TENDER DOCUMENT**

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Closing Date/Time: 22/07/2026 15:00

16	Description:- 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. Payment: 70% on supply, balance on commissioning.						
17	A	45.00	Numbers	3364.00	151380.00	AT Par	151380.00
	Description:- 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. Payment: 70% on supply, balance on commissioning. Note- To be used in Ceiling at Relay Room, IPS room, OFC room.						
18	A	8.00	Numbers	185877.00	1487016.00	AT Par	1487016.00
	Description:- 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. Payment: 70% on supply, balance on commissioning						
19	A	500.00	Metre	379.00	189500.00	AT Par	189500.00
	Description:- 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.						
20	A	8.00	Numbers	3995.00	31960.00	AT Par	31960.00
	Description:- 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. Payment: 70% on supply, balance on commissioning. Note- To be provided at a location diligently chosen.						
21	A	8.00	Numbers	8963.00	71704.00	AT Par	71704.00
	Description:- 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. Payment: 70% on supply, balance on commissioning.						
22	A	600.00	Metre	125.00	75000.00	AT Par	75000.00
	Description:- 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. Payment for Supply Items: 70% on supply and balance on commissioning.						
23	A	8.00	Numbers	6009.00	48072.00	AT Par	48072.00
	Description:- Supply of CO2 type fire extinguisher capacity 4.5 Kg capacity ISI Mark IS: 15683 operating temperature (-30)°to (50)° for class 13 B type of fire with 1 mtr. Hose pipe fitted with PVC bend horn complete in all respect. Inspection: Consignee.						
24	A	80.00	Metre	115.00	9200.00	AT Par	9200.00
	Description:- Supply of Red/Yellow/Black Highlighter Reflective Tape (50 mm. width) of grade retro reflective tape conform to IS 14221 or latest, BIS marked, Grade 2, Pressure type bonding for (Grade 1) R1-P. Inspection- Consignee.						
25	A	8.00	Numbers	1227790.00	9822320.00	AT Par	9822320.00
	Description:- Supply of Integrated power supply (IPS) system as per RDSO Spec. No. RDSO/SPN/165/2023 (Ver.4.0) Amdt.1 or latest and also as per ER letter no-S.42/2/Vol.-III dated-26.11.2025 (Typical Application Auto/IB/LC Hut) along with 200AH Low maintenance Lead Acid (LMLA) or Valve Regulated Lead Acid (VRLA) Battery Bank with complete accessories as per the drawing. Inspection: RDSO. Payment: 70% on supply and balance on installation and testing.						

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

26	A	8.00	Numbers	70082.00	560656.00	AT Par	560656.00	
	Description:- Installation, grouting, Testing and Commissioning of Integrated Power Supply System as per Specification No. RDSO/SPN/165/2023 Ver.4.0, Amdt.1 or latest. It will include initial charging of Battery, Installation of SPD/LVD, Installation wiring of SM Monitoring Panel, Wiring of Alarms/SPDs to data logger, wiring between IPS to SPD, Installation shall be done as per RDSO TANs, with best installation practices and PCCL by the authorized competent Engineer of the OEM							
27	A	8.00	Numbers	253359.00	2026872.00	AT Par	2026872.00	
	Description:- Supply of Remote Terminal Unit (RTU) with 128 digital input & 16 analog input as per RDSO Spec. No. IRS (S) 99/2006 with Amdt.3.0 or latest. Inspection: RDSO.Payment: 80% on supply and balance on installation and Testing/SAT.							
28	A	8.00	Numbers	24973.00	199784.00	AT Par	199784.00	
	Description:- Installation, wiring, testing & commissioning of Micro Processor based Remote Terminal Unit (RTU) with 128 digital input & 16 analog input. It covers complete indoor relay room wiring from data logger to relay rack tag blocks, drawing/extension of power supply upto Data Logger. It includes relay room door lock checking arrangement, RDSO/CLS Panel output power supply monitoring arrangement & DG sets, ELD , IPS,UFSBI, Block Instruments, SPDs, Auto Changeover Equipments/Modems, TFBC Alarms, AFDAS Alarms, RDPMS Alarms, 48 Volts Telecom supply, and interlinking and networking of Data logger. 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.08.12.2011 or latest guidelines of Railway Board/RDSO/Zonal Railway. Networking of data logger includes extraction of data reports from the Control room. Exceptional reports are to be generated by a computer connected to a datalogger at the station and at a central location in the 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 the Relay Room or in OFC/AUTO/EI Huts. The final commissioning will be done after filling up the Pre-Commissioning checklist (circulated by RDSO) with the OEM representative. Datalogger to be validated and commissioned before simulation test / SAT 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.							
29	A	80.00	Metre	696.00	55680.00	AT Par	55680.00	
	Description:- Fabrication, supply and fixing aluminum ladder of size 25 X 25 X 5 mm., 200 mm. width, arrangements for drawing various wires in the battery, equipment and relay rooms. Inspection: Consignee.							
30	A	8.00	Numbers	1523.00	12184.00	AT Par	12184.00	
	Description:- Supply of Tag block 200 way/160 way with PVC covers as per IRS:S-77/2006 (Rev.1) or latest &Drg. No. SA-24751 & 52. Requirement of each type shall be specified by Engineer-in-charge. NOTE: In case ABB type relays are proposed to be used with 100 way block then Two 100 way Tag Block will be considered as one 200 way Tag Block. Inspection: RDSO							
31	A	20.00	Numbers	1140.00	22800.00	AT Par	22800.00	
	Description:- Supply of Domino units with cover plate as per approved panel diagram, each of size 54 x 34 mm. completely wired up similar to Siemens or similar make. Each domino units should have all the 15 contact terminals wired up. Inspection: Consignee.							
32	A	2500.00	Per Conductor	6.00	15000.00	AT Par	15000.00	
	Description:- Termination of Outdoor Cables (Main Cables /tail cables) in cable termination rack in relay room, station building 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 the contractor (Lugs, eyelets, Power cables should be terminated with suitable lugs/eyelets wherever applicable).							
33	A	8.00	Numbers	5794.00	46352.00	AT Par	46352.00	
	Description:- Supply of Gate (slave) Telephone with voice recorder as per RDSO Spec. No. RDSO/SPN/TC/51/2011 Rev.4.0. Inspection: RDSO.							
34	A	8.00	Numbers	824.00	6592.00	AT Par	6592.00	
	Description:- Installation, testing and commissioning of slave gate telephone. This Includes testing and commissioning, all installation related material to be supplied by the contractor as per site requirement							
35	A	36.00	Numbers	5725.00	206100.00	AT Par	206100.00	
	Description:- Supply of Track feed Battery Charger as per RDSO Spec. No. IRS: S-89/2013 Ver.1.0 or latest. Charging Capacity Rating 10 Amps for Charging 80 AH Battery. Inspection: RDSO.							
36	A	110.00	Numbers	4384.00	482240.00	AT Par	482240.00	

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

		Description:- Supply of 2V/80AH uncharged Low Maintenance Lead Acid (LMLA) secondary cell, shelf mounting type conforming to RDSO Spec. No. IRS:S-88/2004 or latest with inter cell connectors, nuts and bolts etc. Inspection: RDSO.					
	A	110.00	Numbers	462.00	50820.00	AT Par	50820.00
37		Description:- Charging of 2V/80AH lead acid cell (Secondary cell) of various capacities as per Manufacturer's/Railway engineer's instruction. Acid and distilled water to be supplied by the contractor. Specific gravity acid should be approved type duly inspected by consignee. This includes installation and commissioning of the battery in circuit. Battery to be kept on a wooden rack.					
	A	40.00	Numbers	200.00	8000.00	AT Par	8000.00
38		Description:- Supply of Adjustable Track Feed Resistance 30 Ohms (Disc Type) as per RDSO Drg. No. SA-20161-66/M or latest. To be procured from RDSO Approved sources. Inspection: RDSO					
	A	75.00	Numbers	4507.00	338025.00	AT Par	338025.00
39		Description:- Supply of Track Lead Junction Box (TLJB) made from FRP material including brass bolts and hylam board sheet with 4 terminals as per ER drawing no- SI/TYP/0096& ER Technical circular policy no-118 (Modified). Inspection: RITES/CONSIGNEE. The technical specifications are as follows: (a) TLJB complete with cover to be in black/red having approximate weight of 4.0 Kg. with L-262 mm. W-212 mm. and H-90 mm. and all the holes required for mounting on FRP stump (vertical two for each FRP angle) HDPE pipe , cable etc. (b) Each TLJB shall have two bakelite terminal block fitted horizontally; each bakelite terminal block shall have two nickel chrome plate M10 brass terminal, 50 mm. long. Along with each TLJB, nickel chrome plated brass links (two nos. of adequate strength for vertical linking of the terminals to be supplied. (c) HDPE pipe of size 32/35 mm., 380 mm. long, along with two nuts for fixing on the TLJB hole . (d) The FRP stump for mounting the TLJB to be made of one meter long 30 mm. X 30 mm. X 4 mm. angle (2 nos.) and 300 mm. long 30 mm. X 30 mm. X 4 mm. angle (1 no.) fixed at 50 mm. from the bottom using galvanised nuts and bolts. The TLJB and the angles for stump should come along with holes on them for fixing using galvanised nuts and bolts of adequate strength to be supplied along with TLJB. Inspection:Consignee.					
	A	40.00	Numbers	6026.00	241040.00	AT Par	241040.00
40		Description:- Supply of B Type Choke as per RDSO Spec. No. IRS:S-65/83 (Amnd.1) or latest. Inspection: RDSO.					
	A	5000.00	Numbers	5.00	25000.00	AT Par	25000.00
41		Description:- Supply of Channel Pins MS (Galvanized) single groove, 7 mm. suitable for 4 mm. dia. bonding wire as per Spec. No. IRS S-17 & RDSO Drg. No. S-69/M. Inspection: Consignee.					
	A	2000.00	Metre	8.00	16000.00	AT Par	16000.00
42		Description:- Supply of GI wire 8 SWG (4 mm. dia.) suitable for track circuit rail bonding. Inspection: Consignee.					
	A	100.00	Numbers	100.00	10000.00	AT Par	10000.00
43		Description:- SUPPLY 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- RAYCHEM, 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					
	A	36.00	Per Track Circuit	4090.00	147240.00	AT Par	147240.00
44		Description:- Installation wiring, testing and commissioning of DC track circuit as per approved track circuiting plan. The work includes fixing of track bonding (double) with 8 SWG soft GI wire, rail connector with GI wire and fixing with bond pin with galvanised iron wire, track jumpers (double) with signalling cable. It also includes installation and wiring of track feed chargers, track relays, track circuit equipment's in the location box, including drilling of 9/32" hole on rails where required. Erection, fitting of Track Lead Junction Box on two supports. The work shall be done as per instructions of Rly engineer at site. GI wire, bond pin, TLJB, Track relay, Track resistance, Track feed charger, Choke, wire coil, fuses, terminal, signaling cable will be supplied by Railways					
	A	50.00	Numbers	11357.00	567850.00	AT Par	567850.00
45		Description:- Supply of color light signal post 4.5 mtr. as per RDSO Spec. No. IRS:S-6-81 (or latest) and Drg. No. SA-23156 (Adv.), Alt-1 (or latest). Inspection: Consignee					
	A	50.00	Numbers	9936.00	496800.00	AT Par	496800.00
46		Description:- Supply of 4.5 meter Ladder for Color Light Signal as per RDSO Drawing No. SA-23153 (Adv.) or latest and Stage with Ladder as per Drawing No. S-2033/M (IRS) or latest & as per Specification No. IRS:S-10/78 & IS:210 or latest. Inspection: Consignee.					
	A	50.00	Numbers	6320.00	316000.00	AT Par	316000.00
47		Description:- Supply of 140 mm diameter Cast Iron (Grade-20) Signal base as per Drawing No. S-2011/M and as per Specification No. IRS:S-10/78 & IS:210 or latest. Inspection: Consignee.					
	A	50.00	Numbers	10166.00	508300.00	AT Par	508300.00
48							

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

				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, Foundation Bolts, PVC Pipe, shuttering etc. as per Drg. No. S&T/C-42(NKG).				
49	A	27.00	Numbers	34896.00	942192.00	AT Par	942192.00	
				Description:- Supply of FRP type color light signal unit 3 aspect complete as per Drg. No. SA-23002/AIM with Latest amendment and as per RDSO Spec. no. RDSO/SPN/194/2006 Rev. 2.0 or latest. Inspection: RITES				
50	A	20.00	Numbers	32374.00	647480.00	AT Par	647480.00	
				Description:- Supply of FRP type color light signal unit 2 aspect complete as per Drg. No. SA-23003/AIM with latest amendments and as per RDSO Spec. no. RDSO/SPN/194/2006 Rev. 2.0 or latest. Inspection: RITES				
51	A	3.00	Numbers	39446.00	118338.00	AT Par	118338.00	
				Description:- Supply of FRP type color light signal unit 4 aspect complete as per Drg. No. SA-23001/NM with Latest amendments and as per RDSO Spec. no. RDSO/SPN/194/2006 Rev.2.0 or latest. Inspection:Consignee.				
52	A	50.00	Numbers	13314.00	665700.00	AT Par	665700.00	
				Description:- Erection of surface base, signal post, mounting of Color Light Signal up to 4 aspects complete on signal post, offset bracket, LED fixing, plumbing of the signal through sealing gap between Surface base and signal post, fixing of ladder with platform complete and concreting of ladder shoe, fixing of number plates, marker board, termination tail cables, wiring of signal unit, fixing of EWS locks, and painting of one coat of red oxide and two coats of aluminium/enamel paints , black paint on post, ladder, Platform, ladder shoe as per practice. When the aspect is fixed on an offset bracket using 'U' bolts and nuts, a through bolt shall be provided by drilling a hole in the signal pole to prevent the offset bracket from sliding down. Painting of Signal unit with two coats of white inside and Black outside (Supply of surface base, offset bracket, CLS pole, CLS aspects complete, ladder with shoes and platform, LED aspects, and wire coils will be supplied by Railways). (through bolts and nuts, cement, stone jelly 20/25mm dia. river sand, Signal Color Rings, all fixing bolts and nuts, teak wood, paints PVC/Nylon sleeves and all other miscellaneous materials for the work shall be supplied by the contractor)				
53	A	35.00	Numbers	470.00	16450.00	AT Par	16450.00	
				Description:- Supply, Fabrication of Retro reflective Nomenclature Board of size 254 mm. x 358 mm. made of 2 mm. thick aluminium sheet & high intensity prismatic (hip) grade retro reflective sheet (TYPE-IV) including fixing arrangement for fixing them on existing post per SEM and as per standard practice. Details of station, signal type and number to be obtained before supply. Inspection: Consignee.				
54	A	35.00	Numbers	694.00	24290.00	AT Par	24290.00	
				Description:- Supply, Fabrication of Retro reflective P / C / G marker made of 2 mm. thick aluminium sheet & high intensity prismatic grade retro reflective sheet (TYPE-IV) including fixing arrangement for fixing them on existing post per IRSEM and as per standard practice. Inspection: Consignee.				
55	A	35.00	Numbers	9238.00	323330.00	AT Par	323330.00	
				Description:- Supply of LED signal lamps for Main color light Signal RED Aspect, 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Spec. No. RDSO/SPN/199/2025 Revision.1.2 with Amendment - 1 or latest. Inspection: RDSO.				
56	A	35.00	Numbers	9454.00	330890.00	AT Par	330890.00	
				Description:- Supply of LED signal lamps for Main color light Signal YELLOW Aspect, 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Spec. No. RDSO/SPN/199/2025 Revision.1.2 with Amendment - 1 or latest. Inspection: RDSO.				
57	A	35.00	Numbers	10414.00	364490.00	AT Par	364490.00	
				Description:- Supply of LED signal lamps for Main color light Signal GREEN Aspect, 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Spec. RDSO/SPN/199/2025 Revision.1.2 with Amendment - 1 or latest. Inspection: RDSO.				
58	A	8.00	Numbers	7267.00	58136.00	AT Par	58136.00	
				Description:- Fabrication, Supply and fixing of goods warning board or any other board with engineering grade reflective sticker of size 600 X 1000 mm. GI sheet, with MS angle of 75 mm. X 75 mm. X 6 mm. with 6 meter length including paint, excavation of pit and concrete foundation etc. as per the instructions of sight in-charge. All necessary materials to be arranged by the contractor). Inspection: Consignee.				
59	A	8.00	Numbers	1548.00	12384.00	AT Par	12384.00	
				Description:- Provision of foundation for the signal/goods warning boards/all types of boards. (A pit of size 400 mm. x 400 mm. x 1500 mm. is to be dug and cement concrete foundation in the pit in the ratio 1:3:6 to be casted. The rail post/MS angle is to be erected up right in the foundation.				
60	A	4.00	Numbers	2754.00	11016.00	AT Par	11016.00	

