

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

Tender No: SDSTE-Sig-T-04-26-27-RRSK

Closing Date/Time: 07/07/2026 14:00

Sr.DSTE/SDAH acting for and on behalf of The President of India invites E-Tenders against Tender No **SDSTE-Sig-T-04-26-27-RRSK** Closing Date/Time 07/07/2026 14:00 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	Patch repairing work in the section of KOAA-Circular-MJT-KBGB section of Sealdah division.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	07/07/2026 14:00	Date Time Of Uploading Tender	10/06/2026 18:11
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	8082877.32	Tendering Section	S AND T
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	161700.00	Validity of Offer (Days)	60
Tender Doc. Cost (Rs.)	0.00	Period of Completion	9 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 ITEM vide SL. NO. 1 to 59 GIVEN IN SCHEDULE OF WORK.							1242595.91	
1	Please see Item Breakup for details.				1242595.91	AT Par	1242595.91	
	Description:- SOR ITEM vide SL. NO. 1 to 59 GIVEN IN SCHEDULE OF WORK.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B-Non SOR item vide SL. NO. 1 to 57 GIVEN IN SCHEDULE OF WORK.							5607300.12	
1	Please see Item Breakup for details.				5607300.12	AT Par	5607300.12	
	Description:- Non SOR item vide SL. NO. 1 to 57 GIVEN IN SCHEDULE OF WORK.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () C-18% GST on total items of Schedule-A & Schedule-B. Details has been shown in item breakup.							1232981.29	
1	Please see Item Breakup for details.				1232981.29	AT Par	1232981.29	
	Description:- 18% GST on total items of Schedule-A & Schedule-B.							

3. ITEM BREAKUP

Schedule	Schedule A-SOR ITEM vide SL. NO. 1 to 59 GIVEN IN SCHEDULE OF WORK.					
Item- 1	SOR ITEM vide SL. NO. 1 to 59 GIVEN IN SCHEDULE OF WORK.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	"Shifting/lifting of location box to facilitate earthwork of Engg/Con.This includes filling with sand and plastering inside location box. Note : All the materials like Sand ,Cement etc. will be supplied by the contractor."	Numbers	5.00	2338.14	11690.70

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2	2	"Supply of full size apparatus case (Large) (as per DRAWING NO. SW SK NO. 4/90 & other applicable GKP SW Drawing). This includes supply of location box (GKP type) with 'E' type lock & key, fitted on location door on both side, E Type lock (ward No. will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376 and Key to Drg. No. 3377 as per RDSO drawing No. RDSO/S-11500. Inspection : Consignee subject to procurement from RECOMMENDED LIST OF FIRMS FOR MECHANICAL SIGNALLING ITEMS "	Numbers	5.00	11793.22	58966.10
3	3	"Fixing by slotted angle, wiring of terminal strips, hylam strip, relays, fuses with base, fixing of hard wood shelves for Full size Apparatus Case with termination & Earthing of cables and wiring with lettering as required including supply of slotted angles, wires, ferrules for marking and miscellaneous materials per location to be supplied by contractor. (all materials except relay, terminal strips, Bakelite strip, fuses with base and hard wood shelves to be supplied by the contractor). Wires to be used for this purpose should be procured from RDSO'S approved firm and to be inspected by RDSO. [Quantity of wires to be specified by contractor]. NB- power cable to be terminated with proper lugs and required buss bar and other terminals to be supplied by the contractor. Inspection : Consignee"	Numbers	5.00	4093.22	20466.10
4	4	"Supply of paper base hylam sheet 12 mm thick. Inspection: consignee."	Sqm	5.00	4550.85	22754.25
5	5	"Supply of PBT ARA terminal, 6 WAY, DRG. No. 23756, ALT-3. as per IRS Spec. No. IRS: S-75-2006(REV-2) or Latest. Material to be procured from RDSO's approved firm only. Inspection: RDSO. "	Numbers	100.00	411.02	41102.00
6	6	"Supply of fuse block (PBT) to spec.no.IRS-S-75/2006(REV-2) OR LATEST,DRG.NO.SA-23748 with fuse inserts cartridge, non-deteriorating type to spec.IRS-S-78/92 with latest amendment, to be mounted inside the location box on hylum sheet. Fuse Base Inspection: -RDSO."	Numbers	20.00	150.85	3017.00
7	7	"Supply of fuse block (PBT) to spec.no.IRS-S-75/2006(REV-2) OR LATEST,DRG.NO.SA-23748 with fuse inserts cartridge, non-deteriorating type to spec.IRS-S-78/92 with latest amendment, to be mounted inside the location box on hylum sheet. Fuse, non-deteriorating(2A/6A/10A/16A) type, cylindrical(IRS-S-78/92) Inspection: -RDSO."	Numbers	100.00	51.69	5169.00

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8	8	"Casting, concreting and curing of concrete foundation ((in ratio 1:3:6), erection and installation of Full size Apparatus Case (GKP type)/Stainless Steel (SS) Apparatus Case as per DRG.NO. S&T/C-6/98(NKG) with 'E' type lock on CC foundation. This includes cost of all materials required for fixing holding down bolts, casting, concreting. Note: - bolts, nuts and washers, bitumen compound to be supplied by contractor and bitumen compound to be used in between apparatus case and foundation as per site engineer. This also includes bottom of apparatus cases filled with sand and the outside covered with masonry work and neat cement plastering. Note: - i) Location boxes to painted with anti-corrosive paints as per IS:- 9862-1981, one and half feet from the bottom, on all surfaces-both inside and outside. ii) Location box will be supplied by Rly."	Numbers	10.00	2993.22	29932.20
9	9	Dismantling of location box / RCC Goomty including all its accessories & concrete foundation.	Numbers	5.00	551.69	2758.45
10	10	"Transportation of HDT machine with accessories including handling of stores materials, preparation of site and boring (boring size upto 175mm) for laying of (i) three (03) nos. Of 40mm HDPE pipes & one (1) 50mm HDPE pipe or as per site engineer for placing and for crossing of signalling /telecom. Cable through HDPE pipe at bridges/ culverts/ track crossing/ pucca road crossing, boring trench shall be minimum 03 (three) meter below the river bed and 01(one) meter below the track/road/pucca road crossing area. This includes supply of permanently lubricated HDPE telecom. Ducts (i) 40mm/33mm & 50mm/42mm (with chord) as per RDSO SPEC. NO. RDSO/SPN/TC/45/2013 REV. 2.0 with latest amendments or as per specification no. TEC GR. NO. G/CDS-08/02, NOV.2004 OR LATEST. For each km. of HDPE duct the following items are to be supplied (a) end plugs - 02 nos. (b) cable sealing plugs - 02 nos. (c) plastic couplers slip fit / push fit type - 02 nos. (d) end plugs to be provided along with drum - 02 nos. Note: - cost of fuel and all other items which will be required for laying of cable through HDPE pipe. The work shall be executed as per site engineer. Note: Hiring of HDT machine is also included in this scope of description."	Metre	100.00	1489.83	148983.00
11	11	"Supply of 40 mm dia permanently lubricated HDPE telecom: ducts (with chord) as per RDSO SPEC.NO. RDSO/SPN/ TC/ 45/ 2013 REVISION 2.0 with latest amendments or Latest in length of 1000 mtrs/roll for each km. Of HDPE duct following items are to be supplied (a) end plugs-2 nos. (b) cable sealing plugs - 2 nos. (c) plastic couplers slip fit/push fit type-2 nos. (d) end plugs to be provided along with drum 2 nos. Inspection: consignee"	Kilometre	0.20	53277.12	10655.42

