

**MUMBAI-CST-DIVISION-S AND T/CENTRAL RLY
TENDER DOCUMENT**

Tender No: CR-BB-SNT-NORTH-2026-72

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

Sr.DSTE/Co acting for and on behalf of The President of India invites E-Tenders against Tender No **CR-BB-SNT-NORTH-2026-72** Closing Date/Time 15/07/2026 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	Provision of Double /Second Distant signalling arrangement in KSARA-TITOLI section(18Km section) consisting of North East Ghats in Kalyan-Titoli section(A Route) of Mumbai Division & Provision of balance indoor & outdoor signalling works in connection with Electronic interlocked station at Titoli station on HDN route of Mumbai division, where Kavach is sanctioned.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	15/07/2026 15:00	Date Time Of Uploading Tender	17/06/2026 12:51
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	114776667.89	Tendering Section	NORTH
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	2295500.00	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	01/07/2026		
Are JV allowed to bid	Yes	Number of JV Member Allowed	3
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A1-SUPPLY							8062891.62	Above/ Below/Par
01	011070	2.00	Set	30325.00	60650.00	18.00	71567.00	
	Description:- Supply of Relay rack assembly complete with scaffolding, fixtures and accessories including MS Bars for fixing of relay plug board, string rods, fuse strips with bracket, 11 way Bus bars with cover and mounting brackets, runway for cable/wires, frame, base assembly etc. Siemens type & as per extant practice on C.Rly. Typical part list as per Annexure-II and Rack arrangement as per sketch no SK-727 and Rack plan as approved by Engineer in charge.							
02	011270	1.00	Kilometre	39345.00	39345.00	18.00	46427.10	
	Description:- Supply of PVC flexible copper cable single core, multistrand 1x2.5 Sq.mm (50 conductor each diameter 0.25 +/- 0.01) as per IS 694/2010. with latest amendment if any with insulation thickness of 0.70 mm nominal conductor resistance 7.98 ohms/km and test parameters are as per IRS (S) 76/89 (Amd.3)or latest.							
03	011280	1.00	Kilometre	76141.00	76141.00	18.00	89846.38	
	Description:- Supply of PVC flexible copper cable single core, multistrand 1x6 Sq.mm (84 conductor each diameter 0.30 +/- 0.01) as per IS 694/2010. with latest amendment if any with insulation thickness of 0.80 mm nominal conductor resistance 3.30 ohms/km and test parameters are as per IRS (S) 76/89 (Amd.3)or latest.							
04	011290	1.00	Kilometre	119222.00	119222.00	18.00	140681.96	
	Description:- Supply of PVC flexible copper cable single core, multistrand 1x10 Sq.mm (80 conductor each diameter 0.40 +/- 0.01) as per IS 694/2010. with latest amendment if any with insulation thickness of 1.0 mm nominal conductor resistance 1.91 ohms/km and test parameters are as per IRS (S) 76/89 (Amd.3)or latest.							
	011300	2.00	Kilometre	177112.00	354224.00	18.00	417984.32	

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05	Description:- Supply of PVC flexible copper cable single core, multistrand 1x16 Sq.mm (126 conductor each diameter 0.40 +/- 0.01) as per IS 2465/1984 & IS: 694/2010. with latest amendment if any with insulation thickness of 1.0mm nominal conductor resistance 1.121 ohms/km and test parameters are as per IRS (S) 76/89 (Amd.3) or latest.						
06	011310	2.00	Kilometre	279653.00	559306.00	18.00	659981.08
	Description:- Supply of PVC flexible copper cable single core, multistrand 1x25 Sq.mm (196 conductor each diameter 0.40 +/- 0.01) as per IS 2465/1984 & IS: 694/2010. with latest amendment if any with insulation thickness of 1.2mm nominal conductor resistance 0.780 ohms/km and test parameters are as per IRS (S) 76/89 (Amd.3) or latest.						
07	011320	5.00	Kilometre	5605.00	28025.00	18.00	33069.50
	Description:- Supply of wire 16/0.2 (Blue, Red, Grey, yellow, Brown, Black, White as per site engineer instruction) finolex/polycab/delton make. IRS:S-76/89 (Amd.3), BS: 4808 Part-2. Wire to be procured from RDSO approved vender.						
08	011580	14.00	Set	24091.00	337274.00	18.00	397983.32
	Description:- Supply of Automatic changeover for individual supply. Automatic changeover unit of signal / Track / DC circuit supply of 32A, AC/DC consisting of 3TC44 contractors, LED Lamp, Push button, terminals, VSR, polarity switches. As per Rly. Drg.-SK-841/1-5 for IPS supply to manual discrete equipments with P/switch.						
09	011600	2.00	Set	41418.00	82836.00	18.00	97746.48
	Description:- Supply of Automatic changeover for individual supply. Automatic changeover unit of signal / Track supply of 70A, consisting of 3TC47 contractors, LED Lamp, Push button, terminals, VSR, polarity switches. As per Rly. Drg.-SK-841/1-5 for IPS supply to manual discrete equipments with P/switch.						
10	011630	16.00	Numbers	6422.00	102752.00	18.00	121247.36
	Description:- Supply of 63 A rating, 4 pole change-over switch disconnecter with dual shaft position & staggered terminals with sheet steel enclosure and extended handle of Siemens/L & T / HAVELLS/LEGRAND make.						