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

61	A	4.00	Numbers	1205.00	4820.00	AT Par	4820.00	
	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. Inspection: RDSO.							
62	A	35.00	Kilometre	97822.00	3423770.00	AT Par	3423770.00	
	Description:- Jointing of 4 / 6 quad Signaling cable with Heat Shrinkable straight through Jointing Kit. All the materials required for the work are to be arranged by the 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 the Railway Engineer. If any defect or any damage is observed during jointing, the contractor has to redo the joint free of cost.							
63	A	200.00	Metre	1128.00	225600.00	AT Par	225600.00	
	Description:- Excavation of trench at a of Depth of 1200 mm. and width of 300 mm., including marking of cable alignment, clearing of jungle, roots of trees, bushes, refilling with excavated soil, ramming and consolidation after laying of cables complete to the finished item of work in all type of Soil. NOTE: In case 1.2 m. depth of the trench is not achievable due to site conditions approval of officer in charge is to be obtained and payment shall be made on a prorata basis							
64	A	150.00	Metre	437.00	65550.00	AT Par	65550.00	
	Description:- Trenching under Rails for crossing the track (Track Crossing) and refilling of trenches. The track crossing shall be done at right angles. The depth of the cable trench shall be 1.2 meter below the rail flange. The ballast shall be stacked separately while making the trench and the earth soil shall be stacked separately. While re-filling the trench, the earth soil has to be filled first to the ground level and the ballast has to be properly put in the track. This work has to be done under supervision of the supervisor of S&T.							
65	A	55000.00	Metre	7.00	385000.00	AT Par	385000.00	
	Description:- Cutting of platform surface (tile/slab/concrete) for a depth of 20 cm. & width of 10 cm.& refilling /reconditioning/ repairing the platform after laying pipe & cable. Cutting should be done with marble cutting machine in proper manner & restore the same as before in such a manner that the aesthetic of PF is not disturbed.							
66	A	100.00	Metre	1634.00	163400.00	AT Par	163400.00	
	Description:- Laying of S&T Cables of various cores/pairs/quads in trenches/GI pipes/RCC pipes/DWC pipes/Trunking							
67	A	35.00	Numbers	6499.00	227465.00	AT Par	227465.00	
	Description:- Manual Track crossing/ Road Crossing by Horizontal Boring method at culverts/track/pucca road. This also includes insertion of HDPE pipe of 110 mm./G.I. Pipe of 100 mm. in the bore drilled (HDPE pipe/GI pipe is to be supplied by Railway).							
68	A	6000.00	RMT	754.00	4524000.00	AT Par	4524000.00	
	Description:- Supply of Double Walled Corrugated (DWC) HDPE duct of outer Diameter 250 mm. and inner Diameter 217 mm. length of 6m. as per Specification RDSO/SPN/204/2011 Ver.1.1 Amd.1 or latest. The duct shall be supplied along with push-fit type O-ring coupler or end cap. Inspection:Consignee.							
69	A	1200.00	Metre	1326.00	1591200.00	AT Par	1591200.00	
	Description:- Supply and laying of split DWC pipe of 250/217 mm.diameter in already dug cable trenches as per Drawing No.SK.9/11. The unit of RMT means two split pipes of 1 Mtr. each. Inspection for supply :RITES							
70	A	300.00	Metre	360.00	108000.00	AT Par	108000.00	
	Description:- Supply of Light class GI pipes 100 mm. dia. (thickness 3.6 mm.) as per IS 1239 (Part-1):2004 or Latest with socket & coupling. Inspection: RITES							
71	A	80.00	Metre	295.00	23600.00	AT Par	23600.00	
	Description:- Laying & Fixing of GI pipes 50 mm./100 mm. as per IS 1239 (Part1):2004 with socket & coupling on culverts and bridges. It includes installation of all material required for fixing arrangement. The contractor will install a flexible/corrugated HDPE pipe at the end of the GI pipe along with any masonry work (if required) to protect the cables from sharp edges and sudden bends.							
72	A	9.00	Kilometre	33018.00	297162.00	AT Par	297162.00	
	Description:- Breaking of metal/tar road and refilling after laying the cables. Repair of pucca roads to original state in level crossing area after cable laying.							
73	A	9.00	Kilometre	79596.00	716364.00	AT Par	716364.00	
	Description:- Supply of 12 core Armoured Mono mode OFC cable as per latest TEC Specification or latest. Inspection:Consignee.							
74	A	9.50	Kilometre	7590.00	72105.00	AT Par	72105.00	
	Description:- Supply of 40 mm. dia. permanently lubricated HDPE telecom: ducts (with chord) as per RDSO Spec. No. RDSO/SPN/TC/45/2013 Rev.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. Color WILL be specified by Railways. Inspection:RITES							

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

	Description:- Laying of HDPE/DWC/GI Pipes.						
	A	9.00	Kilometre	13950.00	125550.00	AT Par	125550.00
75	Description:- Blowing of armoured optic fiber cable (OFC Cable supplied by Railways) into the HDPE duct by using a blowing machine and associated works. 10% of OFC length to be blown extra on both ends of Duct i.e. total 20% of Duct length. Before blowing the duct integrity shall be tested. The payment shall be made after ensuring duct integrity and corrective action wherever required at his own cost. Payment will be made as per the length of Duct from which OFC is Blown.						
	A	6.00	Numbers	5505.45	33032.70	AT Par	33032.70
76	Description:- Supply of 24 fiber optical fiber cable straight joint enclosure (SJC) complete with all accessories along with enclosures with heat shrinkable splice protection sleeve as per RDSO Spec. RDSO/SPN/TC68/2014 Revision 1.0, Amdt.1.0 or latest. Splice losses in no case should be more than 0.1 dB. Inspection: Consignee.						
	A	6.00	Numbers	10727.00	64362.00	AT Par	64362.00
77	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.						
	A	6.00	Numbers	25480.00	152880.00	AT Par	152880.00
78	Description:- Excavation of the jointing pit and provision of RCC/FRP joint /Loop chambers of 90 cm. Inner dia. 60 cm. depth and 3mm thickness with two pieces of top cover with hooks each and bottom cover with hole for drainage and cable entry as per Drg. No. RAILTEL/SR/OFC/ 2009/12 and as directed by Engineer to be provided at every joint location and at every Kilometer loop etc., The chamber shall be filled with sand mixed with ariti-stermic power, back filling and ramming of trench after HDPE duct laying, splicing and commissioning						
	A	30.00	cum	4533.00	135990.00	AT Par	135990.00
79	Description:- Cement concrete work for miscellaneous items in the ratio 1:3:6. Items include ramming, curing and plastering with cement & sand mixture (aggregate not exceeding 3.8 cm.) (Aggregate cement & sand to be supplied by the contractor).						
	A	400.00	Numbers	882.00	352800.00	AT Par	352800.00
80	Description:- Supply, transportation at site and Installation of RCC cable route marker engraved and painted on both side along the route at every 50 meter and at route diversion. The cable marker is to be fabricated as ER TECHNICAL POLICY CIRCULAR NO.108. Fixing work is to be done as per extant practice of E.Rly. and as per Railway site supervisor.50% payment will be done after supply of material. Material to be supplied at Site.						
	A	4.00	Numbers	2598.00	10392.00	AT Par	10392.00
81	Description:- Supply of Fiber Distribution Management system (FDMS)/LIU for 12 Fiber complete with all accessories such as patch cord & pigtail as per TEC Spec. GR/FDM/01/02 April '2007 or latest. This includes supply of installation accessories as per technical specification. Inspection: RITES/Consignee.						
	A	4.00	Numbers	2086.00	8344.00	AT Par	8344.00
82	Description:- Installation, splicing and commissioning of Fiber Distribution Management system (FDMS) for 12 Fiber complete with all accessories with patch cord & pigtail as per TEC Spec. with the latest amendment. The sundry material if required any to be supplied by the contractor.						
	A	20.00	Numbers	203.00	4060.00	AT Par	4060.00
83	Description:- Supply of OFC SC/SC Patch Cord 5 m Length. Inspection: Consignee.						
	A	75.00	Numbers	17543.00	1315725.00	AT Par	1315725.00
84	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 a location box (GKP type) with 'E' type lock & key, fitted on the 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. SA-3377 as per RDSO Drawing No. S-11500. Inspection: RITES						
	A	75.00	Numbers	13705.00	1027875.00	AT Par	1027875.00
85	Description:- Casting, concreting and curing of concrete foundation (in ratio 1:3:6), erection and installation of full size apparatus case as per Drg. No. S&T/C-6/98(NKG). This includes the 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. This also includes the bottom of apparatus cases filled with sand and the outside covered with masonry work and neat cement plastering. Note: Painting the apparatus case inside and outside with one coat of red oxide, two coats of aluminium paints outside and white paint inside						
	A	75.00	Numbers	6089.00	456675.00	AT Par	456675.00

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

86	Description:- Fixing by slotted angle, wiring of terminal strips, hylam strip, relays, fuses with base, fixing of HDHMR shelves for full size apparatus case with Termination & Earthing of cables and wiring with lettering both inside and outside as required including supply of slotted angles, ferrules for marking and miscellaneous materials per location to be supplied by contractor (all materials except Wires, relay, terminal strips, Bakelite strip, fuses with base and HDHMR shelves to be supplied by the contractor). It includes letter painting both inside and outside as per ER practice. NB-Multi strand cables and power cable to be terminated with proper lugs and required buss bar etc. to be supplied by the contractor. Inspection: Consignee.						
87	A	5.00	Numbers	3507.00	17535.00	AT Par	17535.00
	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						
88	A	20.00	Numbers	825.00	16500.00	AT Par	16500.00
	Description:- Supply of HDHMR (High Density, High Moisture Resistance) Shelf for Full Location Box Size 950 x 400 x 25 mm. Inspection: Consignee.						
89	A	28.00	Numbers	5552.00	155456.00	AT Par	155456.00
	Description:- Supply of Phenolic laminated Sheet/Hylam sheet, grade P3 in standard size of 1220 X 1220 x 10 mm. as per Spec. No. IS 2036 of 1995 or latest. Test report of manufacture to be supplied. Inspection: Consignee.						
90	A	3500.00	Numbers	69.00	241500.00	AT Par	241500.00
	Description:- Supply of Disconnect Terminal Block, Screw less type, 4-wire front entry (Two in-put & Two out-put) as per RDSO Spec. No. RDSO/SPN/189/2004 With latest amendments. The color will be decided by the Engineer - in - Charge. (Preferably In Blue, Red & Grey Colors in the ratio of 1:2:3) Inspection: RDSO						
91	A	350.00	Numbers	13.00	4550.00	AT Par	4550.00
	Description:- Supply of End plate 2.5 mm./0.091 in thick as per RDSO Spec. No. RDSO/SPN/189/2004 With latest amendments. Inspection: RDSO.						
92	A	350.00	Numbers	13.00	4550.00	AT Par	4550.00
	Description:- Supply of End Stopper 10 mm./0.0394 in width as per RDSO Spec. No. RDSO/SPN/189/2004 With latest amendments. Inspection: RDSO.						
93	A	105.00	Metre	128.00	13440.00	AT Par	13440.00
	Description:- Supply of Carrier Rails for above 35 mm. x 7.5 mm., 1 mm./0.039 in thickness un-slotted type as per site requirement. Inspection: Consignee.						
94	A	8.00	Numbers	87173.00	697384.00	AT Par	697384.00
	Description:- Supply of 8 channel Earth Leakage Detector (ELD) with configuration specified by Engineer In charge and as per specification RDSO/SPN/256/2025, Version 2.0 or latest with insulated tester, test probes, Mounting stand and Fuse board to isolate from distribution board as per requirement of channels. Inspection: RDSO.						
95	A	8.00	Numbers	11589.00	92712.00	AT Par	92712.00
	Description:- Installation, wiring, Calibration, testing and commissioning of Earth Leakage detector 8 channels as per specification RDSO/SPN/256/2025, Ver2.0 or latest and as per instructions of Rly. engineer in charge.						
96	A	200.00	Numbers	12.00	2400.00	AT Par	2400.00
	Description:- Supply of Tinned Copper LUGs for fitting Cable Size: 10 Sq.mm., Barrel Inner Dia: 4.7 mm., Barrel Outer Dia: 7.10 mm., Barrel Length: 10mm., Stud Hole Center Dia: 9.9 mm., Palm Width: 12.6 mm., Thickness: 1.8 mm., Lug Length: 27 mm., Thimble Type : Ring. Inspection: Consignee.						
97	A	100.00	Numbers	16.00	1600.00	AT Par	1600.00
	Description:- Supply of Tinned Copper LUGs for fitting in Cable Size : 16 Sq.mm., Barrel Inner Dia: 6.4 mm., Barrel Outer Dia 8.0 mm., Barrel Length: 12.2 mm., Stud Hole Center Dia: 10 mm., Palm Width: 12.6 mm., Thickness: 1.8 mm., Lug Length: 28-30 mm., Thimble Type: Ring. Inspection: Consignee.						
98	A	100.00	Numbers	35.00	3500.00	AT Par	3500.00
	Description:- Supply of Tinned Copper LUGs for fitting in Cable Size : 35 sq. mm., Barrel Inner Dia :13 mm., Barrel Outer Dia: 17 mm., Barrel Length: 12.2 mm., Stud Hole Center Dia: 10 mm., Palm Width: 12.6 mm., Thickness: 1.8 mm., Lug Length: 28-30 mm., Thimble Type: Ring. Inspection: Consignee.						
99	A	500.00	Metre	134.00	67000.00	AT Par	67000.00
	Description:- Supply of 1 x 10 (140/0.3) Sq.mm. multi strand copper power wire as per RDSO Spec. No. IRS:S-76/89 (Amdt.3) or latest. The color of the wire which is required will be specified by the Engineer in charge. Inspection: RDSO.						
100	A	300.00	Metre	173.00	51900.00	AT Par	51900.00

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

				Description:- Supply of 1 x 16(126/0.3) Sq.mm. multi strand copper power wire as per RDSO Spec. No. IRS:S-76/89 (Amdt.3) or latest. The color of the wire which is required will be specified by the Engineer in charge. Inspection: RDSO.				
101	A	70.00	Metre	214.00	14980.00	AT Par	14980.00	
				Description:- Supply of 1 x 35 (276/0.4) Sq.mm. multi strand copper power wire as per RDSO Spec. No. IRS:S-76/89 (Amdt.3) or latest. The color of the wire which is required will be specified by the Engineer in charge. Inspection: RDSO.				
102	A	70.00	Numbers	4858.00	340060.00	AT Par	340060.00	
				Description:- Supply of Copper bonded steel electrode of 3.0 m. long, 17.2 mm. dia. with copper bonding thickness of minimum macrons and UL listed as per RDSO Spec. 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. Inspection: RDSO Note: These electrodes to be used in ring earth/ perimetric earth.				
103	A	21.00	Metre	873.00	18333.00	AT Par	18333.00	
				Description:- Supply of Copper Strip 25 X 6 mm. as per specification No. IS:1897-2008. Inspection: Consignee.				
104	A	280.00	Numbers	317.00	88760.00	AT Par	88760.00	
				Description:- Supply of Copper tape for BRC(25 X 2) mm. as per specification No. IS:1897-2008. Inspection: Consignee.				
105	A	6400.00	Kg	147.00	940800.00	AT Par	940800.00	
				Description:- Supply of Earth Enhancement material for use in earth and in ring/perimetric earth as per Specification No. RDSO/SPN/197/2016 Ver.1.0 or latest. Inspection: RDSO				
106	A	70.00	Numbers	3761.00	263270.00	AT Par	263270.00	
				Description:- Installation of Unit Maintenance Free Earth as per RDSO Spec. No RDSO/SPN/197 Ver.1.0 or latest and conforming to RDSO Drg. No. SDO/RDSO/E&B/001 or Latest. It includes (i) Digging the earth in normal soil to the required depth. (ii) Insertion of electrode. (iii) Filling of earth enhancing compounds (Approx.30 Kg.) (iv) Supply, fixing of CC cover 1.5 ft. x 1.5 ft. 1 ft. wall thickness 2 inch with cover 3 inch thickness.(v) exothermic welding to connect with other Earth pit,MEEB.				
107	A	480.00	Metre	541.00	259680.00	AT Par	259680.00	
				Description:- Supply of 50 mm. x 6 mm. GI tape as per specification IS:2629-1985 for interconnecting earth electrodes in ring / perimetric earth. Inspection: Consignee.				
108	A	40.00	Numbers	100.00	4000.00	AT Par	4000.00	
				Description:- Installation, laying of GI Tape (50 X 6 mm.) for connecting Main earth pit to other earth pit in case of loop/ring/perimetric earth as per RDSO TAN no. STS/E/TAN/3006 , Ver.3.1 by providing earth enhancement material alongwith GI Tape. Note: 'No' in the unit column indicates 'per pair of earth pit'.				
109	A	16.00	Numbers	498.00	7968.00	AT Par	7968.00	
				Description:- Supply and Execution of Exothermic Welds for more than 16 sq. mm. wire. This includes a Welding Kit, Welding Powder, Mould and other necessary materials. Note - No. in unit column indicates per welding. Inspection:Consignee				
110	A	40.00	Numbers	382.00	15280.00	AT Par	15280.00	
				Description:- Supply and Execution of Exothermic Welds for upto 16 sq.mm. wire. This includes a Welding Kit, Welding Powder, Mould and other necessary materials. Note- No. in the unit column indicates per welding. Inspection: Consignee.				
111	A	105.00	Numbers	32.00	3360.00	AT Par	3360.00	
				Description:- Installation of MEEB/SEEB/BRC with the insulators (As per the instruction of Site Engineer). Fitting materials & Insulator (Dough Moulding Compound Conical type of different Size) as per the site requirement to be supplied by the contractor. Note: 'No' in the unit column indicates 'per insulator'.				
112	A	40.00	Set	27.00	1080.00	AT Par	1080.00	
				Description:- Supply of Nut Bolts, Washer (Stainless Steel) as per the site requirement (One set consists of 1 Nut, 1Bolt, 2 washer & 2 spring washer) Note: Hex Nuts, bolts and washers of size 5/16". Inspection: Consignee.				
113	A	160.00	Numbers	1886.00	301760.00	AT Par	301760.00	
				Description:- Supply of earth electrode (GI PIPE) as per CSTE/ER's (Drg. No. SI/TYP/0097 dated 25.03.25). Inspection: By RITES [for value of material above Rs.5.0 lakhs]. Inspection: Consignee.				
114	A	800.00	Metre	230.00	184000.00	AT Par	184000.00	
				Description:- Supply of MS FLAT (Spec. No.226 STD or latest) of size 35 mm. x 6 mm. as per CSTE/ER'S DRG. NO. S&T-1/2007 (or latest). (STANDARD MINIMUM LENGTH OF 5M OR MULTIPLE OF 5M) Inspection:Consignee.				
	A	160.00	Numbers	1464.00	234240.00	AT Par	234240.00	