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12	12	Supply of cast iron offset bracket for Main Signal with U clamps, nuts, washers complete DRG. NO. SA-23080/ADV/ALT-1. RDSO SPEC. NO. IRS-S-10/78. Inspection: consignee. Note : Offset bracket has to be connected wherever necessary as per site engineer.	Numbers	2.00	2129.66	4259.32
13	13	"Supply of offset bracket for position light Shunt Signal (90mm outside Dia.) post with U clamps, nuts, washers complete Inspection : Consignee subject to procurement from RDSO approved vendors "	Numbers	2.00	1729.66	3459.32
14	14	"Supply of magneto telephones with all accessories including supply of 2 nos. Dry cell for each telephone with wooden battery box. (i) SPEC.FOR magneto telephone - IRS-TC-79/2000.AMD-1 or latest. Inspection : Consignee"	Numbers	2.00	2973.73	5947.46
15	15	"Supply of V.F. Transformer 1120:600/470 :1120 as per IRS:TC-22/76 or latest. Type - Cylindrical Inspection : Consignee"	Numbers	50.00	620.34	31017.00
16	16	"Supply of KEY LOCK 'E' type to Drg. No. SA-3376/M (IRS) Alt.-2 (with latest Alt if any) and KEY to Drg. No. S-3377/M (IRS) to ward No. as per site requirement and RDSO specification No. IRS: S- 30/64 (with Amdt. up to date if any). Inspection:RDSO."	Numbers	2.00	938.14	1876.28
17	17	"Supply of Top Plate with buttons as per requirement of Domino type of control panel suitable for domino size 54 x 34 mm.Make-Deltron Inspection: Consignee "	Numbers	2.00	205.93	411.86
18	18	"SUPPLY OF ELECTRIC KEY TRANSMITTER (ROTARY TYPE) FOR L.C. GATE CONTROL/ CRANK HANDLE ARRANGEMENT AS PER SPEC. NO. IRS:S-21/2001 (REV.1) & DRG. NO. SA-22601 (ALT. 4) (OR LATEST). MATERIAL TO BE PROCURED FROM RDSO APPROVED FIRM ONLY. INSPECTION : RDSO. NOTE : THE WARD NO. OF KEY SHALL BE ADVISED BY THE RAILWAY SITE ENGINEER."	Numbers	2.00	6224.58	12449.16
19	19	"INSTALLATION, WIRING, TESTING & COMMISSIONING OF ELECTRIC KEY TRANSMITTER FOR L.C. GATE CONTROL/ CRANK HANDLE ARRANGEMENT AS PER APPROVED DIAGRAM FOR NORMAL OPERATION AND EMERGENCY INTERLOCKED KEY (PROVIDING COVERING BOX WITH LOCKING ARRANGEMENT ON THE WALL OF GATE LODGE/ CABIN) AS PER THE INSTRUCTION OF RLY. SITE ENGINEER. ONLY ELECTRIC KEY TRANSMITTER WILL BE GIVEN BY THE RAILWAY. NOTE : IN CASE OF REPLACEMENT OF ELECTRIC KEY TRANSMITTER (EKT), THE ABOVE WORK ALSO INCLUDES DISMANTLING OF THE EXISTING EKT AND/OR COVERING BOX BEFORE REPLACEMENT, AND TRANSPORTATION & DEPOSITION (INCLUDING LOADING & UNLOADING) OF EKT TO THE STORE OF SSE/SIGNAL/STORE/SDAH AND/ OR AS ADVISED BY THE RAILWAY AUTHORITY."	Numbers	2.00	5759.32	11518.64
20	20	"Supply of Motorised boom locking set (consisting of locking arrangement for two booms) . The material will be as per RDSO Specn. No. RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest. Make-as per site requirement Inspection: Consignee"	Set	1.00	29252.54	29252.54

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21	21	"Supply of Power contractor/Relay for motor 24V DC, MAKE L&T MLO/SIEMENS / SCHNEIDER or SIMILAR. The material will be as per RDSO Specn. No. RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest. Inspection: Consignee"	Numbers	2.00	1740.68	3481.36
22	22	"Supply of PMDC MOTOR 24V DC, 90W/1500RPM.The material will be as per RDSO Specn. No. RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest. Note:- This is along with the Pinion. Inspection: Consignee"	Numbers	2.00	11289.83	22579.66
23	23	"Supply of boom lock PMDC MOTOR 24V DC, 40W/1500RPM.The material will be as per RDSO Specn. No. RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest. Note:- This is along with the Pinion. Inspection: Consignee"	Numbers	2.00	2094.92	4189.84
24	24	"Supply of PUSH BUTTON with ELEMENT. The material will be as per RDSO Specn. No. RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest. Note:- This is along with the Push Button. Inspection: Consignee."	Numbers	2.00	337.29	674.58
25	25	"Supply of TIMING BELT(277L). The material will be as per RDSO Specn. No. RDSO/SPN/208/2012/Ver.2.0 and Amendment 1 or latest. Inspection: Consignee. "	Numbers	4.00	847.46	3389.84
26	26	"SUPPLY OF GEAR BOX WITH CONNECTING LEVER (03 PIECES WITH BOX PIN) FOR USE IN PEDESTAL OF ELECTRICALLY OPERATED LIFTING BARRIER GATE AS PER RDSO SPECIFICATION NO. RDSO/SPN/208/2012, VER. 2.0 OR LATEST.Make- As per site requirement INSPECTION : RDSO. "	Numbers	1.00	35500.00	35500.00
27	27	"SUPPLY OF LIMIT SWITCH LS1 AND LS2 J02TPRA, 2NO 2NC - 1 NO. FOR GEAR BOX OF PEDESTAL, AS SPARE PARTS FOR ELECTRICALLY OPERATED LIFTING BARRIER GATE AS PER RDSO SPECIFICATION NO. RDSO/SPN/ 208/2012, VER. 2.0 OR LATEST. THIS INCLUDES DISMANTLING & RELEASING OF THE EXISTING PORTION. MAKE : BCH or SIMILAR (As per the site requirement). Note :- Limit switches should be suit with the wirings of existing ELB . Inspection: consignee"	Numbers	5.00	749.00	3745.00
28	28	"SUPPLY OF HEAD LOCK LIMIT SWITCH JLSLA-2NO. 2NC. FOR MOTORIZED LOCK BOX, AS SPARE PARTS FOR ELECTRICALLY OPERATED LIFTING BARRIER GATE AS PER RDSO SPECIFICATION NO. RDSO/SPN/208/2012, VER. 2.0 OR LATEST. THIS INCLUDES DISMANTLING & RELEASING OF THE EXISTING PORTION. MAKE : BCH or SIMILAR (As per the site requirement). Note :- Limit switches should be suit with the wirings of existing ELB . Inspection: consignee"	Numbers	5.00	1180.00	5900.00
29	29	"Supply of complete operating and transmission system of L.C. gate right from winch machine to L.C. gate. This item includes supply of all the materials required like foundations, cranks, joints, wires, wire insulators, wheels, arc lever etc by contractor. Inspection: consignee & materials to be procured from original manufacturer or dealer."	Numbers	1.00	78228.81	78228.81

