

**SEALDAH DIVISION-GATI SHAKTI/EASTERN RLY
TENDER DOCUMENT**

Tender No: DCPM-GS-SNT-ASN-01-26-27

Closing Date/Time: 08/07/2026 15:00

CPM/GSU/SDAH acting for and on behalf of The President of India invites E-Tenders against Tender No **DCPM-GS-SNT-ASN-01-26-27** Closing Date/Time 08/07/2026 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

1. NIT HEADER

Name of Work	S&T work in connection with provision of new Electronic Interlocking (EI) systems conforming to RDSO EI specification RDSO/SPN/192/2019 with latest amendments at New Madanpur (MPUR) station in the Dumka-Basukinath and Dumka-Baraplashi sections, at Tapasi (TOP) station in the Andal Jn. (UDL)-Sitarampur (STN) section, and at Chhota Ambana (CAM) station in the Sitarampur (STN)-Pradhankhuntha (PKA) section; alteration/modification in the existing Alsando (Hitachi) make MICROLOK-II EI system at Sonachara (SSCR) station in the Andal Jn. (UDL)-Sitarampur (STN) section in connection with yard remodelling works as per approved SIP at MPUR, CAM, TOP & SSCR stations; and associated S&T works of various S&T items as per site requirements at Andal New ROH Shed at Marshalling Yard of Asansol Division, Eastern Railway.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	08/07/2026 15:00	Date Time Of Uploading Tender	17/06/2026 16:42
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	331099035.76	Tendering Section	GSU/ST
Bidding Style	Single Rate for Each Schedule Item	Bidding Unit	
Earnest Money (Rs.)	6622000.00	Validity of Offer (Days)	120
Tender Doc. Cost (Rs.)	0.00	Period of Completion	12 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	24/06/2026		
Are JV allowed to bid	Yes	Number of JV Member Allowed	2
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-NS items							331099035.76	
1	Please see Item Breakup for details.				331099035.76	AT Par	331099035.76	Above/ Below/Par
	Description:- Design, supply, Installation, wiring, Testing (FAT & SAT), Maintenance supervision of EI etc							

3. ITEM BREAKUP

Schedule	Schedule A-NS items						
Item- 1	Design, supply, Installation, wiring, Testing (FAT & SAT), Maintenance supervision of EI etc						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	

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1	1	Design, supply, Installation, wiring, Testing (FAT & SAT) and commissioning of Electronic Interlocking (EI) system, hot standby with Dual VDU, complete with architecture of EI i.e. Distributed or Centralized as per the requirement of Zonal Railway, as per RDSO specification No. RDSO/SPN/192/2019 Ver. 2 or latest for Yards upto 200 Routes, RDSO/SPN/203/2011 Ver.1 or RDSO specification No. RDSO/SPN/192/2019 Ver. 2 or latest for Big Yard having more than 200 Routes. The Details of EI, Details of Drawings, List of Functional Vital Bits, Materials to be supplied as per Annexures enclosed. Inspection- RDSO. For Station with routes less than 50. For Station Chhota Ambana.SOR ITEM NO. 0102 Here Unit JOB = Per Functional Vital Bit	Job	266.00	123691.00	32901806.00
2	2	Design, supply, Installation, wiring, Testing (FAT & SAT) and commissioning of Electronic Interlocking (EI) system, hot standby with Dual VDU, complete with architecture of EI i.e. Distributed or Centralized as per the requirement of Zonal Railway, as per RDSO specification No. RDSO/SPN/192/2019 Ver. 2 or latest for Yards upto 200 Routes, RDSO/SPN/203/2011 Ver.1 or RDSO specification No. RDSO/SPN/192/2019 Ver. 2 or latest for Big Yard having more than 200 Routes. The Details of EI, Details of Drawings, List of Functional Vital Bits, Materials to be supplied as per Annexures enclosed. Inspection- RDSO. For Station with routes less than 50. For Station Tapashi(TOP).SOR ITEM NO. 0102 Here Unit JOB = Per Functional Vital Bit	Job	449.00	123691.00	55537259.00
3	3	Design, supply, Installation, wiring, Testing (FAT & SAT) and commissioning of Electronic Interlocking (EI) system, hot standby with Dual VDU, complete with architecture of EI i.e. Distributed or Centralized as per the requirement of Zonal Railway, as per RDSO specification No. RDSO/SPN/192/2019 Ver. 2 or latest for Yards upto 200 Routes, RDSO/SPN/203/2011 Ver.1 or RDSO specification No. RDSO/SPN/192/2019 Ver. 2 or latest for Big Yard having more than 200 Routes. The Details of EI, Details of Drawings, List of Functional Vital Bits, Materials to be supplied as per Annexures enclosed. Inspection- RDSO. For Station with routes less than 50. For Station New Madanpur(MPUR) .SOR ITEM NO. 0102 Here Unit JOB = Per Functional Vital Bit	Job	350.00	123691.00	43291850.00

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4	4	Modification /Alteration in existing distributed (Central +2 EI huts) EI MICROLOK-II make of Hitachi (Electronic Interlocking) as per latest RDSO guidelines /TAN. It includes: Design and modification in existing Interface and Interlocking circuits and logic of EI system including modification in the VDU (Video Display Unit)/ LCP (Local Control panel) / CCIP (Control cum Indication Panel), Maintenance terminal (MPC), Data Logger, Relay rack wiring. The complete work should comply with the latest RDSO specifications and guidelines and as per approved SIP and circuit diagrams. All the EI material (Interface cards / wiring material / connectors /fuses /communication devices etc.) shall be provided by the contractor. The work also includes the supply of modified Selection table if required, Interface Circuits, VDU /LCP /CCIP diagram and all the required EI hardware cards,connectors & wiring materials,fuses etc. to suit the modified approved SIP. It also includes the carrying out of FAT, SAT (as applicable) jointly with Railways and satisfactory commissioning. All plans /drawings / circuits etc. should be prepared on AUTOCAD, softcopy to be supplied on Pen Drive and 06 sets of hard copies also to be supplied.Re Design of EI systems with related application logic & interfaceCircuit.Factory Acceptance Test (FAT) -Testing & Commissioning support.Installation of proposed Program. (iv)Implementation of NDKR1/RDKR1.Supply of Document (interface circuit & Application logic Circuits) (It shall be supplied in CD / Pen drive & Hard copy in 6 set).Relay will be supplied by Railway.EI materials to be inspected by RDSO & others like wiring materials will be inspected by Consignee officials.	Job	1.00	11328000.00	11328000.00
5	5	Maintenance supervision of Electronics Interlocking equipment for one station per month from the date of expiry of mandatory maintenance period as per conditions of contract or as per the details given in special condition of contract agreement, The maintenance has to be done as per the latest guidelines of PCSTE, provision mentioned in Signal Engineering Manual. All records have to be maintained as prescribed from time to time. During maintenance at least one certified expert personnel from the OEM should be available at the station. For Station with routes less than 50.SOR ITEM NO. 0106	Per Month	8.00	60869.00	486952.00
6	6	Supply of VDU of 55" with 4K resolution suitable for 24x7 application for control terminal/maintenance terminal as per RDSO spec. No. RDSO/SPN/192/2019 Ver.2 or latest. Model to be approved before supply. Warranty: 3 Years from commissioning. Inspection: Consignee. Payment: 80% on supply and balance on Installation and Testing. SOR ITEM NO. 0109	Numbers	6.00	109410.00	656460.00

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7	7	Supply of VDU of 65" with 4K resolution suitable for 24x7 application for control terminal/maintenance terminal as per RDSO spec. No. RDSO/SPN/192/2019 Ver.2 or latest Model to be approved before supply. Warranty: 3 Years from commissioning. Inspection: Consignee. Payment: 80% on supply and balance on Installation and Testing.	Numbers	6.00	134093.00	804558.00
8	8	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: RITES/Consignee.SOR ITEM NO. 1327	Numbers	3.00	66093.00	198279.00
9	9	Supply and erection of a mast/high mast lightning protection installation, mechanically robust good corrosion and fire resistance, 5 mtr. (including 2 mtr. FRP) long GI/MS painted along with guying kit foundation and other accessories required for installation of mast. Supply material inspection by consignee. SOR ITEM NO. 1328	Job	3.00	9038.00	27114.00
10	10	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: RITES/Consignee.SOR ITEM NO. 1329	Metre	150.00	320.00	48000.00
11	11	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: RITES/Consignee. SOR ITEM NO. 1330	Numbers	3.00	12334.00	37002.00
12	12	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.SOR ITEM NO. 1331	Numbers	3.00	623.00	1869.00
13	13	Increasing the height of 'A' Class Surge Arrestor (3 Mtrs. above of VHF Antenna). Dismantling of existing 'A' Class Surge Arrestor & refixing as per the instruction of Rly. site engineer. All the items required for cement concreting & refixing will be supplied by the contractor. SOR ITEM NO. 1332	Numbers	3.00	2546.00	7638.00
14	14	Supply of lightning and surge arrestors of Class B & C suitable for single phase supply in TT network as per specification RDSO/SPN/165/2023 Ver.4.0 Amd-1 or latest and as Both B & C to be from the same OEM recommended by RDSO letter No. STS/E/IPS/GENL dated 27/01/2006 (Amendment.5). Inspection: RDSO/Consignee. SOR ITEM NO. 1333	Set	3.00	14858.00	44574.00

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15	15	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 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/Consignee. SOR ITEM NO. 1334	Numbers	120.00	885.00	106200.00
16	16	Earthing and soldering of cable armour. Here Unit Job = Per Cable. SOR ITEM NO. 1336	Job	150.00	31.00	4650.00
17	17	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.	Numbers	160.00	4372.00	699520.00
18	18	Q-Series Magnetically Latched Neutral Line Relay (QL1 Type), 8F/6B, 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 or latest. Inspection: RDSO. Q-Series Magnetically Latched Neutral Line Relay (QL1 Type), 8F/6B, 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 or latest. Inspection: RDSO.SOR ITEM NO. 0310	Numbers	80.00	5249.00	419920.00
19	19	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.SOR ITEM NO. 0312	Numbers	150.00	6406.00	960900.00
20	20	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@ 45"44@ S-23 and S-60 or latest. Inspection: RDSO.SOR ITEM NO. 0314	Numbers	160.00	4847.00	775520.00
21	21	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.SOR ITEM NO. 0318	Numbers	40.00	8464.00	338560.00
22	22	Supply of Key Lock Checking Relay (KLCR) working with 24V DC, non AC Immunized type 4F/4B Spec. no. IRS: S-23, IRS:S-34 & IRS:S-46. Inspection: RDSO.SOR ITEM NO. 0320	Numbers	55.00	9473.00	521015.00
23	23	Fabrication and Supply of Box suitable for 8 No's KLCRs as per ER Drawing No. SI/TYP/101. Inspection: Consignee.SOR ITEM NO. 0321	Numbers	4.00	17534.00	70136.00

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24	24	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.SOR ITEM NO. 0425	Numbers	3000.00	69.00	207000.00
25	25	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.SOR ITEM NO. 0426	Numbers	1200.00	13.00	15600.00
26	26	Supply of End Stopper 10 mm./0.0394 in width as per RDSO Spec. No. RDSO/SPN/189/2004 With latest amendments. Inspection: RDSO.SOR ITEM NO. 0427	Numbers	1200.00	13.00	15600.00
27	27	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.SOR ITEM NO. 0428	Metre	1200.00	128.00	153600.00
28	28	Supply and installation of Electronic Flasher unit, able to drive 2 No. of flasher lights. Inspection- RITES/Consignee.SOR ITEM NO. 0932	Numbers	30.00	2572.00	77160.00
29	29	Relay fail-safe electronic time delay device with fixed timing (0-120) seconds and conforming to RDSO Spec. No. IRS:S-61/2000 with Amnd.2 and IRS:S-34 & S-23 with Amdt. upto date or latest mounted on Q-series relay base & covered complete with connectors, retaining clip etc. Inspection: RDSO.SOR ITEM NO. 0302	Numbers	30.00	2005.00	60150.00
30	30	Relay fail-safe electronic time delay device with fixed timing (0@ 45<41@ 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.SOR ITEM NO. 0303	Lot	30.00	2670.00	80100.00
31	31	"Supply, Installation, testing & commissioning of New modular U Shape VDU Table for provision of 02 nos. 55"" VDU as per Detailed specifications vide Annexure-A and drawing is attached in Annexure- B (attached with tender document). Inspection: RITES."SOR ITEM NO. 1012	Lot	4.00	1019621.00	4078484.00
32	32	Supply of 12 channel Earth Leakage Detector (ELD) with configuration specified by Engineer In charge and as per specification RDSO/SPN/256/2002 or latest with insulated tester, test probes, Mounting stand and Fuse board to isolate from distribution board as per requirement of channels. INSPECTION: RDSO.SOR ITEM NO. 1301	Numbers	7.00	151661.00	1061627.00
33	33	Installation, Calibration and commissioning of Earth Leakage detector 8 to 12 channels as per instructions of engineer in charge.SOR ITEM NO. 1303	Numbers	7.00	11589.00	81123.00
34	34	Supply of Data Logger System with 1024 digital and 32 analog inputs 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.SOR ITEM NO. 0203	Numbers	4.00	625552.00	2502208.00