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

115	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 PCSTE/ER's Drg. No. SI/TYP/0097 dated 25.03.2025 or latest. 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. Where required necessary holes to be drilled on the MS Flat. Full threaded bolts of 10 mm. dia. and length 40 mm should be welded in the apparatus cases in such a way that the MS flat at the apparatus case end can be fixed from outside or from inside (bolts of 10 mm. dia. and length 40 mm. should be supplied by the contractor). 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. Sig. Cable as provided by Railway is also to be laid and terminated on Earth Electrode and to GI Wire/GI Flat in Location Box.						
116	A	160.00	Numbers	720.00	115200.00	AT Par	115200.00
	Description:- Provision of cement concrete enclosure for earth electrodes as per CSTE/ER's (Drg. No. SI/TYP/0097 dated 25.03.25). Inspection: Consignee.						
117	A	8.00	Numbers	66093.00	528744.00	AT Par	528744.00
	Description:- Supply and installation of "FRANKLIN ROD" as per NFPA-780 Standards as per ER Drawing No.-SI/TYP/103. Installation to be done as per IEC standard. It also includes connection of down conductor with Franklin Rod and running of down conductor through PVC pipes and connecting the same to nearby earth electrode. All material required for installation to be supplied by the contractor. Inspection: Consignee.						
118	A	80.00	Metre	320.00	25600.00	AT Par	25600.00
	Description:- Supply of copper bonded steel conductor of size 50 Sq.mm. as per IEC/EN 62561-2 (VDE 0185-561-2) for connecting A-class LA to earth. Inspection: Consignee.						
119	A	8.00	Numbers	12334.00	98672.00	AT Par	98672.00
	Description:- Supply of Lightning Strike recorder LSC 6 digits shall be weather proof type. It should have a 6-digit event count & the capacity to count the smallest strike of intensity 3 KA. It should be a voltage sensing type counter so that it will register nearby strikes & static discharge due to induction effect as per IS 2309:1989 or latest. Make-Bakiral or better. Inspection: Consignee						
120	A	8.00	Numbers	623.00	4984.00	AT Par	4984.00
	Description:- Fixing of Down Conductor through HDPE Pipe for A'- Class Surge Arrestor. HDPE pipe will be supplied by Rly. Note: No. in Unit column indicates per Arrestor.						
121	A	72.00	Numbers	885.00	63720.00	AT Par	63720.00
	Description:- Supply of Class C, Type 2 Protection for 60-100V AC/DC/24-60V. Supply as per Clause No.3.11.2 of Specification No. RDSO/SPN/165/2023 Ver.4.0 or latest. The Class C SPD shall be with pluggable type, with indication and potential free contact. The supplier should submit an OEM certificate, KEMA, UL Certificate with the material, for connection between L1-L2, L1-E & L2-E. Inspection: RDSO						
122	A	400.00	Numbers	68.00	27200.00	AT Par	27200.00
	Description:- Supply of Fuse terminal block with LED indication up to 2.5 sq. mm. screw type one in one out suitable for 400mA/630mA/1A/1.6A/2A/4A/6.3A/8A10A or as decided by Engineer in charge as per RDSO SPN/189/2004 or latest. Inspection: RDSO.						
123	A	1500.00	Numbers	56.00	84000.00	AT Par	84000.00
	Description:- Supply of Fuse links of (400 mA, 630 mA, 1A, 1.6A, 2A, 4A, 6.3A & 10A, 250mA as per RDSO Spec. No. RDSO/SPN/189/2004 With latest amendments Inspection: RDSO.						
124	A	200.00	Numbers	34.00	6800.00	AT Par	6800.00
	Description:- Supply D type fuse block non indicating type low voltage non deteriorating fuse base suitable for fuse link of capacity 2A/6A/10A as per specification IRS:S-80/92 or latest. Quantity break up of each type of fuse block will be specified by Engineer in-charge. Inspection: RDSO.						
125	A	500.00	Numbers	35.00	17500.00	AT Par	17500.00
	Description:- Supply of D type fuse link non indicating type low voltage non detonating, capacity 2A/6A/10A as per specification IRS:S-80/92 or latest. Quantity break up of each type of fuse block will be specified by Engineer in-charge. Inspection: RDSO.						
126	A	8.00	Set	3731.00	29848.00	AT Par	29848.00
	Description:- Supply of the following resistors/condensers/diodes. a) 50V, 470 pF electrolytic capacitor - 20 Nos. b) 50V, 1000 pF electrolytic capacitor - 20 Nos. c) 50V, 2200 pF electrolytic capacitor - 20 Nos. d) 100 Ohms, 10W wire wound resistance - 20 Nos. e) BY127 diode - 10 Nos. f) PVC Insulation tapes of 25m. length - 25 Nos. Inspection- Consignee.						
127	A	95.00	Numbers	6406.00	608570.00	AT Par	608570.00
	Description:- Supply of Q-Series LED ECR(Universal Type i.e.QECX-61),4F/4B complete with plug board (base plate), connectors, retaining clips etc. and conforming to BRS:941A STS/E/RELAYS/AC LIT LED SIGNAL/09-2002, Amdt.1 and RDSO Spec. No. IRS:S-34 & S-23 with Amdt. upto date as applicable or latest. Inspection: RDSO.						

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

128	A	30.00	Numbers	8464.00	253920.00	AT Par	253920.00	
	Description:- Supply of Contactor Unit (QBCA1 Type), 24 V DC, 2F(HD)/4B complete with plug board (base plate), connectors, retaining clips etc. and conforming to BRS-943 and RDSO Spec. No. IRS:S-34 & S-23 with Amdt. upto date as applicable or latest. Inspection: RDSO.							
129	A	45.00	Numbers	4847.00	218115.00	AT Par	218115.00	
	Description:- Supply of Q-Series Line Relay (QNA1 Type), AC immunized, 8F/8B, 24 V DC along with plug board (base plate), connectors, retaining clips etc. and conforming to BRS-931A and RDSO Spec. No. IRS:S-34 & S-23 and S-60 or latest. Inspection: RDSO.							
130	A	250.00	Numbers	4372.00	1093000.00	AT Par	1093000.00	
	Description:- Supply of Q-Series Neutral Line Relay (QN1 Type), 8F/8B, 24V DC complete with plug board (base plate), connectors and retaining clips etc. and conforming to BRS-930 and RDSO Spec. No. IRS:S-34 & S-23 with Amdt. upto date as applicable or latest. Inspection: RDSO.							
131	A	30.00	Numbers	7208.00	216240.00	AT Par	216240.00	
	Description:- Supply of Q-Series Magnetically Latched Neutral Line Relay (QL1 Type), 11F/4B, 24V DC complete with plug board (base plate), connectors and retaining clips and conforming to BRS-935A and RDSO Spec. No. IRS:S-34 & S-23 with Amdt. upto date as applicable or latest. Inspection: RDSO.							
132	A	36.00	Numbers	4777.00	171972.00	AT Par	171972.00	
	Description:- Supply of Q-Series Track Relay (QTA2 Type), AC immunized, 9 Ohms, 2F/1B along with plug board (base plate), connectors, retaining clips etc. and conforming to BRS:939A & 966(Appendix F2) and RDSO Spec No. IRS:S-34 & S-23 with Amdt. Upto date as applicable or latest. Inspection: RDSO.							
133	A	36.00	Numbers	6508.00	234288.00	AT Par	234288.00	
	Description:- Supply of Q-Series Neutral Line Relay(QSPA1 Type), 24V DC, 8F/4B along with plug board (base plate), connectors, retaining clips etc. and conforming to BRS-933A and RDSO Spec. No. IRS:S-34 & S-23 & S 60 with Amdt. upto date as applicable or latest. Inspection: RDSO.							
134	A	14.00	Numbers	2670.00	37380.00	AT Par	37380.00	
	Description:- Supply of Relay fail-safe electronic time delay device with fixed timing of 60 seconds and conforming to RDSO Spec. No. IRS:S-61/2000 with Amnd.1 or latest mounted on Q-series relay base & covered complete with connectors, retaining clip etc. Inspection: RDSO							
135	A	14.00	Numbers	5408.00	75712.00	AT Par	75712.00	
	Description:- Supply of Fail safe electronic flasher device as per RDSO Spec. No. RDSO/SPN/173/2002 Amdt.2 or latest. Inspection: RDSO.							
136	A	8.00	Per Gate	28262.00	226096.00	AT Par	226096.00	
	Description:- Preparation and Supply of new Signal Interlocking Plan (SIP) based on approved Engineering Scale Plan (ESP) for LC Gate Note: The contractor shall supply tentative SIP 2 Copy for checking in paper print and after correction if any, submit (04 copies) for approval of Railway along with AutoCad file. After getting approval on tentative SIP, the final SIP shall be submitted in tracing paper (01 copy). 6 Copies in paper print/Ammonia print of Final Approved SIP to be Submitted to railways. Scanned copy of approved SIP and the AutoCAD file final version to be shared as soft copy with Railway in a suitable storage device. Inspection: Consignee.							
137	A	8.00	Per Gate	16056.00	128448.00	AT Par	128448.00	
	Description:- Preparation and Supply of Gate working Rule Diagram (GWRD) based on approved Signal Interlocking Plan (SIP) for s LC Gate. Inspection: Consignee. Note: The contractor shall supply tentative GWRD in paper print (04 copies) for approval of Railway along with AutoCad file. After getting approval on tentative SWRD, the final SWRD/GWRD shall be submitted in tracing paper (01 copy). After getting approval, 6 copies in paper print/Ammonia print and scanned copy of approved SWRD and the AutoCAD file final version to be shared as soft copy with Railway in a suitable storage device							
138	A	8.00	Set	41075.00	328600.00	AT Par	328600.00	
	Description:- Design in AUTOCAD and submission of two draft copies of Complete Outdoor Particular such as Cable Route Plan, Cable Corage Plan, Cable Termination Rack/Power Rack Particular, Track Bonding, and Location Box Particular along with NI wiring/NI Relay Disposition chart. One copy will be returned either duly approved or for resubmission for approval after incorporating the changes as required by Railways. After approval, one approved Tracing film copy & six copies (Ammonia Print or print as approved by Railway) of above drawings along with six copies of SIP and SWRD/GWRD in Plastic Covers. All above drawing to be scanned including SIP & SWRD, bound in 6 different booklet with Rexin Cover (Each booklet shall have minimum 10 spare plastic transparent sheet) and a soft copy to be submitted in a Pen Drive for following categories of Stations: Inspection: Consignee.							
	A	8.00	Per Gate	12553.00	100424.00	AT Par	100424.00	

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

139	Description:- Design of circuits and plans to suit layout as per Signalling Interlocking Plan of LC GATE. This will include supply of Control cum Indication panel diagram, wiring diagrams (Indoor and outdoor), 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 Axle counter wiring diagram and all other relevant drawings. Submission of Two sets of prints with all correction for Railway's approval. Approved copy (06 Sets) of all drawings in plastic folders along with the original tracings in spiral bound with editable AutoCAD file latest version.						
140	A	8.00	Per Gate	11272.00	90176.00	AT Par	90176.00
	Description:- Testing and commissioning the entire signalling installations jointly with the Railway representative at site at LC gates covered under various schedules of the Contract, and ensuring that all the signalling gears are installed and adjusted as per the existing rules.						
141	A	300.00	Numbers	205.00	61500.00	AT Par	61500.00
	Description:- Lettering / Numbering of termination particulars, equipment names etc., legibly and neatly inside full size location boxes. This includes supply of paints of make Asian Paints/ Nerolac / Dulux / Berger or better. Note: Location boxes in sl. no. 86 of this schedule are excluded in this work.						
142	A	215.00	Numbers	1831.00	393665.00	AT Par	393665.00
	Description:- Painting of existing color light Signals as per standard practice. The work involves scraping of old paint and two coats of aluminium enamel paint on the Signals & White paint inside signal unit and X mark on signal unit backside with white paint, Painting of Signal Unit, ladder, platform etc. complete as instructed by Railway representative at site (Paint and all other miscellaneous materials required for the work shall be supplied by the Contractor).Note: Signals in sl. no. 52 of this schedule are excluded in this work.						
143	A	300.00	Numbers	1774.00	532200.00	AT Par	532200.00
	Description:- Painting of existing FULL SIZE apparatus cases without disturbing the terminations and equipments inside. The work involves scraping of old paint, applying two coats of Aluminium paint outside & two coats of white paint inside apparatus cases, painting of termination, equipment and number particulars on apparatus cases as instructed by Railway representative at site (Paints and all other miscellaneous materials required for the work shall be supplied by the Contractor). Note: Location boxes in sl. no. 85 of this schedule are excluded in this work.						
144	A	300.00	Numbers	293.00	87900.00	AT Par	87900.00
	Description:- Painting of Point machine and ground connections by two coats of Enamel paint over one coat of Red Oxide primer after scrapping and cleaning of the surface. Paint to be of reputed make Asian/Dulux/Berger or similar. (Point machine by Black enamel and ground connection by Red oxide).						
145	A	8.00	Numbers	19897.00	159176.00	AT Par	159176.00
	Description:- Supply of Current Clamp Meter of Model Fluke 317 or similar with the following specification. 1. True RMS responding. 2. Voltage - DC 600V, AC 600V, DC accuracy - $\pm 1\%$ + 4 digit. 3. AC accuracy - $\pm 1.5\%$ + 5 digit. 4. Current - DC 600A, AC 600A, AC accuracy: - $\pm 1.5\%$ + 5 counts, AC / DC current measurement. 5. Unique 40A low frequency measurements capability with 0.01A resolution. 6. Special filter circuit to enable accurate measurement of PWM output. 7. Additional measurement of resistance. 8. Continuity check feature. 9. Data hold features with large, easy to read backlight display. 10. Calibration certificate. 11. 1 year warranty. Inspection:Consignee.						
146	A	8.00	Numbers	15014.00	120112.00	AT Par	120112.00
	Description:- Supply of true RMS 5 digit 60000 counts Digital Multi Meter with the following specification. 1. Frequency range - 6Hz to 1MHz mV AC. 2. Bandwidth - 10kHz. 3. AC voltage range - 1 mV - 1000V, $\pm 0.5\%$. 4. DC voltage range - 1 micro V - 1000V, $\pm 0.05\%$. 5. AC current range - 1 micro A - 10A, $\pm 0.5\%$. 6. DC current range - 1 nA - 10A, $\pm 0.2\%$. 7. Capacitance range - 1pF - 10000pF. 8. Data logging - 32000 Readings. 9. Dual display - Available. 10. Other features - Shall have temperature measurement, diode, continuity, duty cycle measurement, self battery voltage measurement, low pass filter, Mm, Max and average value recording, back light, bar graph, protective rubber holster. Inspection:Consignee.						
147	A	60.00	Numbers	274.00	16440.00	AT Par	16440.00
	Description:- Supply of Hydrometer as per IS: 3104 (Part II) -1982 or latest. Inspection: Consignee.						
148	A	20000.00	Numbers	7.00	140000.00	AT Par	140000.00
	Description:- Transportation of materials from any Stores to Site and vice-versa including loading and unloading , lead above 50 km. Note: in unit column Number means PTPK (Per Trip Per Km)						
149	A	7.00	Numbers	21636.00	151452.00	AT Par	151452.00
	Description:- Supply of Steel Plain Almirah with 4 adjustable slaves. Size: 1980 mm. height, 915 mm. width and 485 mm. depth. Make: Godrej Storewel Plain Large or Better of reputed brand. Inspection: Consignee						
150	A	7.00	Numbers	16244.00	113708.00	AT Par	113708.00
	Description:- Supply of Office table with laminated top with three drawers on left hand side and one locker on the right hand side. Olive brown with duplicate keys. Make: Godrej Model T-9 (136.5 cm. X 68 cm. X 75 cm.) or Superior of reputed brand. Inspection: Consignee.						