11	011870	50.00	Numbers	3359.00	167950.00	18.00	198181.00
	Description:- Supply of QNA1 AC immunized relay, 8F-8B, 24 VDC along with plug, board, retaining clip and connectors conforming to BRS:931A, IRS:S60/78 with Amendment no.1 , IRS:S34/68 with Amendment no.6 & IRS:S23/88 with Amendment no.1						
12	011880	50.00	Numbers	3507.00	175350.00	18.00	206913.00
	Description:- Supply of QN1 Non AC immunized neutral relay, 8F-8B, 24 VDC along with plug, board, retaining clip and connectors conforming to BRS:930, IRS:S60/78 with Amendment no.1 , IRS:S34/68 with Amendment no.6 & IRS:S23/88 with Amendment no.1						
13	011900	40.00	Numbers	5322.00	212880.00	18.00	251198.40
	Description:- Supply of QNN1 Twin neutral line relay, 24 V DC 4F- 4B/5F-3B/6F-2B contacts, complete with plug, board, retaining clip and connectors BRS:960						
14	012400	20.00	Each Module	23147.00	462940.00	18.00	546269.20
	Description:- Design, fabrication and supply of fuse Auto changeover system for 32 Nos external non detorating type fuses or 'G' type fuses from 0.6A Amp to 4A Amp capacities used in signaling circuits. System shall have 8 cards with monitoring arrangement of 4 fuses in one card. As per RDSO spec. RDSO/SPN/209/2012 Ver.2.0 or latest amendment if any.						
15	012410	20.00	Each Module	33712.00	674240.00	18.00	795603.20
	Description:- Design, fabrication and supply of fuse Auto changeover system for 24 Nos external non detorating type fuses or 'G' type fuses from 4 A to 10 Amp capacities generally used for point operation circuits. System shall have 6 cards with monitoring arrangement of 4 fuses in one card. As per RDSO spec. RDSO/SPN/209/2012 Ver.2.0 or latest amendment if any.						
16	012660	20.00	Numbers	4649.00	92980.00	18.00	109716.40
	Description:- Supply of Phenolic 10mm thick sheet, grade P3 in standard size of 1.22x1.22 Mtr as per spec. No. IS 2036 of 1995.						
17	012680	1500.00	Numbers	65.00	97500.00	18.00	115050.00
	Description:- Supply of ARA Terminal blocks with links made of PBT Specn No.IRS/75/2006 (Rev - 2) with latest amendments and RDSO Drg.No.SA-23741A Alt.4., SA-23745 Alt.5, SA-23746, SA-23748 Alt.4, & SA-23756 Alt.3.						
18	012710	20.00	Numbers	30.00	600.00	18.00	708.00
	Description:- Supply of Tik-tak, piano type switches, 5 A (as per IS Specification).						
19	012720	20.00	Numbers	205.00	4100.00	18.00	4838.00
	Description:- Supply of three pole plug and socket 5 Amp (as per IS Specification).						
	012850	130.00	Set	15671.00	2037230.00	18.00	2403931.40

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20	Description:- Maintenance Free Earth as per RDSO/SPN/197/2008 or latest consisting of : 1) Copper bond steel electrode 3 Mtr long 17mm dia with copper bonding thickness of min. 250micron & UL listed & marked-01 No. (2) Earth enhancement compound RDSO Approved in sealed bag of 10 kgs - 03 No. (3) Copper strip 150 x 25 x 6mm - 02 No (4) Copper Strip 300 x 25 x 6mm- 01 No (5) 35 Sqmm Copper Cable to connect earth electrode to MEEB - 15Mtr Approx.							
21	012860	130.00	Metre	365.00	47450.00	18.00	55991.00	
	Description:- Supply of 35 Sq. mm. multistrand single core PVC insulated copper for connecting earth bus bar to earth electrode.							
22	013130	200.00	Numbers	2387.00	477400.00	18.00	563332.00	
	Description:- SUPPLY of Electronic timers for DAC reset arrangement 3 sec to 30 sec with 2NO/2NC contact working voltage 24V/60V DC. Siemens/ABB/L&T or SELEC(642X A programmable electronic timer switch) make.							
23	013220	50.00	Numbers	761.00	38050.00	18.00	44899.00	
	Description:- Supply of Point Machine Raised Bracket FRP make with cover as per drg no. SK-846.							
24	013240	288.00	Metre	288.00	82944.00	18.00	97873.92	
	Description:- Supply of DWC HDPE pipe with one snap fit coupler and 'O' ring fire resistant, anti rodent, in 6 meter length of size 120 mm outer dia as per RDSO/SPN/204/2011 Ver 1.1 with Amd.1 or latest.							
25	013460	200.00	Numbers	287.00	57400.00	18.00	67732.00	
	Description:- Supply of cable route marker as per RST/C/203A of FRP							
26	013900	5.00	Kilometre	63534.00	317670.00	18.00	374850.60	
	Description:- Supply of Permanently Lubricated HDPE Telecom duct of size 50/42 mm and accessories as per latest Specification TEC GR No. GR/TX/CDS-008/03March 11 with latest amendment" for OFC cable of size 24 fibre armoured in length of 1000 mtr/roll. Duct to be supplied from TEC approved sources.							
27	014010	1000.00	Metre	24.00	24000.00	18.00	28320.00	
	Description:- Supply of PVC flexible wire size 30/0.25 mm annealed copper conductor as per IS 694:1990 of Finolex make or similar for connecting Opto coupler box to signal transformer fixed inside unit/location box as per C. Rly Drg. No.RST-11545 in different colours of Green. Yellow, Red, White, Blue, Black & Grey.							
28	014020	40.00	Numbers	168.00	6720.00	18.00	7929.60	
	Description:- Supply of GI reducer of size 40 mm / 20 mm as per IS 1239 PT.1 / 2004 or latest medium class for installation of AWS.							
29	014030	40.00	Numbers	67.00	2680.00	18.00	3162.40	
	Description:- Supply of Stainless steel clamps of SS-304 type and size B for fixing Neoprene rubber tube on reducer & six pin coupler of track magnet and PVC conduit pipe with glands fixing on signal post & Optocoupler box as per C.Rly.Drg.No.RDS: 11545.							
30	014040	40.00	Numbers	39.00	1560.00	18.00	1840.80	
	Description:- Supply of coupler lugs of various size of Dowell's make or similar for terminating cable conductors inside opto coupler boxes, junction boxes and on signal transformer for installation of AWS as per C.Rly. Drg.No.RDS: 11545.							
