

**JODHPUR DIVISION-GATI SHAKTI/NORTH WESTERN RLY
TENDER DOCUMENT**

Tender No: SNT-GSU-JU-2026-27-01

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

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

1. NIT HEADER

Name of Work	S&T work in C/W Kairla Provision of customer facilities at Goods Shed of Kairla Station		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	07/07/2026 15:00	Date Time Of Uploading Tender	12/06/2026 14:04
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	14182435.30	Tendering Section	GSU/SNT
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	283700.00	Validity of Offer (Days)	60
Tender Doc. Cost (Rs.)	0.00	Period of Completion	12 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	23/06/2026		
Are JV allowed to bid	No	Number of JV Member Allowed	0
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A-SOR ITEMS							5367060.42	
1	01011300	2.00	Station	175967.35	351934.70	AT Par	351934.70	
	Description:- Design, preparation & supply of drawings in computer print copies and original tracing in AUTO CAD FORMAT for Electronic Interlocking at each station. After completion of the work, the completion drawings incorporating completion details are to be supplied as per Technical Specifications given in tender document (upto 6 Line). The technical specifications are as per ANNEXURE 1.13 of SOR. Inspection: Consignee Inspection charges: None Payment terms: 100% after execution							
2	01012100	2.00	Station	3598.62	7197.24	AT Par	7197.24	
	Description:- Preparation of SWR literature in english alongwith associated mid-section interlocked gate with all corrections as per approved SWRD & approved SIP. For this all technical corrections, editing, grammatical correction etc. are to be carried out and one rough print to be given to railways for approval before printing, as required for final processing of CRS sanction. This also includes preparation of maintenance cards in format provided by Rly. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.							
3	01012200	2.00	Station	4478.18	8956.36	AT Par	8956.36	
	Description:- Translation of Station Working Rules from english to hindi and framing out in DIGLOT form (or similar software)as per extant Rly practice. The required SWR in english will be provided by the contractor and has been covered separately in item no. 1.21 of Chapter 1 of this SOR. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.							
4	01012300	20.00	Set	178.52	3570.40	AT Par	3570.40	
	Description:- Making photocopies & binding of the SWR literature in English/hindi/Diglot form as per Railway practice. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.							
	01012800	100.00	Sheet	161.07	16107.00	AT Par	16107.00	

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5	Description:- Preparation and supply of laminated one set of all the completion plans including circuit diagrams and indoor as well as outdoor completion documents on standard 75-micron polyester film for station in Auto CAD. 6 (Six) sets xerox copies will also be provided for each of the documents mentioned below: Cable Route Plan, Cable Core Chart, Location details plan for all the locations, Cable termination details, Signalling Plan, SWR Diagram, Wiring Diagrams, Selection table, Locking table, Contact analysis, Fuse and Tag Block analysis of Relay Rack, CT rack, Control cum Indication Panel/VDU Diagram, Power Panel Diagram, Track circuit plan, rack erection plan and Junction Box details etc. Inspection: Consignee Inspection charges: None Payment terms:100% after execution.						
6	01013000	10.00	Per Relay	524.10	5241.00	AT Par	5241.00
6	Description:- Addition/alteration in existing relay room wiring. It includes supply of PVC insulated indoor Railway signalling cable @ 40<45@Core/40-Core) of (1/0.6) sqmm as per RDSO Spec.No.IRS/S-76/89 (Amnd.2 or latest) for wiring between relay room and SM's/Panel room & Relay room to DP in SM office for block working. This also includes supply of PVC insulated jumper wires of multi strand 16/2 mm, tinned in all colours as per RDSO Specn.No.IRS-S-76/89(Amnd.2 or latest). This item will include bringing all the power supplies from power room to respective bus bars on relay racks by using 10/6 sqmm copper flexible wire as per instructions of engineer incharge. This will include wiring between control panel and relay room if required. All wiring will be done as per standard practice of North Western Railway with neat dressing & threading. The item includes supply & wiring of tag block, fuse with bases(G-Type and ND Type) and all other related material required for complete indoor wiring in relay room. Inspection: Consignee Inspection charges: None Payment terms:100% after commissioning.						
7	03010500	10.00	Numbers	3943.56	39435.60	AT Par	39435.60
7	Description:- Supply of Q-Series Neutral Line Relay (QN1 Type), 12F/4B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS- 930 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be ""ABCDE"". Inspection authority:- RDSO Inspection charges:- Bornee by Railways Payment Terms:- 100% after supply.						
8	03010600	10.00	Numbers	3789.37	37893.70	AT Par	37893.70
8	Description:- Supply of Q-Series Neutral Line Relay (QN1 Type), 8F/8B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS- 930 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be ""ABCDF"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
9	03010700	10.00	Numbers	4985.33	49853.30	AT Par	49853.30
9	Description:- Supply of Q-Series Twin Neutral Line Relay(QNN1 Type), 6F/2B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS-960 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be ""ACDEK"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
10	03010800	10.00	Numbers	3938.00	39380.00	AT Par	39380.00
10	Description:- Supply of Q-Series Twin Neutral Line Relay(QNN1 Type), 4F/4B, 24V DC complete with plug board(base plate), connectors and retaining clips etc and conforming to BRS-960 and RDSO Specn.No.IRS:S-34 & S-23 or latest. The interlocking code for this unit shall be ""ACEHJ"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
11	03010900	10.00	Numbers	5701.45	57014.50	AT Par	57014.50
11	Description:- Supply of Q-Series Magnetically Latched Neutral Line Relay (QL1 Type), 11F/4B,24V DC complete with plug board(base plate), connectors and retaining clips and conforming to BRS-935A and RDSO Specn.No.IRS:S-34 & S-23 or latest.The interlocking code for this unit shall be ""ABDEG"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
12	03011300	5.00	Numbers	4983.53	24917.65	AT Par	24917.65
12	Description:- Supply of Q-Series LED ECR (Universal Type i.e.QECX-61), 4F/4B complete with plug board(base plate), connectors, retaining clips etc and conforming to BRS:941A STS/E/RELAYS/AC LIT LED SIGNAL/09-2002 ,Amdt.-1and RDSO Specn.No.IRS:S-34 & S-23 or latest.The interlocking code for this unit shall be ""ABDHK"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
13	03011800	10.00	Numbers	3913.67	39136.70	AT Par	39136.70
13	Description:- Supply of Q-Series Line Relay (QNA1 Type),AC immunized, 8F/8B, 24 V DC along with plug board (base plate), connectors, retaining clips etc and conforming to BRS-931A and RDSO Specn.No.IRS:S@ 45"44@ S-23 and S-60 or latest. The interlocking code for this unit shall be ""ABDGH"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.						
14	03011900	10.00	Numbers	3805.50	38055.00	AT Par	38055.00
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									Description:- Supply of Q-Series Line Relay (QNA1 Type), AC immunized, 12F/4B, 24 V DC along with plug board (base plate), connectors, retaining clips etc and conforming to BRS-931A and RDSO Specn.No.IRS:S@ 45"44@ S-23 and S-60 or latest. The interlocking code for this unit shall be ""ABDFH"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.
15	03012000	10.00	Numbers	3734.70	37347.00	AT Par	37347.00		Description:- Supply of Q-Series Track Relay (QTA2 Type), AC immunized, 9 Ohms, 2F/1B along with plug board (base plate), connectors, retaining clips etc and conforming to BRS:939A & 966(Appendix F2) or latest.The interlocking code for this unit shall be ""FGHKX"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.
16	03012100	10.00	Numbers	5211.27	52112.70	AT Par	52112.70		Description:- Supply of Q-Series Neutral Line Relay(QSPA1 Type), 24V DC,8F/4B along with plug board (base plate), connectors, retaining clips etc and conforming to BRS-933A and RDSO Specn.No.IRS:S@ 45"44@ S-23 & S 60 or latest.The interlocking code for this unit shall be ""ABDEJ"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.
17	03012500	5.00	Numbers	9440.00	47200.00	AT Par	47200.00		Description:- Supply of Key Lock Checking Relay (KLCR) working on 24V DC, AC Immunized with different ward combinations and contact configuration 4F/4B with 2 extra ward plates and with case, RDSO spec no. RDSO/SPN/219/2016 ver 1.0 or latest, confirming to IRS S-23, S-34 & S@ 45<44@ IRS S:46. Inspection authority:- For bare relay -RDSO, for key lock housing- consignee Inspection charges:-Bornee by Railways Payment Terms:- 100% after supply.
18	03012600	10.00	Numbers	7080.00	70800.00	AT Par	70800.00		Description:- Supply of Point Contactor relay AC immune, plug in type, style QBCA1 DC biased contractor, (QBCA1 Type), 24 V DC, 2F(HD)2F-4B contacts , heavy duty metal to carbon front contacts and back contacts metal to carbon, complete with plug board, retaining clip & connectors, conforming to BRS- 943 and IRS:S-34 & S-23 or latest. The interlocking code ""DEHJX"". Inspection authority:- RDSO Inspection charges:- Borne by Railways Payment Terms:- 100% after supply.
19	04011300	1.00	Numbers	22732.41	22732.41	AT Par	22732.41		Description:- Supply of Cable Termination(CT) racks as per Drg.No.CSTE/NWR/ SOR/02 complete along with fitting arrangements and also with arrangement for fixing four 8-way terminal strips/ Screw less terminals/ ARA terminals on each row having 16 such rows. Supply of 8 way terminal strips/ Screw less terminals / ARA terminals not covered under this item. Cable termination rack shall be Powder Coated. Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply
20	04011400	1.00	Numbers	8687.12	8687.12	AT Par	8687.12		Description:- Installation of Cable Termination Racks Assembly complete including wall supports, scaffolding and suitable grouting arrangements with installation of 8 way/ARA terminals /Screw less connectors, Tag blocks & other necessary accessories etc. The work shall be done as per approved plan, extant practice on NWR & the instruction of Rly engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% on commissioning.
21	04011500	2000.00	Numbers	87.41	174820.00	AT Par	174820.00		Description:- Supply of ARA Terminal Block (M-6) made of PBT/Poly Carbonate as per RDSO Specn.No.IRS:S-75/2006 (Rev.2) or latest and RDSO Drg.No. SA-23741A(Alt. 4) or latest. Inspection: RDSO. Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.
22	04011600	50.00	Numbers	152.98	7649.00	AT Par	7649.00		Description:- Supply of Cartridge Fuse Block made of PBT and as per RDSO Drg. No. SA-23748 (Alt. 4) or latest and RDSO Specn.No.IRS:S-75/2006 (Rev.2) or latest. Inspection: RDSO. Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.
23	04011701	30.00	Numbers	61.11	1833.30	AT Par	1833.30		Description:- Supply of indicating type fuse inserts with holder (material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply. 0.6 A
24	04011702	30.00	Numbers	64.41	1932.30	AT Par	1932.30		Description:- Supply of indicating type fuse inserts with holder (material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply. 1.6 A
25	04011900	200.00	Numbers	54.64	10928.00	AT Par	10928.00		Description:- Supply of round head type non-deteriorating type low voltage cartridge fuse as per RDSO Specn.No.IRS:S-78/92 or latest and Capacity - 2/4/6/10A/16A/20A Amp. (material will be supplied only from approved vendors of RDSO). Inspection: Consignee Inspection Charges: Borne by Railways. Payment Terms: 100% on supply.
	04012500	2000.00	Per Conductor	8.46	16920.00	AT Par	16920.00		