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

151	A	15.00	Numbers	3658.00	54870.00	AT Par	54870.00	
	Description:- Supply of Office Chair make Godrej CH-7B or better of reputed brand. Inspection: Consignee.							
152	A	8.00	Set	46217.00	369736.00	AT Par	369736.00	
	Description:- Supply of Fuse Auto Changeover system of various types of fuses with audio visual indication as per specification RDSO/SPN/209/2012 Ver.2.0 or latest. One module shall be able to cater for 32 numbers of fuses. Inspection: RDSO.							
153	A	8.00	Numbers	27615.00	220920.00	AT Par	220920.00	
	Description:- Supply 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 to accommodate 100 relays complete with fittings. Inspection:Consignee.							
154	A	8.00	Numbers	10376.00	83008.00	AT Par	83008.00	
	Description:- Installation of Relay Rack Assembly including IDF pillars if any complete with wall supports, scaffolding, ladders, runway for cables, fixing of Relay base plates, relay rack wiring with laying dressing of wire, wiring of relay base with soldering , termination, fixing of Tag blocks, lettering etc. The work shall be done as per approved plan, extant practice on ER & the instructions of Rly engineer at site.							
155	A	8.00	Numbers	54982.00	439856.00	AT Par	439856.00	
	Description:- Supply of Cable termination Racks (CTR) as per Drawing No. ER DRG.NO. S&T/C-19/2001 or latest and must be powder coated of stone grey color. Inspection:Consignee.							
156	A	8.00	Numbers	7759.00	62072.00	AT Par	62072.00	
	Description:- Execution, Installation of Cable Termination Rack. Fixing & installation of CTR (Rack erection, tripod, insulation bush, supporting angles, grouting) , fixing of hylam sheet, fixing of required terminals and fuses, holes on Hylam sheet for wiring, lettering. Hylam sheet, terminal, fuses will be supplied by Railways.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B-NON SOR items : Interlocking of LC Gates having TVU more than 10,000 in Andal -Sainthia , Deoghar - Dumka , Mohanpur Jn. - Handsiha sections of Asansol Division							16555440.80	Above/ Below/Par
1	B	24.00	Numbers	7124.65	170991.60	AT Par	170991.60	
	Description:- Supply of Electric Key Transmitterwith key as per Specification No.IRS:S-21/01 or latest & Drg. No.SA- 22601(alt. 4) or latest. Ward Number of key will be advised byRly. Site Engineer. Inspection:RDSO							
2	B	24.00	Numbers	6592.12	158210.88	AT Par	158210.88	
	Description:- Installation, fixing, wiring, testing of Electrical Key Transmitter(EKT). This includes supply of all fixing materials as required, angles, clamps, wire casing/duct, screws, nuts & bolts, hylum sheet of 12 mm thickness, wooden shelf and the work will be done as per instruction of Rly. site Engineer. Only EKT with key , terminals, wire will be supplied by Railway.							
3	B	8.00	Set	9665.87	77326.96	AT Par	77326.96	
	Description:- Installation, wiring resting , commissioning of Fuse Auto change over system (FACS).This includes provision of common buzzer & indication at SM room & SIM maintenance room and lettering of fuse details. This also includes fabrication of frame for installation of FACS at LC Gate. Inspection : Consignee.							
4	B	50.00	Numbers	261.90	13095.00	AT Par	13095.00	
	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 consignee. All required materials like wire, soldering materials, paint etc. to be supplied by the contractor for execution of the work.							
5	B	52.00	Kilometre	269630.00	14020760.00	AT Par	14020760.00	
	Description:- Supply of underground, unscreened, PVC insulated, PVC inner sheathed armoured and PVC outer jacket railway signalling cable 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) or latest. Inspection : RDSO							
6	B	3.00	Kilometre	312936.00	938808.00	AT Par	938808.00	
	Description:- Supply of Underground Railway Jelly filled Telecom 6- Quad Cable(0.9 mm Dia) for Signalling and Telecom Installation, as per Spec. No. IRS:TC-30/2005 (Ver.-1) (Amd. 5) or latest. Inspection: RDSO.							
	B	4.00	Numbers	37090.37	148361.48	AT Par	148361.48	

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

7	Description:- Supply of Dual card internal RS232 to E1 Converter (internal E1 modem) for data logger networking. Inspection -Consignee. Specification of E1 converter: 1)Data logger Compatible, (6U) Euro rack Dual port RS 232 to E1 Converter suitable to be Placed in Existing Modem slot in data logger. 2) DTE side: Asynchronous(RS232).3)DTE baud rate between 9600bps & 115200 bps4)DCE side: 4 wire E1 communications(G.703) Line speed 2 MBPS.5)Line Impedance:120 Ohm6)Power supply rating: working on Existing 5V DC in Data logger 7)Each Card should have a pair of RS-232 to E1 converters 8)Inbuilt BERT tester9)Supports following loop back tests for diagnostic purpose-Remote Loop back Test & Local Loop back test. E1 Compliances:1)Should Comply with ITU-TG.703 2)E1 Transceiver chipset should comply ITU-T G.736,G.742,G.823 3)Interface rate:2.048 Mbps±50 ppm 4)Line Isolation needed to be 1500VRMS 5)Port connector: Euro Connectors. RS-232 port compliance: 1)Standards Compliance: EIA RS-232C2)Interface Types: RS-2323)Signal: TXD, RXD, GND4)DTE baud rate - 9600 bps to 115200 bps 5)Asynchronous serial. Inspection: Consignee							
8	B	4.00	Numbers	3709.03	14836.12	AT Par	14836.12	
	Description:- Installation, testing, commissioning of dual card E1 converter. Necessary connectors/materials/wires/wiring materials to be supplied by contractor for installation, commissioning.							
9	A	4.00	Pair	30207.69	120830.76	AT Par	120830.76	
	Description:- Supply of Media Converter (dark fiber to RS-232) between RTU & data logger. Inspection: Consignee Minimum Specification of Media Converter: Fiber cable requirements: single mode fiber ITU-T G.652, Fiber connector: SC Connector ,Average output power: -7dBm (min), 0dBm(max), Receiver sensitivity:-18dBm, Wavelength: 1310nm±40nm ,Data rate: upto 2mbps Distance support: 20km.(max), RS-232 port ,Interface type: RS-232 (5-PIN push fix pluggable connector), Signal: TXD, RXD, GND, Baud rate: upto 250 kbps. Electrical & mechanical: Operating input voltage: 24V/DC, Voltage working range: 9-36 VDC ,Power consumption: 1watt(max), Operating temp: -10°C to + 70°C. Inspection: Consignee							
10	B	4.00	Pair	2013.84	8055.36	AT Par	8055.36	
	Description:- Installation, testing & commissioning of Media Converter as per instruction of site engineer. Inspection: Consignee.							
11	B	4.00	Numbers	8285.78	33143.12	AT Par	33143.12	
	Description:- Supply of wall mount 9U Rack no. E1 enclosures Networking/Server Rack with power strip 5A socket 06 no. & MCB, Depth of the Rack: Upto 500mm, Transparent Toughened Glass used in front door, CRCA Steel rear door, with Secure Locks, Support cable entry from top or bottom, with fan tray and two nos. fans, ,make: Valrack/Dyanamic Rack/Digilink or similar. Inspection: Consignee.							
12	B	200.00	Day	4243.74	848748.00	AT Par	848748.00	
	Description:- Execution of various jobs like TLJB/Point JB lifting / replacement , point machine & signal related works, cleaning/dressing/, infringement clearance & ancillary work during p.way work, block programme work, patch work , various S&T related works etc. in a day with 4 unskilled labours and 01 skilled labour . Contractor will arrange 4 unskilled labours and 01 skilled labour for a day's works. Required personal safety items for labours & hand tools for work to be supplied by the contractor. The work will be done as per instruction of Rly site Engineer. NOTE: Contractor has to arrange separate group of 4 unskilled labours & 1 skilled labour at different locations over the division in a day as per requirement. Each group work in a day will be counted separately.							
13	B	8.00	Job	284.19	2273.52	AT Par	2273.52	
	Description:- Masonry job of Cutting of the wall for insertion of cable and repairing of wall with brick, sand and cement after laying of cables alongwith painting/Whitewashing as per instruction of Rly. site engineer. All masonry items to be supplied by the firm except cable.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () C-SOR items: Interlocking of L.C.Gate having TVU more than 10000 in UDL- BBI, UDL/LC-BQT, MDP-GRD sections							53666074.50	Above/ Below/Par
1	C	7.00	Set	566573.00	3966011.00	AT Par	3966011.00	
	Description:- Supply of Electrically operated Lifting Barrier complete set suitable for 110V AC / 24V DC / 110V DC. Supply of hand generator back up & motorized boom locking arrangements as per RDSO Spec. No. SPN/208/2012 Ver. 2.0 Amd.1 or with the latest amendment. One set consisting 02 No. of barriers of length 9.76 Mtrs. with stop boards, MS counterweights and 2 nos. of boom support, control panel, Spares & tool kit mentioned in RDSO Specification clause 10.1 & 10.2 mentioned below to be supplied with EOLB set : 10.1 Spares: (i) GI boom - 1 No. (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. (viii) Fuses used- 2 Sets. 10.2: Tool Kit as per RDSO specs. Warranty: Electric Lifting barrier shall be commissioned only if the installation is certified fit by the OEM. Electric Lifting Barrier complete including its sub-systems shall be under warranty for a period of 24 months date of commissioning, whichever is earlier. Inspection: RDSO. Payment: 80% on supply and balance 20% after commissioning.							
	C	7.00	Set	62460.00	437220.00	AT Par	437220.00	

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

2	Description:- : Installation, testing and commissioning of electrically operated lifting barrier, complete with Casting of cement concrete foundation (including supply of sand, stone, cement, bolt, plate, shuttering etc.) for pedestal and boom rest post, cabling, power supply connection & wiring with complete outdoor work as per approved drawing / POLICY of ER, wiring etc.						
3	C	14.00	Numbers	6041.00	84574.00	AT Par	84574.00
	Description:- Supply of Dual Tone Bell/Buzzer with Flasher arrangement and 20 Watt horn working on 24 V DC/ 110 V AC for warning road users at LC gates. Inspection: Consignee						
4	C	7.00	Numbers	20390.00	142730.00	AT Par	142730.00
	Description:- Supply of electrical lifting barrier booms of 9.76 meter each as per DRG RDSO/S 11600. The material will be as per RDSO Spec. No. RDSO/SPN/208/2012 Ver.2.0 and Amendment.1 or latest. To be procured from RDSO approved sources. Inspection: RDSO.						
5	C	7.00	Numbers	38364.00	268548.00	AT Par	268548.00
	Description:- Supply of Motorised boom locking set (consisting of locking arrangement for two booms). The material will be as per RDSO Spec. No. RDSO/SPN/208/2012 Ver.2.0 and Amendment.1 or latest. To be procured from RDSO approved sources. Inspection: RDSO						
6	C	7.00	Numbers	14806.00	103642.00	AT Par	103642.00
	Description:- : Supply of PMDC Motor 24V DC, 90W/1500 RPM. The material will be as per RDSO Spec. No. RDSO/SPN/208/2012 Ver.2.0 and Amendment.1 or latest. Warranty Certificate of OEM to be submitted. To be procured from RDSO approved sources. Inspection: RDSO						
7	C	7.00	Numbers	2747.00	19229.00	AT Par	19229.00
	Description:- Supply of boom lock PMDC motor 24V DC/40W/1500 RPM. The material will be as per RDSO Spec. No. RDSO/SPN/208/2012 Ver.2.0 and Amendment.1 or latest. Warranty Certificate of OEM to be submitted. To be procured from RDSO approved sources. Inspection: RDSO						
8	C	7.00	Numbers	6850.00	47950.00	AT Par	47950.00
	Description:- Supply of Friction Clutch Sub Assembly. The material will be as per RDSO Spec. No. RDSO/SPN/208/2012 Ver.2.0 and Amendment.1 or latest. To be procured from RDSO approved sources. Inspection: RDSO						
9	C	7.00	Numbers	60614.00	424298.00	AT Par	424298.00
	Description:- Supply of Control cum Indication panel Domino Type as per approved PFD at Mid-section interlocked LC Gate as per RDSO Specification No. RDSO/SPN/186/2004Rev. 2.0 or latest. Size of each Domino will be 54 x 34 mm2. Control Panel includes panel rest, front and side table, complete with switches, push button, termination of cables, painting and lettering as required. This also includes 10% spare of panel LED's, Dominos and button assemblies, counter, keys, buzzer etc. Inspection: RDSO						
10	C	7.00	Numbers	6062.00	42434.00	AT Par	42434.00
	Description:- Installation, fixing, complete wiring, testing , commissioning of the Control cum Indication panel domino type at Mid-section interlocked LC Gate as per approved interlocking plan, FPD, circuit diagram etc. This includes termination/ soldering of cables/wires, lettering						
11	C	7.00	Set	249072.00	1743504.00	AT Par	1743504.00
	Description:- Supply of sliding boom gate as per eastern railway signal workshop/Howrah's drawing no. SW/SA/768 or Latest. This includes a supply of 6 nos. E-type lock with key as per IRS Spec. No. IRS:S-30/64 with latest amendment. Key lock 'e' type as per drawing no. SA-3376/M, SA-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:RITES Payment: 80% on supply and balance on commissioning.						
12	C	7.00	Set	67031.00	469217.00	AT Par	469217.00
	Description:- 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 350 mm. x 350 mm. x 8 mm., cement, sand, stone chips etc. For foundations required in each set of gate.						
13	C	7.00	Set	8872.00	62104.00	AT Par	62104.00
	Description:- 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						
14	C	7.00	Set	7907.00	55349.00	AT Par	55349.00
	Description:- Supply of paint of approved quality (Asian, Berger, Nicholson) and painting of complete sliding boom arrangements and accessories (Rectangular boom movement stand, pillar supports, resting stand with one coat of red oxide and two coats of Yellow/black enamel paint & Yellow color retro reflective tape (HIP) with width of 12" and as directed by engineer in-charge at site.						
	C	7.00	Numbers	70159.00	491113.00	AT Par	491113.00

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

15	Description:- 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. Payment: 70% on supply, balance on commissioning.						
16	C	42.00	Numbers	3364.00	141288.00	AT Par	141288.00
16	Description:- 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. Payment: 70% on supply, balance on commissioning. Note- To be used in Ceiling at Relay Room, IPS room, OFC room.						
17	C	7.00	Numbers	185877.00	1301139.00	AT Par	1301139.00
17	Description:- 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. Payment: 70% on supply, balance on commissioning						
18	C	500.00	Metre	379.00	189500.00	AT Par	189500.00
18	Description:- 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.						
19	C	7.00	Numbers	3995.00	27965.00	AT Par	27965.00
19	Description:- 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. Payment: 70% on supply, balance on commissioning. Note- To be provided at a location diligently chosen.						
20	C	7.00	Numbers	8963.00	62741.00	AT Par	62741.00
20	Description:- 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. Payment: 70% on supply, balance on commissioning.						
21	C	350.00	Metre	125.00	43750.00	AT Par	43750.00
21	Description:- 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. Payment for Supply Items: 70% on supply and balance on commissioning.						
22	C	7.00	Numbers	6009.00	42063.00	AT Par	42063.00
22	Description:- Supply of CO2 type fire extinguisher capacity 4.5 Kg capacity ISI Mark IS: 15683 operating temperature (-30)°to (50)° for class 13 B type of fire with 1 mtr. Hose pipe fitted with PVC bend horn complete in all respect. Inspection: Consignee.						
23	C	70.00	Metre	115.00	8050.00	AT Par	8050.00
23	Description:- Supply of Red/Yellow/Black Highlighter Reflective Tape (50 mm. width) of grade retro reflective tape conform to IS 14221 or latest, BIS marked, Grade 2, Pressure type bonding for (Grade 1) R1-P. Inspection- Consignee.						
24	C	7.00	Numbers	1227790.00	8594530.00	AT Par	8594530.00
24	Description:- Supply of Integrated power supply (IPS) system as per RDSO Spec. No. RDSO/SPN/165/2023 (Ver.4.0) Amdt.1 or latest and also as per ER letter no-S.42/2/Vol.-III dated-26.11.2025 (Typical Application Auto/IB/LC Hut) along with 200AH Low maintenance Lead Acid (LMLA) or Valve Regulated Lead Acid (VRLA) Battery Bank with complete accessories as per the drawing. Inspection: RDSO. Payment: 70% on supply and balance on installation and testing.						