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35	35	Installation, wiring, testing & commissioning of Micro Processor based Data Logger System with 1024 digital and 32 analog inputs as per RDSO Spec. No. IRS (S) 99/2006 with Amdt.3.0 or latest 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.SOR ITEM NO. 0204	Numbers	4.00	65395.00	261580.00
36	36	Supply of T-Networking equipments suitable for Networking to the existing Data Logger equipments. This includes supply of all equipment / accessories required for the purpose e.g. modems and network accessories. Inspection: Consignee. Payment: 80% on supply and balance on installation and Testing.SOR ITEM NO. 0213	Set	3.00	25737.00	77211.00
37	37	Commissioning of T-Networking suitable for Networking to the existing Data Logger equipments. This includes supply of all equipment / accessories required for the purpose.	Set	3.00	6933.00	20799.00

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38	38	Supply of desktop/All in one PC as per following specifications. Intel i7, 10th generation or better, RAM - 16 GB, SSD - minimum 256 GB, HDD - 500 GB, display - 27 inch, Window-10 or higher, graphics Type - integrated, Keyboard & mouse-wireless. Inspection: RITES/Consignee. Make: HP/Lenovo/Dell or better.SOR ITEM NO. 0214	Numbers	8.00	96538.00	772304.00
39	39	Supply, Installation, wiring, testing and commissioning of Multi Section Digital Axle Counter (Detection points and Evaluators as per the Scheme) along with Toolkit, as per RDSO Specification No. RDSO/SPN/176/2013, Ver.3 or latest and as per Annexure-A. The warranty of the equipment shall be 2 YEARS from the date of commissioning. Inspection: RDSO. Note:- 1) Scheme of Main/Redundant (dual) Evaluators with approximate number of DPs connected shall be enclosed for each location of Evaluators. 2) Installation, wiring, testing and commissioning of MSDAC as per RDSO TAN/Guidelines and Annexure-B. For Station Chhota Ambana (CAM). SOR ITEM NO. 1501 Here Unit JOB = Per DP	Job	27.00	329883.00	8906841.00
40	40	Supply, Installation, wiring, testing and commissioning of Multi Section Digital Axle Counter (Detection points and Evaluators as per the Scheme) along with Toolkit, as per RDSO Specification No. RDSO/SPN/176/2013, Ver.3 or latest and as per Annexure-A. The warranty of the equipment shall be 2 YEARS from the date of commissioning. Inspection: RDSO. Note:- 1) Scheme of Main/Redundant (dual) Evaluators with approximate number of DPs connected shall be enclosed for each location of Evaluators. 2) Installation, wiring, testing and commissioning of MSDAC as per RDSO TAN/Guidelines and Annexure-B. For Station Sonachara(SSCR).SOR ITEM NO. 1501 Here Unit JOB = Per DP	Job	22.00	329883.00	7257426.00
41	41	Supply, Installation, wiring, testing and commissioning of Multi Section Digital Axle Counter (Detection points and Evaluators as per the Scheme) along with Toolkit, as per RDSO Specification No. RDSO/SPN/176/2013, Ver.3 or latest and as per Annexure-A. The warranty of the equipment shall be 2 YEARS from the date of commissioning. Inspection: RDSO. Note:- 1) Scheme of Main/Redundant (dual) Evaluators with approximate number of DPs connected shall be enclosed for each location of Evaluators. 2) Installation, wiring, testing and commissioning of MSDAC as per RDSO TAN/Guidelines and Annexure-B. For Station TapASHI(top).SOR ITEM NO. 1501 Here Unit JOB = Per DP	Job	50.00	329883.00	16494150.00
42	42	Modification/upgradation, validation and alteration of data logger as per site engineer at SSCR Station. This includes changes of NMDL software etc. Also data logger to be interfaced with PI/ EI equipment kept at the relay room. This work includes validation, wiring, etc. For this work necessary wire from relay to tag block & from tag block to data logger and tag block, terminal, wiring material etc. required for this work to be supplied by contractor. Note - Wire to be procured from RDSO approved firms and to be inspected by consignee. SOR ITEM NO. 0215	Set	3.00	61971.00	185913.00

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43	43	Supply of Tool kit for HASSDAC/SSDAC consisting of the following. a) Digital multi meter - Model 187 of Fluke make or Model Rish 18S of Rishabh Make or similar suitable for Digital Axle Counter. b) Train simulator. c) Extender card. d) Dummy Wheel. e) Square Drive T Handle - Model 1733 of Taparia Make. f) 19mm, 3/8 inch square drive socket made of Chrome Vanadium steel - Model 19H of Taparia make or similar. g) Ring Spanner (Flat) of size 17 x 19 mm. - Jhalani Make or equivalent. h) Double ended open jaw spanner no. 895 (Deflector plates). i) Spanner of size 17 x 19 mm. - Jhalani or Everest or Taparia Make. j) Spanner of size 19 x 24 mm. - Jhalani or Everest or Taparia Make. k) Ring Spanner of size 24 x 26 mm. - Jhalani or Everest or Taparia Make. l) Screw Driver No. 902 - Taparia Make or equivalent. m) Screw Driver No. 935 - Taparia Make or equivalent. n) Carrying bag for tools. Inspection: RITES/Consignee.SOR ITEM NO. 1615	Set	3.00	131943.00	395829.00
44	44	Supply of Universal Fail-safe Block Interface (UFSBI) as per Specification No. IRS:S-105/2012 (Ver.0) or latest OR Solid-State Block Proving Axle Counter (Digital) (SSBPAC-D) as per specification No. RDSO/SPN/175/2005 Ver. 1 or latest. Complete with all accessories for Single Line or Double Line. Inspection: RDSO. Warranty of the equipment shall be 2 YEARS from the date of commissioning. Note - Payment terms - 75% after supply. 15% after installation, wiring & Testing, 10% after commissioning.SOR ITEM NO. 1504	Pair	11.00	819630.00	9015930.00
45	45	Supply of Industrial grade EI Modem (with 1+1 hot standby EI uplink) for UFSBI with 6 no. of RS232 & 8 nos. E&M VF channel (individually configurable to 2/4 wire by simple hardware switch) suitable for connecting UFSBI Block along with UP & DN Line HASSDAC and 100% spare channels. Working on dual DC 24/48 Volts supply in hot-standby mode. Note: Warranty of the equipment shall be 2 YEARS from the date of Supply. SOR ITEM NO. 1506	Numbers	11.00	202209.00	2224299.00
46	46	Installation, Testing and Commissioning of Industrial grade EI Modem (with 1+1 hot standby EI uplink) for UFSBI with 6 no. of RS232 & 8 nos. E&M VF channel (individually configurable to 2/4 wire by simple hardware switch) suitable for connecting UFSBI Block along with UP & DN Line HASSDAC and 100% spare channels. Working on dual DC 24/48 Volts supply in hot-standby mode as per RDSO TAN/ Guidelines. SOR ITEM NO. 1507	Set	11.00	70688.00	777568.00
47	47	UFSBI Block Telephone (Complete with PTT Handset).SOR ITEM NO. 1517(K)	Numbers	11.00	6249.00	68739.00
48	48	Automatic media changeover of Modems working on redundant channels for data transmission on OFC/Quad compatible with existing UFSBI.SOR ITEM NO. 1517(L)	Numbers	11.00	34994.00	384934.00
49	49	Supply of Key switch with 1 NO + 1 NC or 2 NO config. of ESBEE make, suitable to work with Block Panel of Deltron or similar make as per RDSO Spec No. IRS-S-105/2012 Ver.0 or Latest.SOR ITEM NO. 1517(M)	Numbers	8.00	1221.00	9768.00

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50	50	Supply of RS232 Serial communication to Optical fiber media converters as per RDSO Spec. No. IRS (S) 99/2006 (Amdt.3) or latest. Inspection: RITES/Consignee. SOR ITEM NO. 0218	Numbers	8.00	2254.00	18032.00
51	51	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 to be specified by Railways. Inspection: RITES/Consignee.SOR ITEM NO. 1204	Kilometre	12.00	79596.00	955152.00
52	52	Laying of HDPE/DWC/GI Pipes 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.SOR ITEM NO. 1205	Kilometre	12.00	7590.00	91080.00
53	53	48 Fiber Armoured OFC cable confirming to RDSO specification No.RDSO/SPN/TC/110/2020 Revision-0 or latest if any up to the date of tender opening (Warranty Period : Upto 30 months from the date of delivery.)	Kilometre	12.00	76338.55	916062.60
54	54	Supply of FSK to Optical Fiber Converter (OFC). (01 Set consisting of 02 Nos. FSK to OFC module). Note: This unit to be used for SSDAC/HASSDAC. Module to be powered by 24V DC. It has minimum 2 input port and minimum 2 output port at each unit of the set and has auto change over facility. This item to be housed inside the Location box and housing arrangement to be supplied by the contractor. The unit should have an LED indication panel to show health of the unit, status of media and potential free contact for monitoring through datalogger. This unit has a power off failsafe mechanism. Make - CEL/CYGNUS/TEAM ENGG or similar. Warranty will be minimum one year from date of commissioning. Inspection: RITES/Consignee.SOR ITEM NO. 1425	Numbers	4.00	64141.00	256564.00
55	55	Supply of Single Section Digital Axle Counter (SSDAC) as Set per specification No. RDSO/SPN/177/2012 Ver.3.0 or latest. Inspection- RDSO Note - (i) The length of Tx & Rx cable shall be of 5/10/15 m to meet the site requirements. Before supply of Tx-Rx cable, approval from concerned authority to be taken. (ii) Warranty of the equipment shall be 2 YEARS from the date of commissioning. (iii) Payment terms - 75% after supply 15% after installation, wiring & Testing, 10% after commissioning.SOR ITEM NO. 1502	Set	24.00	667988.00	16031712.00

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56	56	Installation, Testing & Commissioning of SSDAC as per latest RDSO TAN/Guidelines. Note - It includes fixing of device, relays, wiring, lacing /dressing, cable termination with lug eyelet, drilling holes in rails, Installation of track devices and making it functional along with existing UFSBI/block instrument. Material required other than supply item of SSDAC/HASSDAC shall be arranged by contractor to make it functional.SOR ITEM NO. 1503	Set	24.00	36802.00	883248.00
57	57	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: RITES/Consignee. SOR ITEM NO. 0821	Numbers	11.00	39446.00	433906.00
58	58	Supply of 1 WAY FRP TYPE JUNCTION ROUTE INDICATOR as per RDSO Drg. No. SA-23401(Adv.)/(Alt.2). Inspection: RITES/Consignee. SOR ITEM NO. 0832	Numbers	13.00	33597.00	436761.00
59	59	Supply of 2 WAY FRP TYPE JUNCTION ROUTE INDICATOR as per RDSO Drg. No. SA-23402(Adv.)/(Alt.2). Inspection: RITES/Consignee.	Numbers	4.00	42260.00	169040.00
60	60	Supply of 3 WAY FRP TYPE JUNCTION ROUTE INDICATOR as per RDSO Drg. No. SA-23403(Adv.)/(Alt.2). Inspection: RITES/Consignee.	Numbers	3.00	41297.00	123891.00
61	61	Supply of metallic 4 way Junction route indicator unit Without Lenses & Holder as per Drg. No. RDSO SA- 23404 or latest suitable for LED Signal Lighting Unit as per IRS:S-66/84 Amdt.1 or latest. Inspection: RITES/Consignee. SOR ITEM NO. 0829	Numbers	1.00	27177.00	27177.00
62	62	Supply of AC LED alpha or numeric route indicator for 1-19 / A-R routes with complete housing with white LED as per specification IRS : S 66/84 Amdt.1 or latest and Drg. No. SA 23761(Adv.) or Latest. Lamp proving compatible with normal bulb type multi lamp route indicators. Input operating voltage 110V AC +/- 25%. Uniform intensity over the entire operating range. Inspection: RITES/Consignee.SOR ITEM NO. 0840	Numbers	1.00	53145.00	53145.00
63	63	Installation, testing and commissioning of AC LED alpha or numeric route indicator with complete housing including necessary wiring connection with the main signal and dismantling of existing route indicator wherever required. Necessary signalling cable if required will be supplied by the Railway. SOR ITEM NO. 0841	Numbers	1.00	27297.00	27297.00
64	64	Fixing of junction type route indicator - 1 way - complete / fixing of additional limb to the existing route indicators, termination of tail cables, wiring, fixing of required number of EWS locks, wire mesh and painting. [Fixing bolts and nuts, wire mesh, PVC / Nylon sleeves, paints and all other miscellaneous materials shall be supplied by the contractor]. SOR ITEM NO. 0835	Numbers	13.00	2136.00	27768.00
65	65	Fixing of junction type route indicator - 3 way - complete / fixing of additional limb to the existing route indicators, termination of tail cables, wiring, fixing of required number of EWS locks, wire mesh and painting. [Fixing bolts and nuts, wire mesh, PVC / Nylon sleeves, paints and all other miscellaneous materials shall be supplied by the contractor]. SOR ITEM NO. 0837	Numbers	3.00	2923.00	8769.00