31	014050	40.00	Numbers	111.00	4440.00	18.00	5239.20	
	Description:- Supply of Brass Gromet of suitable size for taking out wires from signal comet make 2125 & 2118 or similar.							
32	014060	100.00	Metre	871.00	87100.00	18.00	102778.00	
	Description:- Supply of Neoprene Rubber pipe of suitable size for taking 7 core cable from reducer to six pin coupler of track magnet for installation of AWS.							
S.No.								Item Code
Item Qty								Qty Unit
Unit Rate								Basic Value
Escl.(%)								Amount
Bidding Unit								
Schedule () A2-SOR ITEM								16420016.24
Above/ Below/P ar								
01	011070	5.00	Set	30325.00	151625.00	18.00	178917.50	
	Description:- Supply of Relay rack assembly complete with scaffolding, fixtures and accessories including MS Bars for fixing of relay plug board, string rods, fuse strips with bracket, 11 way Bus bars with cover and mounting brackets, runway for cable/wires, frame, base assembly etc. Siemens type & as per extant practice on C.Rly. Typical part list as per Annexure-II and Rack arrangement as per sketch no SK-727 and Rack plan as approved by Engineer in charge.							
02	011080	20.00	Numbers	1217.00	24340.00	18.00	28721.20	
	Description:- Supply of Tag blocks 200/160/120 way with polycarbonate cover as per IRS S 77-2006.(Rev.1) RDSO DRG. No.SA 24751, SA 24752 & SA 24753. Requirement of each type shall be specified by Engineer-in-charge.							

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03	011090	10.00	Numbers	1391.00	13910.00	18.00	16413.80	
	Description:- Supply of tag blocks 96/100 way with polycarbonate cover as per IRS S 77-2006. (Rev.1) Requirement of each type shall be specified by Engineer-in-charge.							
04	011100	5.00	Set	26006.00	130030.00	18.00	153435.40	
	Description:- Supply of Main cable Termination rack complete with scaffolding, fixtures & accessories including square bars for mounting 8-way terminal blocks, ladder, string rods, frame, base assembly, insulators, J bolt , nut/bolts & fasteners, bakelite sheet, etc. Siemens type and as per extant practice of Central Railway. Typical part list as per Annexure-III and rack arrangement shall be as per sketch No.SK-727 with latest alterations.							
05	011120	2.00	Set	572233.00	1144466.00	18.00	1350469.88	
	Description:- Supply of Data logger for monitoring status of important relays, complete with processor Module to monitor following inputs as per spec. RDSO/SPN/99/2006 Spec. No: IRS:S-99/2006 (Amdt-3) with latest amendments including power supply of adequate capacity, battery and fault diagnostic software for failure analysis. Complete data logger & Processor Module (computer) as per Annexure-IV shall be placed in President rack of suitable size to be supplied. This also includes supply of one no. composite computer & printer table (work station table-Godrej/Durian/Transteele) for keeping processor module and one no. Godrej/Durian/Transteele make operator chair. i)1024 digital and 32 analog inputs.							
06	011220	2.00	Kilometre	260430.00	520860.00	18.00	614614.80	
	Description:- Supply of PVC Indoor cable 1x60x0.6mm dia color coding of insulation of inner core shall be in six color viz Blue, Red, Grey, Green,Brown & Black conforming to IRS 76/89 (Amd.3) or latest.							
07	011230	2.00	Kilometre	170848.00	341696.00	18.00	403201.28	
	Description:- Supply of PVC Indoor cable 1x40x0.6mm dia color coding of insulation of inner core shall be in eight color viz Blue, Red, Grey, Green, Brown, Black, Yellow & White conforming to IRS 76/89 (Amd.3) or latest.							
08	011240	2.00	Kilometre	246408.00	492816.00	18.00	581522.88	
	Description:- Supply of PVC indoor cable 1x24x1 mm dia. Color coding of insulation of Inner conductor shall be in eight colour viz, Blue, Red, Grey, Green, Brown, Black, Yellow & white conforming to IRS 76/89 (Amd. 3) or latest.							
09	011250	5.00	Kilometre	7770.00	38850.00	18.00	45843.00	
	Description:- Supply of Indoor Jumper wire of various colour as per Railways standard practice of type ATC 1x0.6 mm dia. Conforming to IRS/76/89 (Amd.3) of latest.							
10	011260	5.00	Kilometre	11585.00	57925.00	18.00	68351.50	
	Description:- Supply of Indoor Jumper wire ATC 1x1 mm dia. Conforming to IRS/76/89 (Amd.3) of latest.							
11	011270	1.00	Kilometre	39345.00	39345.00	18.00	46427.10	
	Description:- Supply of PVC flexible copper cable single core, multistrand 1x2.5 Sq.mm (50 conductor each diameter 0.25 +/- 0.01) as per IS 694/2010. with latest amendment if any with insulation thickness of 0.70 mm nominal conductor resistance 7.98 ohms/km and test parameters are as per IRS (S) 76/89 (Amd.3)or latest.							
12	011280	1.00	Kilometre	76141.00	76141.00	18.00	89846.38	
	Description:- Supply of PVC flexible copper cable single core, multistrand 1x6 Sq.mm (84 conductor each diameter 0.30 +/- 0.01) as per IS 694/2010. with latest amendment if any with insulation thickness of 0.80 mm nominal conductor resistance 3.30 ohms/km and test parameters are as per IRS (S) 76/89 (Amd.3)or latest.							
13	011290	1.00	Kilometre	119222.00	119222.00	18.00	140681.96	
	Description:- Supply of PVC flexible copper cable single core, multistrand 1x10 Sq.mm (80 conductor each diameter 0.40 +/- 0.01) as per IS 694/2010. with latest amendment if any with insulation thickness of 1.0 mm nominal conductor resistance 1.91 ohms/km and test parameters are as per IRS (S) 76/89 (Amd.3)or latest.							