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

25	C	7.00	Numbers	253359.00	1773513.00	AT Par	1773513.00	
	Description:- Supply of Remote Terminal Unit (RTU) with 128 digital input & 16 analog input as per RDSO Spec. No. IRS (S) 99/2006 with Amdt.3.0 or latest. Inspection: RDSO.Payment: 80% on supply and balance on installation and Testing/SAT.							
26	C	7.00	Numbers	24973.00	174811.00	AT Par	174811.00	
	Description:- Installation, wiring, testing & commissioning of Micro Processor based Remote Terminal Unit (RTU) with 128 digital input & 16 analog input. It covers complete indoor relay room wiring from data logger to relay rack tag blocks, drawing/extension of power supply upto Data Logger. It includes relay room door lock checking arrangement, RDSO/CLS Panel output power supply monitoring arrangement & DG sets, ELD , IPS,UFSBI, Block Instruments, SPDs, Auto Changeover Equipments/Modems, TFBC Alarms, AFDAS Alarms, RDPMS Alarms, 48 Volts Telecom supply, and interlinking and networking of Data logger. 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.08.12.2011 or latest guidelines of Railway Board/RDSO/Zonal Railway. Networking of data logger includes extraction of data reports from the Control room. Exceptional reports are to be generated by a computer connected to a datalogger at the station and at a central location in the 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 the Relay Room or in OFC/AUTO/EI Huts. The final commissioning will be done after filling up the Pre-Commissioning checklist (circulated by RDSO) with the OEM representative. Datalogger to be validated and commissioned before simulation test / SAT 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.							
27	C	7.00	Numbers	3636.00	25452.00	AT Par	25452.00	
	Description:- Supply of Fiber Distribution Management system (FDMS)/LIU for 24 Fiber complete with all accessories such as patch cord & pigtail etc. as per TEC Spec. GR/FDM/01/02 April '2007 or latest. This includes supply of installation accessories as per technical specification. Inspection:Consignee							
28	C	7.00	Numbers	13142.00	91994.00	AT Par	91994.00	
	Description:- Installation, splicing and commissioning of Fiber Distribution Management system (FDMS) for 24 Fiber complete with all accessories such as patch cord & pigtail etc. as per TEC Spec. with the latest amendment. The sundry material if required any to be supplied by the contractor.							
29	C	35.00	Numbers	203.00	7105.00	AT Par	7105.00	
	Description:- Supply of OFC SC/SC Patch Cord 5 m Length. Inspection: Consignee.							
30	C	15.00	Kilometre	86066.00	1290990.00	AT Par	1290990.00	
	Description:- Supply of 24 Fiber Armoured Optical Fiber Cable as per Specification No. SPN/TC/110/2020 Rev.0 or latest. Inspection: RDSO							
31	C	15.00	Kilometre	79596.00	1193940.00	AT Par	1193940.00	
	Description:- Supply of 40 mm. dia. permanently lubricated HDPE telecom: ducts (with chord) as per RDSO Spec. No. RDSO/SPN/TC/45/2013 Rev.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. Color WILL be specified by Railways. Inspection:RITES							
32	C	15.50	Kilometre	7590.00	117645.00	AT Par	117645.00	
	Description:- Laying of HDPE/DWC/GI Pipes.							
33	C	15.00	Kilometre	13950.00	209250.00	AT Par	209250.00	
	Description:- Blowing of armoured optic fiber cable (OFC Cable supplied by Railways) into the HDPE duct by using a blowing machine and associated works. 10% of OFC length to be blown extra on both ends of Duct i.e. total 20% of Duct length. Before blowing the duct integrity shall be tested. The payment shall be made after ensuring duct integrity and corrective action wherever required at his own cost. Payment will be made as per the length of Duct from which OFC is Blown.							
34	C	10.00	Numbers	5505.25	55052.50	AT Par	55052.50	
	Description:- Supply of 24 fiber optical fiber cable straight joint enclosure (SJC) complete with all accessories along with enclosures with heat shrinkable splice protection sleeve as per RDSO Spec. RDSO/SPN/TC68/2014 Revision 1.0, Amdt.1.0 or latest. Splice losses in no case should be more than 0.1 dB. Inspection: Consignee							
35	C	10.00	Numbers	10727.00	107270.00	AT Par	107270.00	

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

	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.						
	C	10.00	Numbers	25480.00	254800.00	AT Par	254800.00
36	Description:- Excavation of the jointing pit and provision of RCC/FRP joint /Loop chambers of 90 cm. Inner dia. 60 cm. depth and 3mm thickness with two pieces of top cover with hooks each and bottom cover with hole for drainage and cable entry as per Drg. No. RAILTEL/SR/OFC/ 2009/12 and as directed by Engineer to be provided at every joint location and at every Kilometer loop etc., The chamber shall be filled with sand mixed with ariti-stermic power, back filling and ramming of trench after HDPE duct laying, splicing and commissioning.						
37	C	7.00	Numbers	5794.00	40558.00	AT Par	40558.00
	Description:- Supply of Gate (slave) Telephone with voice recorder as per RDSO Spec. No. RDSO/SPN/TC/51/2011 Rev.4.0. Inspection: RDSO.						
38	C	7.00	Numbers	824.00	5768.00	AT Par	5768.00
	Description:- Installation, testing and commissioning of slave gate telephone. This Includes testing and commissioning, all installation related material to be supplied by the contractor as per site requirement						
39	C	21.00	Numbers	5725.00	120225.00	AT Par	120225.00
	Description:- Supply of Track feed Battery Charger as per RDSO Spec. No. IRS: S-89/2013 Ver.1.0 or latest. Charging Capacity Rating 10 Amps for Charging 80 AH Battery. Inspection: RDSO.						
40	C	63.00	Numbers	4384.00	276192.00	AT Par	276192.00
	Description:- Supply of 2V/80AH uncharged Low Maintenance Lead Acid (LMLA) secondary cell, shelf mounting type conforming to RDSO Spec. No. IRS:S-88/2004 or latest with inter cell connectors, nuts and bolts etc. Inspection: RDSO.						
41	C	63.00	Numbers	462.00	29106.00	AT Par	29106.00
	Description:- Charging of 2V/80AH lead acid cell (Secondary cell) of various capacities as per Manufacturer's/Railway engineer's instruction. Acid and distilled water to be supplied by the contractor. Specific gravity acid should be approved type duly inspected by consignee. This includes installation and commissioning of the battery in circuit. Battery to be kept on a wooden rack.						
42	C	28.00	Numbers	200.00	5600.00	AT Par	5600.00
	Description:- Supply of Adjustable Track Feed Resistance 30 Ohms (Disc Type) as per RDSO Drg. No. SA-20161-66/M or latest. To be procured from RDSO Approved sources. Inspection: RDSO						
43	C	42.00	Numbers	4507.00	189294.00	AT Par	189294.00
	Description:- Supply of Track Lead Junction Box (TLJB) made from FRP material including brass bolts and hylam board sheet with 4 terminals as per ER drawing no- SI/TYP/0096& ER Technical circular policy no-118 (Modified). Inspection: RITES/CONSIGNEE. The technical specifications are as follows: (a) TLJB complete with cover to be in black/red having approximate weight of 4.0 Kg. with L-262 mm. W-212 mm. and H-90 mm. and all the holes required for mounting on FRP stump (vertical two for each FRP angle) HDPE pipe , cable etc. (b) Each TLJB shall have two bakelite terminal block fitted horizontally; each bakelite terminal block shall have two nickel chrome plate M10 brass terminal, 50 mm. long. Along with each TLJB, nickel chrome plated brass links (two nos. of adequate strength for vertical linking of the terminals to be supplied. (c) HDPE pipe of size 32/35 mm., 380 mm. long, along with two nuts for fixing on the TLJB hole . (d) The FRP stump for mounting the TLJB to be made of one meter long 30 mm. X 30 mm. X 4 mm. angle (2 nos.) and 300 mm. long 30 mm. X 30 mm. X 4 mm. angle (1 no.) fixed at 50 mm. from the bottom using galvanised nuts and bolts. The TLJB and the angles for stump should come along with holes on them for fixing using galvanised nuts and bolts of adequate strength to be supplied along with TLJB. Inspection:Consignee.						
44	C	28.00	Numbers	6026.00	168728.00	AT Par	168728.00
	Description:- Supply of B Type Choke as per RDSO Spec. No. IRS:S-65/83 (Amnd.1) or latest. Inspection: RDSO.						
45	C	500.00	Numbers	5.00	2500.00	AT Par	2500.00
	Description:- Supply of Channel Pins MS (Galvanized) single groove, 7 mm. suitable for 4 mm. dia. bonding wire as per Spec. No. IRS S-17 & RDSO Drg. No. S-69/M. Inspection: Consignee.						
46	C	1500.00	Metre	8.00	12000.00	AT Par	12000.00
	Description:- Supply of GI wire 8 SWG (4 mm. dia.) suitable for track circuit rail bonding. Inspection: Consignee.						
47	C	42.00	Numbers	100.00	4200.00	AT Par	4200.00
	Description:- SUPPLY OF POLYMER POSITIVE TEMPERATURE COEFFICIENT DEVICE (PTTC) 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- RAYCHEM, 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.						

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

48	C	20.00	Per Track Circuit	4090.00	81800.00	AT Par	81800.00	
	Description:- Installation wiring, testing and commissioning of DC track circuit as per approved track circuiting plan. The work includes fixing of track bonding (double) with 8 SWG soft GI wire, rail connector with GI wire and fixing with bond pin with galvanised iron wire, track jumpers (double) with signalling cable. It also includes installation and wiring of track feed chargers, track relays, track circuit equipment's in the location box, including drilling of 9/32" hole on rails where required. Erection, fitting of Track Lead Junction Box on two supports. The work shall be done as per instructions of Rly engineer at site. GI wire, bond pin, TLJB, Track relay, Track resistance, Track feed charger, Choke, wire coil, fuses, terminal, signaling cable will be supplied by Railways							
49	C	7.00	Numbers	27615.00	193305.00	AT Par	193305.00	
	Description:- Supply 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 to accommodate 100 relays complete with fittings. Inspection:Consignee.							
50	C	7.00	Numbers	10376.00	72632.00	AT Par	72632.00	
	Description:- Installation of Relay Rack Assembly including IDF pillars if any complete with wall supports, scaffolding, ladders, runway for cables, fixing of Relay base plates, relay rack wiring with laying dressing of wire, wiring of relay base with soldering , termination, fixing of Tag blocks, lettering etc. The work shall be done as per approved plan, extant practice on ER & the instructions of Rly engineer at site.							
51	C	7.00	Numbers	54982.00	384874.00	AT Par	384874.00	
	Description:- Supply of Cable termination Racks (CTR) as per Drawing No. ER DRG.NO. S&T/C-19/2001 or latest and must be powder coated of stone grey color. Inspection: Consignee.							
52	C	7.00	Numbers	7759.00	54313.00	AT Par	54313.00	
	Description:- Execution, Installation of Cable Termination Rack. Fixing & installation of CTR (Rack erection, tripod, insulation bush, supporting angles, grouting) , fixing of hylam sheet, fixing of required terminals and fuses, holes on Hylam sheet for wiring, lettering. Hylam sheet, terminal, fuses will be supplied by Railways.							
53	C	7.00	Numbers	1523.00	10661.00	AT Par	10661.00	
	Description:- Supply of Tag block 200 way/160 way with PVC covers as per IRS:S-77/2006 (Rev.1) or latest & Drg. No. SA-24751 & 52. Requirement of each type shall be specified by Engineer-in-charge. NOTE: In case ABB type relays are proposed to be used with 100 way block then Two 100 way Tag Block will be considered as one 200 way Tag Block. Inspection: RDSO							
54	C	12.00	Numbers	1140.00	13680.00	AT Par	13680.00	
	Description:- Supply of Domino units with cover plate as per approved panel diagram, each of size 54 x 34 mm. completely wired up similar to Siemens or similar make. Each domino units should have all the 15 contact terminals wired up. Inspection: Consignee.							
55	C	3500.00	Numbers	6.00	21000.00	AT Par	21000.00	
	Description:- Termination of Outdoor Cables (Main Cables /tail cables) in cable termination rack in relay room, station building 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 the contractor (Lugs, eyelets, Power cables should be terminated with suitable lugs/eyelets wherever applicable).							
56	C	40.00	Numbers	11357.00	454280.00	AT Par	454280.00	
	Description:- Supply of color light signal post 4.5 mtr. as per RDSO Spec. No. IRS:S-6-81 (or latest) and Drg. No. SA-23156 (Adv.), Alt-1 (or latest). Inspection: Consignee							
57	C	40.00	Numbers	9936.00	397440.00	AT Par	397440.00	
	Description:- Supply of 4.5 meter Ladder for Color Light Signal as per RDSO Drawing No. SA-23153 (Adv.) or latest and Stage with Ladder as per Drawing No. S-2033/M (IRS) or latest & as per Specification No. IRS:S-10/78 & IS:210 or latest. Inspection: Consignee.							
58	C	40.00	Numbers	6320.00	252800.00	AT Par	252800.00	
	Description:- Supply of 140 mm diameter Cast Iron (Grade-20) Signal base as per Drawing No. S-2011/M and as per Specification No. IRS:S-10/78 & IS:210 or latest. Inspection: Consignee.							
59	C	40.00	Numbers	10166.00	406640.00	AT Par	406640.00	
	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, Foundation Bolts, PVC Pipe, shuttering etc. as per Drg. No. S&T/C-42(NKG).							
60	C	1.00	Numbers	39446.00	39446.00	AT Par	39446.00	
	Description:- Supply of FRP type color light signal unit 4 aspect complete as per Drg. No. SA 23001/NM with Latest amendments and as per RDSO Spec. no. RDSO/SPN/194/2006 Rev.2.0 or latest. Inspection: Consignee.							
61	C	21.00	Numbers	34896.00	732816.00	AT Par	732816.00	