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66	66	Fixing of junction type route indicator - 4 way - complete / fixing of additional limb to the existing route indicators, termination of tail cables, wiring, fixing of required number of EWS locks, wire mesh and painting. [Fixing bolts and nuts, wire mesh, PVC / Nylon sleeves, paints and all other miscellaneous materials shall be supplied by the contractor]. SOR ITEM NO. 0838	Numbers	1.00	4414.00	4414.00
67	67	Supply of "A" marker LED (White Color) signal lighting unit retrofittable in existing CLS housing and compatible with AC LED ECR,(as per Spec. No. RDSO/SPN/153/2023 Rev 5.0 or latest). Inspection: RDSO. SOR ITEM NO. 0807	Numbers	2.00	5018.00	10036.00
68	68	Supply of Ground Connection [BG] Threaded Type for IRS type Point Machine, as per CWM/Signal Workshop/Howrah/E.Rly drawing number, SL. No., Description of Drawing & CWM/SW/HWH's Drawing No. mentioned below :- 1. Detector Rod (Far End) - BS/29/721 with ALT-1 Detector Rod (Near End)- BS/29/722 with ALT-1. 2. Lock Rod (Far End) - BS/29/723 with ALT-1, Lock Rod (Near End) - BS/29/724 with ALT-1. 3. Switch Extension Bracket - BS/29/725 with ALT-1. 4. Drive Rod - BS/29/726 with ALT-1 Drive Lug- BS/29/726 A with ALT-1. 5. Sleeve - BS/29/726 B with ALT-1. 6. Lug- BS/29/726 C with ALT-1. 7. Pin- BS/29/726 D with ALT-1. 8. Sketch showing the Layout arrangement-BS/29/727 with ALT-1. Amdt. and alt. upto date if any. Inspection: RITES/Consignee. SOR ITEM NO. 0602 For Turn Out.SOR ITEM NO. 0603	Numbers	46.00	7339.00	337594.00
69	69	Supply of Electric Point Machine-IRS type, (AC Immunity 160V AC), Non-Trailable to operate on 110V DC complete with Lock and Detector slides, (143mm throw, thrust as applicable, Rotary locking), confirming to IRS:S-24/2002 (Amdt.1) (Amdt. upto date if any) & Assy. Drg. No. RDSO-S10910 (Alt. upto date if any) & IRS:S 37/82 (Amdt.3) (Amdt. upto date if any) for Motor. Inspection: RDSO. SOR ITEM NO. 0609	Numbers	46.00	74898.00	3445308.00
70	70	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. Hylam sheet, terminal, fuses will be supplied by Railways.SOR ITEM NO. 0416	Numbers	16.00	7759.00	124144.00
71	71	Termination of Outdoor Cables (Main Cables /tail cables) in location boxes, 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).SOR ITEM NO. 0424	Per Conductor	50000.00	6.00	300000.00

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72	72	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/Consignee.SOR ITEM NO. 1101	Numbers	80.00	17543.00	1403440.00
73	73	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.SOR ITEM NO. 1102	Numbers	80.00	13705.00	1096400.00
74	74	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.SOR ITEM NO. 1103.	Numbers	80.00	6089.00	487120.00
75	75	Supply of HDHMR (High Density, High Moisture Resistance) Shelf for Full Location Box Size 950 x 400 x 25 mm. Inspection: RITES/Consignee.SOR ITEM NO. 1107	Numbers	160.00	825.00	132000.00
76	76	Supply of PBT ARA terminal 6 WAY 25 mm., DRG.NO.23756, ALT-3. as per IRS Spec. No. IRS:S-75/2006 (Rev.2.) or latest. Material to be procured from RDSO's approved firm only. Inspection: RDSO.SOR ITEM NO. 0419	Numbers	1200.00	612.00	734400.00
77	77	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: RITES/Consignee.SOR ITEM NO. 1109	Numbers	80.00	5552.00	444160.00
78	78	Supply of Non deteriorating type FUSE as per Spec No. IRS:S-78/2006 with latest amendments rating (2A/6A/10A/16A/20A) type, cylindrical. Inspection- RDSO.SOR ITEM NO. 0420	Numbers	500.00	77.00	38500.00

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79	79	Supply of fuse BASE (PBT) to Spec. No. IRS-S-78/2006 or latest, Drg. No. SA-23748 with fuse inserts cartridge, non-deteriorating type to Spec. No. IRS:S:78/2006 with latest amendment, to be mounted inside the location box on the hylam sheet. Inspection: RDSO.SOR ITEM NO. 0421	Numbers	500.00	225.00	112500.00
80	80	Dismantling of the location box including all its accessories & concrete foundation.SOR ITEM NO. 1112	Numbers	30.00	820.00	24600.00
81	81	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: Item applicable for alterations and maintenance works.SOR ITEM NO. 1113	Numbers	80.00	1774.00	141920.00
82	82	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 prorated basis. SOR ITEM NO. 1227	Kilometre	21.00	97822.00	2054262.00
83	83	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. SOR ITEM NO. 1228	Metre	700.00	1128.00	789600.00
84	84	Arranging of HDD machine with accessories including handling/laying of Pipes and preparation of site and boring (boring size upto 175 mm.) at track crossing/ pucca road crossing, boring trench shall be minimum 01(one) meter below the track/road/pucca road crossing area. Required pipes shall be supplied by Railways. Payment shall be made after laying of required cables & sealing/plugging of vacant pipes.	Metre	3000.00	1946.00	5838000.00
85	85	Supply of HDPE pipe of various diameter with material grade PE 100 as per specification IS:4984:1995 up to latest amendment. INSPECTION: RITES/Consignee. d) HDPE pipe of 160mm Dia. SOR ITEM NO. 1248 D	Metre	3000.00	792.00	2376000.00
86	86	Laying of S&T Cables of various cores/pairs/quads in trenches/GI pipes/RCC pipes/DWC pipes/Trunking. SOR ITEM NO. 1230	Metre	154000.00	7.00	1078000.00

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87	87	Supply of Double Walled Corrugated (DWC) HDPE duct of outer Diameter 63 mm. and inner Diameter 50 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: RITES/Consignee.SOR ITEM NO. 1207	Numbers	1500.00	867.00	1300500.00
88	88	Laying of HDPE/DWC/GI Pipes Double Walled Corrugated (DWC) HDPE duct of outer Diameter 63 mm. and inner Diameter 50 mm. length of 6m. SOR ITEM NO. 1205	Metre	1500.00	75.90	113850.00
89	89	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). Materials to be procured only from RDSO approved list of firms for manufacture & supply of mechanical signaling items. Inspection: RITES/Consignee.SOR ITEM NO. 0810	Numbers	29.00	11357.00	329353.00
90	90	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: RITES/Consignee.SOR ITEM NO. 0814	Numbers	29.00	9936.00	288144.00
91	91	Supply of color light signal post 3.5 mtr. as per RDSO Spec. No. IRS:S-6-81 (or latest) and Drg. No. SA-23156 (Adv.), Alt-1 (or latest). Materials to be procured only from RDSO approved list of firms for manufacture & supply of mechanical signaling items. Inspection: RITES/Consignee.SOR ITEM NO. 0811	Numbers	28.00	8832.00	247296.00
92	92	Supply of 3.5 meter Ladder for Color Light Signal as per RDSO Drawing No. SA-23150 (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: RITES/Consignee.SOR ITEM NO. 0815	Numbers	28.00	7728.00	216384.00
93	93	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/Consignee. SOR ITEM NO. 0819	Numbers	28.00	32374.00	906472.00
94	94	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/Consignee. SOR ITEM NO. 0820	Numbers	18.00	34896.00	628128.00
95	95	Supply of offset bracket for position light shunt signal (90 mm. outside Dia.) post with U clamps, nuts, washers complete as per RDSO Drg. No. SA-23080/ADV/ALT-1 all drawings should be as per latest. Inspection: RITES/Consignee.SOR ITEM NO. 0845	Numbers	24.00	2573.00	61752.00
96	96	Supply of dependent/position light type Shunt Signal complete as per Drawing No. SA-23840(Adv.) Alt.2 or latest, S-23023 or latest with offset bracket to Drg. No. SA23080 Adv. Alt. 1 or latest to suit 140 mm. dia. post complete as per Specification No. IRS:S-10/78 Rev.8 or latest. Inspection: RITES/Consignee. SOR ITEM NO. 0844	Numbers	23.00	6988.00	160724.00

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97	97	Supply of electrical key transmitter for crank handle arrangement, siding control as per yard diagram, approved circuit diagram. Installation portion shall include supply of necessary angles, wooden shelf, nuts & bolts as required for the work. The ward no. Of key shall be advised by the site engineer. This includes supply of electrical key transmitter with key for crank handle interlocking arrangement siding control as per yard diagram, approved circuit diagram and specn.no. IRS-S- 21/01 (LATEST) AND IRS-S-23 (LATEST), DRG. NO. SA- 22601 (ADV) ALT. 2. [key combination will be intimated by site engineer]. iNSPECTION : RDSO	Numbers	32.00	7345.00	235040.00
98	98	Supply of Shunt Signal Position Light type complete with base, post etc. as per Drg. No.SA-23840 (Adv.) Alt '1' or latest, S-23203 or latest and Drg. No. SA-23845(Adv.) or latest for 90 mm. dia. mounting socket as per Specification No. IRS:S-10/78 with Rev.8 or latest. Inspection: RITES/Consignee. SOR ITEM NO. 0846	Numbers	33.00	8549.00	282117.00
99	99	Erection of Ground type shunt signal complete including surface base, signal post, LED aspects, number plate, termination of tail cables, wiring of signal unit, provision of EWS locks and painting of one coat of red oxide and two coats of Aluminium / enamel paint, (Supply of Ground type shunt signal complete including surface base, signal post, LED unit is to be supplied by Railways). (EWS locks, enameled number plates, bolts and nuts, lead wool, paints and all other miscellaneous materials shall be supplied by the contractor).SOR ITEM NO. 0847	Numbers	33.00	2696.00	88968.00
100	100	Casting, concreting and curing of foundation for Shunt signal including cost of all materials required for casting and concreting. All materials required for execution will be supplied by the contractor, including holding down galvanised bolts & nuts with washers, cement, sand, stone chips, PVC pipe, shuttering etc. As per Drg. No. SK/5/95/NKG.SOR ITEM NO. 0848	Numbers	33.00	5152.00	170016.00
101	101	Supply of Calling ON/Guard Repeater Signal Unit with Brackets & Fixing accessories. Calling ON / Guard Repeater Signal Unit shall conform to RDSO Drg. No. 24351(Adv.) Alt1. suitable for LED Signal Lighting Unit. Inspection: RITES/Consignee.SOR ITEM NO. 0849	Numbers	8.00	3193.00	25544.00
102	102	Fixing of Calling-on Signal / A-Sign / AG-Sign unit on signal post including Guard Repeater Signal. The item includes fixing of Co-On signal / 'A' sign / 'AG' sign unit on signal post with bracket, hood etc. Item includes supply of bracket & fixing materials etc. by the contractor. The item also includes termination of cables & wiring inside Co-On signal / 'A' sign / 'AG' sign unit as per standard practice. SOR ITEM NO. 0851	Numbers	8.00	2943.00	23544.00
103	103	Supply of cast iron offset bracket for Main Signal with U clamps, nuts, washers complete Drg. No. SA-23080/ADV/Alt-1. RDSO Spec. No. IRS-S-10/78. Inspection: RITES/Consignee. SOR ITEM NO. 0822	Numbers	23.00	3168.00	72864.00