14	011310	1.00	Kilometre	279653.00	279653.00	18.00	329990.54	
	Description:- Supply of PVC flexible copper cable single core, multistrand 1x25 Sq.mm (196 conductor each diameter 0.40 +/- 0.01) as per IS 2465/1984 & IS: 694/2010. with latest amendment if any with insulation thickness of 1.2mm nominal conductor resistance 0.780 ohms/km and test parameters are as per IRS (S) 76/89 (Amd.3)or latest.							
15	011320	10.00	Kilometre	5605.00	56050.00	18.00	66139.00	
	Description:- Supply of wire 16/0.2 (Blue, Red, Grey, yellow, Brown, Black, White as per site engineer instruction) finolex/polycab/delton make. IRS:S-76/89 (Amd.3), BS: 4808 Part-2. Wire to be procured from RDSO approved vender.							
16	011340	120.00	Numbers	3755.00	450600.00	18.00	531708.00	
	Description:- Sealed maintenance free VRLA Battery/Cell 2 volt, 300AH IRS: S-93/96 (A) (Amd.1) or latest.							

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17	011350	120.00	Numbers	2611.00	313320.00	18.00	369717.60	
	Description:- Sealed maintenance free VRLA Battery/Cell 2 volt, 200AH RDSO SPN/93/96 (A) (Amd.1) or latest.							
18	011370	10.00	Numbers	6323.00	63230.00	18.00	74611.40	
	Description:- Supply of Program switches with acrylic cover, snap action, base mounting type along with cover and mounting bracket 25A-7 pole 3 position Siemens (3 LAO-25/7Y)/ L&T/HEVELS type. Drg. No.RST.C.106.							
19	011390	5.00	Numbers	6571.00	32855.00	18.00	38768.90	
	Description:- Supply of Transformer 230V/110V-130V Single phase 1 KVA as per spec. IRS S-72/88 (Amd.2) with latest amendments.							
20	011400	5.00	Numbers	8945.00	44725.00	18.00	52775.50	
	Description:- Supply of Transformer 230V/110V-130V Single phase 2 KVA as per spec. IRS S-72/88 (Amd.2) with latest amendments.							
21	011450	5.00	Numbers	42232.00	211160.00	18.00	249168.80	
	Description:- Supply of Battery charger self regulating floor mounting type with 230 V AC single phase input and output 60 V DC, 20 A as per spec.IRS.S.86/2000 (Amd.4) with latest amendments.							
22	011530	10.00	Numbers	32155.00	321550.00	18.00	379429.00	
	Description:- Supply of Battery charger self regulating floor mounting type with 230 V AC single phase input and output 24 V DC, 20 A as per spec.IRS.S.86/2000 with latest amendment for Axle counter application (Amd.4)							
23	011550	90.00	Kg	112.00	10080.00	18.00	11894.40	
	Description:- Supply of Rubber Mat 5mm thick for use in signaling installation.							
24	011650	20.00	Numbers	654.00	13080.00	18.00	15434.40	
	Description:- Relay base plate complete with amphanol's, code pins, fixing screws etc. suitable for Metal to Metal K-50 mini groups/ECRs of Siemens Make or functional equivalent of other makes.Note : Relay Base plates, are to be procured from Relay manufacturer (OEM). Manufacturer's Certificate for procurement and guarantee in this regard should be furnished. The payment to be released only after Manufacturer's Certificate is submitted.							
25	011660	10.00	Numbers	11864.00	118640.00	18.00	139995.20	
	Description:- Major Relay Group Base Plates, complete with fedlisters (20 No per base plate), guide rails and other accessories suitable for major group of Siemens make or functional equivalent of other makes.Note : Relay Base plates, are to be procured from Relay manufacturer (OEM). Manufacturer's Certificate for procurement and guarantee in this regard should be furnished. The payment to be released only after Manufacturer's Certificate is submitted.							
26	011690	10.00	Numbers	49131.00	491310.00	18.00	579745.80	
	Description:- Supply of signal group 3 aspect without base plate Siemens make (No.A-RT-RG-A067) or functional equivalent and should be suitable for working with LED based signal lighting unit.							
27	011790	20.00	Numbers	7355.00	147100.00	18.00	173578.00	
	Description:- Supply of Plug In type Relay Metal to Metal type neutral relay mini groups (AC Immunised-1) Siemens make (No.RSSK 30/0078-1) (Ref.IRS:S46/74 with Amd.1 & firms specification). or functional equivalent without base plates. Contact configuration 5F/3B or 6F/2B or 4F/4B to be specified by Engineer incharge.							
28	011830	20.00	Numbers	5859.00	117180.00	18.00	138272.40	
	Description:- Supply of Metal - To - Metal universal LED type ECR Siemens make (type A-RT-RG-A064) or functional equivalent without base plates, should be suitable for working with LED based signal lighting unit. IRS:S 46/74 with Amd. 1 & STS/E/RELAYS/AC LIT LED SIGNAL/09-2002 Amd.1							
29	011870	20.00	Numbers	3359.00	67180.00	18.00	79272.40	
	Description:- Supply of QNA1 AC immunized relay, 8F-8B, 24 VDC along with plug, board, retaining clip and connectors conforming to BRS:931A,IRS:S60/78 with Amendment no.1 , IRS:S34/68 with Amendment no.6 & IRS:S23/88 with Amendment no.1							
30	011940	20.00	Numbers	3317.00	66340.00	18.00	78281.20	
	Description:- Supply of Universal LED Lamp proving relay QECX61 relay, 4F-4B, AC conforming to BRS:941A STS/E/RELAYS/AC LIT LED SIGNAL/09-2002, Amdt.-1 (FOR ALL ASPECT ECR FOR AC LED SIGNAL)							
31	012260	500.00	Numbers	70.00	35000.00	18.00	41300.00	
	Description:- Supply of INDICATIVE TYPE OF FUSE INSERTS. IRS S:-78-92 With holder 1.6 A (System, Rapid or Malnad Make).							