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26	Description:- Termination of Outdoor Cables (Main Cables /tail cables) at both ends in location boxes, cable termination rack in relay room, station building, generator room etc. The item includes dressing of cables and wires with dressing threads as per standard practice. All material required for this item will be supplied by contractor. The outdoor cable shall be terminated in Relay Room, DG Room, ASM Room etc under supervision and instructions issued by Engg. incharge of the work. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution						
27	04012801	1000.00	Numbers	54.63	54630.00	AT Par	54630.00
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of Disconnect Terminal Block, Screw less type, 4-wire front entry (Two in-put & Two out-put) The colour will be decided by Engineer - in - Charge. (Preferably In Blue, Red & Grey Colors in the ratio of 1:2:3)						
28	04012802	1000.00	Numbers	10.24	10240.00	AT Par	10240.00
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of End plate for item 4.28(i) of Chapter 4 of revised SOR 2.5mm/0.091 in thick as per site requirement.						
29	04012803	100.00	Numbers	10.24	1024.00	AT Par	1024.00
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of End Stopper for item 4.28(i) of Chapter 4 of revised SOR 10mm/0.0394 in width as per site requirement.						
30	04012804	50.00	Metre	106.98	5349.00	AT Par	5349.00
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of Carrier Rails for item 4.28(i) of Chapter 4 of revised SOR 35mm x 7.5mm, 1mm/0.039 in thickness un-slotted type as per site requirement.						
31	04012805	1000.00	Numbers	15.93	15930.00	AT Par	15930.00
	Description:- Supply of Disconnect Terminal Block, Screw less type, as per RDSO Spec. No. RDSO/SPN/189/2004(Modular Terminal Blocks, Fuse Terminal Blocks &Miniature fuse link of international standard for Railway signaling) With latest amendments. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply Supply of Markers strip for item 4.28(i) of Chapter 4 of revised SOR						
32	05012601	27.00	Numbers	2067.93	55834.11	AT Par	55834.11
	Description:- Supply of uncharged Low Maintenance Lead Acid (LMLA) secondary cell, shelf mounting type conforming to RDSO Specn.No.IRS:S-88/2004 or latest with inter cell connectors, nuts and bolts etc. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply. 2V, 80 AH						
33	05012701	27.00	Numbers	371.02	10017.54	AT Par	10017.54
	Description:- Charging of Lead Acid Batteries with contractors own battery grade sulphuric acid and distilled water with minimum two charge - discharge cycles, installation of charged batteries in groups & their connection & wiring. The work shall be done as per extant practice of N.W.Rly & instruction of Engineer-in-charge. Detailed measurements of initial charging shall be recorded jointly by contractor & Rly's site-in-charge. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Execution. 2V 80AH						
	06010100	6.00	Numbers	60412.20	362473.20	AT Par	362473.20

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34	Description:- Supply of ELECTRIC POINT MACHINE 143 MM STROKE AC IMMUNITY 160V AC COMPLETE WITH LOCK DETECTOR AND SLIDES FOR LOCK DETECTOR NON -TRILABLE TO OPERATE ON 110 V DC ROTARY LOCKING WITH CRANK HANDLE UNIVERSAL TPE AS PER RDSO SPECN. NO. IRS:S-24/2002 (AMND 1) RDSO DRG. NO S-10800 (ALT.5) WITH JUNCTION BOX TELESCOPIC. THE MOTOR WILL BE AS PER RDSO SPECN. NO. IRS: S-37/82 (AMND. 3) WITH RDSO DRG. NO. S-10910. This includes supply of Set of tools as per para20.1 & 20.2 of RDSO SPECN. NO. IRS:S-24/2002 (AMND 1) 20.1 The following set of tools in a suitable tool box shall be supplied along with every set of eight point machines or less. i). Hand operated square drive socket wrenches of 12.5 mm driving square (short type) as per IS: 7381 for M8, M10, M12 & M18 threads. (One 250 mm long 12.5 mm square extension bar as per IS: 7991 alongwith compatible Tee handle Square drive as per IS: 7975 suitable for above socket wrenches shall also be provided.) ii). Open jaw wrenches (spanners) for M10, M12, M20, M24 & M33 threads as per IS: 2028. iii). Adjustable wrench. iv). Screw driver 300 mm long. 20.2 Junction box and two numbers of telescopic pipes of approved type shall be supplied as an integral part of the point machine. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply.						
35	06010300	6.00	Numbers	27586.01	165516.06	AT Par	165516.06
	Description:- Fixing, wiring, testing and commissioning of Electrical Point Machine on the extended sleepers at points as per std. practice and as per RDSO Drg No. SA 9151-52 or 9710 or 9161 or 10800 or 11000 as per section of rails used. Item includes fixing switch extension bracket, providing insulation for switch extension bracket, fixing ground connection, adjusting opening of the switches and adjusting the point machine with crank handle.The item also includes : (i)Complete material for installation like ground-connections, switch extension brackets, point insulation material, I pipes, wiring materials, various fixing nuts & bolts including castle nuts, spring washers (ii) All smithy & fitting works required at site for complete installation. (iii) Installation of gauge tie plate & providing insulation for gauge tie plate (Insulation in William Stretcher Bar will be Provide by Railways). (iv) Wiring inside the point machine, insertion and termination of tail cable in point machine and junction boxes / location box /cable hut as per extent practice on NWR and the instruction of Railway Engineer at site. (v) Supply and fixing of suitable size GI pipes with flange for taking cable into point machine. Note ; The ground connections shall be suitable to the Point Machines as specified by Engineer-in-charge and shall be suitable to the point lay out i.e. 60 Kg. / 52 Kg / 90R as per yard layout. Electrical Point Machine and M-6 / Screw less terminals will be supplied by Railways / covered in Schedule separately Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
36	06011400	6.00	Set	386.13	2316.78	AT Par	2316.78
	Description:- Supply of William Stretcher Insulation Set (complete) as per RDSO/SPN/168/2005 with insulating bush and washer to suit point layout and conforming to RDSO Drg.No.T-10372 or latest, T-10368 or latest and T-10371 or latest. 1.1 Insulation for Leading stretcher bars(BG) each set comprising of (a) Insulating plate for leading insulated stretcher bars BG as per RDSO Drg.No.T-10384 - 2 Nos. (b) Insulating bushing for leadingg insulated stretcher bars for BG as per RDSO Drg.No.T-10535- 4 Nos. (c) Insulating Washer for insulated stretcher bar BG as per RDSO drg.No.T-10371 - 6 Nos. 1.2 Insulation for following stretcher bars BG. Each set comprising of: (a) Insulating side plate for insulated stretcher bars BG as per RDSO Drg.No.T-10367 - 3 No. (b) Insulating bushing for insulated stretcher bars BG as per RDSO Drg.No..T-10368 - 6 Nos. (c)Insulating washer for insulated stretcher bars BG as per RDSO Drg.No.T10371 - 12 Nos Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
37	07010100	9.00	Numbers	4505.12	40546.08	AT Par	40546.08
	Description:- Supply of Track feed Battery Charger as per RDSO Specn. No.IRS: S-89/2013 Ver.1.0 or latest. Charging Capacity Rating 10 Amps for Charging 80 AH Battery. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply.						
38	07010200	9.00	Numbers	1439.17	12952.53	AT Par	12952.53
	Description:- Supply of Adjustable Track Feed Resistance 30 Ohms (Disc Type) as per RDSO Drg. No.SA-20161-66/M or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
39	07010300	9.00	Per Track Circuit	6354.01	57186.09	AT Par	57186.09
	Description:- Fixing and wiring of DC track circuit equipments i.e. track feed charger, resistance, track relay, battery, B type choke etc., in the Apparatus Case and battery box as per standard practice. Termination of tail cable on M 6 / Screw less terminals WAGO or FINOLEX or similar approved make teminals/ fuse blocks / HRC fuse. Item includes testing /commissioning of track circuit. Complete wiring material will be supplied by contractor. (Supply of Track feed battery charger, track feed battery, resistances & 'B' type choke & Track relays, ARA terminal/Modular terminals wago/phoenix contact type will be supplied by Railways / covered in Schedule separately). Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.						
	07010400	9.00	Per Track Circuit	7952.90	71576.10	AT Par	71576.10