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104	104	Supply of Offset Bracket to suit 140mm dia. CLS post with two numbers of U bolts and nuts complete. Inspection: RITES/Consignee. SOR ITEM NO. 0823	Numbers	28.00	4892.00	136976.00
105	105	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). SOR ITEM NO. 0824	Numbers	57.00	10166.00	579462.00
106	106	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). SOR ITEM NO. 0825	Numbers	57.00	13314.00	758898.00
107	107	Fixing of junction type route indicator - 2 way - complete / fixing of additional limb to the existing route indicators, termination of tail cables, wiring, fixing of required number of EWS locks, wire mesh and painting. [Fixing bolts and nuts, wire mesh, PVC / Nylon sleeves, paints and all other miscellaneous materials shall be supplied by the contractor]. SOR ITEM NO. 0836	Numbers	4.00	2530.00	10120.00
108	108	Supply and fixing of protective screen of expanded metal 12 SWG of size 1200 x 1500 mm. on signals as per std. practice in the RE Area. Inspection: Consignee.SOR ITEM NO. 0852	Numbers	57.00	4415.00	251655.00
109	109	Supply of P / C / G / A / AG marker as per relevant drawing. Inspection: Consignee.SOR ITEM NO. 0853	Numbers	20.00	694.00	13880.00
110	110	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. SOR ITEM NO. 0854	Numbers	57.00	470.00	26790.00

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111	111	Supply of 280 mm. x102 mm. x 2 mm. thickness vitreous enamel coating arrow markers board fabricated with MS clamp of size 40 mm. x 6 mm. along with suitable bolts and nuts. Inspection: Consignee.SOR ITEM NO. 0855	Numbers	53.00	367.00	19451.00
112	112	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. OR ITEM NO. 0801	Numbers	85.00	9238.00	785230.00
113	113	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.OR ITEM NO. 0802	Numbers	110.00	9454.00	1039940.00
114	114	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.OR ITEM NO. 0803	Numbers	85.00	10414.00	885190.00
115	115	Supply of LED signals for Route Aspect (Subsidiary Signal), 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Spec. No. RDSO/SPN/153/2023 Revision.5.0 or latest. Inspection: RDSO.OR ITEM NO. 0804	Numbers	200.00	5864.00	1172800.00
116	116	Supply of LED signals for Shunt Signal Aspect (Subsidiary Signal), 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Spec. No. RDSO/SPN/153/2023 Revision.5.0 or latest. Inspection: RDSO.OR ITEM NO. 0805	Numbers	170.00	6425.00	1092250.00
117	117	Supply of LED signals for Calling ON Signal Aspect (Subsidiary Signal), 110V AC retrofittable in existing CLS housing and compatible with AC LED ECR as per RDSO Spec. No. RDSO/SPN/153/2023 Revision.5.0 or latest. Inspection: RDSO.OR ITEM NO. 0806	Numbers	8.00	7693.00	61544.00
118	118	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 Central EI) along with 300AH 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.SOR ITEM NO. 0501	Numbers	4.00	1508040.00	6032160.00
119	119	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.SOR ITEM NO. 0504	Numbers	4.00	70082.00	280328.00

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120	120	Installation, wiring and testing of electrical key transmitter for crank handle arrangement, siding control as per yard diagram, approved circuit diagram. Installation portion shall include supply of necessary angles, wooden shelf, nuts & bolts as required for the work. The ward no. Of key shall be advised by the site engineer. This includes supply of electrical key transmitter with key for crank handle interlocking arrangement siding control as per yard diagram, approved circuit diagram and specn.no. IRS-S- 21/01(LATEST) AND IRS-S-23(LATEST),DRG.NO.SA- 22601 (ADV)ALT. 2. [key combination will be intimated by site engineer]	Numbers	32.00	6796.00	217472.00
121	121	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).SOR ITEM NO. 0859	Numbers	57.00	1831.00	104367.00
122	122	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. SOR ITEM NO. 1203	Metre	600.00	360.00	216000.00
123	123	SUPPLY OF UNDERGROUND, ARMOURED, UNSCREENED RAILWAY SIGNALLING CABLE(HEAVY DUTY) WITH HIGH CONDUCTIVITY COPPER CONDUCTOR OF SIZE: 6 CORE X 1.5 SQ MM AS PER SPECIFICATION NO.IRS: S63/2014(Rev.4.0) WITH LATEST AMENDMENT IF ANY	Kilometre	12.00	143349.43	1720193.16
124	124	Supply of Pipe lock with key ring size inside dia. 40.5 mm., outside dia. 60mm. Thickness 20 mm., lock length 65 mm. Inspection: Consignee.SOR ITEM NO. 0862	Numbers	79.00	162.00	12798.00
125	125	Laying of STP/UTP CAT-6/Power Cable/LS cable through flexible PVC Conduit Pipe/GI Pipe/HDPE Pipe (where necessary) as per direction of the Rly. Representative, including any fixing of cables/PVC pipe/PVC Casing on wall/shed with suitable clamps (the clamps and screws should be made of Stainless steel). All the fixing materials including Collar, bend, junction etc. shall be supplied by the contractor. This also includes transportation of cable, PVC Pipe, GI Pipe, HDPE Pipe etc. to the site. SOR ITEM NO. 1446	Metre	4000.00	19.00	76000.00
126	126	Supply of high fidelity PA horn speaker IP-65 rated model AMH-402T, make Ahuja or similar. Inspection: Consignee. SOR ITEM NO. 14127	Numbers	12.00	6698.00	80376.00

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127	127	Supply of Ahuja SCM-30 20W/16Ohm PA Column Speaker, Input Power: 20W RMS, 30W Max., Power Taps: 20W, 20/15/10W, Impedance/Voltage: 16, 100V, Speakers: 4 x 152.4 mm.(6") x 101.6 mm.(4"), Make : Ahuja/similar, Model : SCM-30 or similar. Inspection: Consignee. SOR ITEM NO. 14127	Numbers	12.00	2890.00	34680.00
128	128	Fixing and wiring of platform repeaters. The work involves fixing of platform repeater using suitable fixing arrangements at places indicated, wiring the same and painting as per the instructions of Railway representative at site. The signal shall be connected to the apparatus case using cables neatly clamped. The work also includes provision of one EWS lock. (Laying of cable, supply of repeater signals and cables is not included in this schedule). [Required paint, EWS lock and all other miscellaneous materials required for the work shall be supplied by the Contractor].SOR ITEM NO. 0865	Numbers	12.00	5113.00	61356.00
129	129	Fabrication, Supply and fixing of CALLING ON instruction boards, STOP boards/BSLB/Shunting Limit Board/Auto section 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.SOR ITEM NO. 0867	Numbers	10.00	7267.00	72670.00
130	130	Provision of foundation for the signal warning boards/calling on 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.SOR ITEM NO. 0868	Numbers	10.00	1548.00	15480.00
131	131	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. SOR ITEM NO. 1305	Numbers	2100.00	3.00	6300.00
132	132	Supply of Tinned Copper LUGs for fitting in Cable Size : 6 Sq.mm, Barrel Inner Dia: 4.0 mm., Barrel Outer Dia : 5.5 mm., Barrel Length: 10mm., Stud Hole Center Dia : 8.2 mm., Palm Width: 10.0 mm., Thickness: 1.3-1.5 mm., Lug Length: 24 mm., Thimble Type: Ring. Inspection: Consignee.SOR ITEM NO. 1306	Numbers	2100.00	6.00	12600.00
133	133	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.SOR ITEM NO. 1307	Numbers	2100.00	12.00	25200.00

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134	134	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. SOR ITEM NO. 1307	Numbers	2100.00	16.00	33600.00
135	135	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. SOR ITEM NO. 1308	Numbers	2100.00	35.00	73500.00
136	136	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/Consignee.SOR ITEM NO. 1309	Numbers	60.00	4858.00	291480.00
137	137	Supply of Copper Strip 25 X 6 mm. Inspection: RDSO/Consignee.SOR ITEM NO. 1310	Metre	60.00	873.00	52380.00
138	138	Supply of Copper tape for BRC(25 X 2) mm. Inspection: RDSO/Consignee.SOR ITEM NO. 1311	Metre	60.00	317.00	19020.00
139	139	Supply of Earth Enhancement material for treatment of earth pits as per Specification No. RDSO/SPN/197/2016 Ver.1.0 or latest. Inspection: RDSO/Consignee. SOR ITEM NO. 1312	Kg	300.00	147.00	44100.00
140	140	Installation of Unit Maintenance Free Earth. 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) This also includes supply of CC cover 1.5 ft. x 1.5 ft. 1 ft. wall thickness 2 inch with cover 3 inch thickness. SOR ITEM NO. 1313	Set	60.00	3761.00	225660.00
141	141	Supply of 50 mm. x 6 mm. GI tape for interconnecting earth electrodes. Inspection: Consignee. Inspection: RDSO/Consignee.SOR ITEM NO. 1314	Metre	300.00	541.00	162300.00
142	142	Installation of GI Tape (50 X 6 mm.) for connecting Main earth pit to other earth pit in case of loop earth. Note: 'No' in the unit column indicates 'per pair of earth pit'.SOR ITEM NO. 1315	Numbers	300.00	100.00	30000.00
143	143	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: RDSO/Consignee.SOR ITEM NO. 1316	Numbers	150.00	498.00	74700.00
144	144	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: RDSO/Consignee.SOR ITEM NO. 1317	Numbers	150.00	382.00	57300.00

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145	145	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'.SOR ITEM NO. 1318	Numbers	500.00	32.00	16000.00
146	146	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.SOR ITEM NO. 1319	Set	280.00	27.00	7560.00
147	147	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: RITES/Consignee.SOR ITEM NO. 1320	Numbers	60.00	1886.00	113160.00
148	148	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.SOR ITEM NO. 1321	Metre	60.00	230.00	13800.00
149	149	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. SOR ITEM NO. 1322	Numbers	60.00	1464.00	87840.00
150	150	Provision of cement concrete enclosure for earth electrodes as per CSTE/ER's (Drg. No. SI/TYP/0097 dated 25.03.25). Inspection: Consignee.SOR ITEM NO. 1323	Numbers	60.00	720.00	43200.00
151	151	Welding for jointing MS flat width of different lengths strips connecting from Earth to location boxes/Signal post/Signal Unit for better continuity. Prior approval of welding material to be taken from the Engineer In charge. Note: 'No.' in Unit Column indicates 'Each Weld'. SOR ITEM NO. 1324	Numbers	60.00	346.00	20760.00

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152	152	Carrying out wiring of potential free contact of SPD with Datalogger via Tag Block and validation in Datalogger. 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 Inspection: Consignee. Note: (i) wire to be procured from RDSO's approved source only. All required material like wire, soldering material, paint etc. to be supplied by the contractor for execution of the work. SOR ITEM NO. 1325	Per Relay	100.00	270.00	27000.00
153	153	Installation of GI Wire in location Box and soldering / Tinkering of cable armour. This includes Releasing of existing armour connection from existing GI wire and replacement with new GI wire and resoldering of armour with New GI wire. Note: 6 SWG (4mm dia.) GI wire and soldering material to be supplied by the contractor.SOR ITEM NO. 1326	Numbers	280.00	304.00	85120.00
154	154	Transportation of materials from any Stores to Site and vice-versa including loading and unloading.Lead up to 50 Kms.SOR ITEM NO. 1801 (A)	Per Track KM	2500.00	11.00	27500.00
155	155	Transportation of materials from any Stores to Site and vice-versa including loading and unloading. Lead above 50 Kms. SOR ITEM NO. 1801 (B)	Per Track KM	2500.00	7.00	17500.00
156	156	"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."	Numbers	3.00	70159.00	210477.00
157	157	Supply, installation, and commissioning of Active Repeater Panel with backlit Liquid Crystal Display & Reset, Silence & Acknowledge function. The unit should be UL listed and FM approved complete as per specifications. Make-Honeywell or similar. Inspection: RDSO. SOR ITEM NO. 1017	Numbers	3.00	68250.00	204750.00