32	012270	500.00	Numbers	68.00	34000.00	18.00	40120.00	
	Description:- Supply of INDICATIVE TYPE OF FUSE INSERTS. IRS S:-78-92 With holder 0.6 A (System, Rapid or Malnad Make).							
33	012280	500.00	Numbers	230.00	115000.00	18.00	135700.00	

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	Description:- Supply of INDICATIVE TYPE OF FUSE INSERTS. IRS S:-78-92 With holder 6 A/10A (D-Type Bharat Linder, L&T or HEVELLS Make).						
34	012290	500.00	Numbers	20.00	10000.00	18.00	11800.00
	Description:- Supply of INDICATIVE TYPE OF FUSE INSERTS. IRS S:-78-92 Without holder 1.6 A (System, Rapid or Malnad Make).						
35	012300	500.00	Numbers	20.00	10000.00	18.00	11800.00
	Description:- Supply of INDICATIVE TYPE OF FUSE INSERTS. IRS S:-78-92 Without holder 0.6 A (System, Rapid or Malnad Make).						
36	012310	500.00	Numbers	82.00	41000.00	18.00	48380.00
	Description:- Supply of INDICATIVE TYPE OF FUSE INSERTS. IRS S:-78-92 Without holder 6 A/10A (D-Type Bharat Linder, L&T or HEVELLS Make).						
37	012360	5.00	Lot	46725.00	233625.00	18.00	275677.50
	Description:- Supply of Resistors, condensers, Diodes, LEDs and lugs alongwith bracket and mounting arrangement as per standard Annexure-V of Central Railway.						
38	012370	100.00	Kg	1078.00	107800.00	18.00	127204.00
	Description:- Resin cored wire as per specification No.IS:1921-1975 with Alloying element percentage as 63% SN (Tin) and / 37% Pb (Lead) with percentage of various impurities not exceeding the values Sb (Antimony 0.2% maximum, Cu (Copper) 0.1% maximum, As (Arsenic) 0.05% maximum, Fe (Iron) 0.02% maximum & other impurities mainly Al, Zn & Cd shall be limited. The flux shall be free from corrosive action as per clause 5.2 & flux percentage may be used as per requirement.						
39	012380	500.00	Numbers	57.00	28500.00	18.00	33630.00
	Description:- Lacing thread rolls, black, wax coated (100 mtrs)						
40	012390	6.00	Sqm	6084.00	36504.00	18.00	43074.72
	Description:- Fabrication and supply of Boar made of White sunmica sheet over 12 mm thick particle/Laminated/wooden board covered with 5mm thick perspex transparent sheet in aluminium/steel frame and painting of SWR / Track insulation plan etc.						
41	012400	10.00	Each Module	23147.00	231470.00	18.00	273134.60
	Description:- Design, fabrication and supply of fuse Auto changeover system for 32 Nos external non deteriorating type fuses or 'G' type fuses from 0.6A Amp to 4A Amp capacities used in signaling circuits. System shall have 8 cards with monitoring arrangement of 4 fuses in one card. As per RDSO spec. RDSO/SPN/209/2012 Ver.2.0 or latest amendment if any.						
42	012410	10.00	Each Module	33712.00	337120.00	18.00	397801.60
	Description:- Design, fabrication and supply of fuse Auto changeover system for 24 Nos external non deteriorating type fuses or 'G' type fuses from 4 A to 10 Amp capacities generally used for point operation circuits. System shall have 6 cards with monitoring arrangement of 4 fuses in one card. As per RDSO spec. RDSO/SPN/209/2012 Ver.2.0 or latest amendment if any.						
43	012440	5.00	Numbers	5979.00	29895.00	18.00	35276.10
	Description:- Supply of Main signal post 140 mm outer dia 4.6 Mtr Length as per spec No.IRS S 6/81 with latest amendments.						
44	012450	10.00	Numbers	8119.00	81190.00	18.00	95804.20
	Description:- Supply of Main signal post 140 mm outer dia 5.6 Mtr Length as per spec No.IRS S 6/81 with latest amendments.						
45	012470	15.00	Numbers	7944.00	119160.00	18.00	140608.80
	Description:- Supply of Cast Iron Main signal surface base 140mm as per spec No IRS: S-10 and Drg No 2011/M with latest amendments, with CLS Ladder assembly complete for CLS signal 5.5/4.5/3.5 mtrs long as per RDSO Drg no. SA 23156 (Adv), SA 23153 (Adv) & SA 23150 (Adv) Alt.1 respectively with Latest Amendment as the case may be for CLS unit & signal back staging as per extent C.Rly practice.						
46	012490	15.00	Numbers	447.00	6705.00	18.00	7911.90
	Description:- Supply of Signal No.Plates as per Drg No RST-11393/ SK-842						
47	012520	15.00	Numbers	476.00	7140.00	18.00	8425.20
	Description:- Supply of A/AG/C/P/G/IB Board as per Drg. RST-11444/1(A), RDSO Drg No SA-23460(AG), SA-23461(C) , RST-11445, SA 23456(P), SA 23477(G) & SA 23476-77 (IB) as applicable respectively with Latest Amendment.						
48	012550	100.00	Numbers	245.00	24500.00	18.00	28910.00
	Description:- Supply of Hand Cuff Locks / Godrej Navtal lock with Three common keys.						
49	012570	15.00	Numbers	26638.00	399570.00	18.00	471492.60

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47	Description:- Supply of "3 aspect" Signal Unit in FRP body without lenses and transformers as per RDSO Specification RDSO/SPN/194/2006/Rev.2.0 or latest complete and to suit LED signal Lamps and suitable for 140 mm dia post saves pigment finish on the back side of the and inside. white pigment finish inside the 4 aspect unit to avoid any extra paint cost						
50	012650	10.00	Numbers	4381.00	43810.00	18.00	51695.80
	Description:- Supply and Fixing of RE Protective Screens of expanded metal 12 SWG of size 1200 x 1500 mm on signals as per extent practice & as per instruction of Rly engineer at site DRG - No.SK-844						
51	012660	30.00	Numbers	4649.00	139470.00	18.00	164574.60
	Description:- Supply of Phenolic 10mm thick sheet, grade P3 in standard size of 1.22x1.22 Mtr as per spec. No. IS 2036 of 1995.						