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30	30	"Supply of boom locking arrangement complete as per DRG. NO. SA-8158/M(ADV).1) pole lock base as per RDSO's DRG. NO.8159/M (ADV). specification no. GR.FG-200. IS-210-78. IRS-S-10.2). Pole lock cover as per RDSO'S DRG. NO. S-8160/M specification no.GR. FG200.IS-210-78. IRS-S-10. And one set consists of one lock and one cover including all accessories as required. Material to be procured from approved list of firms for manufacturer & supply of mechanical signalling item. Inspection: Consignee "	Numbers	1.00	33493.22	33493.22
31	31	"Painting two coats of enamel paint over one coat of Red Oxide primer on the following items after scrapping and cleaning of the surface wherever necessary. Primer and Paints both of any reputed make are to be supplied by Contractor. The work shall be done as per instructions of rly engineer at site and extant practice on E Rly on location boxes, signal posts, TLJB. This includes lettering/Numbering of signals,TLJB & Block joints if any, apparatus Cases, gate booms ,etc , Description writing , legibly and neatly inside location boxes , relay hut, gate lodge etc. - for LC Gate. Inspection: Consignee."	Lot	2.00	5540.68	11081.36
32	32	"Installation of Electric Point Machines (143mm stroke type/220mm stroke type-TWS) on MS plate fixed on wooden/ concrete sleepers complete with fixing of junction boxes, ground connections including smithy works involved, insulation of MS plate on which the point machine is to be fixed from the gauge tie plate involving riveting/welding of angle cleats, installation of point JB, termination adjustment for operation of points by crank handle, painting and lettering as required including wiring, testing and commissioning. Note: MS plate/flat/angle /angle cleats, paints, bolts & nuts and washers of sizes as required for fixing the point machine shall be supplied by the contractor except point machine. Note : i) Point Machine & Ground Fittings to be supplied by Rly. ii) Dismantling and refixxing of existing EPD in case of DoobleSlip/Diamond Xing"	Numbers	10.00	8819.49	88194.90

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33	33	"Supply of Point insulation Complete set as per RDSO/SPN/168/2005 for 1.Switch bracket'D' bracket insulation for IRS point machine - One set comprises of (a)Side plate LH to Drg.No.S-3266 - 1 No. (b)Side plate RH to Drg.No.S-3265 - 1 No. (c)Insulating bush to Drg.No.S-3199 - 4 Nos.(d) Insulating washer to Drg.No.S-8640 - 4 Nos., 2.Split-Stretcher bar 2.1 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 leading 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.2.2 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. 2.3 Insulation of 'L' Bracket & 3. Gauge tie plates (52 Kg/60Kg as per site requirement) Insulation for (BG) complete with insulating bush and washereach set comprising of: (a) Insulating plate for insulated tie plate BG as per RDSO Drg.No.T-10372-1 No. (b) Insulating bushing for insulated stretcher bar BG as per RDSO Drg.No.T10368 - 3 Nos. (c) Insulating Washer for insulated stretcher bar BG to IRS 40/84 as per RDSO drg.No.T-10371 - 6 Nos. Inspection: Consignee subject to procurement from RDSO approved vendors"	Set	10.00	1044.07	10440.70
34	34	Erection, Fitting and Rail connection of Track Lead Junction Box on two supports (FRP stumps) with contractor's fixing material. This will include drilling of holes for track lead/side connections on rail. The work shall be done as per instructions of Rly engineer at site	Numbers	10.00	1115.25	11152.50
35	35	Supply, Fabrication and Fixing of Retro reflective Nomenclature Board of size 254 mm x 358 mm made of 2mm thick aluminium sheet & high intensity prismatic (hip) grade retro reflective sheet (TYPE -IV) including fixing arrangement for fixing them on existing post per DRG. NO. S&T/SDAH/SK-1386 and as per standard practice. Inspection: Consignee subject to procurement from RDSO approved vendors	Numbers	10.00	316.10	3161.00
36	36	"Supply and installation of P/ C / G/ A/ AG marker (size 250mm dia circle) high intensity prismatic(TYPE-IV) retro reflective sheet over 2 mm thick aluminium sheet & letter will be screen printing (250 mm dia circle) as per drg. S&T/SDAH/SK-1383 and technical specification attached. This will include cost of all materials including fixing clamp required for this work. Inspection: - Consignee"	Numbers	10.00	466.10	4661.00

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37	37	Casting, concreting & curing of foundation for Main signal including cost of all materials required for casting and concreting. All materials required for execution will be supplied by the contractor including cement, sand & stone chips as per DRG. NO. S&T/C-42(NKG).	Numbers	4.00	6834.75	27339.00
38	38	"Installation, erection and wiring of CLS unit, post, ladder & base LED unit including paying out of tail cable from location box and earthing of CLS (LED type). This includes supply of non - metallic (FRP) colour light signal housing multi-unit type for Rly. Signalling suitable for RE Area 2 Aspect complete without lenses, lamps and signal transformer as per DRG. NO. SA 23001/A/M(ADV), ALT.8 and as per SPEC. NO. RDSO/SPN/194/2006 (VER1.0) OR LATEST. FRP material as RDSO SPEC NO. RDSO/SPN/151/1997 OR LATEST. All drawings should be as per latest. Materials to be procured from RDSO's approved firm only. Note: Signal unit should be compatible to 'LED' type. Note: installation, erection & wiring of signalling unit includes LED signal lighting unit including current regulator. This also includes protection of unit from rain water. :- SUPPLY Inspection: Consignee"	Numbers	1.00	22527.97	22527.97
39	39	"Installation, erection and wiring of CLS unit, post, ladder & base LED unit including paying out of tail cable from location box and earthing of CLS (LED type). This includes supply of non - metallic (FRP) colour light signal housing multi-unit type for Rly. Signalling suitable for RE Area 2 Aspect complete without lenses, lamps and signal transformer as per DRG. NO. SA 23001/A/M(ADV), ALT.8 and as per SPEC. NO. RDSO/SPN/194/2006 (VER1.0) OR LATEST. FRP material as RDSO SPEC NO. RDSO/SPN/151/1997 OR LATEST. All drawings should be as per latest. Materials to be procured from RDSO's approved firm only. Note: Signal unit should be compatible to 'LED' type. Note: installation, erection & wiring of signalling unit includes LED signal lighting unit including current regulator. This also includes protection of unit from rain water. Execution."	Numbers	1.00	1405.08	1405.08
40	40	"Installation, erection and wiring of CLS unit, post, ladder & base LED unit including paying out of tail cable from location box and earthing of CLS (LED type). This includes supply of non - metallic (FRP) colour light signal housing multi-unit type for Rly. Signalling suitable for RE Area 3 Aspect complete without lenses, lamps and signal transformer as per DRG. NO. SA 23001/A/M(ADV), ALT.8 and as per SPEC. NO. RDSO/SPN/194/2006 (VER1.0) OR LATEST. FRP material as per rdso spec no. Rdso/spn/151/1997 or LATEST. All drawings should be as per latest. Materials to be procured from RDSO's approved firm only.Note: Signal unit should be compatible to 'LED' type. Note: installation, erection & wiring of signalling unit includes led signal lighting unit including current regulator. This also includes protection of unit from rain water. Execution. "	Numbers	2.00	1993.22	3986.44