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158	158	"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." SOR ITEM NO. 1018	Numbers	90.00	3364.00	302760.00
159	159	"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." SOR ITEM NO. 1019	Numbers	6.00	3995.00	23970.00
160	160	"Supply, Installation, Testing & Commissioning of Linear Heat Sensing (LHS) cable as per RDSO Specification No. RDSO/SPN/217/2025 Version No.3.1 or latest. Inspection: RDSO. Payment: 70% on supply, balance on commissioning" SOR ITEM NO. 1020	Metre	300.00	1046.00	313800.00
161	161	"Supply, Installation, Testing & Commissioning of LHS interface module (Monitor Module + LHS Panel + EOL End of Line) as per RDSO Specification No. RDSO/SPN/217/2025 Version No.3.1 or latest. Inspection: RDSO. Payment: 70% on supply, balance on commissioning." SOR ITEM NO. 1021	Numbers	3.00	55794.00	167382.00
162	162	"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." SOR ITEM NO. 1022	Numbers	3.00	8963.00	26889.00
163	163	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. SOR ITEM NO. 1023	Metre	300.00	125.00	37500.00
164	164	"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: RITES/Consignee." SOR ITEM NO. 1024	Numbers	18.00	6009.00	108162.00

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165	165	Supply of Master telephone with voice recorder as per RDSO Spec. No. RDSO/SPN/TC/51/2011 Rev.4.0. Inspection: RDSO. SOR ITEM NO. 0920.	Numbers	3.00	55571.00	166713.00
166	166	Installation, testing and commissioning of Master gate telephone. This Includes testing and commissioning, all installation related material to be supplied by the contractor as per site requirement.SOR ITEM NO. 0921	Numbers	3.00	7771.00	23313.00
167	167	Supply of Gate (slave) Telephone with voice recorder as per RDSO Spec. No. RDSO/SPN/TC/51/2011 Rev.4.0. Inspection: RDSO.SOR ITEM NO. 0922	Numbers	3.00	5794.00	17382.00
168	168	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.SOR ITEM NO. 0923	Numbers	3.00	824.00	2472.00
169	169	Supply of 24V Power supply unit with MF Battery and Charger for Master Telephone as per RDSO Spec. No. RDSO/SPN/TC/51/2011 Rev.4.0. Inspection: RDSO.SOR ITEM NO. 0924	Numbers	3.00	7487.00	22461.00
170	170	Installation, testing and commissioning of 24V Power supply unit with MF Battery and Charger for Master Telephone. All installation related material to be supplied by the contractor as per site requirement. SOR ITEM NO. 0925	Numbers	3.00	948.00	2844.00
171	171	Supply of FRP type vertical point Junction Box as per drawing No. SI./TYP/102 issued by ER on 04.08.25. Inspection: RITES/Consignee.SOR ITEM NO. 0601	Numbers	62.00	8281.00	513422.00
172	172	Supply of GI bend pipe, 'B' class, 50 mm. dia., length 450 mm. for cable entry in point machines, along with required fixing arrangements as per standard practice on Eastern Railway. Inspection: Consignee.SOR ITEM NO. 0619	Numbers	62.00	3294.00	204228.00
173	173	Supply of complete set of ground connections for high thrust 220 mm. stroke point machine along with insulation as per Drg. No. RDSO/33454 Alt.B dt.25-01-2023 or latest along with insulation. Inspection: RITES/Consignee.SOR ITEM NO. 0607	Set	16.00	47051.00	752816.00
174	174	Supply of Electric Point machine IRS type 220 mm throw, high thrust (AC immunity 160V AC), non-trailable to operate on 110V, DC complete with Lock and Detector slides, and clamp lock 60 Kg. confirming to IRS:S 24/2002 & Assy. Drg. No. RDSO-S/11000 & For Motor IRS:S-37/82. Inspection: RDSO.SOR ITEM NO. 0608	Numbers	16.00	129961.00	2079376.00

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175	175	Installation of electric point machines on MS plate fixed on wooden/ concrete sleepers complete with fixing of ground connections including smithy works involved, insulation of MS plate on which the point machine is to be fixed from the gauge tie plate involving riveting/welding of angle cleats, termination adjustment for operation of points by crank handle, painting and lettering as required including wiring, testing and commissioning. Note: MS plate/flat/angle /angle cleats, paints, bolts & nuts and washers of sizes as required for fixing the point machine shall be supplied by the contractor except point machine and ground connections.SOR ITEM NO. 0610	Numbers	62.00	13119.00	813378.00
176	176	Fabrication of Keys and Plate configuration for points. Inspection: RITES/Consignee Supply of key for point machine for grouping of crank handle. SOR ITEM NO. 0626(A)	Numbers	32.00	316.00	10112.00
177	177	Fabrication and supply of required configuration of grouping plate in point machine for grouping of crank handle.SOR ITEM NO. 0626(B)	Numbers	32.00	558.00	17856.00
178	178	Gauge Tie plate insulation as per RDSO/SPN/168/2005 as per RDSO Drg. No. T-10372 Alt.2, T-10368, T-10371 Alt.2, T-15083/88 Alt.2 & T-11690 Alt.2 and as per RDSO/SPN/168/2005 with latest amendments as applicable. Gauge tie plates (52Kg/60Kg as per site requirement) Insulation for (BG) complete with insulating bush and washer. Each set comprising of: (a) Insulating plate for insulated tie plate BG as per RDSO Drg. No. T-10372 - 1 No. (b) Insulating bushing for insulated stretcher bar BG as per RDSO Drg. No. T10368 - 3 Nos. (c) Insulating Washer for insulated stretcher bar BG to IRS-40/84 as per RDSO Drg. No. T-10371 - 6 Nos. Inspection: RITES/Consignee. SOR ITEM NO. 0612	Set	90.00	460.00	41400.00
179	179	Ground connection insulations for thick web switch layout facing point (BG) for 52kg/60kg rail fitted with high thrust (220mm) point machine comprising of the following: Set 1. Bush as per Drg. No.S-3463 - 1 no. and Washer as per DRG. No. S-58640 - 2 no. for drive (throw) rod 2. Bush as per Drg. No.S-23199 - 1 no. and Washer as per Drg. No.S-8640 - 2 nos. for a short detector rod. 3. Bush as per Drg. No. S-3199 - 1 no. and Washer as per Drg. No. S-8640 - 2 nos. for a long detector rod. 4. Bush as per Drg. No. S-22179 - 1 no. and Washer as per Drg. No. S-8640 - 2 nos. for short lock rod. 5. Bush as per Drg. No. S-22179 - 1 no. and Washer as per Drg. No. S-8640 - 2 no. for long lock rod. 6. Bush 'B' as per Drg. No. S-8912 for LH lock slide - 1 no. 7. Bush 'B' as per Drg. No. S-8912 for LH lock arm - 2 nos. 8. Bush 'B' as per Drg. No. S-8912 for RH lock arm - 2 nos. 9. Bush 'B' as per Drg. No. S-8912 for RH lock slide - 1 no. 10. Bush as per Drg. No. S-23199 - 4 nos. and washer as per Drg. No. S-8640 - 4 nos. for the LH lock slide. 11. Insulating Plate LH as per Drg. No. S-3404 RDSO S- 3593 - 1 No. 12. Insulating Plate RH as per Drg. No. S-3404 RDSO S-3592 - 1 No. 13. Bush as per Drg. No. S-23199 - 4 nos. and washer as per Drg. No. S-8640 - 4 nos. for RH lock slide. Inspection: RITES/Consignee.SOR ITEM NO. 0613	Set	30.00	1064.00	31920.00

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180	180	Painting of 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 and ground connections, Point machine by Black enamel and ground connection by Red oxide) SOR ITEM NO. 0621	Numbers	62.00	293.00	18166.00
181	181	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/Consignee.SOR ITEM NO. 1201	Metre	300.00	1326.00	397800.00
182	182	Supply of Light class GI pipes 50 mm. dia. (thickness 2.9 mm) as per IS 1239 (Part1):2004 or Latest with socket & coupling. Inspection: RITES/Consignee.SOR ITEM NO. 1202	Metre	300.00	638.00	191400.00
183	183	Underground, Armoured, Unscreened Railway signaling cable (Heavy Duty) with high conductivity copper conductor of size 12 Core X 1.5 sq mm as per Specn. No.IRS: S-63/2014 (Rev.4.0) with latest Amdt.if any.	Kilometre	100.00	262233.76	26223376.00
184	184	Supply of underground railway Jelly filled telecom 6 quad cable 0.9 mm dia for signalling and telecom installation conforming to specn.no.IRS-TC-30/2005 ver-i with amdt.- 5 or latest.	Kilometre	27.00	312936.00	8449272.00
185	185	Supply of pvc insulated steel strip armoured, unscreened, copper conductor of size 2 core x 10 sq. mm power cable standard 7 x 1.40 mm for railway signalling conforming to spec. no. IRS :S-63-2014 REV . 4.0 and is : 1554 (part-1) with latest amdt. if any	Kilometre	15.00	257535.00	3863025.00
186	186	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.SOR ITEM NO. 0901	Set	3.00	566573.00	1699719.00
187	187	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.SOR ITEM NO. 0902	Set	3.00	62460.00	187380.00

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188	188	Painting & Lettering of Electric lifting barriers (ELB) includes Operating console, lifting barriers, pedestal driving & driven mechanism, Electric motors, stop boards, Boom light, Boom rest & Boom locking arrangements etc.SOR ITEM NO. 0903	Set	3.00	3441.00	10323.00
189	189	Dismantling and Releasing of existing Electrically operated LC gate/Mechanically operated LC gate and other associated S&T fittings. All the released material will be transported to the SSE/Consignee depot.SOR ITEM NO. 0926	Set	3.00	8916.00	26748.00
190	190	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/Consignee Payment: 80% on supply and balance on commissioning.SOR ITEM NO. 0916	Set	3.00	249072.00	747216.00
191	191	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.SOR ITEM NO. 0917	Set	3.00	67031.00	201093.00
192	192	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.SOR ITEM NO. 0918	Set	3.00	8872.00	26616.00
193	193	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. HERE UNIT JOB = LSInspection: Consignee. SOR ITEM NO. 0919	Job	3.00	7907.00	23721.00
194	194	Supply, Installation, Testing and commissioning of Automatic Gate Warning System for Gate SOR ITEM NO. 0930. a) LED Based Audio-Visual Approach Warning System SOR ITEM NO. 0930 (A)	Numbers	3.00	9735.00	29205.00
195	195	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.SOR ITEM NO. 0519	Numbers	230.00	4384.00	1008320.00

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196	196	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. SOR ITEM NO. 0526	Numbers	230.00	462.00	106260.00
197	197	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@45"44@ S-23 with Amdt. Upto date as applicable or latest. Inspection: RDSO. SOR ITEM NO. 0316	Numbers	115.00	4777.00	549355.00
198	198	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. SOR ITEM NO. 0701	Numbers	115.00	5725.00	658375.00
199	199	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.SOR ITEM NO. 0702	Numbers	115.00	200.00	23000.00
200	200	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: RITES/Consignee. SOR ITEM NO. 0703	Numbers	230.00	4507.00	1036610.00
201	201	Supply of B Type Choke as per RDSO Spec. No. IRS:S-65/83 (Amnd.1) or latest. Inspection: RDSO. SOR ITEM NO. 0704	Numbers	115.00	6026.00	692990.00
202	202	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.SOR ITEM NO. 0705	Numbers	920.00	5.00	4600.00