52	012670	30.00	Numbers	5065.00	151950.00	18.00	179301.00
	Description:- Supply of FIBRE GLASS INSULATING FIRE RETARDENT SHEET OF 10 MM THICKNESS AS PER ISO: 10192-1982, Dielectric strength -25KV/mm with glass content 25 to 34% in standard size of 1.10x1.10 Mtr as per spec. No.IS:10192-1982						
53	012680	5000.00	Numbers	65.00	325000.00	18.00	383500.00
	Description:- Supply of ARA Terminal blocks with links made of PBT Specn No.IRS/75/2006 (Rev - 2) with latest amendments and RDSO Drg.No.SA-23741A Alt.4., SA-23745 Alt.5, SA-23746, SA-23748 Alt.4, & SA-23756 Alt.3.						
54	012690	100.00	Numbers	144.00	14400.00	18.00	16992.00
	Description:- Supply of cartridge fuse block made of PBT as per RDSO Drg No SA-23748 Alt 4, SA-23749 & Spec No.IRS S 75/2006 Rev.02 with latest amendment. Fuse block shall be suitable for round head type voltage fuses.						
55	012700	100.00	Numbers	62.00	6200.00	18.00	7316.00
	Description:- Supply of round head type non deteriorating type low voltage cartridge fuse as per specn No. IRS/S/78/92 with latest amendments - 2A/4A/6A capacity						
56	012710	100.00	Numbers	30.00	3000.00	18.00	3540.00
	Description:- Supply of Tik-tak, piano type switches, 5 A (as per IS Specification).						
57	012720	100.00	Numbers	205.00	20500.00	18.00	24190.00
	Description:- Supply of three pole plug and socket 5 Amp (as per IS Specification).						
58	012730	100.00	Numbers	20.00	2000.00	18.00	2360.00
	Description:- Supply of Lamp 110V / 24W, 2 pin for Loc.						
59	012750	30.00	Numbers	11287.00	338610.00	18.00	399559.80
	Description:- Supply of Apparatus case with godown locks with detachable handle on both the doors. b)Half Case as per Drg No SK 783-1 & 2. with latest alteration.						
60	012760	50.00	Numbers	951.00	47550.00	18.00	56109.00
	Description:- Supply of earth electrode assembly as per Drg.No.CR/S&T/SK-815						
61	012850	10.00	Set	15671.00	156710.00	18.00	184917.80
	Description:- Maintenance Free Earth as per RDSO/SPN/197/2008 or latest consisting of : 1) Copper bond steel electrode 3 Mtr long 17mm dia with copper bonding thickness of min. 250micron & UL listed & marked-01 No. (2) Earth enhancement compound RDSO Approved in sealed bag of 10 kgs - 03 No. (3) Copper strip 150 x 25 x 6mm - 02 No (4) Copper Strip 300 x 25 x 6mm- 01 No (5) 35 Sqmm Copper Cable to connect earth electrode to MEEB - 15Mtr Approx.						
62	012860	300.00	Metre	365.00	109500.00	18.00	129210.00
	Description:- Supply of 35 Sq. mm. multistrand single core PVC insulated copper for connecting earth bus bar to earth electrode.						
63	012870	250.00	Metre	711.00	177750.00	18.00	209745.00
	Description:- Supply of copper Tape 25x6 mm (Bonding ring conductor) mounted on insulated standoff (1 round).						
64	012880	300.00	Numbers	1181.00	354300.00	18.00	418074.00
	Description:- Supply of 300x25x6 mm Cu equipotential Bus Bar.						
65	012890	5.00	Numbers	118645.00	593225.00	18.00	700005.50
	Description:- Supply of Microprocessor based universal earth resistance sensing unit 12 channel AC/DC. As per RDSO/SPN/256/2002 with latest amendments.						
66	013230	1500.00	Metre	908.00	1362000.00	18.00	1607160.00
	Description:- Supply of GI pipe, inner dia. 100mm dia. B-class as per spec. No.IS 1239 PT. 1/2004 or latest with sockets and fittings. TATA/JINDAL/ZENITH BIRLA make.						
67	013240	1000.00	Metre	288.00	288000.00	18.00	339840.00
	Description:- Supply of DWC HDPE pipe with one snap fit coupler and 'O' ring fire resistant, anti rodent, in 6 meter length of size 120 mm outer dia as per RDSO/SPN/204/2011 Ver 1.1 with Amd.1 or latest.						

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68	013280	3000.00	Numbers	189.00	567000.00	18.00	669060.00	
	Description:- Supply of RCC pipes half round of size 150mm dia outer and 100 mm dia internal 1 mtr long matching to IS No.458/2003 amendment-1 with Rev.4.							
69	013290	500.00	Numbers	365.00	182500.00	18.00	215350.00	
	Description:- Supply of RCC pipes half round of size 300 mm dia outer and 250 mm dia internal 1 mtr long matching to IS No.458/2003 amendment-1 with Rev.4.							
70	013300	100.00	Numbers	1867.00	186700.00	18.00	220306.00	
	Description:- SUPPLY OF "C" CHANNEL CLAMPS with nut bolts, washers and all type fixures for 6 inch dia pipe to be fixed on GIRDERS, on rock cuttings etc. as per DRG No.-SK-900							
71	013310	1000.00	Numbers	100.00	100000.00	18.00	118000.00	
	Description:- Supply of modular terminal block of 2.5 sq. mm 2 IN 2 OUT type disconnect type terminal along with as per RDSO SPN/189/2004 Rev 3.0. The current capacity of 16 Amps and more. The terminal should have marking at centre to view description from front. Material to be procured from RDSO approved firms only.							