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40	Description:- Installation of DC track circuits covering all types of Track circuits including points zones also. The item includes provision of doubled continuity GI wire bonds on rail joints after drilling bond-hole of 7.0/7.2mm dia, skimming of fish plate, insertion of insulated block joint(if required), fixing of TLJB (separate for positive & negative rails) with angle iron for track feed/jumper/track relay ends of track circuits and also for fixing jumper cables as per approved Track Circuit Plan, making rail connections through suitable insulated sleeves from TLJB at TF, jumper & TR end with GI wire, rail clips for fixing bond wire on the TLJB as per standard practice, termination of tail cables on TLJB terminals etc. TF/TR wiring shall be fixed on the suitable arrangement on PRC sleepers with the help of Hooks. In case Engineer at site desires that jumpering from TLJBs is to be done using signalling cable 2 core X 2.5 sqmm , contractor shall provide the jumpering cable using 2 X 2.5 sqmm signalling cable. The signalling cable will be supplied by Railways. Hooks shall be provided on PRC sleepers with the help of suitable steel bracket. This item also includes fixing & supply of channel pins, Hooks etc. The item does not include supply of TLJB as per RDSO Drg.No.RST-11509 or latest as per technical specs Installation of of Track Lead Junction Box(TLJB) as per Drg.No.RST-11509 or latest made from FRP material including brass bolts and hylam board sheet with terminals etc. (a) Installation and commissioning of TLJB complete with cover to be in black/red having approximate weight of 4.0 Kg with L-262mm W-212mm and H 90 mm and all the holes required for mounting on FRP stump (verticall two for each FRP angle) HDPE pipe , cable etc. (b) Installation and commissioning of Each TLJB having two bakelite terminal block fitted horizontally : each bakelite terminal block shall have two nickel chrome plate M10 brass terminal, 50mm long. Alongwith each TLJB , nickel chrome plated brass links(two nos. Of adequate strength for vertical linking of the terminals to be wired and fixed properly. (c) Installation of HDPE pipe of size 32/35mm , 380 mm long alongwith two nuts for fixing on the TLJB hole . (d) Installation of the FRP stump for mounting the TLJB to be made of one meter long 30mm X30mmX 4mm angle(2 nos.) and 300mm long 30mm X30mmX 4mm angle(1 no.) fixed at 50 mm from the bottom using galvanised nuts and bolts. The TLJB and the angles for stump should be fixed in given holes on them for fixing using galvanised nuts and bolts . Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution.						
41	07010500	45.00	Numbers	1778.40	80028.00	AT Par	80028.00
	Description:- Supply of Track Lead Junction Box(TLJB) as per Drg.No.RST-11509 or latest made from FRP material including brass bolts and hylam board sheet with terminals etc. 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-262mm W-212mm and H 90 mm and all the holes required for mounting on FRP stump (verticall 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, 50mm long. Alongwith 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 32/35mm , 380 mm long alongwith two nuts for fixing on the TLJB hole . (d) The FRP stump for mounting the TLJB to be made of one meter long 30mm X30mmX 4mm angle(2 nos.) and 300mm long 30mm X30mmX 4mm angle(1 no.) fixed at 50 mm from the bottom using galvanised nuts and bolts. The TLJB and the agles for stump should come alongwith holes on them for fixing using galvanised nuts and bolts of adequate strength to be supplied alongwith TLJB drawing no. 11509. Inspection: (i) RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i) Borne by Railways (ii) None Payment Terms: 100% on Supply						
42	07010700	18.00	Numbers	4098.94	73780.92	AT Par	73780.92
	Description:- Supply of B Type Choke as per RDSO Specn.No.IRS:S-65/83 (Amnd. 1) or latest. Inspection: RDSO Inspection Charges: Borne by Railways. Payment Terms: 100% after supply.						
43	07010800	100.00	Numbers	5.69	569.00	AT Par	569.00
	Description:- Supply of Channel Pins MS (Galvanized) single groove, 7 mm suitable for 4mm dia bonding wire as per spec No IRS S 17 & RDSO Drg No. S-69/M. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
44	07011100	5.00	Numbers	257.21	1286.05	AT Par	1286.05
	Description:- Supply of Hydrometer, Exide make or similar for measuring specific gravity of Battery Graded acid with mounting stand in location Boxes. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after Supply.						
45	07012600	1.00	Set	19999.83	19999.83	AT Par	19999.83
	Description:- Installation testing & commissioning of High Availability Single Section digital axle counter (HASSDAC) single section type system complete with track devices and other associated accessories. This include fixing of device, relays, wiring, lacing /dressing, cable termination with lug eyelet, drilling holes in rails, Installation of track devices and make it functional along with existing UFSBI/blockinstrument. Material required other then supply item of HASSDAC in item no. 7.25 of SOR shall be arranged by contactor to make it functional. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
46	08010400	11.00	Numbers	178.89	1967.79	AT Par	1967.79

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40	Description:- Installation of LED signals lamps for auxiliary/subsidiary signals/main signals (i.e. route, shunt, calling on, Red, Yellow, Green) as per instructions given by engineer incharge. The contractor will supply all materials required for installation. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
47	08010500	2.00	Numbers	10791.46	21582.92	AT Par	21582.92
	Description:- Supply of Colour Light Signal Complete. This includes: - (1). Post Tubular 140 mm Dia, as per IRS: S-6/81 or Latest & RDSO Drg. No. SA-24625 (Advance). (2). CI Base (As per IRS S-10 & RDSO Drg. No. 2011/M with latest assembly). (3). Number plate to Drawing No. S 23149 Alt.1 = 1 No, Number plate clamps to Drawing No. S 23148 Alt.1 = 2 no (4). Ladder Assembly, as per RDSO Drg. No. SA-23156, with Base, Ladder Guard rail (complete) to Drawing No. SA 23138 Alt.1(1No), Platform to Drawing No. SA 23134 Alt.1(1 No), Front Maintenance Platform, MS Supporting bracket to Support Ladder.Ladder stay (small) to Drawing No. S 23159 Alt. 1 (2 Nos.) , Ladder stay (large) to Drawing No. S 23160 Alt. 1 (2 Nos.) , Ladder section to Drawing No. SA 23157 Alt. 1(1 Nos.) Stay clamp to Drawing No. SA 2062/M (2 no), Rail Clamp to Drawing No. S 2066/M (1 No.) (5). Signal Front Staging Complete Assembly for CLS Unit. (6). Signal back staging as per extent NWR Practice. Note: Height of the Post shall be 5.5 Long. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
48	08010600	2.00	Numbers	4462.49	8924.98	AT Par	8924.98
	Description:- Supply of Offset brackets for Main Signal, made of tubular steel, outer diameter 140 mm, thickness of pipe 4.5 mm. horizontal length of pipe 545 mm & vertical length of pipe 324 mm with fixing arrangement on Main Signal post as per Drawing No SW/554/G/R Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
49	08010700	2.00	Numbers	4336.16	8672.32	AT Par	8672.32
	Description:- Supply of Offset brackets for Shunt Signal, made of tubular steel, outer diameter 89 mm, thickness of pipe 4.5 mm. horizontal length of pipe 324 mm & vertical length of pipe 324 mm with fixing arrangement on Shunt Signal post as per Drawing No SW/354/I Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
50	08010801	2.00	Numbers	3227.65	6455.30	AT Par	6455.30
	Description:- Erection of CLS Post with base and signal unit on top or on OFFset Bracket, fixing of front and back staging, ladder and guards, signal name plates / boards if any with contractor's own brackets and fixing materials. This also includes erection of auxiliary signals like calling on, shunt signal if any. The work shall be done as per instructions of Rly engineer at site. It also includes provision & fixing of maintenance platform as per design given by Engineer -In-Charge at site. The Item includes cutting of Signal post if required by Site In charge. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning. 2/3/4 aspect signal unit mounted on offset bracket with junction type route indicator 1/2/3/4/5/6 or multilamp lamp route indicators/Stencil type rout indicator mounted on signal post.						
51	08010900	2.00	Numbers	26768.11	53536.22	AT Par	53536.22
	Description:- Supply of Non Metallic (FRP) colour light signal housing multi unit type for railway signaling suitable for RE area TWO Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Rev 2.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest. Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
52	08011200	1.00	Set	4297.47	4297.47	AT Par	4297.47
	Description:- Supply of Position Light Shunt Signal Unit Complete with Post(made of GI Pipe of 80 mm Diameter Medium Class IS Spec. No. IS: 1239 Pt. 1/1990, Base, Hood, Cover etc as per Drg. No. SA-23840 suitable for LED Signal Lighting Unit.(Supply of LED Unit is not covered in this item) Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
53	08011300	1.00	Numbers	1779.99	1779.99	AT Par	1779.99
	Description:- Erection of Position Light Shunt signal with Base, Post, Signal unit and fixing of Number Plates. The work shall be done as per instructions of Rly engineer at site. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
	08011400	2.00	Numbers	3358.53	6717.06	AT Par	6717.06