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203	203	Supply of GI wire 8 SWG (4 mm. dia.) suitable for track circuit rail bonding. Inspection: Consignee.SOR ITEM NO. 0706	Metre	460.00	8.00	3680.00
204	204	Supply of Rail joint insulation thermoplastic polyurethane moulded 52 kg rail complete to SA-22101(Alt-6) with latest alteration and to suit specification no. RDSO/SPN/168/2005 Rev.2 with Amdt. up to date if any (without metal parts). Firm's offer: item description: IRJ TPU 52 KGS as per Drg. No. SA-22101 consisting (1) Channel, Drg. No. S- 2213 - 4 Nos. (2) End post, Drg. No. S-22105 - 1 No. (3) Ins. Plate, Drg. No. S-22106 - 4 Nos. (4) Ins. Bush, Drg. No. S-22109 - 8 Nos. & Spec. No. RDSO/SPN/168/2005. Inspection RITES/CONSIGNEE SOR ITEM NO. 0707	Set	230.00	757.00	174110.00
205	205	Supply of Rail joint insulation thermoplastic polyurethane moulded 60 kg Rail complete to Drg. no. SA-22171 (Alt.-2) (with latest alteration if any) and as per Specification No. RDSO/SPN/168/2005, Rev.2, with Amdt. up to date if any (Without metal parts). Firm's Offer: Item description: (1) Channel, Drg. No. S-22173 - 4 Nos. (2) End Post, Drg No. S-22175 - 1 No. (3) Ins. Plate, Drg. No. S-22176 - 4 Nos. (4) Ins Bush, Drg. No. S-22179 - 8 Nos. & Spec. No. RDSO/SPN/168/2005. Inspection: RITES/CONSIGNEE.SOR ITEM NO. 0708	Set	460.00	825.00	379500.00
206	206	"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: RITES/Consignee.SOR ITEM NO. 0709	Numbers	300.00	100.00	30000.00
207	207	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. HERE UNIT JOB = PER TRACK Ckt. SOR ITEM NO. 0710	Job	115.00	4090.00	470350.00
208	208	Provision/Installation of bonding with GI wire 4 mm. dia. (8 SWG)/wire rope for track jumper & fish plate joints bonds. This will include drilling of 7.0/7.1/7.2 mm. dia. holes in rails (4 Nos.) and provision of two jumpers for each bond, clipping of bonds etc. with contractors own tools as per instruction of Rly. Engineer at site. Note- This item is already covered in above item no 0710 however; this item should be used for isolation/maintenance purpose only. SOR ITEM NO. 0711	Numbers	345.00	205.00	70725.00

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209	209	Supply of Office Chair make Godrej CH-7B or better of reputed brand. Inspection: Consignee. SOR ITEM NO. 1007	Numbers	12.00	3658.00	43896.00
210	210	Supply of Office Revolving Chair Godrej Make Model No.9u02r Bravo or Better of reputed brand. Inspection: Consignee. SOR ITEM NO. 1008	Numbers	9.00	11386.00	102474.00
211	211	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. SOR ITEM NO. 1009	Numbers	3.00	16244.00	48732.00
212	212	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.SOR ITEM NO. 1010	Numbers	3.00	21636.00	64908.00
213	213	Supply, installation and complete indoor wiring of 19 inch (42U) covered Rack of size 2035 mm. x 600 mm. x 600 mm. (Approx.). The rack shall be complete with all fittings for housing SDH equipments, Primary MUXES, DDF, MDF using crone modules and other equipments like runway ladders etc. completely wired and equipped with integrated protection modules for all channels as per technical specifications and other stipulations of tender document. It should be possible to lock all the equipments with only order wire telephone remaining outside the rack. Inspection: Consignee. SOR ITEM NO. 1437	Numbers	3.00	39792.00	119376.00
214	214	Supply of FR CAT-6 UTP Cable suitable for 10BASE-T/100BASETX/and 1000BASE-T(Gigabit Ethernet). Make: DLINK/AMP/Avaya/Krone/Bestnet/Aambernet. Inspection: RITES/Consignee. SOR ITEM NO. 1442	Metre	4000.00	25.00	100000.00
215	215	Supply, installation commissioning of 500 watt Amplifier Make Ahuja model SSA 5000EM.or Similar. Inspection: Consignee. SOR ITEM NO. 14124	Numbers	2.00	29075.00	58150.00
216	216	Supply, installation commissioning of 700 watt Amplifier Make Ahuja model SSA 7000 or Similar. Inspection: Consignee. SOR ITEM NO. 14125	Numbers	2.00	30189.00	60378.00
217	217	Supply, Installation, testing and Commissioning of Platform dual face, 4 digit, GPS synchronised digital clock as per RDSO Spec. No. RDSO/SPN/TC@ 47>47@ 2008 Rev. 3, Amdt.1 and Amdt.2 or latest, with LED of Blue/Red/White color and size approximately 762 x 381 x 228 mm. It also includes all fitting arrangements. (Color to be decided by Railways). Inspection: RDSO/Consignee. SOR ITEM NO. 14119	Numbers	10.00	47020.00	470200.00
218	218	Supply of OFC single mode 6 fiber armoured cable, conforming to TEC Spec. No. GR/OFC02/03.SEP.2003 or Latest. Inspection: RITES/Consignee. SOR ITEM NO. 1402	Metre	2000.00	32.00	64000.00
219	219	Supply of 12 core Unarmoured Mono mode OFC cable as per latest TEC Specification or latest. Inspection: RITES/Consignee. SOR ITEM NO. 1403	Kilometre	2.00	18746.00	37492.00

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220	220	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. SOR ITEM NO. 1413	Numbers	6.00	2598.00	15588.00
221	221	Supply of Fiber Distribution Management system FDMS/LIU for 48 Fiber as per drawing No. RDSO/TCDO-170(a) or latest 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: RITES/Consignee. SOR ITEM NO. 1415	Numbers	6.00	10198.00	61188.00
222	222	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. SOR ITEM NO. 1416	Numbers	6.00	2086.00	12516.00
223	223	Installation, splicing and commissioning of Fiber Distribution Management system (FDMS) for 48 Fiber complete with all accessories such as patch cord & pigtail as per TEC Spec. with the latest amendment. The sundry material if required any to be supplied by the contractor. SOR ITEM NO. 1418	Numbers	6.00	8234.00	49404.00
224	224	Joining, terminating & splicing of 24/48 optical fiber cable and fixing of termination box/FDF/placing of joint closures in the pit required at various locations including transportation of all the joining & terminating materials from railway store to the work site and returning leftover materials to the railway store. SOR ITEM NO. 1423	Numbers	6.00	13505.00	81030.00
225	225	Supply of optic fiber splice closure (48 fiber) as per technical Specification No. G/OJC-02/01, March'99 with latest amendment or latest including all miscellaneous items and consumables for fiber splicing. Inspection: RITES/Consignee. SOR ITEM NO. 1422	Numbers	6.00	4522.00	27132.00
226	226	Supply of 96(48x2) Port Rack Mountable FXS Gateway SITC of 48 port FXS Gateway. Inspection: RITES/Consignee. SOR ITEM NO. 1450	Numbers	2.00	221993.00	443986.00
227	227	8 port L2 switch Supply and installation of Layer 2 Switch as per RDSO/SPN/TC/83/2020, Rev.2.0 or latest. Minimum 8+2 Port Manageable with 8 Nos. 10/100/1000 Mbps Ethernet port, POE+ & Single Fiber 2 Nos. 1G SFP Port with SM SFP Optical Modules loaded with all accessories etc. as per RDSO/SPN/TC/83/2020, Rev.2.0 or latest. Inspection: RDSO/Consignee. SOR ITEM NO. 1432	Numbers	2.00	54640.00	109280.00
228	228	Supply Installation & Commissioning of Layer 2 Manageable, 24 Port POE, 24 GE10/100/1000 Base X Ethernet port with POE+ support and 4x1GE SFP Port for uplink with 4 no of 1GE SFP modules loaded, with all accessories as per RDSO/SPN/TC/83/2020, Rev.2.0 or latest. Inspection: RDSO/Consignee. S O R ITEM NO.1433	Numbers	2.00	28766.00	57532.00

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229	229	Supply of 48/24 Port FXS Gateway 19" Rack Mountable along with Patch Panel/krone module for termination (DC or AC based as per site requirement) and Dual input ports (Fiber/Ethernet) including mounting kit and all the accessories. Inspection: RITES/Consignee. SOR ITEM NO. 1451	Numbers	2.00	65112.00	130224.00
230	230	Supply of STP (Shielded Twisted Pair) CAT-6 Cable compliant with TIA/EIA-568-B2-1 or latest. Inspection: RITES/Consignee. SOR ITEM NO. 1453	Metre	2000.00	37.00	74000.00
231	231	(a) Supply of IP based day and night high resolution camera spec with IP 66 rated water proof, dust proof for outside application with RDSO Spec. RDSO/SPN/TC/65/2013 ver.6 or latest. Inspection: RDSO/Consignee.	Numbers	5.00	27805.00	139025.00
232	232	(b) Supply of 32 Channel NVR as per RDSO SPN/TC/651/2013 Ver.6 or latest. Inspection: RDSO/Consignee.	Numbers	1.00	28816.00	28816.00
233	233	Supply and installation of ONVIF 4MP IR bullet camera with Veri focal Lenses similar to Model No. DH-IPCHFW2231 RP-ZS-1RE6 and compatible to work with Dahua/Hiki vision/CP Plus/ Honeywell make NVR with required licensed video management software. Inspection: RDSO/Consignee. SOR ITEM NO. 1464	Numbers	5.00	19517.00	97585.00
234	234	Supply and installation of ONVIF 16 Channel NVR similar to Model No. 4416-4K82 series along with required licensed video management software compatible to work with Dahua/Hiki vision/CP Plus/ Honeywell make 4 MP Bullet cameras. Inspection: RDSO/Consignee.	Numbers	1.00	31230.00	31230.00
235	235	Installation and commissioning charges (installation and configuration for video IP camera.	Numbers	10.00	3033.00	30330.00
236	236	Supply of MODEM compatible with existing UFSBI system to work on backup media (either VF-channel on OFC P/Mux or 2 Mbps El channel from STM or direct dark single mode 1 Core, optic fiber cable up to 30 Km. distance). The required type must be mentioned while ordering. Note: Warranty of the equipment shall be 2 YEARS from the date of Supply. SOR ITEM NO. 1505	Pair	11.00	78227.00	860497.00
237	237	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: RITES/Consignee. SOR ITEM NO. 0415	Numbers	16.00	54982.00	879712.00
238	238	(c) Supply of network 8 port switch with Ethernet and SFP port RJ-45 10 m. network interface, product, delink model or similar, dgs-1008d. Inspection: RDSO/Consignee. SOR ITEM NO. 1457	Numbers	2.00	2326.00	4652.00
239	239	Supply of Ethernet to El Converter (Ethernet port to G.703) with four Ethernet ports to one El. The converter shall have the provision of dual AC I DC power supply. Inspection: RITES/Consignee. SOR ITEM NO. 1463	Numbers	2.00	47597.00	95194.00
240	241	Supply of 48 Volt/200 AH maintenance free VRLA Batteries duly charged as per IRS Spec. No. S-93/96(A) with Amendment-1 or latest. Inspection: RDSO/Consignee. SOR ITEM NO. 1475	Numbers	2.00	120997.00	241994.00