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41	41	"Installation, erection and wiring of CLS unit, post, ladder & base LED unit including laying out of tail cable from location box and earthing of CLS (LED type). This includes supply of non - metallic (FRP) colour light signal housing multi-unit type for Rly. Signalling suitable for RE Area 3 Aspect complete without lenses, lamps and signal transformer as per DRG. NO. SA 23001/A/M(ADV), ALT.8 and as per SPEC. NO. RDSO/SPN/194/2006 (VER1.0) OR LATEST. FRP material as per rdso spec no. Rdso/spn/151/1997 or LATEST. All drawings should be as per latest. Materials to be procured from RDSO's approved firm only.Note: Signal unit should be compatible to 'LED' type. Note: installation, erection & wiring of signalling unit includes led signal lighting unit including current regulator. This also includes protection of unit from rain water. Supply Inspection: Consignee "	Numbers	2.00	23143.22	46286.44
42	42	"Installation, erection and wiring of CLS unit, post, ladder & base LED unit including paying out of tail cable from location box and earthing of CLS (LED type). This includes supply of non - metallic (FRP) colour light signal housing multi-unit type for Rly. Signalling suitable for RE Area 4 Aspect complete without lenses, lamps and signal transformer as per DRG. NO. SA 23001/A/M(ADV), ALT.8 and as per SPEC. NO. RDSO/SPN/194/2006 (VER1.0) OR LATEST. FRP material as per rdso spec no. Rdso/spn/151/1997 or LATEST. All drawings should be as per latest. Materials to be procured from RDSO's approved firm only.Note: Signal unit should be compatible to 'LED' type. Note: installation, erection & wiring of signalling unit includes led signal lighting unit including current regulator. This also includes protection of unit from rain water.Supply. Inspection: Consignee "	Numbers	1.00	26087.29	26087.29
43	43	"Installation, erection and wiring of CLS unit, post, ladder & base LED unit including paying out of tail cable from location box and earthing of CLS (LED type). This includes supply of non - metallic (FRP) colour light signal housing multi-unit type for Rly. Signalling suitable for RE Area 4 Aspect complete without lenses, lamps and signal transformer as per DRG. NO. SA 23001/A/M(ADV), ALT.8 and as per SPEC. NO. RDSO/SPN/194/2006 (VER1.0) OR LATEST. FRP material as per rdso spec no. Rdso/spn/151/1997 or LATEST. All drawings should be as per latest. Materials to be procured from RDSO's approved firm only.Note: Signal unit should be compatible to 'LED' type. Note: installation, erection & wiring of signalling unit includes led signal lighting unit including current regulator. This also includes protection of unit from rain water. Execution "	Numbers	1.00	2313.56	2313.56
44	44	"Dismantling of existing main signal including dependent shunt signal, calling on signal if any, fitted on the same post along with signal post, signal unit, ci base without damaging any part."	Numbers	5.00	1032.20	5161.00

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45	45	"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) Inspection : Consignee "	Numbers	500.00	46.61	23305.00
46	46	"Supply of End plate 2.5mm/0.091 in thick as per site requirement. Inspection : Consignee "	Numbers	60.00	8.47	508.20
47	47	"Supply of End Stopper 10mm/0.0394 in width as per site requirement. Inspection : Consignee "	Numbers	60.00	8.47	508.20
48	48	"Supply of Carrier Rails for above 35mm x 7.5mm, 1mm/0.039 in thickness un-slotted type as per site requirement. Inspection : Consignee"	Metre	20.00	92.37	1847.40
49	49	"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) Spacers3) Tees4) 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: Consignee."	Metre	100.00	336.44	33644.00
50	50	Placing of DWC/HDPE/RCC/GI pipes along with collars in trenches at places near track and road, crossings, platform cuttings etc.	Metre	100.00	26.27	2627.00
51	51	"Termination of Outdoor Cables (Main Cables /tail cables) at both ends in location boxes, cable termination rack in relay room, station building, generator room etc. The item includes dressing of cables and wires with dressing threads as per standard practice. All material required for this item will be supplied by contractor. The outdoor cable shall be terminated in Relay Room, DG Room, ASM Room etc under supervision and instructions issued by Engr. incharge of the work. Inspection: Consignee "	Per Conductor	540.00	7.63	4120.20

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52	52	"Excavation of cable trench as per cable route plan, 1.2 Mtr. deep and of 0.3 Mtr. to 0.6 Mtr. wide at bottom without brick as per DRG. NO. S&T/C-40(NKG), SK/4/95/NKG, SK/8/95/NKG. or latest alongside the track in all kinds of soil, conforming to distances as per cable route plan and refilling. This work includes clearing of route from bushes etc. The work shall be done as per the extant practice on Eastern Railway and instructions of Railway Engineer at site. Note:-(a) for all trenches from distant signal to home signal and to relay room, the minimum headway above the uppermost cable in the trench should be 600mm. If due to a large no. Of cables headway is not available, 4" of 1:2:4 concreting should be done. Note:-(b-1) payment will be made as per actual work done on pro-rata basis, if required depth is not available at site. (b-2) if the depth of trench is not uniform in a span of 100 mtr. or shorter lengths if site condition demands along the cable run, minimum depth will be taken for that particular stretch for payment"	cum	360.00	207.63	74746.80
53	53	"Laying of S&T Cables of various cores/ pairs/ quads in trenches/ GI pipes/ RCC pipes/ DWC pipes/ Trunking. This also includes laying of cables in track crossings & road crossings. Item includes provision of labels of coloured plastic adhesive tapes or any other identifiable material on each cable to give the cable number at each Gantry Post/hectometre post. (Cables will be meggered before and after its laying by contractor under supervision of Railway Representative and he will submit the meggering report of each testing). Length of the cable laid includes the length of the cable coiled for termination purposes. Note : Cable will be supplied by Rly."	RMT	2000.00	4.24	8480.00
54	54	"Supply of IPS DC-DC converter 24-32V DC, 10 Amp or 60-66 V DC, 5 Amp or 60-100V DC, 1 Amp/3 Amp/5 Amp. Note: Item will be supplied as per site requirement and make of existing IPS. Inspection : RDSO"	Numbers	5.00	20636.44	103182.20
55	55	"Supply of Counter Block for control cum indication panel. Make-Deltron/Ultra or Superior. Inspection- Consignee"	Numbers	5.00	1805.93	9029.65
56	56	"One set of different type of panel key for domino type control cum indication panel. Make- Deltron/Ultra or Superior. Inspection- Consignee"	Numbers	7.00	1240.68	8684.76
57	57	"Supply of PVC insulated multi strand, single core copper conductor of size 16/0.2 mm (0.5sqmm) as per IS 694:2010 and RDSO Specn. No. IRS: S-76/89 (Amnd-3) or latest. Each coil should be of 100/200/500 meters length. Color of the wire which is required will be specified by the Engineer in charge. Inspection: Consignee subject to procurement from RDSO approved vendors "	Kilometre	1.00	6499.15	6499.15