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54	Description:- Supply of Position Light Shunt Signal Unit Complete, with offset bracket, hood, Cover etc as per Drg. No. SA-23840 suitable for LED Signal Lighting Unit.(Supply of LED Unit is not covered in this item)Inspection: (i)RDSO/RITES if value of item in work more than 5 lakhs (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs as per extant instructions by Railway Board. Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% on Supply						
55	08011500	2.00	Numbers	1967.77	3935.54	AT Par	3935.54
	Description:- Erection of Position Light shunt signal on Offset bracket on main signal. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Commissioning.						
56	08013000	5.00	Numbers	1223.46	6117.30	AT Par	6117.30
	Description:- Supply, Fabrication and fixing of Signal Number Plate(CSTE Drg No CSTE/6186) , 'A' Marker (Drg No. CSTE/6180), 'AG' Marker (Drg No. CSTE/6181), 'P' Marker (Drg No. CSTE/6182), Arrow Marker (Drg No. CSTE/6183), 'G' Marker (Drg No. CSTE/6184), 'C' Marker (Drg No. CSTE/6185). marker disk on signals as per standard practice All material required for this work shall be supplied by Contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
57	08013100	2.00	Numbers	5087.65	10175.30	AT Par	10175.30
	Description:- Supply and fixing of protective screen of expanded metal 12 SWG of size 1200 x 1500 mm on signals as per std. practice in RE Area. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
58	08013200	2.00	Numbers	9361.50	18723.00	AT Par	18723.00
	Description:- Casting of CC Foundation for Signal Post in the ratio of 1:3:6 as per Drg.No.CSTE/NWR/SOR/21/A using standard size of foundation/galvanized holding down bolts required for erection of colour light signal post. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement-sand mixture (aggregate will not exceed 3.8 cm). Aggregate, cement, sand and holding down bolts will be supplied by contractor. Any machines & tools, if required for execution of this item, will be arranged/provided by contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
59	08013300	1.00	Numbers	6310.26	6310.26	AT Par	6310.26
	Description:- Casting of C.C. Foundation for Position Light Shunt Signal/ Indicator/SPI as per Drg.No.CSTE/NWR/SOR/ 22 in ratio 1:3:6 by using standard size of galvanized holding down/foundation bolts. Item includes excavation, ramming of CC using vibrator, curing and plastering with 1:4 cement sand mixture. Aggregate cement, sand and holding down bolts, will be supplied by contractor. Any machines and tools, if required for execution of this item, will be arranged/provided by contractor. Note: As per available site conditions, if sizes of foundations are required to be decreased/ increased and same has been approved/agreed by engineer incharge then variation in CC work will be calculated on volumetric basis as per rates of these items. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation. ."						
60	10011200	2.00	Numbers	7681.04	15362.08	AT Par	15362.08
	Description:- Supply of Office Revolving Chair Godrej Make Model No.9u02r Bravo Or Similar of reputed brand. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
61	10010800	2.00	Numbers	160000.00	320000.00	AT Par	320000.00
	Description:- Supply of professional large format smart 4K LED display unit size 65" resolution 3840X2160, 450nits (UHD) including all fixing accessories with installation , (port) USB/LAN/HDMI/VUA/Video out . Make 65XT800 ULTRA HD 4K UHD LED DISPLAY or similar. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
62	11010100	8.00	Numbers	14945.53	119564.24	AT Par	119564.24
	Description:- Supply of Apparatus Case Single(Large) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11500. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.						
63	11010200	8.00	Numbers	1039.09	8312.72	AT Par	8312.72
	Description:- Installation of Apparatus Cases Single(Large) with 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. Supply of 'E' Type lock has been covered in supply of Apparatus case separately. It covers fixing of lamp holder , switch and lamp etc. in Apparatus Case. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.						
	11010300	7.00	Numbers	9439.40	66075.80	AT Par	66075.80

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64	Description:- Supply of Apparatus Case half (Medium) NE Rly Type as per Drg. No. CSTE/6088 fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11507. Note: This item includes the supply of 2 Nos E Type Lock fitted on both doors, along with two Keys. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.						
65	11010400	7.00	Numbers	632.78	4429.46	AT Par	4429.46
65	Description:- Installation of Apparatus Cases Half (Medium) with 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. Supply of 'E' Type lock has been covered in supply of Apparatus case separately. It covers fixing of Location lamp holder , switch and lamp etc. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.						
66	11010801	8.00	Numbers	6888.92	55111.36	AT Par	55111.36
66	Description:- Excavation and Casting of Apparatus Case foundation in ratio 1:3:6 with contractor's own materials including cement and galvanized anchor bolts of standard size. The required scaffolding Ferma etc for Casting of foundation will have to be brought by the contractor at his own cost.The item also includes additional masonry work as well as earthwork if required on bank where there will be possibilities of foundation sinked, fallen or tilted. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation. Single (Large) Case Apparatus case / SS location box as per Drg No. CSTE/5074						
67	11010802	7.00	Numbers	5259.16	36814.12	AT Par	36814.12
67	Description:- Excavation and Casting of Apparatus Case foundation in ratio 1:3:6 with contractor's own materials including cement and galvanized anchor bolts of standard size. The required scaffolding Ferma etc for Casting of foundation will have to be brought by the contractor at his own cost.The item also includes additional masonry work as well as earthwork if required on bank where there will be possibilities of foundation sinked, fallen or tilted. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation. Half (Medium) Case Apparatus case / SS location box as per Drg No CSTE/5074						
68	11010900	8.00	Numbers	9563.45	76507.60	AT Par	76507.60
68	Description:- Supply of Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 20 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied. Inspection: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.						
69	11011100	7.00	Numbers	4648.00	32536.00	AT Par	32536.00
69	Description:- Supply of Phenolic laminated 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: (i) RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee Inspection Charges:(i) Borne by Railways (ii) None Payment Terms: 100% after Supply.						
70	11011201	8.00	Numbers	2344.49	18755.92	AT Par	18755.92
70	Description:- Fabrication and fixing of phenolic laminated sheet of size 10/12/20 mm thick in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per instructions of Rly engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation. Single Case (Large Case)						
71	11011202	7.00	Numbers	684.00	4788.00	AT Par	4788.00
71	Description:- Fabrication and fixing of phenolic laminated sheet of size 10/12/20 mm thick in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per instructions of Rly engineer at site. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation. Half Case (Medium Case)						
72	11011300	2000.00	Numbers	12.52	25040.00	AT Par	25040.00
72	Description:- Fixing of ARA(M-6) Terminals /Screw less connectors / modular disconnect terminal blocks and fuse blocks on phenolic laminated sheets and fixing by stainless steel/brass nuts & bolts. This includes provision of two additional holes on the board on either side for cable conductor entry. (Supply of all above terminals have been covered separately in Chapter 4 of SOR) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.						
73	11011700	15.00	Numbers	29.59	443.85	AT Par	443.85
73	Description:- Supply of Tic-tac Piano type Switches , 5A (ISI mark of reputed make) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply						
74	11011800	15.00	Numbers	44.39	665.85	AT Par	665.85
74	Description:- Supply of two pin Lamp holder Bakelite type for Apparatus Cases (ISI mark of reputed make) Inspection: Consignee Inspection Charges: None Payment Terms: 100% after supply						
	11012000	5.00	Numbers	2193.20	10966.00	AT Par	10966.00