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241	242	Installation, wiring, testing & commissioning of 48 Volt/200 AH or 48 V/300 AH maintenance free VRLA Batteries duly charged as per IRS Spec. No. S-93/96(A) with Amendment-1 or latest. SOR ITEM NO. 1476	Numbers	2.00	19702.00	39404.00
242	243	Supply of power cable 3 core 2.5 Sq. mm. multi strand (36/0.3 mm. dia.) cable as per IS 694:1990 reaffirmed 1995 or latest suitable for railway electrification area shall be of reputed make like Delton, LAPP, Finolex, or Similar. Inspection: Consignee. SOR ITEM NO. 14132	Metre	4000.00	77.00	308000.00
243	244	Supply of V.F. transformer 1220:600/470:1220 as per IRS:TC-22/76 or latest. Inspection: Consignee. SOR ITEM NO. 14133	Numbers	4.00	830.00	3320.00
244	245	Termination of telecom cable at cable hut and panel room, fixing of block filter units and cable termination boxes to the wall in panel room, wiring VF transformers, block filter units, block bell equipment including draw of cable through GI/PVC pipe, termination on to terminals and doing other works associated with commissioning of derivation of block working as per instructions of supervisor in charge of work. Note: Cables, CTB, Filter units, Block bell equipment, VF Transformers, GI Pipe, and Cement will be supplied by Railways. All other materials including Angles, PVC pipe etc. will be arranged by the Contractor. HERE UNI JOB = LS SOR ITEM NO. 14147	Job	3.00	2700.00	8100.00
245	246	Testing and commissioning of the system: This work involves the Testing of Underground six quad cables in each repeater section after laying and jointing. These readings to be recorded and supplied to the Railway Engineer. This involves all the tests to be carried out such as measurement of loop resistance, insulation test, frequency attenuation, cross talk and noise level etc. SOR ITEM NO. 14148	Numbers	4.00	3329.00	13316.00
246	247	Supply PVC conduit pipe of 50 mm. dia. Inspection: consignee. SOR ITEM NO. 14149	Metre	5000.00	79.00	395000.00
247	248	Execution/fixing of PVC conduit pipe of 50 mm. dia. on wall/Shed including supply of all fixing materials & accessories by contractor. Returning the left over material to the railway store. SOR ITEM NO. 14150	Metre	5000.00	20.00	100000.00
248	249	Supply of Buffer amp for emergency communication through V.H.F. communication Inspection: Consignee. SOR ITEM NO. 14156	Numbers	2.00	13837.00	27674.00
249	250	Supply of DC-DC converter. for emergency communication through V.H.F. as per specification - the DC-DC converter shall be independent for each VHF base equipment (voice equipment) and shall allow to work from -48V nominal input (-48V to -60V variation) & output 12V DC. The power capacity to deliver 10A current with output short circuit protection & ripple voltage less than 5mv for telecom circuit. Short circuit current not more than 2 mA, input-output insulation by 2.5 KV, load & output regulation +/-1% with ERTL certification. Make: DACS, Pune or Webfil Kolkata or Machronics, Kolkata or similar. Inspection: consignee. SOR ITEM NO. 14157	Numbers	2.00	20742.00	41484.00

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250	251	Supply of Tributary interface card of Webfil make PD Mux (flexi Mux) as per Specification No. IRS:TC/68/12 Rev.0 with amendment no.1 or latest. Inspection: RDSO/ Consignee. SOR ITEM NO. 14158	Numbers	2.00	48050.00	96100.00
251	252	Supply of 2W/4W Subscriber Interface Card 4 channels as per card compatible with PD Mux Webfil Mux as per RDSO Specification No. IRS:TC/68/12 with amendment. Inspection: RDSO/ Consignee. SOR ITEM NO. 14159	Numbers	2.00	12252.00	24504.00
252	253	Supply of Network interface module (NIM) interface card compatible with existing PD Mux (flexi Mux) as per Specification No. IRS:TC/68/12 Rev.0 with amendment no 1 or latest. Inspection: RDSO/ Consignee. SOR ITEM NO. 14160	Numbers	2.00	33984.00	67968.00
253	254	Supply of VHF ANTENNA for Transceiver/Repeater - Mobile/Static/Handheld "0 dB" Omni directional Antenna / GP Antenna 136-174 with Double Clamp with Nut and Bolt of good quality (corrosion free), Suitable RF cable (min length of 30 mtr.) with both end Connectors. Inspection: Consignee. SOR ITEM NO. 14170	Numbers	2.00	8142.00	16284.00
254	255	Supply of RG-213 RF Communications Coaxial Cable for Indoor/Outdoor Usage (30 Mtr. RF co-axial cable with BNC adaptor connected at both ends). Make: Sanchar communication or similar. Inspection: Consignee. SOR ITEM NO. 14171	Numbers	2.00	5326.00	10652.00
255	256	Supply of Floor mounting surge suppressor (4 Nos. of 16A Socket in each strip), Make: Rockware or similar. Inspection: Consignee. SOR ITEM NO. 14173	Numbers	2.00	7581.00	15162.00
256	257	Supply & installation of speaker cable 2 core, Size: 1.5 Sq. mm. (16AWG), Thickness of Insulation: 0.7 mm., shielded, complaint to IS-694:2010, Conductor Material: Copper, Make: Finolex or similar. Inspection: Consignee. SOR ITEM NO. 14174	Metre	4000.00	47.00	188000.00
257	258	Supply of 4 port router as per RDSO Specification : RDSO/SPN/TC/84/2008, Rev.0 With accessories as : 2 on board GE, 4 port serial WAN interface card, 2E HWIC slots, 1 ISM slot, 256 Mb CF default, 512 Mb RAM, IP base, 2 Nos. V35 cable, DTE make to smart serial 10 feet length with required cable & connection. Make: CISCO or similar. Model: C8200L-1N-4T or similar. Inspection: RDSO/Consignee. SOR ITEM NO. 14175	Numbers	2.00	112454.00	224908.00
258	259	Supply of 2 Mbps modem having (V.35 + G.703) interface operating with AC & -48DC, as per Specication No. RDSO/SPN/TC/80/2020 Rev.2.0 or latest. Make: Nomus/MROTEK or similar. Model: Nomus Gateway e/2M/2W/G.703/V.35 or similar. Inspection: RDSO/Consignee. SOR ITEM NO. 14176	Pair	2.00	16461.00	32922.00

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259	260	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 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. Stations up to 4 lines. SOR ITEM NO. 1708(a)	Set	4.00	69922.00	279688.00
260	261	Indoor Painting including particulars of CT rack, relay rack, Equipment particulars (IPS, Data logger, UFSBI, ELD, Charger, battery particulars, block instrument, VDU and any other equipments in relay room/IPS room / Battery room / Telecom room / Maintenance room /SM room), earthing particulars including ring earth particulars outside as applicable and any other indoor particulars as per technical specification for following stations : Three to Five Road Station Note: Station, Goomty, IB Hut, Auto Hut, LC Hut will be treated as one location. SOR ITEM NO. 0445 (B)	Per location	4.00	22028.00	88112.00
261	262	Supply of desktop/All in one PC as per following specifications. Intel i7, 10th generation or better, RAM - 16 GB, SSD - minimum 256 GB, HDD - 500 GB, display - 27 inch, Window-10 or higher, graphics Type - integrated, Keyboard & mouse-wireless. Inspection: RITES/Consignee. Make: HP/Lenovo/Dell or better. SOR TEM NO. 1623	Numbers	3.00	96538.00	289614.00
262	263	Supply of LaserJet Mono Printer for A4 Paper Size as per following specifications. Connectivity USB & Wi-Fi, monochrome, Mobile Printing Capability through smart app, Print Speed Black - Up to 21 ppm., Duty Cycle monthly - Up to 10,000 pages, function type - print only. Make: HP/Canon/Epson or better. Inspection: RITES/Consignee. SOR TEM NO. 1621	Numbers	3.00	13889.00	41667.00
263	264	Arranging unskilled labour at S&T Stores for loading/ unloading/stacking of departmental materials & Other assist with S&T official as per Instruction of Site Engineer. SOR ITEM NO. 1802	Man-Days	600.00	587.00	352200.00
264	265	Provision of PA system and telephone communication at stations/ tents as per the instructions of the Railway representative at site. Signalling cables available may be used for the communication. (Hiring of PA system equipments shall be done by the Contractor and telephone HERE UNIT JOB = PER TENT PER DAY SOR ITEM NO. 1907	Job	6.00	1227.00	7362.00

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265	266	Making a simulation test board plywood 3 mm. approximately size 1.5 x 1 meter. Painted according to the yard layout fixing 1-way/2-way switches in its approximate position for track circuit, point setting lamp holders and lamps. Carrying out testing using simulation board after energizing of internal circuit. HERE UNIT JOB = PER ROAD SOR ITEM NO. 1909	Job	6.00	3859.00	23154.00
266	267	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: RITES/Consignee. SOR ITEM NO. 1212	RM	2100.00	754.00	1583400.00
267	268	Location survey for cable route and preparation of tentative cable route plan as per the instructions of Engineer-in-Charge. HERE UNIT JOB = RKM SOR ITEM NO. 14155	Job	9.00	1393.00	12537.00
268	269	Removal of Rail (13 mtrs.) in the way of cable route. In case of panel (39 Mtrs. Each) will be considered as three rails for payment purposes. SOR TEM NO. 1222	Numbers	300.00	117.00	35100.00
269	270	Removal of PSC Sleeper in the way of cable route. SOR TEM NO. 1223	Numbers	300.00	117.00	35100.00
270	271	Testing and commissioning the entire signalling installations jointly with the Railway representative at site at the Stations/LC gates/IBS/Auto Signalling covered under various schedules of the Contract, and ensuring that all the signalling gears are installed and adjusted as per the existing rules. Testing and commissioning of Stations. (up to 5 roads). HERE UNIT JOB = PER STATION SOR ITEM NO. 1911 (A)	Job	3.00	29150.00	87450.00
271	272	Adjustment, testing and commissioning of complete Interlocking at proposed station as per approved circuit diagram with the satisfaction of Railway representative including all signal equipment erected in location, goomties, relay room and other related work not covered under schedule but required for the commissioning and post commissioning of works of stations. i) Filling the data in the maintenance register which contractor is to be supplied. ii) Shifting of TLBI/ DLBI /BPAC etc. instrument and fixing and wiring. iii) Painting & Lettering of leftover S&T gear and Lettering on Buildings as required for each station as per requirement. iv) Adjustment of Track circuit/Axle counter. v) Changing of signal number during NI. vii) Placement of cross mark on unused signals etc. Up to 200 routes. SOR ITEM NO. 1914 (B)	Station	3.00	83315.00	249945.00
					Total	331099035.76

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
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1	The tenderer must have minimum average annual contractual turnover of V/N or V whichever is less; where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. Please follow GCC-April-2022 for Annexure-VIB. 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. [NOTE: Failing of submission of 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 shall be liable for rejection.] [NOTE: Client certificate from other than Govt Organization should be duly supported by Form 16A/26AS generated] through TRACES of Income Tax Department of India.]	No	No	Allowed (Mandatory)
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Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Electronic Interlocking work {Indoor OR (Indoor + Outdoor)}. And/ OR Panel Interlocking work {Indoor OR (Indoor + Outdoor)}. And/ OR Route Relay Interlocking work {Indoor OR (Indoor + Outdoor)}.	No	No	Allowed (Mandatory)

Standard Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have successfully completed or substantially completed any of the following during last 07(seven) years, ending last day of month previous to the one in which tender is invited:- Three similar works each costing not less than the amount equal to 30% of advertised value of the tender OR Two similar works each costing not less than the amount equal to 40% of advertised value of the tender OR- One similar work each costing not less than the amount equal to 60% of advertised value of the tender. (NOTE: Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organization, work experience certificate issued by Public listed company having average annual turnover of Rs 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years prior to the date of opening of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates. In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant, TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.) [NOTE: Failing to submit of appropriate document against the defined Similar Nature of Work issued by the competent authority shall be liable for rejection.]For details of substantially completed works IRGCC- April-2022 or latest with all correction slips upto the date of closing oftender will be followed.	No	No	Allowed (Mandatory)

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

S.No.	Description
1	I/we the tenderer (s) am/are signing this document after carefully reading the contents.
2	I/We the tenderer(s) also accept all the conditions of the tender and have signed all the pages in confirmation thereof.
3	I/we hereby declare that I/we have downloaded the tender documents from Indian Railway website www.ireps.gov.in . I/we have verified the content of the document from the website and there is no addition, no deletion or no alteration to the content of the tender document. In case of any discrepancy noticed at any stage i.e. evaluation of tenders, execution of work or final payment of the contract, the master copy available with the railway Administration shall be final and binding upon me/us.
4	I/we declare and certify that I/we have not made any misleading or false representation in the forms, statements and attachments in proof of the qualification requirements.