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58	58	"Supply of 1 x 10Sq.mm. (Green) multi strand copper power wire as per IS: 694:2010 or latest, 140 conductor each dia 0.30mm +/- 0.01 with insulation thickness of 1.0 mm and nominal conductor resistance of 1.91 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76/89 (Amnd.3) or latest. Color of the wire which is required will be specified by the Engineer in-charge Inspection: Consignee"	Metre	500.00	100.85	50425.00
59	59	"Supply of Drill Bit 9/32' (7.14mm) IS:5099/83 and 5101/69 or latest Make: JK or Any branded company Inspection: Consignee"	Numbers	100.00	43.22	4322.00
					Total	1242595.91
Schedule	Schedule B-Non SOR item vide SL. NO. 1 to 57 GIVEN IN SCHEDULE OF WORK.					
Item- 1	Non SOR item vide SL. NO. 1 to 57 GIVEN IN SCHEDULE OF WORK.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	"Supply of HSS Twist Drill Bit 13mm Note : 1 set consists of 10 piece of Drill Bit. Inspection: Consignee"	Set	10.00	359.32	3593.20
2	2	"Supply of Resistance 100 Ohm 10W Inspection- Consignee"	Numbers	20.00	17.90	358.00
3	3	"Supply of Capacitor 22000 mf 50V Make- Keltron or Superior. Inspection- Consignee"	Numbers	30.00	109.85	3295.50
4	4	"Supply of Rotary switch compatible for Deltron make Domino type control cum indication LC Gate panel. Inspection: Consignee"	Numbers	20.00	949.00	18980.00
5	5	Lifting as well as Alignment of the TLJB. This includes cost of all materials i.e Bolts & Nuts and Washer etc. With this work proper inlet of Cable at cable entry pipe, if cable shortage another cable to be laid into the cable entry pipe.	Numbers	50.00	227.19	11359.50
6	6	Installation & commissioning of Point insulation Complete set as per RDSO/SPN/168/2005	Numbers	50.00	2269.23	113461.50
7	7	"Cleaning , Scrubbing and Paining after application of primer, of Full Size Location Box complete, Concerned colours to be as per signal engineering manual. All the required paints and materials are to be supplied by the contractor. Note: Paints to be purchased from reputed company like Asian Paints/Berger/Shalimar for this Job. Grade of the required paint is to be as per the following spec. Alluminium:-IS:2339/63 with AMDT. 1 or latest. Black:- IS:8662/93 or latest. Golden yellow:- ISS:356 & IS:8662 or latest. Red oxide:- ISC:446 & IS:123/62 with AMDT.1 or latest."	Numbers	50.00	359.00	17950.00
8	8	Installation of complete operating and transmission system of L.C. gate right from winch machine to L.C. gate	Numbers	1.00	25000.00	25000.00
9	9	REPLACEMENT OF THE LOCATION BOX ALONG WITH THE RENOVATION OF THE EXISTING FOUNDATION OF THE LOCATION BOX. THIS INCLUDES COST OF THE SAND FILLING, IF REQUIRED. ALL THE MATERAILS REQUIRED FOR THIS WORK TO BE SUPPLIED BY THE CONTRACTOR EXCEPT THE LOCATION BOX & E-TYPE LOCKS WHICH ARE TO BE SUPPLIED BY THE RAILWAY.	Numbers	5.00	1274.04	6370.20

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10	10	"SUPPLYING AND FILLING IN PLINTH OF LOCATION BOX WITH SAND UNDER FLOORS, INCLUDING WATERING RAMMING, CONSOLIDATING AND DRESSING COMPLETE . Note : 'No' in unit column indicates per Location Box having plinth volumn of 0.6 CUM."	Numbers	5.00	945.07	4725.35
11	11	"SOLDERING OF EARTH WIRE AND MINOR WIRING IN THE LOCATION BOX/RELAY ROOM AS PER THE DIRECTION OF SITE ENGINEER. THIS JOB INCLUDES ALL THE SOLDERING KIT THAT ARE REQUIRED TO ACCOMPLISH THE WORK. THIS WORK TO BE EXECUTED AT ANY TIME OF DAY / NIGHT AS PER THE INSTRUCTION OF RAILWAY SITE ENGINEER. 1 FITTER & 1 KHALASIS/ HELPERS TO BE PROVIDED PER DAY AS ONE(1) GANG FOR THIS JOB. Note: 'No' in the unit column indicates 'Mandays'"	Numbers	5.00	1457.00	7285.00
12	12	Cement concrete platform around the location box for strenthening of foundation of full size apparatus case as per approved drawing. Cement concrete (150mm thickness) work will be included Brick work (125 mm width) with cement plaster (12 mm thickness) finished with floating coat of neat cement. The ratio of Cement/Sand/Stone will be as follows:- i) Cement concrete in the ratio of 1:2:4 (1 cement : 2 coarse sand : 4 graded aggregate 20 mm nominal size) ii) Brick work with cement mortar in the ratio of 1:6 (1 Cement : 6 Coarse sand) iii) Plastering with Cement & Sand mixture in the ratio of 1:4 (1 Cement: 4 fine sand)Cement, Sand, Brick & Stone chip to be supplied by the contractor.	Numbers	20.00	5332.26	106645.20
13	13	"FIXING OF FENCE AROUND THE S&T LOCATION BOX AND OTHER MISCLLANIOUS WORKS TO BE EXECUTED. THIS JOB INCLUDES CUTTING AND WELDING OF MS GRILL , DRILLING, CEMENT CONCRETING. THIS WORK TO BE EXECUTED IN THE AREA AS PER THE INSTRUCTION OF RAILWAY SITE ENGINEER(S). ALL THE MATERIALS (i.e SAND, CEMENT, STONE CHIP ETC) & MANPOWER TO BE SUPPLIED & PROVIDED BY THE CONTRACTOR EXCEPT MS GRILL FENCE . MS GRILL FENCE WILL BE SUPPLIED BY RLY. Note: (i) Per foundation of fence would be of 250mm X 250mm with 300mm minimum depth.(ii) This work includes carrying and shifting of MS grill fence from nearest S&T premises to the execution site."	Metre	300.00	400.00	120000.00
14	14	"Eldyne Make Maintenance Tool Kit for MSDAC ETU001 Eldyne make against the test certificate & guarantee certificate of OEM.Consisting of Items as listed below and as prescribed by OEM but not limited to:- 1. True RMS Digital Multimeter with probe set- 01 no. 2. Extended wired socket to Interface with diagnostic plug- 01 no 3. Selector Switch on Panel Base- 01 no. 4. Adjustable Torque Wrench with 13 mm and 19 mm inserts-01 set 5. 19 mm Double ended spanner-01 no. 6. Dummy Wheel-01 no. 7. Crimping Tool- 01no. Make/Brand - Eldyne Electro Systems Pvt Ltd, Kolkata. Accepted - ""Make/Brand - ""ELDYNE"" of M/s Eldyne Electro Systems Pvt Ltd, Kolkata Inspection: Consignee "	Set	1.00	131000.00	131000.00