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75	Description:- Fixing of KLCR relays in field in half location boxes if Gate lodge is not provided or at any other location as decided by engineer in charge. Item includes supply and fixing of MS sheet and wiring of KLCR relays, push buttons and LEDs for KLCR circuit. The KLCR relays, push buttons, LEDs will be fixed on a MS sheet of min. 3mm in the half location box. The MS sheet will cover full length and breadth of the half location box and divided in two pieces of approx. 48cm x 46cm and 80cm x 46cm. The first piece to be fitted on top and will contain the KLCR relays, LEDs and push buttons. The second piece to be fitted below the first piece. (Supply of KLCR relays covered in separate item of SOR). Inspection: Consignee Inspection Charges: None Payment Terms: 100% after installation.						
76	12010101	5.00	Numbers	3506.49	17532.45	AT Par	17532.45
76	Description:- Supply of Rapid Joint LS3, suitable for cable Jointing of Signalling cable of various size, having dielectric strength > 20KV/mm, Non Toxic, low viscosity, Flamability point more than 200 C, Re-entrable, Long storage life Make RAYTECH or Similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply Cable Size 6C x 1.5 Sq. mm.						
77	12010102	5.00	Numbers	4879.03	24395.15	AT Par	24395.15
77	Description:- Supply of Rapid Joint LS3, suitable for cable Jointing of Signalling cable of various size, having dielectric strength > 20KV/mm, Non Toxic, low viscosity, Flamability point more than 200 C, Re-entrable, Long storage life Make RAYTECH or Similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply Cable Size 12C x 1.5 Sq. mm.						
78	12010104	1.00	Numbers	5201.12	5201.12	AT Par	5201.12
78	Description:- Supply of Rapid Joint LS3, suitable for cable Jointing of Signalling cable of various size, having dielectric strength > 20KV/mm, Non Toxic, low viscosity, Flamability point more than 200 C, Re-entrable, Long storage life Make RAYTECH or Similar. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply Tools for installation of Rapid Cable Joint kit.						
79	12010200	100.00	Metre	760.66	76066.00	AT Par	76066.00
79	Description:- Supply of Medium class GI pipes 100 mm dia(4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg.No.CSTE/NWR/SOR/06 to 12 or at any other locations as decided by Site Engineer. It includes supply of all material required for fixing arrangement. Contractor will also supply flexible/corrugated HDPE pipe at the end of GI pipe to protect the cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply.						
80	12010300	50.00	Metre	190.17	9508.50	AT Par	9508.50
80	Description:- Fixing of Medium class GI pipes 100 mm dia(4.5 mm thickness) as per IS 1239 (Part 1) : 2004 with coupling on culverts bridges as per Drg.No.CSTE/NWR/SOR/06 to 12 or at any other locations as decided by Site Engineer. It includes installation of all material required for fixing arrangement. Contractor will install flexible/corrugated HDPE pipe at the end of GI pipe along with any masonry work(if required) to protect the cables from sharp edges and sudden bends. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after installation.						
81	12010602	500.00	Metre	31.87	15935.00	AT Par	15935.00
81	Description:- Supplying and placing of one layer of standard size of B grade quality bricks of the local make spreading on cables laid.(minimum size of brick 200mm X 100mm X 70mm) Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Installation. widthwise (more than 2 cables).(Unit is per RM Running Meter)						
82	12010700	100.00	Numbers	1798.20	179820.00	AT Par	179820.00
82	Description:- Supply of Double Walled Corrugated (DWC) HDPE Pipe/duct with associated collars etc. as per RDSO Specification No. RDSO/SPN/204/2011 or latest anti-rodent & anti-oxidant and non flame propagating type in 6 meters straight length and of size 120 mm outer dia,& 103.5 mm inner dia. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber O-Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap (The total quantity of above items is equal to no. of pipes supplied.) DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vendor name and year of manufacture can be easily identified. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply						
83	12010900	500.00	Metre	383.47	191735.00	AT Par	191735.00
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	Description:- Supply of Double Wall Corrugated (DWC)-HDPE pipe/duct of size 200 mm outer dia, & 175 mm inner dia. It includes supply of Double Wall Corrugated -HDPE pipe/duct as per RDSO Specn.No. RDSO/SPN/ 204/2011 (version 1.1) or latest and conforming to ISI Spec. No.IS:14930, Part-II. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber O-Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vendor name and year of manufacture can be easily identified. Inspection: (i) RDSO/RITES if value of item in work more than 5 lakhs or as per extant policy (ii) Consignee subject to procurement from RDSO approved vendors if value of whole item in work less than 5 lakhs or as per extant policy Inspection Charges: (i)Borne by Railways (ii) None Payment Terms: 100% after Supply						
84	12011600	100.00	Metre	29.59	2959.00	AT Par	2959.00
	Description:- Placing of DWC HDPE/RCC/GI pipes along with collars in trenches at places near track and road, crossings, platform cuttings etc. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is RM running meter.)						
85	12012000	5.00	Numbers	2148.73	10743.65	AT Par	10743.65
	Description:- Supply of Thermo shrink Universal Jointing kit for Quad Cable (for straight joints) as per RDSO spec IRS/TC-77/2012 revision 3 With latest Amd. Inspection: RDSO Inspection Charges: Borne by Railways Payment Terms: 100% after Supply						
86	12012100	5.00	Numbers	1157.45	5787.25	AT Par	5787.25
	Description:- Jointing of 4 / 6 quad /Signaling cable with Heat Shrinkable straight through Jointing Kit. All the material required for the work are to be arranged by contractor himself at his own cost except Thermo shrinkable Joint Kit/Rapid Joint kit. After jointing the cable through test such as insulation test, continuity cable losses etc. to be carried out jointly with Railway Engineer. If any defect or any damage is observed during jointing, the contractor has to redo the joint free of cost. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
87	12012200	50.00	Metre	1202.97	60148.50	AT Par	60148.50
	Description:- Horizontal direction drilling/boring without damage of surface road /track using Auger Machine(HDD machine). The bore shall be upto 200 mm dia & shall be done at the depth of minimum 1200 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road. The length of the bore shall be minimum 4 Mtrs long. This include insertion of different dia DWC-HDPE pipe/ GI pipes coupling etc. as per direction of Engineer In charge. Note:- Pipe Supply is not covered under this item. Contractor shall provide all material required for boring and adequate nos. of labours for proper laying of cables into the bore. Cable shall be laid cautiously so that it should not get damage due to rough handling & pressure on cable. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution.						
88	12012300	50.00	Metre	122.74	6137.00	AT Par	6137.00
	Description:- Horizontal Drilling by using manual pushing method at minimum depth of 1.5 meter below the formation level of earth as per decision of Engineer in charge .Pipe Supply is not covered under this item Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
89	12012500	10.00	Numbers	328.68	3286.80	AT Par	3286.80
	Description:- Supply of RCC cable route marker engraved and painted on both side along the route at every 50 meter and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Supply						
90	12012600	10.00	Numbers	82.17	821.70	AT Par	821.70
	Description:- Transportation at site and Installation of RCC cable route marker engraved and painted on both side along the route at every 50 meter and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
91	12013300	1.00	Kilometre	6860.47	6860.47	AT Par	6860.47
	Description:- Shifting of Exposed cables. The item includes Removal of exposed cable from existing trench & laying the same in new trenches. Digging, Placing of capping/Half round RCC pipe covered separately. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
92	12013700	500.00	cum	274.28	137140.00	AT Par	137140.00