72	013320	20.00	Numbers	187.00	3740.00	18.00	4413.20	
	Description:- Supply of DIN Channel for the terminals 1 Mtrs each							
73	013330	160.00	Numbers	20.00	3200.00	18.00	3776.00	
	Description:- Supply of End plates for modular terminal block							
74	013340	160.00	Numbers	15.00	2400.00	18.00	2832.00	
	Description:- Supply of End Clamp for modular terminal block							
75	013350	10.00	Numbers	71.00	710.00	18.00	837.80	
	Description:- Supply of Marker Card as per customer spec (10x10)							
76	013360	1000.00	Numbers	157.00	157000.00	18.00	185260.00	
	Description:- Fuse terminals block with LED indication up to 2.5 sqmm screw type one in one out (suitable for (400 mA, 630mA, 1 A, 1.6 A, 2 A, 4A, 6.3 A & 10 A) as per RDSO SPN/189/2004 Ver.03 or latest . (without fuse)							
77	013370	100.00	Numbers	12.00	1200.00	18.00	1416.00	
	Description:- End plate for through terminal block with LED indication.							
78	013380	4000.00	Numbers	37.00	148000.00	18.00	174640.00	
	Description:- Fuse links of (400 mA, 630mA, 1 A, 1.6 A, 2 A, 4A, 6.3 A & 10A)							
79	013390	500.00	Numbers	13.00	6500.00	18.00	7670.00	
	Description:- Shorting link insulated Grey in colour							
80	013410	5.00	Set	42990.00	214950.00	18.00	253641.00	
	Description:- Tool bag complete with Megger as per Annexure- VIII. ADD AC / DC clamp meter, with Hand Held Tool Bag.							
81	013420	5.00	Numbers	3856.00	19280.00	18.00	22750.40	
	Description:- Supply of Digital measuring wheel for measuring cable trench/route make: Stanley or Freemans make or similar reputed make.							
82	013440	100.00	Numbers	28.00	2800.00	18.00	3304.00	
	Description:- Supply of Adhesive Tapes rolls, PVC (18mm x 25 Mtr) Steel Grip/SCOTCH/ANCHOR.							
83	013450	10.00	Numbers	2710.00	27100.00	18.00	31978.00	
	Description:- Supply of Thermo-Shrink cable joining kit (Reinforced) TSF-2 type generally confirming to RDSO specification RDSO/SPN/TC/57/2015 Rev 1 with modified kit contents as per CSTE's Specification No.:CR/SPN/TC/57 (A)/2015 Dt: 06.01.2015 (Table-A) to be suitable for jointing both 10/20/50 pair PIJF and 4/6 Quad cables alongwith sub-kit (Table-B) for armour continuity.							
84	013560	100.00	Kg	306.00	30600.00	18.00	36108.00	
	Description:- Supply of Paints as per relevant IS specification preferably Asian / Apcolite/ Dulux make in different colour in one kg/2 kg pack							
85	013570	100.00	Set	1397.00	139700.00	18.00	164846.00	
	Description:- Supply of Epoxy sets consisting of 3kg Gel coat red, 1 kg of thinner and 1kg of hardner. Set shall be of same make. Make: Dr Beck/ASTRAL/3M make.							
86	013590	5.00	Set	20249.00	101245.00	18.00	119469.10	
	Description:- Supply of VHF 25W transreceiver (synthesised) set complete consisting of Analog set as per CR specification.							
87	013600	10.00	Numbers	4321.00	43210.00	18.00	50987.80	
	Description:- Supply of 4.5 kg CPO2 type fire extinguisher along with all accesories, extinguisher testing certificate has to be supplied along with - Supply of ISI marked Carbon Dioxide type (BC) fire extinguisher of 4.5 Kg capacity confirming to IS 2878: 2004 from seamless cylinder, with IS marked control value, high pressure mtr., Long discharge hose and horn complete with initial gas charged with carrying handle and wall mounting bracket etc. as required by site Engineer.							

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S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B1-EXECUTION							10362316.32	Above/ Below/ Par
01	011040	2.00	Numbers	1258.00	2516.00	18.00	2968.88	
	Description:- Installation of Relay Rack Assembly including IDF pillars if any complete with wall supports, scaffolding, ladders, runway for cables, Relay/Relay group base plates, fixing of Tag blocks etc. The work shall be done as per approved plan, extant practice on C.Railways & the instructions of Rly engineer at site.							
02	011060	3000.00	Numbers	9.00	27000.00	18.00	31860.00	
	Description:- Termination of cable cores on ARA terminal/disconnecting links in the cable termination rack. This includes all associated works of pulling out the cable from under ground, peeling off insulation, dressing of Cable core supported on sting rods with contractors own material. The work shall be done as per instructions of Rly engineer at site.							
03	011260	1.00	Lot	24836.00	24836.00	18.00	29306.48	
	Description:- Wiring and Charging of Integrated power supply to signalling installation. This includes connection of MF Earth of 1 ohm earth resistance for IPS and 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 63 A. Wiring to be done considering site requirement, depending upon the load with suitable wires, lugs & glands as per instructions of Engineer-in-charge. 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 and potential free contact wiring at Datalogger IDF etc.							
04	011270	10.00	Each Module	537.00	5370.00	18.00	6336.60	
	Description:- Wiring, fixing & commissioning of modules of fuse 0.6 to 4 Amp rating alarm system having change over arrangement and potential free contact wiring at Datalogger IDF. Etc as per instructions of Railway Engineer. (Module of 32 nos fuses)							
05	011300	1.00	Lot	49786.00	49786.00	18.00	58747.48	
	Description:- Preparation of cable route plan, cable coreage plan, location particulars, cable termination rack particulars, cable meggering report, earth resistance particulars, Traction bonding diagram, 1/2 wire count sheet and any other drawing in Autocad in A3/A4 size. The contractor shall initially supply 3 sets of circuits complete for approval of Railways. Railways will return one set to the contractor duly approved with alteration/corrections if any. The contractor shall incorporate Railways alterations/corrections in the tracings without any deviation and submit all tracings complete in all respects to the Railways. This includes submission of final cable route plan as per laid cable duly measured at every 30m clearly indicating distance of laid cable from fixed point of reference & indicating all track crossings and tail cables. This also include designing of cable coreage plan based upon I.P. in consultation with engineer-in-charge. i)For big yards (>100 routes)							
06	012720	1.00	Lot	38033.00	38033.00	18.00	44878.94	
	Description:- Preparation of final ammonia prints of diagrams in A-3 size after tracings are approved by Railways, in four sets for final submission with one set of diagrams in transparent polythene bag/lamination. (only two sheets shall be placed on one polythene bag/laminated each). Every set shall be set in a plastic folder of A3 size and of good quality. The final approved tracings will be handed over to contractor by railway for this purpose and contractor will return back the same after taking out the prints for stations having less than 20 routes.(v)for major yards and stations having more than 200 routes.							