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15	15	"Supply of Serial I/O Card, Part No. 3CR01881RAAA for Eldyne make MSDAC as per RDSO Spec. No. RDSO/SPN/176/2013, Ver.3 or latest Inspection: RDSO"	Numbers	3.00	96653.00	289959.00
16	16	"Supply of Parallel I/O Card, Part No.3CR01893 PEBB for Eldyne make MSDAC as per RDSO Spec. No. RDSO/SPN/176/2013, Ver.3 or latest Inspection: RDSO"	Numbers	3.00	69552.00	208656.00
17	17	"Supply of PSU, Part No. 3CR31040AAAA for Eldyne make MSDAC as per RDSO Specification No. RDSO/SPN/176/2013, Ver.3 or latest Inspection: RDSO"	Numbers	2.00	195000.00	390000.00
18	18	"Supply of CPU, Part No. 3CR10057AAAA for Eldyne make MSDAC as per RDSO Specification No. RDSO/SPN/176/2013, Ver.3 or latest Inspection: RDSO"	Numbers	2.00	435500.00	871000.00
19	19	"Supply of SK-30H Double rail Contact 8 Mtrs Rx Coil (Rx-1& Rx-2) for MSDAC, make-Eldyne as per RDSO Spec. No. RDSO/SPN/176/2013, Ver.3 or latest Inspection: RDSO"	Numbers	4.00	81100.00	324400.00
20	20	"Supply of ISDN (Digital) Card, for Eldyne make MSDAC for field unit as per RDSO Specification No. RDSO/SPN/176/2013, Ver.3 or latest Inspection: RDSO"	Numbers	2.00	191297.00	382594.00
21	21	"Supply of Mother board, Part No. 3CR01838AAAA for Eldyne make MSDAC for field unit as per RDSO Specification No. RDSO/SPN/176/2013, Ver.3 or latest Inspection: RDSO "	Numbers	2.00	45200.00	90400.00
22	22	"Tool kit for MSDAC ALTPRO as per RDSO specification No. RDSO/SPN/176/ 2013 Ver.-3 or latest & Manufacturers's Spec. or latest suitable with existing installations of Altpro (Sigma Rail Systems Pvt. Ltd) make MSDAC (Warranty Period : Upto 30 months from the date of supply) Inspection: Consignee."	Numbers	1.00	90000.00	90000.00
23	23	"Supply of Trackside Unit (VUR) complete comprising of a) Front Panel(Track Side Unit) [VUR-P with lightening protection]; b) VUR Box and c) VUR Column, , Part No. AP215512 & Part No.AP215503 as per RDSO specification No. RDSO/SPN/176/2013 Ver.-3 or latest & Manufacturers's Spec. or latest suitable with existing installations of Altpro (Sigma Rail Systems Pvt. Ltd) make MSDAC (Warranty Period : Upto 30 months from the date of supply) Inspection: RDSO"	Numbers	2.00	107016.00	214032.00
24	24	"Sensor Mounting Bracket, Part No. AP215801 (make Altpro) as per RDSO specification No.RDSO/SPN/176/2013 Ver.-3 or latest& Manufacturers's Spec. or latest suitable with existing installations of Altpro (Sigma Rail Systems Pvt. Ltd) make MSDAC (Warranty Period : Upto 30 months from the date of supply) Inspection: RDSO"	Numbers	2.00	33624.00	67248.00
25	25	"Supply of SENSOR SHIELD/ DEFLECTOR OF ALTPRO MSDAC Part No. AP215514 as per RDSO specification No. RDSO/SPN/176/ 2013 Ver.-3 or latest & Manufacturers's Spec. or latest suitable with existing installations of Altpro (Sigma Rail Systems Pvt. Ltd) make MSDAC (Warranty Period : Upto 30 months from the date of supply) Inspection: RDSO"	Numbers	2.00	29364.00	58728.00

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26	26	"SUPPLY OF TRANSMITTER COILS (15 Mtr Coil) - for CEL make HASSDAC as per RDSO /SPN/177/2012 with version 3 or latest Warranty- Upto 30 month from the date of supply. Inspection: RDSO . The Functionality test has to be checked by consignee before material inspection. "	Numbers	2.00	12600.00	25200.00
27	27	"SUPPLY OF RECEIVER COILS (15 Mtr Coil) -- for CEL make HASSDAC as per RDSO /SPN/177/2012 with version 3 or latest . Warranty- Upto 30 month from the date of supply. Inspection: RDSO . The Functionality test has to be checked by consignee before material inspection. "	Numbers	2.00	12600.00	25200.00
28	28	"SUPPLY OF MODEM CARD FOR CEL make SSDAC TYPE AXLE COUNTER AS PER RDSO/SPN/177/2012 (Ver-3) or latest version and ammendment upto date if any Warranty- Upto 30 month from the date of supply. Inspection: RDSO . The Functionality test of the Card has to be checked by consignee before material inspection. "	Numbers	2.00	32600.00	65200.00
29	29	"SUPPLY OF SIGNAL CONDITIONER CARD (SCC-1 = 50% & SCC-2 = 50%) FOR CEL make SSDAC TYPE AXLE COUNTER AS PER RDSO/SPN/ 177/2012 (Ver-3) or latest version and ammendment upto date if any Warranty- Upto 30 month from the date of supply. Inspection: RDSO.The Functionality test of the Card has to be checked by consignee before material inspection. "	Numbers	2.00	32600.00	65200.00
30	30	"SUPPLY OF RESET BOX FOR CEL make SSDAC TYPE AXLE COUNTER, MODEL 710P AS PER RDSO/SPN/177/ 2012 (Ver-3) or latest version and ammendment upto date if any Warranty- Upto 30 month from the date of supply. Inspection: RDSO. The Functionality test of the Card has to be checked by consignee before material inspection."	Numbers	2.00	42600.00	85200.00
31	31	"Supply of WEB DETECTORS for CEL make SSDAC as per RDSO/SPN/177/ 2012 (Ver-3) or latest version and ammendment upto date if any (Each Set consists of 2 Nos TX.2 Nos. RX) Phase reversal Type. Warranty- Upto 30 month from the date of supply. Inspection: RDSO.The Functionality test of the Card has to be checked by consignee before material inspection."	Set	2.00	44600.00	89200.00
32	32	"SUPPLY OF RELAY DRIVER CARD FOR CEL make SSDAC TYPE AXLE COUNTER AS PER RDSO/SPN/177/2012 (Ver-3) or latest version and ammendment upto date if any Warranty- Upto 30 month from the date of supply. Inspection: RDSO. Subject to procurement from RDSO approved vendor only. The Functionality test of the card has to be checked by consignee before material inspection.."	Numbers	2.00	32600.00	65200.00
33	33	"SUPPLY OF MICRO CONTROLLER LOGIC CARD (MLB-1 = 50% & MLB-2 = 50%) FOR CEL make SSDAC TYPE AXLE COUNTER AS PER RDSO/SPN/177/2012 (Ver-3) or latest version and ammendment upto date if any Warranty- Upto 30 month from the date of supply. Inspection: RDSO. Subject to procurement from RDSO approved vendor only. The Functionality test of the card has to be checked by consignee."	Numbers	2.00	44600.00	89200.00