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	Description:- Excavation of cable trench as per cable route plan, 1.2 Mtr. deep and of 0.3 Mtr. to 0.6 Mtr. wide at bottom as per RDSO sketch No. SDO/CABLE LAYING/003 or latest alongside the track in normal (all type) soil/strata, conforming to distances as per cable route plan and refilling. This work includes clearing of route from bushes etc, covering of cable laid in trench by loose soil for a layer of 50mm thickness approximately before covering by bricks. The work shall be done as per the extant practice on North Western Railway and instructions of Railway Engineer at site. In case 1.2m depth of trench is not achievable due to site conditions, specific approval of JA grade officer will be required for each site where trench depth of 1.2m is not possible. Without the approval of JA Grade officer, no payment for trenching will be made for trench depth less than 1.2m. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is Cubic Meter)						
93	12013800	10.00	cum	274.28	2742.80	AT Par	2742.80
	Description:- Digging of trench 1.2 Mtrs. deep from rail flange/ road level and 0.3 Mtrs to 0.6 Mtrs wide and back filling after placing of DWC/ RCC/GI pipe. (Placing of DWC/RCC/GI pipe covered separately).The ballast disturbed be screened and dressed as required by Engineer-in-charge or his representatives and road tarred immediately. For track crossing, Drg. No.CSTE/3644 Pg.7 of 11 and for Road Crossing, Drg. No. CSTE/3644 Pg. 5 of 11 are to be followed. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is Cubic Meter)						
94	12013900	20.00	cum	503.04	10060.80	AT Par	10060.80
	Description:- Digging of cable trench 0.3 Mtrs. Deep and 0.3 Mtrs. Wide on Asphalted Platform / Road / Hard rocky area. Refilling with earth leveling of trenches & restoring the original surface of trenches.The sharp edges will be smoothened out in bottom of the chase and will be leveled properly. In hard rocky ground area , cables will be laid normally on layer of shifted earth of 0.05 mtrs thickness previously deposited at bottom of the trench and cables will be covered with layer of sand or shifted earth of 0.1 mtr thickness. In case sharp edges of rocky ground can not be protected from shifted earth then GI/ CI /PVC /DWC/ HDPE pipes will be used, if numbers of cables is small.In case number of cables are large RCC duct will be used. In isolated cases, it can be given smooth surface by using either masonry bricks or cement concrete. A row of bricks shall then be placed length wise on the top and jointed with cement mortar and layer of concrete with cement plaster shall be provided on top of the same. Note: This item in hard rocky area will be operated only where normal depth i.e.1.2 mtr is not possible and it will be decided by site engineer/unit officer incharge of work. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is Cubic Meter)						
95	12014000	1.00	Numbers	12506.58	12506.58	AT Par	12506.58
	Description:- Digging of cable pit (min 2x2x1m) as per instruction of Site Engineer, supplying and filling of sand before and after coiling the cables, covering top of the cable pit with stones and providing brick masonry on all four sides of the cable pit and plastering thereafter. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution						
96	12014100	51000.00	Metre	9.10	464100.00	AT Par	464100.00
	Description:- Laying of S&T Cables of various cores/ pairs/ quads in trenches/ GI pipes/ RCC pipes/ DWC pipes/ Trunking. This also includes laying of cables in track crossings & road crossings. Item includes provision of labels of coloured plastic adhesive tapes or any other identifiable material on each cable to give the cable number at each Gantry Post/hectometer post.(Cables will be meggered before and after its laying by contractor under supervision of Railway Representative and he will submit the meggering report of each testing). Length of the cable laid includes the length of the cable coiled for termination purposes. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(unit is RM running meter)						
97	12014200	2.00	cum	3628.26	7256.52	AT Par	7256.52
	Description:- Cement concrete work for miscellaneous items in the ratio 1 : 3 : 6 . Item includes excavation, ramming, curing and plastering with cement & sand mixture (aggregate not exceeding 3.8 cm.) (Aggregate cement & sand to be supplied by the contractor). Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is cubic meter)						
98	12014300	1.00	cum	1990.54	1990.54	AT Par	1990.54
	Description:- Providing brick masonry in ratio 1:6 cement and mortar including plastering with 1:4 cement and sand mixture both sides, 20 mm thick each with contractor's owned class II bricks, including excavation, curing, grouting, bolting etc. wherever required. Bricks sand and cement to be supplied by the contractor. Inspection: Consignee Inspection Charges: None. Payment Terms: 100% after Execution(Unit is cubic meter)						
	13010300	2.00	Lot	17530.73	35061.46	AT Par	35061.46

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99	Description:- Supply of basic material to construct unit maintenance free earth as per RDSO Specs. No RDSO/SPN/197/2008 or latest and conforming to RDSO Drg.No.SDO/ RDSO/E&B/001 dtd.19.09.08 . It consist of following: (a) Copper bonded steel electrode of 3.0 m long, 17.2 mm dia with copper bonding thickness of minimum macrons and UL listed and marked = 1 no. (b) Earth enhancement material supplied in sealed bags of minimum 10 kg = 3 nos. © Copper strip of 150x25x6 mm, to terminate earth rod = 1 no. (d) Copper strip of 300x25x6 mm (MEEB) = 1 no. (e) Copper strip of 150x25x6mm (SEEB) = 1 no. (ii) Supply of 35 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting main earth electrode to MEEB in the equipment room in duplicate.(minimum 10 meter) (iii) Supply of 16 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting MEEB to SEEB and SPD to MEEB (minimum 10 meter) (iv) Supply of 10 sq. mm multi strand single core PVC insulated copper cable as per IS: 694 for connecting various equipments to SEEB (v) Supply of copper lug sleeve for 3/16 cable Inspection: RDSO Inspection Charges:Borne by Railways Payment Terms: 100% after Supply.						
100	13010400	2.00	Set	7861.68	15723.36	AT Par	15723.36
	Description:- Installation of Unit Maintenance Free Earth as supplied under item no. 13.3 of Chapter 13 of SOR . It includes (i) Digging the earth to the required depth. (ii) Insertion of electrode. (iii) Filling of earth enhancing compound (Approx.30 Kg) (iv) Provision of exothermic weld connections to copper tape of 25 mm x 6 mm x 150 mm to the earth electrodes. All material tools and features required for weld will be arranged by contractor. (v) This also includes CC cover 1.5 ft x 1.5 ft. 1 ft wall thickness 2 inch with cover 3 inch thickness. Cables 35 Sq mm/ 16 Sq mm/10 sq mm for connecting earth to busbar, busbar to busbar and busbars to various equipments. Earth electrode of 17.20 mm dia and 3.00 meter long high tensile low carbon steel circular rods molecularly bonded with copper and outer surface (minimum copper bonding thickness of 250 microns to made requirement of under writer's laboratories (UL) 467-2007 or latest. Copper strips of 150 mm x 25 mm x 6 mm to be welded with each earth electrode, copper strips of 300 mm x 25 mm x 6 mm for main equip- potential busbar, copper strips of 150 mm x 25 mm x 6 mm sub equip-potential busbar in relay room, power room and panel room. GI strip 25 mm x 2 mm for ring formation of earth pits Earth enhancement material in bags for each Earth Electrode. Inspection chamber of site 300 mm x 300 mm x 300 mm (Inside dimension) of approximate 50 mm thick with pulling hooks to cover the earth pits. Note: The installation of this item shall be carried out by the contractor as per RDSO Specn.No.RDSO/SPN/ 197/2008 or latest and conforming to RDSO Drg.No.S DO/RDSO/E&B/001 or latest. Inspection: Consignee Inspection Charges: None Payment Terms: 100% after execution and testing.						
101	13011300	2.00	Numbers	416265.75	832531.50	AT Par	832531.50
	Description:- Supply of electronic Cable route tracer/locator with underground cable and pipe locating receiver and cable avoidance tool that provide location of armoured OFC , signalling and telecom , power cable etc. make : C Scope Stanley/3M Dynatel , model: DXL-4 DBG /2273M-iD 30 or superior. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
102	13011500	2.00	Numbers	8689.42	17378.84	AT Par	17378.84
	Description:- Supply of Digital Cable Insulation Tester for measurement of cable insulation resistance with auto range 0-500 V DC. Motwani or from any reputed make. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
103	13011800	2.00	Numbers	8758.40	17516.80	AT Par	17516.80
	Description:- Supply of Digital Earth Resistance Tester for measurement of earth resistance with 3.5 digital LCD, 12.5 mm screen segment and Range -0.5 Ohms to 500 Ohms. WACO or from any repudiated make. Inspection: Consignee Inspection Charges:None Payment Terms: 100% after Supply.						
104	14010801	8.00	Numbers	253.80	2030.40	AT Par	2030.40
	Description:- Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy paint will be supplied by Railways.NOTE:- The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974). Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution Apparatus Case Full Size. (Outside & inside)						
105	14010802	7.00	Numbers	229.90	1609.30	AT Par	1609.30
	Description:- Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy paint will be supplied by Railways.NOTE:- The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974). Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution Apparatus case Half Size. (Outside & inside)						
	14011001	8.00	Numbers	119.50	956.00	AT Par	956.00