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

			Description:- Supply of FRP type color light signal unit 3 aspect complete as per Drg. No. SA-23002/AIM with Latest amendment and as per RDSO Spec. no. RDSO/SPN/194/2006 Rev. 2.0 or latest. Inspection: RITES				
62	C	18.00	Numbers	32374.00	582732.00	AT Par	582732.00
			Description:- Supply of FRP type color light signal unit 2 aspect complete as per Drg. No. SA-23003/AIM with latest amendments and as per RDSO Spec. no. RDSO/SPN/194/2006 Rev. 2.0 or latest. Inspection: RITES				
63	C	42.00	Numbers	13314.00	559188.00	AT Par	559188.00
			Description:- : Erection of surface base, signal post, mounting of Color Light Signal up to 4 aspects complete on signal post, offset bracket, LED fixing, plumbing of the signal through sealing gap between Surface base and signal post, fixing of ladder with platform complete and concreting of ladder shoe, fixing of number plates, marker board, termination tail cables, wiring of signal unit, fixing of EWS locks, and painting of one coat of red oxide and two coats of aluminium/enamel paints , black paint on post, ladder, Platform, ladder shoe as per practice. When the aspect is fixed on an offset bracket using 'U' bolts and nuts, a through bolt shall be provided by drilling a hole in the signal pole to prevent the offset bracket from sliding down. Painting of Signal unit with two coats of white inside and Black outside (Supply of surface base, offset bracket, CLS pole, CLS aspects complete, ladder with shoes and platform, LED aspects, and wire coils will be supplied by Railways). (through bolts and nuts, cement, stone jelly 20/25mm dia. river sand, Signal Color Rings, all fixing bolts and nuts, teak wood, paints PVC/Nylon sleeves and all other miscellaneous materials for the work shall be supplied by the contractor)				
64	C	25.00	Numbers	470.00	11750.00	AT Par	11750.00
			Description:- Supply, Fabrication of Retro reflective Nomenclature Board of size 254 mm. x 358 mm. made of 2 mm. thick aluminium sheet & high intensity prismatic (hip) grade retro reflective sheet (TYPE-IV) including fixing arrangement for fixing them on existing post per IRSEM and as per standard practice. Details of station, signal type and number to be obtained before supply. Inspection: Consignee.				
65	C	25.00	Numbers	694.00	17350.00	AT Par	17350.00
			Description:- Supply, Fabrication of Retro reflective P / C / G marker made of 2 mm. thick aluminium sheet & high intensity prismatic grade retro reflective sheet (TYPE-IV) including fixing arrangement for fixing them on existing post per IRSEM and as per standard practice. Inspection: Consignee.				
66	C	27.00	Numbers	9238.00	249426.00	AT Par	249426.00
			Description:- Supply of LED signal lamps for Main color light Signal RED Aspect, 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Spec. No. RDSO/SPN/199/2025 Revision.1.2 with Amendment - 1 or latest. Inspection: RDSO.				
67	C	27.00	Numbers	9454.00	255258.00	AT Par	255258.00
			Description:- Supply of LED signal lamps for Main color light Signal YELLOW Aspect, 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Spec. No. RDSO/SPN/199/2025 Revision.1.2 with Amendment - 1 or latest. Inspection: RDSO.				
68	C	25.00	Numbers	10414.00	260350.00	AT Par	260350.00
			Description:- Supply of LED signal lamps for Main color light Signal GREEN Aspect, 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Spec. RDSO/SPN/199/2025 Revision.1.2 with Amendment - 1 or latest. Inspection: RDSO.				
69	C	14.00	Numbers	7267.00	101738.00	AT Par	101738.00
			Description:- Fabrication, Supply and fixing of goods warning board or any other board with engineering grade reflective sticker of size 600 X 1000 mm. GI sheet, with MS angle of 75 mm. X 75 mm. X 6 mm. with 6 meter length including paint, excavation of pit and concrete foundation etc. as per the instructions of sight in-charge. All necessary materials to be arranged by the contractor). Inspection: Consignee.				
70	C	14.00	Numbers	1548.00	21672.00	AT Par	21672.00
			Description:- Provision of foundation for the signal/goods warning boards/all types of boards. (A pit of size 400 mm. x 400 mm. x 1500 mm. is to be dug and cement concrete foundation in the pit in the ratio 1:3:6 to be casted. The rail post/MS angle is to be erected up right in the foundation.				
71	C	4.00	Numbers	2754.00	11016.00	AT Par	11016.00
			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. Inspection: RDSO.				
72	C	4.00	Numbers	1205.00	4820.00	AT Par	4820.00
			Description:- jointing of 4 / 6 quad Signaling cable with Heat Shrinkable straight through Jointing Kit. All the materials required for the work are to be arranged by the 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 the Railway Engineer. If any defect or any damage is observed during jointing, the contractor has to redo the joint free of cost.				
	C	35.00	Kilometre	97822.00	3423770.00	AT Par	3423770.00

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

73	Description:- Excavation of trench at a of Depth of 1200 mm. and width of 300 mm., including marking of cable alignment, clearing of jungle, roots of trees, bushes, refilling with excavated soil, ramming and consolidation after laying of cables complete to the finished item of work in all type of Soil. NOTE: In case 1.2 m. depth of the trench is not achievable due to site conditions approval of officer in charge is to be obtained and payment shall be made on a prorate basis						
	C	210.00	Metre	1128.00	236880.00	AT Par	236880.00
74	Description:- Trenching under Rails for crossing the track (Track Crossing) and refilling of trenches. The track crossing shall be done at right angles. The depth of the cable trench shall be 1.2 meter below the rail flange. The ballast shall be stacked separately while making the trench and the earth soil shall be stacked separately. While re-filling the trench, the earth soil has to be filled first to the ground level and the ballast has to be properly put in the track. This work has to be done under supervision of the supervisor of S&T.						
	C	140.00	Metre	437.00	61180.00	AT Par	61180.00
75	Description:- Cutting of platform surface (tile/slab/concrete) for a depth of 20 cm. & width of 10 cm.& refilling /reconditioning/ repairing the platform after laying pipe & cable. Cutting should be done with marble cutting machine in proper manner & restore the same as before in such a manner that the aesthetic of PF is not disturbed.						
	C	53000.00	Metre	7.00	371000.00	AT Par	371000.00
76	Description:- Laying of S&T Cables of various cores/pairs/quads in trenches/GI pipes/RCC pipes/DWC pipes/Trunking						
	C	140.00	Metre	1634.00	228760.00	AT Par	228760.00
77	Description:- Manual Track crossing/ Road Crossing by Horizontal Boring method at culverts/track/pucca road. This also includes insertion of HDPE pipe of 110 mm./G.I. Pipe of 100 mm. in the bore drilled (HDPE pipe/GI pipe is to be supplied by Railway).						
	C	35.00	Numbers	6499.00	227465.00	AT Par	227465.00
78	Description:- Supply of Double Walled Corrugated (DWC) HDPE duct of outer Diameter 250 mm. and inner Diameter 217 mm. length of 6m. as per Specification RDSO/SPN/204/2011 Ver.1.1 Amd.1 or latest. The duct shall be supplied along with push-fit type 0-ring coupler or end cap. Inspection:Consignee.						
	C	7000.00	RMT	754.00	5278000.00	AT Par	5278000.00
79	Description:- Supply and laying of split DWC pipe of 250/217 mm.diameter in already dug cable trenches as per Drawing No.SK.9/11. The unit of RMT means two split pipes of 1 Mtr. each. Inspection for supply: RITES						
	C	700.00	Metre	1326.00	928200.00	AT Par	928200.00
80	Description:- Supply of Light class GI pipes 100 mm. dia. (thickness 3.6 mm.) as per IS 1239 (Part-1):2004 or Latest with socket & coupling. Inspection: RITES						
	C	300.00	Metre	360.00	108000.00	AT Par	108000.00
81	Description:- Laying & Fixing of GI pipes 50 mm./100 mm. as per IS 1239 (Part1):2004 with socket & coupling on culverts and bridges. It includes installation of all material required for fixing arrangement. The contractor will install a flexible/corrugated HDPE pipe at the end of the GI pipe along with any masonry work (if required) to protect the cables from sharp edges and sudden bends.						
	C	70.00	Metre	295.00	20650.00	AT Par	20650.00
82	Description:- Breaking of metal/tar road and refilling after laying the cables. Repair of pucca roads to original state in level crossing area after cable laying.						
	C	350.00	Numbers	882.00	308700.00	AT Par	308700.00
83	Description:- Supply, transportation at site and Installation of RCC cable route marker engraved and painted on both side along the route at every 50 meter and at route diversion. The cable marker is to be fabricated as ER TECHNICAL POLICY CIRCULAR NO.108. Fixing work is to be done as per extant practice of E.Rly. and as per Railway site supervisor.50% payment will be done after supply of material. Material to be supplied at Site.						
	C	35.00	cum	4533.00	158655.00	AT Par	158655.00
84	Description:- Cement concrete work for miscellaneous items in the ratio 1:3:6. Items include ramming, curing and plastering with cement & sand mixture (aggregate not exceeding 3.8 cm.) (Aggregate cement & sand to be supplied by the contractor).						
	C	35.00	cum	2341.00	81935.00	AT Par	81935.00
85	Description:- Providing brick masonry in ratio 1:6 cement and mortar including plastering with 1:4 cement and sand mixture both sides, 20 mm. thick each with contractor's owned class II bricks, including curing, grouting, bolting etc. wherever required. Bricks, sand and cement to be supplied by the contractor						
	C	35.00	cum	162.00	5670.00	AT Par	5670.00

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

86	Description:- Earthwork in filling in embankment, guide bunds, around buried type abutments, bridge gaps, trolley refuges, rain bunds if provided, platforms etc. with earth excavated from outside railway boundary entirely arranged by the contractor at his own cost as per RDSO's latest guidelines and specifications and special condition of contract including all leads, royalty, lifts, ascents, descents, crossing of nallahs or any other obstructions. The rates shall include all dressing of bank to final profile, demarcation and setting out of profile, site clearance, removal of shrubs, roots of vegetation growth, heavy grass, benching of existing slope of old bank, all handling/re-handling. Taxes, Octroi and royalty etc. as a complete job. Cut trees shall be property of railways and to be deposited in the railway godown unless specified otherwise in the Special conditions of contract.						
87	C	35.00	cum	19.00	665.00	AT Par	665.00
	Description:- Extra for mechanical compaction of earth/blanketing material filled in embankment with contractor's rollers of suitable capacity, type and size to achieve specified density as per specification, testing as per IS codes incl. cost of water, T&P consumable material and all labour as a complete job. The work is to be executed as per Latest edition of "Guidelines for Earthwork in Railway Projects" issued by RDSO, Lucknow.						
88	C	70.00	Numbers	17543.00	1228010.00	AT Par	1228010.00
	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 a location box (GKP type) with 'E' type lock & key, fitted on the 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. SA-3377 as per RDSO Drawing No. S-11500. Inspection: RITES						
89	C	70.00	Numbers	13705.00	959350.00	AT Par	959350.00
	Description:- Casting, concreting and curing of concrete foundation (in ratio 1:3:6), erection and installation of full size apparatus case as per Drg. No. S&T/C-6/98(NKG). This includes the 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. This also includes the bottom of apparatus cases filled with sand and the outside covered with masonry work and neat cement plastering. Note: Painting the apparatus case inside and outside with one coat of red oxide, two coats of aluminium paints outside and white paint inside						
90	C	70.00	Numbers	6089.00	426230.00	AT Par	426230.00
	Description:- Fixing by slotted angle, wiring of terminal strips, hylam strip, relays, fuses with base, fixing of HDHMR shelves for full size apparatus case with Termination & Earthing of cables and wiring with lettering both inside and outside as required including supply of slotted angles, ferrules for marking and miscellaneous materials per location to be supplied by contractor (all materials except Wires, relay, terminal strips, Bakelite strip, fuses with base and HDHMR shelves to be supplied by the contractor). It includes letter painting both inside and outside as per ER practice. NB-Multi strand cables and power cable to be terminated with proper lugs and required buss bar etc. to be supplied by the contractor. Inspection: Consignee.						
91	C	35.00	Numbers	825.00	28875.00	AT Par	28875.00
	Description:- Supply of HDHMR (High Density, High Moisture Resistance) Shelf for Full Location Box Size 950 x 400 x 25 mm. Inspection: Consignee.						
92	C	28.00	Numbers	5552.00	155456.00	AT Par	155456.00
	Description:- Supply of Phenolic laminated Sheet/Hylam sheet, grade P3 in standard size of 1220 X 1220 x 10 mm. as per Spec. No. IS 2036 of 1995 or latest. Test report of manufacture to be supplied. Inspection: Consignee						
93	C	3500.00	Numbers	69.00	241500.00	AT Par	241500.00
	Description:- Supply of Disconnect Terminal Block, Screw less type, 4-wire front entry (Two in-put & Two out-put) as per RDSO Spec. No. RDSO/SPN/189/2004 With latest amendments. The color will be decided by the Engineer - in - Charge. (Preferably In Blue, Red & Grey Colors in the ratio of 1:2:3) Inspection: RDSO						
94	C	350.00	Numbers	13.00	4550.00	AT Par	4550.00
	Description:- Supply of End plate 2.5 mm./0.091 in thick as per RDSO Spec. No. RDSO/SPN/189/2004 With latest amendments. Inspection: RDSO.						
95	C	350.00	Numbers	13.00	4550.00	AT Par	4550.00
	Description:- Supply of End Stopper 10 mm./0.0394 in width as per RDSO Spec. No. RDSO/SPN/189/2004 With latest amendments. Inspection: RDSO.						
96	C	105.00	Metre	128.00	13440.00	AT Par	13440.00
	Description:- Supply of Carrier Rails for above 35 mm. x 7.5 mm., 1 mm./0.039 in thickness un-slotted type as per site requirement. Inspection: Consignee.						
97	C	7.00	Numbers	87173.00	610211.00	AT Par	610211.00
	Description:- Supply of 8 channel Earth Leakage Detector (ELD) with configuration specified by Engineer In charge and as per specification RDSO/SPN/256/2025, Version 2.0 or latest with insulated tester, test probes, Mounting stand and Fuse board to isolate from distribution board as per requirement of channels. Inspection: RDSO.						

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

98	C	7.00	Numbers	11589.00	81123.00	AT Par	81123.00	
	Description:- Installation, wiring, Calibration, testing and commissioning of Earth Leakage detector 8 channels as per specification RDSO/SPN/256/2025, Ver2.0 or latest and as per instructions of Rly. engineer in charge.							
99	C	2000.00	Numbers	3.00	6000.00	AT Par	6000.00	
	Description:- Supply of Tinned Copper LUGs for fitting in Cable Size: 2.5 Sq.mm., Barrel Inner Dia: 2.4 mm., Barrel Outer Dia: 3.90 mm., Barrel Length : 8 mm., Stud Hole Center Dia: 5.2 mm., Palm Width: 9 mm., Thickness: 1.3-1.5 mm., Lug Length: 17-19 mm., Thimble Type: Ring. Inspection: Consignee.							
100	C	400.00	Numbers	12.00	4800.00	AT Par	4800.00	
	Description:- Supply of Tinned Copper LUGs for fitting Cable Size: 10 Sq.mm., Barrel Inner Dia: 4.7 mm., Barrel Outer Dia: 7.10 mm., Barrel Length: 10mm., Stud Hole Center Dia: 9.9 mm., Palm Width: 12.6 mm., Thickness: 1.8 mm., Lug Length: 27 mm., Thimble Type : Ring. Inspection: Consignee.							
101	C	300.00	Numbers	16.00	4800.00	AT Par	4800.00	
	Description:- Supply of Tinned Copper LUGs for fitting in Cable Size : 16 Sq.mm., Barrel Inner Dia: 6.4 mm., Barrel Outer Dia 8.0 mm., Barrel Length: 12.2 mm., Stud Hole Center Dia: 10 mm., Palm Width: 12.6 mm., Thickness: 1.8 mm., Lug Length: 28-30 mm., Thimble Type: Ring. Inspection: Consignee.							
102	C	150.00	Numbers	35.00	5250.00	AT Par	5250.00	
	Description:- Supply of Tinned Copper LUGs for fitting in Cable Size : 35 sq. mm., Barrel Inner Dia :13 mm., Barrel Outer Dia: 17 mm., Barrel Length: 12.2 mm., Stud Hole Center Dia: 10 mm., Palm Width: 12.6 mm., Thickness: 1.8 mm., Lug Length: 28-30 mm., Thimble Type: Ring. Inspection: Consignee.							
103	C	450.00	Metre	134.00	60300.00	AT Par	60300.00	
	Description:- Supply of 1 x 10 (140/0.3) Sq.mm. multi strand copper power wire as per RDSO Spec. No. IRS:S-76/89 (Amdt.3) or latest. The color of the wire which is required will be specified by the Engineer in charge. Inspection: RDSO.							
104	C	350.00	Metre	173.00	60550.00	AT Par	60550.00	
	Description:- Supply of 1 x 16(126/0.3) Sq.mm. multi strand copper power wire as per RDSO Spec. No. IRS:S-76/89 (Amdt.3) or latest. The color of the wire which is required will be specified by the Engineer in charge. Inspection: RDSO.							
105	C	70.00	Metre	214.00	14980.00	AT Par	14980.00	
	Description:- Supply of 1 x 35 (276/0.4) Sq.mm. multi strand copper power wire as per RDSO Spec .No. IRS:S-76/89 (Amdt.3) or latest. The color of the wire which is required will be specified by the Engineer in charge. Inspection: RDSO.							
106	C	70.00	Numbers	4858.00	340060.00	AT Par	340060.00	
	Description:- Supply of Copper bonded steel electrode of 3.0 m. long, 17.2 mm. dia. with copper bonding thickness of minimum macrons and UL listed as per RDSO Spec. 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. Inspection: RDSO Note: These electrodes to be used in ring earth/ perimetric earth.							
107	C	21.00	Metre	873.00	18333.00	AT Par	18333.00	
	Description:- Supply of Copper Strip 25 X 6 mm. as per specification No. IS:1897-2008. Inspection: Consignee.							
108	C	280.00	Metre	317.00	88760.00	AT Par	88760.00	
	Description:- Supply of Copper tape for BRC(25 X 2) mm. as per specification No. IS:1897-2008 Inspection: Consignee.							
109	C	5600.00	Kg	147.00	823200.00	AT Par	823200.00	
	Description:- Supply of Earth Enhancement material for use in earth and in ring/perimetric earth as per Specification No. RDSO/SPN/197/2016 Ver.1.0 or latest. Inspection: RDSO							
110	C	70.00	Set	3761.00	263270.00	AT Par	263270.00	
	Description:- Installation of Unit Maintenance Free Earth as per RDSO Spec. No RDSO/SPN/197 Ver.1.0 or latest and conforming to RDSO Drg. No. SDO/RDSO/E&B/001 or Latest. It includes (i) Digging the earth in normal soil to the required depth. (ii) Insertion of electrode. (iii) Filling of earth enhancing compounds (Approx.30 Kg.) (iv) Supply, fixing of CC cover 1.5 ft. x 1.5 ft. 1 ft. wall thickness 2 inch with cover 3 inch thickness.(v) exothermic welding to connect with other Earth pit,MEEB.							
111	C	420.00	Metre	541.00	227220.00	AT Par	227220.00	
	Description:- Supply of 50 mm. x 6 mm. GI tape as per specification IS:2629-1985 for interconnecting earth electrodes in ring / perimetric earth. Inspection: Consignee.							
	C	35.00	Numbers	100.00	3500.00	AT Par	3500.00	