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34	34	"SUPPLY OF 21 KHZ / 25 KHZ TRANSMITTER COILS ASSEMBLY COMPATIBLE TO GGTRONICS MAKE SSDAC CONFORMING TO SPEC. NO. RDSO/SPN/ 177/2012 (VER.3) AND/OR AS PER SITE REQUIREMENT. Note :- Length of the wire should be decided by site Enggnieer. The Functionality test of the Coil has to be checked by consignee before material inspection. Inspection: RDSO"	Numbers	2.00	30611.03	61222.06
35	35	"SUPPLY OF 21 KHZ / 25 KHZ RECEIVER COILS ASSEMBLY COMPATIBLE TO GGTRONICS MAKE SSDAC CONFORMING TO SPEC. NO. RDSO/SPN/177/2012 (VER.3) AND/OR AS PER SITE REQUIREMENT. Note :- Length of the wire should be decided by site Enggnieer. The Functionality test of the Coil has to be checked by consignee before material inspection. Inspection: RDSO"	Numbers	2.00	30611.03	61222.06
36	36	"Supply of BLEA for Siemens Make MSDAC as per RDSO Spn No./ RDSO/SPN/176/2013 ver-3 or latest Warranty- Upto 30 month from the date of supply. Inspection: RDSO"	Numbers	1.00	161425.00	161425.00
37	37	"Supply of STEU Cardfor Siemens Make MSDAC as per RDSO Spn No./ RDSO/SPN/176/2013 ver-3 or latest Warranty- Upto 30 month from the date of supply. Inspection: RDSO"	Numbers	1.00	77720.00	77720.00
38	38	"Supply of SIRIUS Card for Siemens Make MSDAC as per RDSO Spn No./ RDSO/SPN/176/2013 ver-3 or latest Warranty- Upto 30 month from the date of supply. Inspection: RDSO"	Numbers	1.00	149355.00	149355.00
39	39	"Supply of VAU Card for Siemens Make MSDAC as per RDSO Spn No./ RDSO/SPN/176/2013 ver-3 or latest Warranty- Upto 30 month from the date of supply. Inspection: RDSO"	Numbers	1.00	121850.00	121850.00
40	40	"Supply of Power Supply Module for Siemens Make MSDAC as per RDSO Spn No./ RDSO/SPN/176/2005 ver-2 or latest Warranty- Upto 30 month from the date of supply. Inspection: RDSO"	Numbers	1.00	175015.00	175015.00
41	41	"Supply of Double Rail contact assembly with Track side EJB for Siemens Make MSDAC as per RDSO Spn No./ RDSO/SPN/176/2013 or latest. Warranty- Upto 30 month from the date of supply. Inspection: RDSO"	Numbers	1.00	309760.00	309760.00
42	42	"Supply of Cable Clamp Assembly for sleeper (Galvanised) for dressing of Jumpers crossing the Rail. As per the Site requirement 60kg PSC/52kg for which drawing attached in the Annexure-C Inspection :- Consignee"	Numbers	50.00	844.92	42246.00
43	43	"Fixing of Cable Clamp Assembly with Sleeper along with placing of HDPE Pipe and fixing of Jumper (Track, MSDAC etc.). This work includes Preparation of jumper, placing through HDPE pipe, proper termination of jumper in TLJB and rail along with required drilling in rail. Cost of Drill Machines & drill bits for drilling in Rail will be carried out by the Contractor. Note:- The work shall be executed as per site engineer. i) No. in the Unit column indicates as per Sleeper. ii) Two or three Clamps in each sleeper. iii) Jumper cable will be supplied by railway. "	Numbers	50.00	1190.00	59500.00

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44	44	"Cleaning , Scrubbing and Paining after application of primer, of MAIN SIGNAL Post, including base, unit, ladder stage and all fittings (This includes calling-on signal, Dependent shunt signal, Junctioun type route indicator, Goods warning board, Cross marks etc. Concerned colours to be as per signal engineering manual. All the required paints and materials are to be supplied by the contractor. Note: Paints to be purchased from reputed company like Asian Paints/Berger/Shalimar for this Job. Grade of the required paint is to be as per the following spec. Alluminium:-IS:2339/63 with AMDT. 1 or latest. Black:- IS:8662/93 or latest. Golden yellow:- ISS:356 & IS:8662 or latest. Red oxide:- ISC:446 & IS:123/62 with AMDT.1 or latest."	Numbers	20.00	458.00	9160.00
45	45	"SUPPLY OF BOOM SECTION FABRICATED FROM G.I SHEETS OCTAGONAL SHAPE, FIRST SECTION FOR ELB AS PER SPECIFICATION NO. RDSO/SPN/208/2012 VERSION 2.0 OR LATEST INSPECTION : CONSIGNEE."	Numbers	2.00	2600.00	5200.00
46	46	"SUPPLY OF BOOM SECTION FABRICATED FROM G.I SHEETS OCTAGONAL SHAPE, SECOND SECTION FOR ELB AS PER SPECIFICATION NO. RDSO/SPN/208/2012 VERSION 2.0 OR LATEST. INSPECTION : CONSIGNEE."	Numbers	5.00	2300.00	11500.00
47	47	"SUPPLY OF BOOM SECTION FABRICATED FROM G.I SHEETS OCTAGONAL SHAPE, THIRD SECTION FOR ELB AS PER SPECIFICATION NO. RDSO/SPN/208/2012 VERSION 2.0 OR LATEST INSPECTION : CONSIGNEE."	Numbers	5.00	2000.00	10000.00
48	48	"SUPPLY OF BOOM SECTION FABRICATED FROM G.I SHEETS OCTAGONAL SHAPE, FOURTH SECTION FOR ELB AS PER SPECIFICATION NO. RDSO/SPN/208/2012 VERSION 2.0 OR LATEST INSPECTION : CONSIGNEE."	Numbers	2.00	1800.00	3600.00
49	49	Installation of boom locking arrangement complete as per DRG. NO. SA-8158/M(ADV).1 or latest.	Numbers	1.00	8000.00	8000.00
50	50	"Supply of Digital Multimeter of Rishabh 6016 Advanced Multimeter or Similar/ superior, True RMS as per Technical Spec. - TS-1. Inspection : Consignee . The Functionality test of the Multimeter has to be checked by consignee."	Numbers	1.00	20771.90	20771.90
51	51	"Supply of Hand Held True RMS smart leakage Clamp Meter of Rishabh ALCT-60A or Similar/ sipirior as per Technical Spec. -TS-2. Inspection : Consignee. The Functionality test of the Multimeter has to be checked by consignee."	Numbers	1.00	26698.89	26698.89
52	52	"Supply of round up chemical for deweeding. Brand : Salimar or Superior. Inspection : Consignee "	Litre	30.00	667.13	20013.90
53	53	"WRITING LETTER ON SIGNALLING GEARS WITH SYNTHETIC ENAMEL PAINT OF ANY APPROVED COLOUR, MAKE AND BRAND, SIZE OF LETTER (ALL THE REQUIRED MATERIALS TO BE SUPPLIED BY THE CONTRACTOR). LETTER SIZE - 75 MM TO 125 MM. "	Numbers	10000.00	11.31	113100.00

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54	54	"Supply of Orange coloured DWC (DOUBLE WALL CORRUGATED) PIPE As per IS-16205 Part - II DWC Pipes, SIZE::75mm OUTER DIA AND 60mm INNER DIA, LENGTH : 6 METER EACH PIPE. DWC HDPE PIPE, MAKE: DUTRON or JINDAL or GEMINI PIPES or Superior. (Warranty Period : Upto 30 months from the date of supply) Inspection : Consignee"	Metre	200.00	73.50	14700.00
55	55	"LOADING , UNLOADING AND TRANSPORTATION OF MATERIALS INCLUDING CABLES, LOCATION BOXES AND MISCELLANEOUS / RELEASED ITEMS REQUIRED FROM VARIOUS PLACES IN 9 MT TRUCK TO THE RAILWAY STORE AS PER SITE ENGINEER. A) TRANSPORTATION "	Kilometre	98.00	44.97	4407.06
56	56	"LOADING , UNLOADING AND TRANSPORTATION OF MATERIALS INCLUDING CABLES, LOCATION BOXES AND MISCELLANEOUS/RELEASED ITEMS REQUIRED FROM VARIOUS PLACES IN 9 MT TRUCK TO THE RAILWAY STORE AS PER SITE. B) LOADING AND UNLOADING"	Per Trip	4.00	2008.20	8032.80
57	57	"DURING THE BLOCK WORKING PERIOD OF ANY DEPARTMENT, DISMANTLING / REFIXING / SHIFTING AND OTHER ALLIED WORK OF SIGNALLING EQUIPMENTS LIKE CABLE/ TLJB/ POINT MACHINE/ GROUND FITTINGS/ POINT JB/ AXLE COUNTER TRACK DEVICE, L.C. GATE, AND OTHER MISCELLANEOUS WORKS TO BE EXECUTED. THIS JOB INCLUDES COST OF RELEASING OF SIGNALLING EQUIPMENTS, GEARS & DEVICES AND RECONNECTION OF THE SAME AFTER THE WORK. THIS WORK TO BE EXECUTED AT ANY TIME OF DAY / NIGHT AS PER THE INSTRUCTION OF RAILWAY SITE ENGINEER(S). 1 ELECTRICAL WIRE MAN, 2 FITTER & 1 KHALASIS/ HELPERS TO BE PROVIDED PER DAY AS ONE(1) GANG FOR THIS JOB. Note: Mandays in unit column indicates Per Day/Per Night"	Man-Days	20.00	3308.00	66160.00
					Total	5607300.12
Schedule	Schedule C-18% GST on total items of Schedule-A & Schedule-B. Details has been shown in item breakup.					
Item- 1	18% GST on total items of Schedule-A & Schedule-B.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	18% GST on total items of Schedule-A & Schedule-B.	Lumpsum	1.00	1232981.29	1232981.29
					Total	1232981.29