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106	Description:- Lettering / Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes. This includes supply of paints of Asian Paints/ Nerolac / Dulux / Berger make. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution Full Case.							
107	14011002	7.00	Numbers	81.94	573.58	AT Par	573.58	
	Description:- Lettering / Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes. This includes supply of paints of Asian Paints/ Nerolac / Dulux / Berger make. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution Half Case							
108	14011900	15.00	Hour	1090.59	16358.85	AT Par	16358.85	
	Description:- Hiring of JCB machine(in good condition) for levelling and dressing ground/ dismantling structures including disposal of debris through dumpers etc with contractors labour , JCB machine , machine operator, fuel etc. The contractor shall arrange for road permit for all the states for operation as per instructions of engineer incharge and vehicle shall not be more than 3 years old . Payment shall be made for actual working hrs at site. Inspection:Consignee Inspection Charges: None Payment Terms: 100% after Execution							
109	14012700	2.00	Numbers	1830.92	3661.84	AT Par	3661.84	
	Description:- Supply & fixing of Crank Handle Box & SM's key box of size 450 mm x 250 mm x150 mm and made of 12 mm thick teakwood with a glass front, lock and sealing arrangement. All material like lock, teakwood, handles, hinges, glass sheet of 3 mm thick will be supplied by the contractor. Box will be polished and description will be written as per instructions of Engineer in charge. Inspection:Consignee Inspection Charges: None Payment Terms: 100 % after Execution							
110	14012800	2.00	Numbers	1722.47	3444.94	AT Par	3444.94	
	Description:- Supply & fixing of KLCR boxes & fixing of KLCR Relays in ASM office. It includes supply of any minor bracket, nuts, bolts, teakwood, sun mica, lock, drilling hole etc as directed by engineer at site. It also includes supply and wiring of push buttons along with LEDs for KLCR circuit. Rly will supply only KLCR relays and contractor has to wire KLCR relays. It includes supply of all the related wiring material. Inspection:Consignee Inspection Charges: None Payment Terms: 100 % after Execution							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B-NS ITEMS							8815374.88	
1	NS	10.00	Numbers	5628.90	56289.00	AT Par	56289.00	
	Description:- Supply and installation of Earth Electrode including MS flat for Signalling Equipments as lever frames, apparatus cases, signal, Relay Rack, Block Instrument etc. (Supply and fixing of each earth electrode as per drawing no. RE/S&T/DRG/Tender/SK/ 398/94 for apparatus cases, signal post and other equipment as per instruction on earthing of S&T equipment. Laying of earth lead mild steel flat of size 35 mm x6 mm and fixing of lead M.S. flat to earth electrode and lever frame, signal post and apparatus cases as per drg. no. CORE/S&T/ALD/SK /591/2008, 592/2008 and 593/2008 respectively and instructions on earthing at S&T equipment and providing cement enclosure for earth electrode as per drawing no. RE/S&T/Sig/Tender/SK/13/85 Alt.-'A'.) tender document in Annexure-TS-18,18-I,18-II,18-III,18- IV,18-V)							
2	NS	5.00	Numbers	3452.70	17263.50	AT Par	17263.50	
	Description:- Shifting and installation of Apparatus Cases on CC foundation on grouted bolts. The item includes fitting of E Type locks and fabrication of slotted angle frame and fixing it inside location box. Railway will supply only location boxes. The casting of CC foundation for erection of location boxes has been covered separately in SOR Item No. 32010100 (i.e. earlier SOR Item No.16.1) & SOR Item No. 32010200 (i.e. earlier SOR item 16.2 of Sch.-B). Apparatus Case Single (Full)							
3	NS	5.00	Numbers	2277.34	11386.70	AT Par	11386.70	
	Description:- Shifting and installation of Apparatus Cases on CC foundation on grouted bolts. The item includes fitting of E Type locks and fabrication of slotted angle frame and fixing it inside location box. Railway will supply only location boxes. The casting of CC foundation for erection of location boxes has been covered separately in SOR Item No. 32010100 (i.e. earlier SOR Item No.16.1) & SOR Item No. 32010200 (i.e. earlier SOR item 16.2 of Sch.-B). Apparatus Case (Half)							
4	NS	10.00	Numbers	4720.00	47200.00	AT Par	47200.00	
	Description:- QNNA1(6F/2B)							
5	NS	10.00	Numbers	4720.00	47200.00	AT Par	47200.00	
	Description:- QNNA1 (4F/4B)							
6	NS	1.00	Station	21575.89	21575.89	AT Par	21575.89	
	Description:- Alteration in existing data logger wiring and re-validation of inputs as per site requirement. Work includes supply of wiring material , shifting/re fixing of DATA LOGGER (if required). Inspection: Consignee, Inspection Charges: None, Payment Terms: 100%after commissioning. (ITEM WILL BE REQUIRED AT MODIFICATION IN EXISTING EI &RELAY ROOM)							

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7	NS	10.00	Sqm	1523.00	15230.00	AT Par	15230.00	
	Description:- Supply and fixing of insulation Rubber mat for electrical purpose 2.5mm thick size 2m x 1 m suitable for 3.3 KV to 11KV (Class- B) confirming to IS 15652-2006.(Unit-Per Square Meter)Inspection: Consignee Inspection Charges: NonePaymentTerms:100% after fixing							
8	NS	10.00	Per Relay	510.91	5109.10	AT Par	5109.10	
	Description:- Addition/Alteration and Fixing of relays in outdoor. It includes supply and fixing of all type of material like relay frame, nut bolts , and PVC wires as per instructions of Engineer in charge. All wiring will be done as per standard practice of North Western Railway with neat dressing & threading. This also includes supply of PVC insulated Jumper wires of multi strand 16/.2 mm, tinned in all colours as per RDSO Specn.No.IRS-S-76/89(Amnd.2 or latest). Relays will be supplied by Railways. Inspection: Consignee. Inspection Charges: None. Payment Terms:100% after testing of circuit							
9	NS	500.00	Numbers	10.43	5215.00	AT Par	5215.00	
	Description:- Supply of PTCC Fuse 16-V(GP16-300) or 30V(GP30-185) as decided by Railway. Inspection: Consignee Inspection Charges: None, Payment Terms:100% after supply.							
10	NS	10.00	Numbers	3127.56	31275.60	AT Par	31275.60	
	Description:- Modification/Alteration of existing DC track circuits covering points zones also.The item includes provision of doubled continuity GI wire bonds on rail joints after drilling bond-hole of7.0/7.2mm dia, skimming of fish plate, insertion of insulated block joint if required, fixing of TLJB (separate for positive & negative rails) with angle iron for track feed/jumper/track relay ends of track circuits and also for fixing jumper cables as per approved Track Circuit Plan, making rail connections through suitable insulated sleeves from TLJB at TF, jumper & TR end with GI wire, rail clips for fixing bond wire on the TLJB as per standard practice, termination of tail cables on TLJB terminals etc. TF/TR wiring shall be fixed on the suitable arrangement on PRC sleepers with the help of Hooks. Hooks shall be provided on PRC sleepers with the help of suitable steel bracket. This item also includes fixing& supply of channel pins, Hooks etc. Inspection: Consignee Inspection charges: None							
11	NS	10.00	Numbers	4304.90	43049.00	AT Par	43049.00	
	Description:- Supply of mechanical tool kit consist of : (a) Hammer hand medium(500 gms) =01 Nos, (b) Goti Handle 12"socket = 01 Nos, (c) Socket in goti 19mm= 01 Nos, (d) Socket in goti 30 mm=01 Nos, (e) Socket in goti16 mm= 01 Nos,(f) Socket in goti 13 mm = 01Nos, (g)Socket in goti 10 mm = 01 Nos, (h) Wire cutter 6" = 01 Nos, (i) Nose plier 6" = 01Nos, (j) Screw driver 6" = 01 Nos, (k) Plierelectric 6" = 01 Nos , (l) Screw driver kit(6PC) = 01 Nos, (m) Spanner D/E(30x32)= 01Nos, (n) SpannerD/E(17x19)= 01 Nos, (o) Spanner D/E(32x36) = 01Nos, (p) Spanner S/E (45)=01 Nos , (q) AdjustableKey (12- 300mm)=01 Nos, (r) Screw Driver 16"= 01Nos, (s)Spanner S/E 24 mm = 01 Nos, (t) TinCutter = 01 Nos, (u) Cable InsulationCutter = 01 Nos, (v) Cable Insulation Stripper =01 Nos, (w) Aleen Key Set = 01Nos, (x) Tuner screw drivers = 01 Nos, (y)Measuring Tape(Non - Metallic, 5 meters)= 01 Nos. (z) Heavy Duty, Waterproof,Durable bag for keeping above tools. (AA)Safety gloves for maintenance use in RE Area. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after supply.							
12	NS	2.00	Numbers	1955.33	3910.66	AT Par	3910.66	
	Description:- Supply of magneto telephone desk type (push button) spec No. TC-79/2000 with Amendment No. 3 or latest. Inspection: Consignee (material must be procured from RDSO approved sources only) Inspection Charges: None, Payment Terms: 100% after installation.							
13	NS	5.00	Numbers	4717.18	23585.90	AT Par	23585.90	
	Description:- Supply of Digital AC-DC clamp meter capable of measuring current from 0.1A to 200 A and Voltage up to 600 V with zaw opening size 18 mm (or +/- 2 mm). Make Fluke-362 or Similar from KUSAM-MECO/MATRIX or better Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after supply.							
14	NS	10.00	Sqm	365.62	3656.20	AT Par	3656.20	
	Description:- Printing, Supply and fixing of signboard with printing on Sun board (of thickness minimum 4mm) having colour print of various drawings/photographs/ documents like Power board diagram, Relay index chart, Station Rule Diagram, FTOT Particulars etc. as decided by the Railway). Item includes framing of the board with suitable mounting arrangement and fixing on the wall as per instruction of site engineer. Inspection: Consignee. Inspection Charges: None. Payment Terms:100% after fixing.							
15	NS	2.00	Numbers	12600.85	25201.70	AT Par	25201.70	
	Description:- Supply of LASER Distance meter capable of measuring distance up to range 150 M with accuracy up to 10 mm, Make- BOSCH Model GLM 150 C or similar product from Fluke , Stanlay, Dewalt etc.Inspection: Consignee, Inspection Charges: None, Payment Terms: 100% after after supply.							
	NS	5.00	Sqm	1337.53	6687.65	AT Par	6687.65	