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

112	Description:- Installation, laying of GI Tape (50 X 6 mm.) for connecting Main earth pit to other earth pit in case of loop/ring/perimetric earth as per RDSO TAN no. STS/E/TAN/3006 , Ver.3.1 by providing earth enhancement material alongwith GI Tape. Note: 'No' in the unit column indicates 'per pair of earth pit'.						
	C	14.00	Numbers	498.00	6972.00	AT Par	6972.00
113	Description:- Supply and Execution of Exothermic Welds for more than 16 sq. mm. wire. This includes a Welding Kit, Welding Powder, Mould and other necessary materials. Note - No. in unit column indicates per welding. Inspection: Consignee						
	C	28.00	Numbers	382.00	10696.00	AT Par	10696.00
114	Description:- Supply and Execution of Exothermic Welds for upto 16 sq.mm. wire. This includes a Welding Kit, Welding Powder, Mould and other necessary materials. Note- No. in the unit column indicates per welding. Inspection: Consignee.						
	C	105.00	Numbers	32.00	3360.00	AT Par	3360.00
115	Description:- Installation of MEEB/SEEB/BRC with the insulators (As per the instruction of Site Engineer). Fitting materials & Insulator (Dough Moulding Compound Conical type of different Size) as per the site requirement to be supplied by the contractor. Note: 'No' in the unit column indicates 'per insulator'.						
	C	35.00	Numbers	27.00	945.00	AT Par	945.00
116	Description:- Supply of Nut Bolts, Washer (Stainless Steel) as per the site requirement (One set consists of 1 Nut, 1Bolt, 2 washer & 2 spring washer) Note: Hex Nuts, bolts and washers of size 5/16". Inspection: Consignee.						
	C	140.00	Numbers	1886.00	264040.00	AT Par	264040.00
117	Description:- Supply of earth electrode (GI PIPE) as per CSTE/ER's (Drg. No. SI/TYP/0097 dated 25.03.25). Inspection: By RITES [for value of material above Rs.5.0 lakhs]. Inspection: Consignee.						
	C	700.00	Metre	230.00	161000.00	AT Par	161000.00
118	Description:- Supply of MS FLAT (Spec. No.226 STD or latest) of size 35 mm. x 6 mm. as per CSTE/ER'S DRG. NO. S&T-1/2007 (or latest). (STANDARD MINIMUM LENGTH OF 5M OR MULTIPLE OF 5M) Inspection: Consignee.						
	C	140.00	Numbers	1464.00	204960.00	AT Par	204960.00
119	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 PCSTE/ER's Drg. No. SI/TYP/0097 dated 25.03.2025 or latest. 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. Where required necessary holes to be drilled on the MS Flat. Full threaded bolts of 10 mm. dia. and length 40 mm should be welded in the apparatus cases in such a way that the MS flat at the apparatus case end can be fixed from outside or from inside (bolts of 10 mm. dia. and length 40 mm. should be supplied by the contractor). 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. Sig. Cable as provided by Railway is also to be laid and terminated on Earth Electrode and to GI Wire/GI Flat in Location Box.						
	C	140.00	Numbers	720.00	100800.00	AT Par	100800.00
120	Description:- Provision of cement concrete enclosure for earth electrodes as per CSTE/ER's (Drg. No. SI/TYP/0097 dated 25.03.25).Inspection: Consignee.						
	C	7.00	Numbers	66093.00	462651.00	AT Par	462651.00
121	Description:- Supply and installation of "FRANKLIN ROD" as per NFPA-780 Standards as per ER Drawing No.-SI/TYP/103. Installation to be done as per IEC standard. It also includes connection of down conductor with Franklin Rod and running of down conductor through PVC pipes and connecting the same to nearby earth electrode. All material required for installation to be supplied by the contractor. Inspection: Consignee.						
	C	70.00	Metre	320.00	22400.00	AT Par	22400.00
122	Description:- Supply of copper bonded steel conductor of size 50 Sq.mm. as per IEC/EN 62561-2 (VDE 0185-561-2) for connecting A-class LA to earth. Inspection: Consignee.						
	C	7.00	Numbers	12334.00	86338.00	AT Par	86338.00
123	Description:- Supply of Lightning Strike recorder LSC 6 digits shall be weather proof type. It should have a 6-digit event count & the capacity to count the smallest strike of intensity 3 KA. It should be a voltage sensing type counter so that it will register nearby strikes & static discharge due to induction effect as per IS 2309:1989 or latest. Make-Bakiral or better. Inspection: Consignee						
	C	7.00	Numbers	623.00	4361.00	AT Par	4361.00
124	Description:- Fixing of Down Conductor through HDPE Pipe for A'- Class Surge Arrestor. HDPE pipe will be supplied by Rly. Note: No. in Unit column indicates per Arrestor.						
	C	56.00	Numbers	885.00	49560.00	AT Par	49560.00

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

125	Description:- Supply of Class C, Type 2 Protection for 60-100V AC/DC/24-60V. Supply as per Clause No.3.11.2 of Specification No. RDSO/SPN/165/2023 Ver.4.0 or latest. The Class C SPD shall be with pluggable type, with indication and potential free contact. The supplier should submit an OEM certificate, KEMA, UL Certificate with the material, for connection between L1-L2, L1-E & L2-E. Inspection: RDSO						
126	C	300.00	Numbers	68.00	20400.00	AT Par	20400.00
	Description:- Supply of Fuse terminal block with LED indication up to 2.5 sq. mm. screw type one in one out suitable for 400mA/630mA/1A/1.6A/2A/4A/6.3A/8A/10A or as decided by Engineer in charge as per RDSO SPN/189/2004 or latest. Inspection: RDSO.						
127	C	1200.00	Numbers	56.00	67200.00	AT Par	67200.00
	Description:- Supply of Fuse links of (400 mA, 630 mA, 1A, 1.6A, 2A, 4A, 6.3A & 10A, 250mA as per RDSO Spec. No. RDSO/SPN/189/2004 With latest amendments Inspection: RDSO.						
128	C	350.00	Numbers	35.00	12250.00	AT Par	12250.00
	Description:- Supply of D type fuse link non indicating type low voltage non detonating, capacity 2A/6A/10A as per specification IRS:S-80/92 or latest. Quantity break up of each type of fuse block will be specified by Engineer in-charge. Inspection: RDSO.						
129	C	120.00	Numbers	34.00	4080.00	AT Par	4080.00
	Description:- Supply D type fuse block non indicating type low voltage non deteriorating fuse base suitable for fuse link of capacity 2A/6A/10A as per specification IRS:S-80/92 or latest. Quantity break up of each type of fuse block will be specified by Engineer in-charge. Inspection: RDSO.						
130	C	600.00	Numbers	57.00	34200.00	AT Par	34200.00
	Description:- Supply of Indicative type Fuse base/ holder with cap, suitable to G type fuse of capacity 0.63A - 3.0A. (System, Rapid, Malnad or RBCO make or similar). Inspection: Consignee						
131	C	350.00	Numbers	20.00	7000.00	AT Par	7000.00
	Description:- Supply of Indicative type Fuse suitable to G type fuse base/holder of capacity 0.63A - 3.0A (System, Rapid, Malnad or RBCO make or similar). Inspection: Consignee.						
132	C	7.00	Set	46217.00	323519.00	AT Par	323519.00
	Description:- Supply of Fuse Auto Changeover system of various types of fuses with audio visual indication as per specification RDSO/SPN/209/2012 Ver.2.0 or latest. One module shall be able to cater for 32 numbers of fuses. Inspection: RDSO.						
133	C	5.00	Set	3731.00	18655.00	AT Par	18655.00
	Description:- Supply of the following resistors/condensers/diodes. a) 50V, 470 pF electrolytic capacitor - 20 Nos. b) 50V, 1000 pF electrolytic capacitor - 20 Nos. c) 50V, 2200 pF electrolytic capacitor- 20 Nos. d) 100 Ohms, 10W wire wound resistance - 20 Nos. e) BY127 diode - 10 Nos. f) PVC Insulation tapes of 25m. length - 25 Nos. Inspection- Consignee.						
134	C	80.00	Numbers	6406.00	512480.00	AT Par	512480.00
	Description:- Supply of Q-Series LED ECR(Universal Type i.e.QECX-61),4F/4B complete with plug board (base plate), connectors, retaining clips etc. and conforming to BRS:941A STS/E/RELAYS/AC LIT LED SIGNAL/09-2002, Amdt.1and RDSO Spec. No. IRS:S-34 & S-23 with Amdt. upto date as applicable or latest. Inspection: RDSO.						
135	C	28.00	Numbers	8464.00	236992.00	AT Par	236992.00
	Description:- Supply of Contactor Unit (QBCA1 Type), 24 V DC, 2F(HD)/4B complete with plug board (base plate), connectors, retaining clips etc. and conforming to BRS-943 and RDSO Spec. No. IRS:S-34 & S-23 with Amdt. upto date as applicable or latest. Inspection: RDSO.						
136	C	40.00	Numbers	4847.00	193880.00	AT Par	193880.00
	Description:- Supply of Q-Series Line Relay (QNA1 Type), AC immunized, 8F/8B, 24 V DC along with plug board (base plate), connectors, retaining clips etc. and conforming to BRS-931A and RDSO Spec. No. IRS:S-34 & S-23 and S-60 or latest. Inspection: RDSO.						
137	C	280.00	Numbers	4372.00	1224160.00	AT Par	1224160.00
	Description:- Supply of Q-Series Neutral Line Relay (QN1 Type), 8F/8B, 24V DC complete with plug board (base plate), connectors and retaining clips etc. and conforming to BRS-930 and RDSO Spec. No. IRS:S-34 & S-23 with Amdt. upto date as applicable or latest. Inspection: RDSO.						
138	C	28.00	Numbers	7208.00	201824.00	AT Par	201824.00
	Description:- Supply of Q-Series Magnetically Latched Neutral Line Relay (QL1 Type), 11F/4B, 24V DC complete with plug board (base plate), connectors and retaining clips and conforming to BRS-935A and RDSO Spec .No. IRS:S-34 & S-23 with Amdt. upto date as applicable or latest. Inspection: RDSO.						
139	C	21.00	Numbers	4777.00	100317.00	AT Par	100317.00
	Description:- Supply of Q-Series Track Relay (QTA2 Type), AC immunized, 9 Ohms, 2F/1B along with plug board (base plate), connectors, retaining clips etc. and conforming to BRS:939A & 966(Appendix F2) and RDSO Spec No. IRS:S-34 and S-23 with Amdt. Upto date as applicable or latest. Inspection: RDSO.						
	C	21.00	Numbers	6508.00	136668.00	AT Par	136668.00

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

140	Description:- Supply of Q-Series Neutral Line Relay(QSPA1 Type), 24V DC, 8F/4B along with plug board (base plate), connectors, retaining clips etc. and conforming to BRS-933A and RDSO Spec. No. IRS:S-34 & S-23 & S 60 with Amdt. upto date as applicable or latest. Inspection: RDSO.						
	C	14.00	Numbers	2670.00	37380.00	AT Par	37380.00
141	Description:- Supply of Relay fail-safe electronic time delay device with fixed timing of 60 seconds and conforming to RDSO Spec. No. IRS:S-61/2000 with Amnd.1 or latest mounted on Q-series relay base & covered complete with connectors, retaining clip etc. Inspection: RDSO						
	C	14.00	Numbers	5408.00	75712.00	AT Par	75712.00
142	Description:- Supply of Fail safe electronic flasher device as per RDSO Spec. No. RDSO/SPN/173/2002 Amdt.2 or latest. Inspection: RDSO.						
	C	7.00	Per Gate	28262.00	197834.00	AT Par	197834.00
143	Description:- Preparation and Supply of new Signal Interlocking Plan (SIP) based on approved Engineering Scale Plan (ESP) for LC Gate Note: The contractor shall supply tentative SIP 2 Copy for checking in paper print and after correction if any, submit (04 copies) for approval of Railway along with AutoCad file. After getting approval on tentative SIP, the final SIP shall be submitted in tracing paper (01 copy). 6 Copies in paper print/Ammonia print of Final Approved SIP to be Submitted to railways. Scanned copy of approved SIP and the AutoCAD file final version to be shared as soft copy with Railway in a suitable storage device. Inspection: Consignee.						
	C	7.00	Per Gate	16056.00	112392.00	AT Par	112392.00
144	Description:- Preparation and Supply of Gate working Rule Diagram (GWRD) based on approved Signal Interlocking Plan (SIP) for s LC Gate. Inspection: Consignee. Note: The contractor shall supply tentative GWRD in paper print (04 copies) for approval of Railway along with AutoCad file. After getting approval on tentative SWRD, the final SWRD/GWRD shall be submitted in tracing paper (01 copy). After getting approval, 6 copies in paper print/Ammonia print and scanned copy of approved SWRD and the AutoCAD file final version to be shared as soft copy with Railway in a suitable storage device						
	C	7.00	Set	41075.00	287525.00	AT Par	287525.00
145	Description:- Design in AUTOCAD and submission of two draft copies of Complete Outdoor Particular such as Cable Route Plan, Cable Corage Plan, Cable Termination Rack/Power Rack Particular, Track Bonding, and Location Box Particular along with NI wiring/NI Relay Disposition chart. One copy will be returned either duly approved or for resubmission for approval after incorporating the changes as required by Railways. After approval, one approved Tracing film copy & six copies (Ammonia Print or print as approved by Railway) of above drawings along with six copies of SIP and SWRD/GWRD in Plastic Covers. All above drawing to be scanned including SIP & SWRD, bound in 6 different booklet with Rexin Cover (Each booklet shall have minimum 10 spare plastic transparent sheet) and a soft copy to be submitted in a Pen Drive for following categories of Stations: Inspection: Consignee.						
	C	7.00	Per Gate	12553.00	87871.00	AT Par	87871.00
146	Description:- Design of circuits and plans to suit layout as per Signalling Interlocking Plan of LC GATE. This will include supply of Control cum Indication panel diagram, wiring diagrams (Indoor and outdoor), 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 Axle counter wiring diagram and all other relevant drawings. Submission of Two sets of prints with all correction for Railway's approval. Approved copy (06 Sets) of all drawings in plastic folders along with the original tracings in spiral bound with editable AutoCAD file latest version.						
	C	7.00	Per Gate	11272.00	78904.00	AT Par	78904.00
147	Description:- Testing and commissioning the entire signalling installations jointly with the Railway representative at site at LC gates covered under various schedules of the Contract, and ensuring that all the signalling gears are installed and adjusted as per the existing rules.						
	C	7.00	Numbers	19897.00	139279.00	AT Par	139279.00
148	Description:- Supply of Current Clamp Meter of Model Fluke 317 or similar with the following specification. 1. True RMS responding. 2. Voltage - DC 600V, AC 600V, DC accuracy - $\pm 1\%$ + 4 digit. 3. AC accuracy - $\pm 1.5\%$ + 5 digit. 4. Current - DC 600A, AC 600A, AC accuracy: - $\pm 1.5\%$ + 5 counts, AC / DC current measurement. 5. Unique 40A low frequency measurements capability with 0.01A resolution. 6. Special filter circuit to enable accurate measurement of PWM output. 7. Additional measurement of resistance. 8. Continuity check feature. 9. Data hold features with large, easy to read backlight display. 10. Calibration certificate. 11. 1 year warranty. Inspection:Consignee.						
	C	7.00	Numbers	15014.00	105098.00	AT Par	105098.00
149							