4. ELIGIBILITY CONDITIONS

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less; where V= Advertised value of the tender in crores of Rupees, N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIB of GCC 2022 (Form-6 of the instant tender document), along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet.	No	No	Allowed (Mandatory)
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Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: (i) Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or (ii) Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or (iii) One similar work costing not less than the amount equal to 60% of advertised value of the tender. Note:- Similar nature of work - "Supply, Installation & Commissioning of Data Logger or RTUs OR Any Signal Interlocking Works involving EI OR RRI or PI OR IBS OR IBH OR LC Gate Interlocking OR Yard Modification OR UFSBI OR Track Circuit (AFTC OR DC TC) OR Axle Counter (SSDAC OR MSDAC OR HA-SSDAC)OR Automatic Signalling". to be considered as similar nature of work for the instant tender 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

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(LLP) etc.

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

5. COMPLIANCE

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The participant tenderers are requested to submit the following general information:- (i) The list of personnel / organization on hand and proposed to be engaged for the tendered work vide Annexure - AI. (ii) List of Plant & Machinery available on hand and proposed to be inducted and hired for the tendered work vide Annexure - AII. (iii) List of works carried out in the past vide Annexure-AIII. (Note :- Certificates and testimonials regarding contracting experience for the type of job for which tender is invited along with certificates which may be an attested Certificate from the client, Audited Balance Sheet duly certified by the Chartered Accountant etc regarding contractual payments received in the past, please be submitted along with the offer). (iv) Details of work with the tenderer presently on hand vide Annexure - AIV. (v) Declaration regarding association of Railway Officers/Engineers with the tenderer vide Annexure-AV. (vi) List of court cases of the tenderer during last five years vide Annexure - AVI. (vii) List of arbitration cases of the tenderer during last five years vide Annexure - AVII. (viii) The participant tenderer should upload the tender document (1st sheet & 2nd sheet duly filled in and signed).	No	No	Allowed (Mandatory)
2	(i) A copy of document verification certificate stating that they are not liable to be disqualified and all their statements/documents submitted along with bid are true and factual. Standard format of the certificate mandatorily to be submitted by the bidder is enclosed as Annexure- B (Annexure-V of GCC) in the tender document. NOTE:- Non submission of a copy of certificate duly filled and signed vide Annexure-B of tender document/online submission of Annexure-V of GCC in IREPS by the bidder shall result in summarily rejection of his/their bid . (ii) Format for another document verification certificate mandatorily to be submitted/ uploaded by attorney/authorized signatory/each member of a Partnership Firm / Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. as the case may be vide Annexure-D in tender document/ prescribed format available in IREPS (Annexure-VA of GCC). Note: Non submission of a copy of certificate duly filled and signed (vide Annexure- D in the tender document/Annexure-VA of GCC) by the bidder as stated in tender document/IREPS shall result in summarily rejection of his/their bid.	No	No	Allowed (Mandatory)
3	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Make in India Policy:- Provisions of Make in India Policy 2017 issued by Govt. of India, as amended from time to time, shall be followed for consideration of tenders.	No	No	Not Allowed

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2	The terms and conditions in details along with additional information relating to this e-Tender, the tender document uploaded herewith is to be referred.	No	No	Not Allowed
3	The firm should read the various conditions to tender document attached hereto and agree to abide by the said conditions.	No	No	Not Allowed
4	The provision of General Condition of Contract (G.C.C. April-2022 with upto date correction slips) for works as amended from time to time, will govern this contract and the firm should agree to abide by the Indian Railway's said standard General Conditions of Contract.	No	No	Not Allowed
5	Once the tender is awarded, none of these aspects can be denied or disputed under any circumstances, otherwise necessary action will be taken as per terms & conditions of the Tender. All the installation item should be installed only by OEMs or OEM authorized Firm.	No	No	Not Allowed
6	Warranty/ Guarantee of 30 months shall be ensured for schedule item no. 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 36, 37, 38, 39, 40, 41 & 54 of Schedule 'B' from the date of supply of materials to the railway store. Twelve Months Warranty/ Guarantee shall be ensured for all rest of the schedule items for supply and workmanship from the date of completion of the work. During the guarantee period the contractor shall be responsible for any repairs/ replacement of any defective installation free of cost.	No	No	Not Allowed
7	For any further queries, you can mail to our official mail ID: sdahsignal@gmail.com	No	No	Not Allowed

Custom

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer shall clearly specify whether the tender is submitted on his own (Proprietary Firm) or on behalf of a Partnership Firm / Registered Company etc. The tenderer(s) shall enclose the attested copies of the constitution of their concern (Trade License, Notarized/Registered Partnership Deed, Memorandum of Association and Article of Association, Certificate of Incorporation, Memorandum of Understanding etc. as applicable for the firm, to be submitted along with the offer. Note:- Detail in this regard has been mentioned in the tender document).	No	No	Allowed (Mandatory)
2	Copy of PAN Card and GST of the participant firm should also be uploaded along with the tender offer.	No	No	Allowed (Mandatory)
3	A copy of authorization/ Power of Attorney issued by the company/partnership firm etc. (backed by the resolution of Board of Directors/partners etc.) in favour of the individual to sign the tender documents both manually and digitally on behalf of the company / firm and create liability against the company/firm to be submitted. The power of attorney should duly be stamped and authenticated by a Notary Public or by Magistrate.	No	No	Allowed (Mandatory)
4	An undertaking to be submitted stating that the firm is not black listed or debarred etc. vide Annexure-E.	No	No	Allowed (Mandatory)

6. Documents attached with tender

S.No.	Document Name	Document Description
1	BID-DOC-SDSTE-Sig-T-04-26-27-RRSK.pdf	Tender Document
2	DrgforconcretizationofPlatform.pdf	Drg for concretization of Platform
3	DrgofCableclampassembly.pdf	Drg of Cable clamp assembly
4	DrgofFencing.pdf	Drg of Fencing
5	GCCApril2022.pdf	GCC April 2022
6	GCCCorrectionSlipNo1to11.pdf	GCC Correction Slip No1 to 11

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017,

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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: HIMADRI SEKHAR ROY

Designation : DSTE/BT