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

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

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

5. COMPLIANCE

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

Commercial-Compliance

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

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	All documents in support of fulfillment of eligibility criteria with respect to completion of similar nature of work for Technical Eligibility Criteria and Total contract value for Financial Eligibility Criteria should be submitted/ uploaded online in the website with scanned copy at the time of tender bidding with details showing in Annexure I, IV. No post tender communication, in any form will be made or entertained, after opening of tenders, in this regard. Railways may however call for the originals of the credentials for verification or any clarifications/confirmations on the contents of the documents submitted. Eligibility of tenderers shall be decided solely of the basis of the documents submitted along with the tender offers and any subsequent document whatsoever submitted in this connection would not be given any cognizance for finalization of the tender.	No	No	Not Allowed
2	Payment through Letter of Credit is applicable for this tender as per Railway Board's letter no 2017/ACII/9/10 Pt I dated 20.02.2018 & 2018/CE-I/CT/9 dt. 04.06.2018 (Annexure B & C attached).	No	No	Not Allowed

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3	INSTRUCTION TO BIDDERS: A] The Railway reserves the right to verify all statements, information and documents submitted by the bidder in his tender offer, and the bidder shall, when so required by the Railway, make available all such information, evidence and documents as may be necessary for such verification. Any such verification or lack of such verification, by the railway shall not relieve the bidder of his obligations or liabilities hereunder nor will it affect any rights of the railway there under. B] In case of any wrong information submitted by tenderer, the contract shall be terminated, Earnest Money Deposit [EMD], performance Guarantee [PG] and Security Deposit [SD] of contract forfeited and agency barred for doing business on entire Indian Railways for 5[five] years.	No	No	Not Allowed
4	Shramik kalyan Contractor[s] are requested to get themselves registered on Railways Shramik kalyan portal at www.shramikkalyan.indianrailways.gov.in after issuance of letter of acceptance.	No	No	Not Allowed
5	GST has been considered during assessment of this instant tender.	No	No	Not Allowed
6	Contractor(s)/ Bidders are requested to refer to Clause 46A of Indian Railways Standard General Conditions of Contract'2022 with up to date correction slip for Price Variation Clause (PVC) in works contract. Item no 46A.1 of GCC 2022: Price Variation Clause (PVC) shall be applicable only in tender having advertised value above Rs. 2 Crores. [Authority: Executive Director/Civil Engineering(G), Railway Board's letter No.2022/CE-I/CT/GCC-2022/Policy dated 14.07.2022]	No	No	Not Allowed
7	For further details related to 'Bid Security' Bidders are requested to please connect para no 23 of the tender documents.	No	No	Not Allowed
8	Bidders are requested to refer to para no 9 of tender document [Para 41 & 42 of Part II Standard General Conditions of Contract for "Variations in extent of Contract" of GCC 2022]	No	No	Not Allowed
9	In case Agency desires submission of Bid Security in the form of Bank Guarantee, then please refer to para no 23(3) of Instruction to Tenderers for e-tenders, chapter I for further guidance. [Clause 5.0 of Part I of GCC 2022]	No	No	Not Allowed
10	Bidders may also upload any relevant document as deemed fit.	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Clause 6.1 Part I [ITT] of Indian Railways Standard General Conditions of Contract, July 2022 shall be read as under: 6.1 The tenderer shall submit a copy of certificate stating that all their statements/documents submitted along with bid are true and factual. Standard format of certificate to be submitted by the bidder is enclosed as Annexure-V. Non submission of above certificate by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identity, state and submit the supporting documents duly self-attested/digitally signed by which they/he is qualifying the Qualifying Criteria mentioned in the Tender document.	No	No	Allowed (Mandatory)

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2	<p>Item no 11 of GCC 2022: Tenderer Credentials: Documents testifying tenderer previous experience and financial status should be produced along with the tender. Tenderer(s) who is / are not borne on the approved list of the Contractors of Eastern Railway shall submit along with his / their tender: (i) Certificates and testimonials regarding contracting experience for the type of job for which tender is invited with list of works carried out in the past. (ii) Audited Balance Sheet duly certified by the Chartered Accountant regarding contractual payments received in the past. GCC April 2022 17 (iii) The list of personnel / organization on hand and proposed to be engaged for the tendered work. Similarly list of Plant & Machinery available on hand and proposed to be inducted and hired for the tendered work. (iv) A copy of certificate stating that they are not liable to be disqualified and all their statements/documents submitted along with bid are true and factual. Standard format of the certificate to be submitted by the bidder is enclosed as Annexure-V. Non submission of a copy of certificate by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self attested / digitally signed by which they/he are/is qualifying the Qualifying Criteria mentioned in the Tender Document. (v) The Railway reserves the right to verify all statements, information and documents submitted by the bidder in his tender offer, and the bidder shall, when so required by the Railway, make available all such information, evidence and documents as may be necessary for such verification. Any such verification or lack of such verification, by the Railway shall not relieve the bidder of its obligations or liabilities hereunder nor will it affect any rights of the Railway there under. (vi) (a) In case of any information submitted by tenderer is found to be false, forged or incorrect at any time during process for evaluation of tenders, it shall lead to forfeiture of the tender Bid Security besides banning of business for a period of upto five years. (b) In case of any information submitted by tenderer is found to be false, forged or incorrect after the award of contract, the contract shall be terminated. Bid Security, Performance Guarantee and Security Deposit available with the railway shall be forfeited. In addition, other dues of the contractor, if any, under this contract shall be forfeited and agency shall be banned for doing business for a period of upto five years.</p>	No	No	Allowed (Mandatory)
3	<p>Item no 12 of GCC 2022: Non-compliance with any of the conditions set forth therein above is liable to result in the tender being rejected.</p>	No	No	Not Allowed

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4	<p>Item no 14 of GCC 2022: Documents to be Submitted Along with Tender (i) The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / Company / Joint Venture (JV) / Registered Society / Registered Trust / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern, and copy of PAN Card along with their tender. Tender Documents in such cases are to be signed by such persons as may be legally competent to sign them on behalf of the firm, company, association, trust or society, as the case may be. (ii) Following documents shall be submitted by the tenderer: GCC April 2022 18 (a) Sole Proprietorship Firm: (i) All documents in terms of Para 10 of the Tender Form (Second Sheet) above. (b) HUF: (i) A copy of notarized affidavit on Stamp Paper declaring that he who is submitting the tender on behalf of HUF is in the position of 'Karta' of Hindu Undivided Family (HUF) and he has the authority, power and consent given by other members to act on behalf of HUF. (ii) All other documents in terms of Para 10 of the Tender Form (Second Sheet) above. (c) Partnership Firm: (i) All documents as mentioned in para18 of the Tender Form (Second Sheet). (d) Joint Venture (JV): All documents as mentioned in para 17 of the Tender Form (Second Sheet). (e) Company registered under Companies Act 2013: (i) The copies of MOA (Memorandum of Association) / AOA (Articles of Association) of the company (ii) A copy of Certificate of Incorporation (iii) A copy of Authorization/Power of Attorney issued by the Company (backed by the resolution of Board of Directors) in favour of the individual to sign the tender on behalf of the company and create liability against the company. (iv) All other documents in terms Para 10 of the Tender Form (Second Sheet) above. (f) LLP (Limited Liability Partnership): (i) A copy of LLP Agreement (ii) A copy of Certificate of Incorporation (iii) A copy of Power of Attorney/Authorization issued by the LLP in favour of the individual to sign the tender on behalf of the LLP and create liability against the LLP. (iv) An undertaking by all partners of the LLP that they are not blacklisted or debarred by Railways or any other Ministry / Department of the Govt. of India from participation in tenders / contracts as on the date of submission of bids, either in their individual capacity or in any firm/LLP or JV in which they were / are partners/members. Concealment / wrong information in regard to above shall make the contract liable for determination under Clause 62 of the Standard General Conditions of Contract. (v) All other documents in terms of Para 10 of the Tender Form (Second Sheet). (g) Registered Society & Registered Trust: (i) A copy of Certificate of Registration (ii) A copy of Memorandum of Association of Society/Trust Deed (iii) A copy of Power of Attorney in favour of the individual to sign the tender documents and create liability against the Society/Trust. (iv) A copy of Rules & Regulations of the Society (v) All other documents in terms of Para 10 of the Tender Form (Second Sheet) above. [PLEASE READ PART B ALONGWITH]</p>	No	No	Allowed (Mandatory)
5	<p>Item no 14 of GCC 2022: [PART B] (iii) If it is NOT mentioned in the submitted tender that tender is being submitted on behalf of a Sole Proprietorship firm / Partnership firm / Joint Venture / Registered Company etc., then the tender shall be treated as having been submitted by the individual who has signed the tender. (iv) After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm / Partnership Firm / Registered Company/ Registered Trust / Registered Society / HUF/LLP etc. shall be neither asked nor considered, if submitted. Further, no suo moto cognizance of any document available in public domain (i.e., on internet etc.) or in Railway's record/office files etc. will be taken for consideration of the tender, if no such mention is available in tender offer submitted. (v) A tender from JV shall be considered only where permissible as per the tender conditions. (vi) The Railway will not be bound by any change of power of attorney or in the composition of the firm made subsequent to the submission of tender. Railway may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the Contractor.</p>	No	No	Allowed (Mandatory)

**SEALDAH DIVISION-GATI SHAKTI/EASTERN RLY
TENDER DOCUMENT**

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6	Item no 15 of GCC 2022: The tenderer whether sole proprietor / a company or a partnership firm / joint venture (JV) / registered society / registered trust / HUF / LLP etc if they want to act through agent or individual partner(s), should submit along with the tender, a copy of power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, specifically authorizing him/them to sign the tender, submit the tender and further to deal with the Tender/ Contract up to the stage of signing the agreement except in case where such specific person is authorized for above purposes through a provision made in the partnership deed / Memorandum of Understanding / Article of Association /Board resolution, failing which tender shall be summarily rejected. A separate power of attorney duly stamped and authenticated by a Notary Public or by Magistrate in favour of the specific person whether he/they be partner(s) of the firm or any other person, shall be submitted after award of work, specifically authorizing him/them to deal with all other contractual activities subsequent to signing of agreement, if required. Note: A Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power of Attorney is being issued. However, the Power of Attorney provided by Bidders from countries that have signed the Hague Legislation Convention 1961 are not required to be legalized by the Indian Embassy if it carries a conforming Apostille certificate.	No	No	Allowed (Mandatory)
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Custom

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The following conditions communicated vide reference stated below are part and parcel of the tender document- 1.Before releasing the work order after finalisation of the tender, it will be ensured that contractors have Provident Fund code no, if applicable. 2.Contractors shall ensure compliance of the EPF and MP Act, 1952, by the sub-contractors, if any engaged by the contractor for the said work. 3. The workers deployed by the contractors or subcontractors should be enrolled as members of Provident Fund and should be given Universal Account Number (Aadhar linked). 4.While clearing bills of such contractors, certificate will be obtained from the contractor that all the workers employed directly or indirectly by him are registered under EPF and due contribution have been credited into their account. 5.Copies of all documents related to item no 1,2,3 above should be signed and submitted along with the offer. 6.Copy of documents related to item no 4 above should be submitted along with on account/final bills. Bills are liable to be withheld till submission of the same. [Authority of 1,2,3,4 above: Letter no RO/JPG/PA/144 dt. 09.2.17 from Ministry of Labour, Govt of India, Regional Office, Bhavishya Nidhi Bhavan, Din Bazar, Jalpaiguri-735101]	No	No	Allowed (Optional)

6. Documents attached with tender

S.No.	Document Name	Document Description
1	GCC_April-2022_2022_CE-I_CT_GCC-2022_POLICY_27_04_22_1.pdf	GCC2022
2	ALLcorrectionslipupto11_compressed.pdf	CORRECTION SLIP UPTO 11
3	bidseurity.pdf	BID SECURITY
4	jointventureMOU.pdf	JOINT VENTURE MOU
5	anxv_via.pdf	ANNEXURE V VIB
6	checklist.pdf	CHECK LIST
7	ANNEXUREMLOC.pdf	ANNEXURE M LOC
8	ANNEXURENLOC.pdf	ANNEXURE N LOC
9	ANNEXURE-H.pdf	SHRAMIK KALYAN
10	AnnexureK.pdf	ANNEXURE K
11	ANNEXURE-L.pdf	ANNEXURE L
12	DOCUMENTVERIFICATION.pdf	DOCUMENT VERIFICATION

**SEALDAH DIVISION-GATI SHAKTI/EASTERN RLY
TENDER DOCUMENT**

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13	Book24Apr2026_cropped1.pdf	annexure a
14	sodapdf-compressed-1-120_1.pdf	SOR1 OF 3
15	sodapdf-compressed-121-250.pdf	SOR2 OF 3
16	sodapdf-compressed-251-335.pdf	SOR3 OF 3
17	ASNtenderdocument17.06.26final1.pdf	Tender document
18	SSCRSIP30.04.2026.pdf	SSCR SIP
19	NewMadanpurJn.revisedSIPApprovedon30.04.20262.pdf	MPUR SIP
20	ChhotaAmbanarevisedSIPApprovedon22.04.2026.pdf	CAM SIP
21	TapasirevisedSIPApproved13.05.20261.pdf	TOP SIP

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: ARVIND KUMAR SINGH

Designation : Dy.CPMS T