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

	Description:- Supply of true RMS 5 digit 60000 counts Digital Multi Meter with the following specification. 1. Frequency range - 6Hz to 1MHz mV AC. 2. Bandwidth - 10kHz. 3. AC voltage range - 1 mV - 1000V, ± 0.5%. 4. DC voltage range - 1 micro V - 1000V, ±0.05%. 5. AC current range - 1 micro A - 10A, ± 0.5%. 6. DC current range - 1 nA - 10A, ± 0.2%. 7. Capacitance range - 1pF - 10000pF. 8. Data logging - 32000 Readings. 9. Dual display - Available. 10. Other features - Shall have temperature measurement, diode, continuity, duty cycle measurement, self battery voltage measurement, low pass filter, Mm, Max and average value recording, back light, bar graph, protective rubber holster. Inspection:Consignee.								
150	C	50.00	Numbers	274.00	13700.00	AT Par	13700.00		
	Description:- Supply of Hydrometer as per IS: 3104 (Part II) -1982 or latest. Inspection: Consignee.								
151	C	7.00	Numbers	21636.00	151452.00	AT Par	151452.00		
	Description:- Supply of Steel Plain Almirah with 4 adjustable slaves. Size: 1980 mm. height, 915 mm. width and 485 mm. depth. Make: Godrej Storewel Plain Large or Better of reputed brand. Inspection: Consignee								
152	C	7.00	Numbers	16244.00	113708.00	AT Par	113708.00		
	Description:- Supply of Office table with laminated top with three drawers on left hand side and one locker on the right hand side. Olive brown with duplicate keys. Make: Godrej Model T-9 (136.5 cm. X 68 cm. X 75 cm.) or Superior of reputed brand. Inspection: Consignee.								
153	C	20.00	Numbers	3658.00	73160.00	AT Par	73160.00		
	Description:- Supply of Office Chair make Godrej CH-7B or better of reputed brand. Inspection: Consignee.								
154	C	7.00	Numbers	70082.00	490574.00	AT Par	490574.00		
	Description:- Installation, grouting, Testing and Commissioning of Integrated Power Supply System as per Specification No. RDSO/SPN/165/2023 Ver.4.0, Amdt.1 or latest. It will include initial charging of Battery, Installation of SPD/LVD, Installation wiring of SM Monitoring Panel, Wiring of Alarms/SPDs to data logger, wiring between IPS to SPD, Installation shall be done as per RDSO TANs, with best installation practices and PCCL by the authorized competent Engineer of the OEM								
	S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	
								Bidding Unit	
	Schedule () D-NON SOR Items- Interlocking of L.C.Gate having TVU more than 10000 in UDL- BBI, UDL/LC-BQT, MDP-GRD sections							15353025.23	Above/ Below/P ar
1	D	21.00	Numbers	7124.65	149617.65	AT Par	149617.65		
	Description:- Supply of Electric Key Transmitter with key as per Specification No.IRS:S-21/01 or latest & Drg. No.SA- 22601(alt. 4) or latest. Ward Number of key will be advised by Rly. Site Engineer. Inspection: RDSO								
2	D	21.00	Numbers	6592.12	138434.52	AT Par	138434.52		
	Description:- Installation, fixing, wiring, testing of Electrical Key Transmitter(EKT). This includes supply of all fixing materials as required, angles, clamps, wire casing/duct, screws, nuts & bolts, hylum sheet of 12 mm thickness, wooden shelf and the work will be done as per instruction of Rly. site Engineer. Only EKT with key , terminals, wire will be supplied by Railway.								
3	D	7.00	Numbers	37090.37	259632.59	AT Par	259632.59		
	Description:- Supply of Dual card internalRS232 to E1 Converter (internalE1 modem) for data logger networking. Inspection -Consignee. Specification of E1converter: 1)Data logger Compatible, (6U) Euro rack Dual port RS 232 to E1 Converter suitable to be Placed in Existing Modem slot in data logger. 2) DTE side: Asynchronous(RS232).3)DTE baud rate between 9600bps & 115200 bps4)DCE side: 4 wire E1communications(G.703) Line speed 2 MBPS.5)Line Impedance:120 Ohm6)Power supply rating: working on Existing 5V DC in Data logger 7)Each Card should have a pair of RS-232 to E1converters 8)Inbuilt BERT tester9)Supports following loop back tests for diagnostic purpose-Remote Loop back Test & Local Loop back test. E1 Compliances:1)Should Comply with ITU-TG.703 2)E1 Transceiver chipset should comply ITU-T G.736,G.742,G.823 3)Interface rate:2.048 Mbps±50 ppm 4)Line Isolation needed to be 1500VRMS 5)Port connector: Euro Connectors. RS-232 port compliance: 1)Standards Compliance: EIA RS-232C2)Interface Types: RS-2323)Signal: TXD, RXD, GND4)DTE baud rate - 9600 bps to115200 bps 5)Asynchronous serial. Inspection: Consignee								
4	D	7.00	Numbers	3709.03	25963.21	AT Par	25963.21		
	Description:- Installation, testing, commissioning of dual card E1converter. Necessary connectors/materials/wires/wiring materials to be supplied by contractor for installation, commissioning.								
	D	7.00	Pair	30207.69	211453.83	AT Par	211453.83		

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

5	Description:- Supply of Media Converter (dark fiber to RS-232) between RTU & data logger. Inspection: Consignee Minimum Specification of Media Converter: Fiber cable requirements: single mode fiber ITU-T G.652, Fiber connector: SC Connector, Average output power: -7dBm (min), 0dBm(max), Receiver sensitivity: -18dBm, Wavelength: 1310nm±40nm, Data rate: upto 2mbps Distance support: 20km.(max), RS-232 port, Interface type: RS-232 (5-PIN push fix pluggable connector), Signal: TXD, RXD, GND, Baud rate: upto 250 kbps. Electrical & mechanical: Operating input voltage: 24V/DC, Voltage working range: 9-36 VDC, Power consumption: 1watt(max), Operating temp: -10°C to + 70°C. Inspection: Consignee						
6	D	7.00	Pair	2013.84	14096.88	AT Par	14096.88
	Description:- Installation, testing & commissioning of Media Converter as per instruction of site engineer. Inspection: Consignee.						
7	D	7.00	Set	8285.78	58000.46	AT Par	58000.46
	Description:- Supply of wall mount 9U Rack no. Enclosures Networking/Server Rack with power strip 5A socket 06 no. & MCB, Depth of the Rack: Upto 500mm, Transparent Toughened Glass used in front door, CRCA Steel rear door, with Secure Locks, Support cable entry from top or bottom, with fan tray and two nos. fans, make: Valrack/Dyanamic Rack/Digilink or similar. Inspection: Consignee.						
8	D	30.00	Numbers	261.90	7857.00	AT Par	7857.00
	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 consignee. All required materials like wire, soldering materials, paint etc. to be supplied by the contractor for execution of the work.						
9	D	50.00	Kilometre	269630.00	13481500.00	AT Par	13481500.00
	Description:- Supply of underground, unscreened, PVC insulated, PVC inner sheathed armoured and PVC outer jacket railway signalling cable 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) or latest. Inspection : RDSO						
10	D	3.00	Kilometre	312936.00	938808.00	AT Par	938808.00
	Description:- Supply of Underground Railway Jelly filled Telecom 6- Quad Cable(0.9 mm Dia) for Signalling and Telecom Installation, as per Spec. No. IRS:TC-30/2005 (Ver.-1) (Amd. 5) or latest. Inspection: RDSO.						
11	D	7.00	Set	9665.87	67661.09	AT Par	67661.09
	Description:- Installation, wiring resting, commissioning of Fuse Auto change over system (FACS). This includes provision of common buzzer & indication at SM room & SIM maintenance room and lettering of fuse details. This also includes fabrication of frame for installation of FACS at LC Gate. Inspection : Consignee.						

3. ITEM BREAKUP

No item break up added

4. ELIGIBILITY CONDITIONS

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

Standard Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	For works amounting Rs.50 lakhs and above: 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 Financial Criteria

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	For tenders having an advertised tender value exceeding 10 crore, the tenderer shall be required to satisfy the Bid Capacity criteria. The tenderer shall be qualified only if the Available Bid Capacity is equal to or greater than the value of the present tender. The tenderers shall submit requisite information as per Annexure-VI of GCC-2022 and up to date Correction slip of GCC 2022 to evaluate and decide bid capacity and financial eligibility.	No	No	Allowed (Mandatory)

Standard Technical Criteria

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

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

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

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

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)
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5. COMPLIANCE

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

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Demand for the Financial Criteria, Association of Railway Officers, List of Arbitration cases, Court cases and Mandate for NEFT are to be uploaded with a scanned copy duly filled in and signed as per annexure no. IV, V, VI, VII, VIII, IX, XI, VIA, VIB, VI and Annexure-V and Annexure-V(A) of GCC-2022 respectively. These Annexures are available in View Document menu at Home page and is downloadable. The details of the uploaded documents should be produced whenever demanded for verification on written request at any point of time of the tender and contract within 7 days.	No	No	Allowed (Mandatory)
1.1	For tenders having an advertised tender value exceeding 10 crore, the tenderer shall be required to satisfy the Bid Capacity criteria. The tenderer shall be qualified only if the Available Bid Capacity is equal to or greater than the value of the present tender.	Yes	Yes	Allowed (Mandatory)
2	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Tenderers are requested to go through the following documents which are available in upload/View Documents in Home page of IREPS portal for works tenders before submitting the e-tender. 1.General Instruction for E-Tenders on works contract--Chapter- I 2.Special Condition-General- Chapter-II	No	No	Not Allowed
1.1	Opening of e-tender : 1. The e-tenders will be opened online using the IREPS portal anytime after tender closing time. No representative is required to be present for opening of e-tender and taking notes of rates quoted and ranking as the complete details of rates etc. of all the bidders shall be available to the bidders through the website after the opening of the tender. 2. The earnest money cost is to be paid through online banking facilities through the online portal and by giving the other details online on website www.ireps.gov.in. Note: For more details refer to Cl: 4 & 12 of General Instruction-Chapter-I for Submission of EMD, Cost of Tender Document and opening of e-tender.	No	No	Not Allowed

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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**ASANSOL DIVISION-S AND T/EASTERN RLY
TENDER DOCUMENT**

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

1	1)Intending tenderer must understand the work before quoting. The submission of tender shall be deemed to have been done after careful study and examination of the papers as well as work site and understanding of the implication thereof. 2) Quoted rates shall include all types of taxes (GST etc.), duties, carrying cost of all materials for the work including loading and unloading involved in the concerned work. 3) All supplied materials to be deposited at the office of SSE/Sig./Store/ASN or SSE/Tele/Store/ASN as applicable . 4) All materials supply by the Rly. have to be transported from the office of the SSE/Sig./Store/ASN or SSE/Tele/Store/ASN to the site of work by the contractor's own arrangement. 5) Any material, which is required for execution of the work, not mentioned in the schedule as Railway supply, contractor has to arrange for the same as per advice of Rly. Site Engineer. 6) Painting to be done on all items as per provision of Signal Engineering Manual/Rly , as per Rly. site engineer. 7) Items supplied by the contractor will be inspected by authorized representative of Sr. DSTE/ASN except those materials which will be inspected by RDSO / RITES/TPI. If total value of a item is more than 5 lakhs , then inspection of that item to be done by RDSO/RITES/TPI. Inspection cost, if any, shall be applicable as per latest rules and guidelines. 8) Any required drawing may be collected/ consulted from Sr. DSTE/ASN's office.	No	No	Not Allowed
2	9) A site supervisor from contractor side shall be present at site during execution of work. Execution work at site will be done as per instruction of Rly. site engineer. 10) Care should be taken to avoid damage to existing gears during the work. Any damages to the Railway property shall be made good by the contractor in his own cost. 11) The Contractor & his supervisors, staff must take proper precaution during working in Railway area to prevent any interference with existing Rly. system, working & passengers. 12) All the tools and other testing equipment for installation, testing and commissioning should be arranged by the contractor at his cost. 13) Contractor have to submit indemnity bond for safe custody and protection of railway materials during transportation (sample may be collected from office). 14) Latest guideline of Railway Bd.'s vide letter no. 2018/CE-I/CT/9 dated 04.06.2018 regarding "Letter of Credit" as Mode of payment in Works Tenders or Service Tenders is attached in pdf file. 15) Eastern Railway JPO No.94 for protection of cables is attached in Annexure-I. . Accordingly, while working near underground Signalling, Electrical & Telecommunication cable, proper care should be taken to avoid the cable cut/damage, other wise the penalty amount as per Railway Guidelines will be recovered from the contractors.	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Demand for the credential criteria both Technical and Similar nature of work and other technical details are to be uploaded with a scanned copy duly filled in and signed as per annexure no. I (a), I (b), II, III. These Annexures are available in View Document menu at Home page and are downloadable. The details of the uploaded documents should be produced whenever demanded for verification on written request at any point of time of the tender and contract within 7 days.	No	No	Allowed (Mandatory)

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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**ASANSOL DIVISION-S AND T/EASTERN RLY
TENDER DOCUMENT**

Tender No: 28-SDSTE-ASN-2026-27

Closing Date/Time: 22/07/2026 15:00

1	1.0WHEREAS the President of India acting through the Eastern Railway administration and their authorised officers has invited e-tenders for the above-mentioned work vide tender notice mentioned in the NIT (Notice Inviting Tender) published in the website. 2.0AND WHEREAS I/We, have read the above NIT (Notice Inviting Tender for e-tender, General instructions, Special Conditions-General, all special conditions and have purchased this e-tender document, have carefully read and understood the same, have visited the site and have satisfied myself/ourselves as to the nature of the work and site conditions before filling this e-tender. 3.0AND WHEREAS my/our address for all communications hereinafter shall be considered as official and shall be made in the address, email Id and Mobile phone and other phone nos. given in the portal of IREPS while registering as tenderer for e-tender. In case of any change in this concerned officer of railway will be informed. 4.0AND WHEREAS I/We state that in the event of this e-tender being unsuccessful, the aforesaid earnest money deposited by me/us may be refunded to me/us through NEFT / by a crossed cheque. 5.0AND WHEREAS I/We hereby sign this e-tender document digitally by virtue of the legal authorities vested with me/us to enter into commitment on behalf of the tenderer, documentary support whereof is enclosed herewith. 6.0AND WHEREAS I/We have read and understood this e-tender document and agree to abide by the various terms and conditions contained therein. I/We also agree to keep the offer open for acceptance for a period of 60 days from the date fixed for opening of the same and in default hereof, I/We will be liable for forfeiture of my/our earnest money.	No	No	Not Allowed
2	7.0Now, therefore I/We hereby submit this e-tender and offer to do the work for the Eastern Railway at the rates quoted in the schedule through online and hereby bind myself/ourselves to complete the work in all respects within the stipulated period of completion from the date of issue of the letter of acceptance of this tender. 8.0And I/We agree to abide by the General Conditions of Contract 2022 editions and to carry out the works according to the special conditions and specifications of materials and works as laid hereunder in various chapters of this e-tender document. 9.0And I/We have understood and accept the stipulation that full value of the earnest money shall stand forfeited without prejudice to any other right or remedies if: 1. I/We do not execute the contract documents, in case my/our tender is accepted, within seven days after receipt of notice issued by the Railway that such documents are ready, or 2.I/we do not commence the work, in case my/our e-tender is accepted, within fifteen days after receipt of orders to that effect. 10.0And until a formal agreement is executed, acceptance of this tender shall constitute a binding contract between us subject to modifications as may be mutually agreed between us and indicated in the letter of acceptance of my/our offer for this work. 11.0And I/We agree to produce the details of the uploaded documents whenever demanded for verification on written request at any point of time of the tender and contract within 7 days.	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	Modified_Cable_cut_JPO_NO._94.pdf	Annexure I
2	AllAnnexure.pdf	All Annexure
3	TENDERDOCUMENT.pdf	Tender Document
4	GCC_April-2022.pdf	General Condition of Contract
5	2022_CE-I_CT_GCC-2022Policy14.07.2022.pdf	GCC correction slip 1
6	ACS-2toGCC-2022_2022-CE-1-CT-GCC-2022-POLICY_13.12.20221.pdf	GCC correction slip2
7	mergedGCCCorrectionslip3456.pdf	GCC correction slip3456
8	MergedGCCCorrectionSlip78910.pdf	GCC correction slip78910

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

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9	2018-CE-I-CT-9dtd.pdf	Letter of Credit as mode of payment
10	Annexure-C.pdf	AnnexureC
11	CheckList.pdf	Check list
12	GCCCorrectionslip11.pdf	GCC correctio Slip11

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: SUMIT KUMAR VERMA

Designation : DSTE/ASN