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16	Description:- Provision of fencing arrangements for the location boxes. The work involves erecting posts using GI pipes 25mm dia - 3m long near the location boxes at an interval of 2m and providing fencing using barbed steel wires around the location boxes. The GI pipes shall be buried to a depth of 1m. The barbed wire shall be provided using 14 SWG GI wire (2 wires) barbed at 6"interval. The wires shall be provided from ground level to the top of post at an interval of 6". The work also includes erection of two rail posts, fabrication of a gate using MS angles 50x50x5mm and MS flats 50mmx3mm and fixing it on the rails and provision of locking facility using E Type lock of same ward used at Location box as per the instructions of Railway representative at site.(Rails of different lengths will be supplied by Railways at nearest PWI depot. The Contractor has to transport, cut and erect the rails to the required lengths as per requirement).[GI pipes 25mm thick, barbed steel wire, MS angles 50mmx50mmx5mm and MS flats 50mmx5mm for fabrication of gate, E type Lock and all other miscellaneous materials required for the work shall be supplied by the contractor. Fabrication and erection must be done by professional fabricator with good workman ship. The item shall be used at the location boxes located near populated areas. Measurement unit is Sqm= area in Square meter, Area of land covered by the fencing. Inspection: Consignee Inspection Charges: None, Payment Terms:100% after execution							
17	NS	5.00	Numbers	2042.43	10212.15	AT Par	10212.15	
Description:- Supply of (spare) Point Insulation Set suitable for Thick web Points, Set shall consist of following components Insulation Washer to Drg. No. S-8640 : 12 Nos., Insulation Washer to Drg. No. S-8640/1 : 04 Nos, Insulation Washer to Drg. No. S-8640/2 : 02 Nos., Insulation Bush to Drg. No. S-23199 : 06 Nos., Insulation Bush to Drg. No. S 8813 : 04 Nos., Insulation Bush to Drg. No. S-3463 : 01 No., Insulation Bush to Drg. No. S-22179 : 02 Nos., Insulation Bush to Drg. No. S-8912 : 02 Nos., Insulation Plate to Drg. No. S3404 : 02 Nos. , Insulation Plate to Drg. No. S-3592 : 01 No., Insulation Plate to Drg. No. S-3593 : 01 No. Inspection: Consignee.Inspection Charges: None.Payment Terms:100% after supply.								
18	NS	5.00	Numbers	12035.79	60178.95	AT Par	60178.95	
Description:- Supply and fixing of earth pipe in hard and rocky area. Provision (SITC) of earthing protection arrangement rocky area by using boring machine/ vibrator machine drilling 06" dia hole 03 meter deep) as advised by the site incharge of Railway including supply of earth GI pipe /earth plate. Earth connection will be done by MS flat of size 40x05mm. All the material like charcoal, salt, nuts, bolts etc. to be supplied by the contractor and provision of earthing from earth electrode to relay room, A/cases, signal unit, station, LC gate pedestal, battery racks, relay racks CTR, various S&T equipments, power panel, control panel, cable earth, block earth, control earth, signal screen etc. as the case may be including fixing and soldering of copper lugs at both end of the wire as well as ensuring that earth resistance value is within prescribed limits. This includes transportation of material, painting, Lettering etc.								
19	NS	2.00	Numbers	20814.91	41629.82	AT Par	41629.82	
Description:- Supply of Electric Track drilling machine consisting of heavy duty drill machine capable to work on 110 V AC, 50 HZ supply, capacity upto 22mmmetal drilling, with suitable mounting bracket/stand. Inspection: Consignee ,Inspection Charges: None, Payment Terms: 100% after after supply.								
20	NS	200.00	Metre	395.10	79020.00	AT Par	79020.00	
Description:- High density polyethylene pipes(HDPE) of 110mm outer Dia,10mm wall thickness along with one coupler for every 6 meters as per specification no IS 4984:2016 with latest amendments (Inspection :RITES)								
21	NS	1.00	Station	24863.66	24863.66	AT Par	24863.66	
Description:- Augmentation of existing Integrated Power Supply System . it includes wiring alteration, new wiring and testing of existing Integrated Power Supply System including power distribution connection to bus bars and relay racks in the room with contractor's own wiring materials and fabrication and fixing of AC/DC power distribution board made on 10mm thick Phenolic hylam sheets or any standard make with connections suitable for 32 A. Wiring to be done considering site requirement ,depending upon the load with suitable wires, lugs & glands as per instructions of Engineer-in-charge. The work includes fixing & wiring of change overs witch (if required) for selection of DG set supply (DG1 & DG2) and wiring of change over switch (program switch)for selection of mains or DG supply This item also includes supply & fixing of ladder along the wall for carrying power supply wires/cables from IPS room to Relay room/power room etc. Any masonry work required will be carried out by contactors own material. Inspection: Consignee, Inspection Charges: None, Payment Terms: 100%after execution								
22	NS	5.00	Numbers	20396.72	101983.60	AT Par	101983.60	
Description:- Shifting/relocation of existing colour light signals with foundation and all fittings.Inspection: Consignee Inspection Charges: NonePaymentTerms:100% after commissioning.								
23	NS	1.00	Station	1798125.00	1798125.00	AT Par	1798125.00	
Description:- Redesigning of Application Logic as per approved SIP.								
24	NS	1.00	Station	1078875.00	1078875.00	AT Par	1078875.00	
Description:- Redesigning of Interface Circuits as per approved SIP.								

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25	NS	1.00	Station	479500.00	479500.00	AT Par	479500.00	
	Description:- Factory Accepted Test of EI System.							
26	NS	1.00	Station	359625.00	359625.00	AT Par	359625.00	
	Description:- Site Acceptance Test of EI System.							
27	NS	1.00	Station	599375.00	599375.00	AT Par	599375.00	
	Description:- Installation, programming, testing and commissioning of complete yard for Data Input and configuration, simulation and functional testing and commissioning of electronic Interlocking system as per interlocking plan							
28	NS	1.00	Station	239750.00	239750.00	AT Par	239750.00	
	Description:- Supply of ASMADE documents as per NWR practice for each station and these shall be provided only for modified portion of work in the form of CD, Soft copy with one set of drawing in the regular A-3 size print.							
29	NS	20.00	Numbers	1169.47	23389.40	AT Par	23389.40	
	Description:- Plotter Paper roll 36 Inch X 45 Mtr. (80 GSM).							
30	NS	20.00	Numbers	579.47	11589.40	AT Par	11589.40	
	Description:- Plotter Paper Roll 24 x 45 Mtrs. (80 gsm)							
31	NS	20.00	Numbers	537.32	10746.40	AT Par	10746.40	
	Description:- Plotter Paper roll 18 X 45 Mtrs.(80gsm)							
32	NS	20.00	Numbers	525.74	10514.80	AT Par	10514.80	
	Description:- Plotter Paper roll 12 X 45 Mtrs. (80gsm)							
33	NS	5.00	Numbers	2749.40	13747.00	AT Par	13747.00	
	Description:- EPSON T5130M Ink 80ml black							
34	NS	5.00	Numbers	2749.40	13747.00	AT Par	13747.00	
	Description:- EPSON T5130M Ink 50ml cyan							
35	NS	5.00	Numbers	2749.40	13747.00	AT Par	13747.00	
	Description:- EPSON T5130M Ink 50ml magenta							
36	NS	5.00	Numbers	2749.40	13747.00	AT Par	13747.00	
	Description:- EPSON T5130M Ink 50ml yellow							
37	NS	50.00	Numbers	731.58	36579.00	AT Par	36579.00	
	Description:- JK copier 4.99 kilogram Ream of 500 Sheet 80 gsm A3 size Plain Copier Paper Brand: jk copier (Detailed Description/Specification as per Product # 1 of GeM Contract No. GEMC 511687781808981 dt.03/03/2025							
38	NS	2.00	Numbers	7498.90	14997.80	AT Par	14997.80	
	Description:- Spiral binding machine with Spiral ring 25 m. and back & front Cover-100 sheets each of A 4 Size. (Warranty Period : Upto 30 months from the date of delivery.)							
39	NS	1.00	Station	1313690.00	1313690.00	AT Par	1313690.00	
	Description:- Redesigning of Application Logic as per approved SIP in connection with provision of Goods stable line at Kairala station.							
40	NS	1.00	Station	788214.00	788214.00	AT Par	788214.00	
	Description:- Redesigning of Interface Circuits as per approved SIP in connection with provision of Goods stable line at Kairala station.							
41	NS	1.00	Station	350318.00	350318.00	AT Par	350318.00	
	Description:- Factory Accepted Test of EI System - at Kairala station.							
42	NS	1.00	Station	350318.00	350318.00	AT Par	350318.00	
	Description:- Site Acceptance Test of EI System - at Kairala station.							
43	NS	1.00	Station	437897.00	437897.00	AT Par	437897.00	
	Description:- Installation, wiring, programming, testing and commissioning of complete yard for Data Input and configuration, simulation and functional testing and commissioning of electronic Interlocking system as per interlocking plan - at Kairala station.							
44	NS	1.00	Numbers	175159.00	175159.00	AT Par	175159.00	
	Description:- Supply of ASMADE documents as per NWR practice and these shall be provided only for modified portion of work in the form of CD, Soft copy with one set of drawing in the regular A-3 size print - at Kairala station.							

3. ITEM BREAKUP

No item break up added

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4. ELIGIBILITY CONDITIONS

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per Tender Document (Similar Nature of Work)	No	No	Allowed (Mandatory)

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

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

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

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

5. COMPLIANCE

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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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)
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6. Documents attached with tender

S.No.	Document Name	Document Description
1	-SNT-GSU-JU-2026-27-01KAIRLA.pdf	Tender Document
2	GCC-2022-ACS10_merged1_compressed.pdf	GCC 2022
3	GCCACS11_compressed.pdf	GCC 2022 ACS 11

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: RAVINDRA PAL SINGH

Designation : Dy.CSTE/GSU/JU