07	011370	10.00	Numbers	7537.00	75370.00	18.00	88936.60	
	Description:- Excavation and Casting of main signal foundation as per Drg No SK 801 with contractor's own materials including cement and 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.							
08	011380	6.00	Numbers	2043.00	12258.00	18.00	14464.44	
	Description:- Excavation and Casting of Shunt signal foundation as per Drg No SK 802 with contractor's own materials including cement and 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.							
09	011390	10.00	Numbers	2841.00	28410.00	18.00	33523.80	
	Description:- Erection of CLS post with surface base and signal unit on top or on OFF set Bracket, fixing of front and back staging, ladder and guards, signal name plates/boards if any with contractors 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.							
	011400	6.00	Numbers	371.00	2226.00	18.00	2626.68	

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10	Description:- Erection of shunt signal with surface base, post, signal unit and fixing of No. plates. The work shall be done as per instructions of Rly engineer at site.						
11	011410	5.00	Numbers	608.00	3040.00	18.00	3587.20
	Description:- Fixing of Jn. Route Indication 1-way/2-way/3-way on the top of the signal post.						
12	011430	10.00	Numbers	900.00	9000.00	18.00	10620.00
	Description:- Termination of tail cable on Main signal units and wiring with contractor own material etc. The work shall be done as per instruction of Rly engineer at site.						
13	011440	6.00	Numbers	273.00	1638.00	18.00	1932.84
	Description:- Termination of tail cable on Shunt signal units and wiring with contractor own material etc. The work shall be done as per instruction of Rly engineer at site.						
14	011470	20.00	Numbers	406.00	8120.00	18.00	9581.60
	Description:- Installation on ON/OFF aspect LED's in signal including termination of tail cable on signal, wiring fixing of LED units and testing. The work shall be done as per instruction of Railway engineer at site.						
15	011490	15.00	Numbers	1942.00	29130.00	18.00	34373.40
	Description:- Fabrication and fixing of phenolic laminated/Fibre glass sheet in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated/with PVC pipe covered string rods at the back side for cable support with contractor's own materials. The work shall be done as per drg and arrangement similar to SK 783- 1& 2. with latest alterations & as per instructions of Rly engineer at site. a) Single Case						
16	011510	20.00	Numbers	462.00	9240.00	18.00	10903.20
	Description:- Fixing of cutting in relay bases & wiring of relays with Contractors own material obtained from approved sources in location box as per the instructions of Engineer in charge.						
17	011520	5000.00	Per Conductor	12.00	60000.00	18.00	70800.00
	Description:- Fixing of ARA Terminals 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.						
18	011530	5000.00	Per Conductor	9.00	45000.00	18.00	53100.00
	Description:- Termination of cable cores on ARA terminal/fuse blocks in the apparatus cases/ cable termination rack. This includes all associated works of pulling out the cable from underground. The work shall be done as per location plans and instructions of Rly engineer at site.						
19	011540	10.00	Numbers	8500.00	85000.00	18.00	100300.00
	Description:- Excavation and Casting of Apparatus case foundation with contractors Anchor bolts, cement, ballast and other materials. The required scaffolding ferma etc for Casting of foundation will have to be brought by the contractor at his own cost. i) Single Case as per Drg No SK-803						
20	011560	10.00	Numbers	945.00	9450.00	18.00	11151.00
	Description:- Erection of Apparatus cases. This includes filling of location foundations and plastering .i)Single Case						
21	011600	40.00	Numbers	2088.00	83520.00	18.00	98553.60
	Description:- Installation of earth electrode assembly as per Drg.No.RE/S&T/SIG/Tender/SK726/85 including earth wire connected through GI wire 8 SWG supported on M.S. flat of size 6mm x 40 mm to earth electrode as per drg. No.CR/S&T/SK-815 for sigg. Equipment such as lever frames, apparatus case, signals, relay racks, block instruments, and etc. as per RE manual. The earth value should be less than 10 Ohms including the lead wire. The value should be measured in presence of Rly. supervisor. It should be documented and painted on earth enclosure made of concrete.(only earth electrode will be supplied by Railway). All other material required for provision of earthing will be brought by the contractor.						
22	011640	130.00	Set	4382.00	569660.00	18.00	672198.80
	Description:- Installation of unit earth as per RDSO/SPN/197/ver I or latest, to construct earthing of </=1 Ohm consisting of a digging the earth to required depth, insertion of electrode, filling of earth enhancing compound & construction of chamber, measurement of earth value and all other work of earthing as per code of practice. All the consumables for mounting the copper tape inside the relay room, Exothermic weld materials and tools & fixtures for the welding copper tapes nd Electrodes etc shall be arranged by the contractor.						
23	011650	200.00	Metre	79.00	15800.00	18.00	18644.00
	Description:- Connecting main earth electrode to BRC using 35 sqmm copper cable.						
	011830	130.00	Per Detection Point (DP)	2269.00	294970.00	18.00	348064.60

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24	Description:- Installation, wiring & /commissioning of Multi section Digital Axle counters's central unit/Evaluator/Processor for the section/at station including its associated all indoor equipments, Indication panel, monitoring console/interface computer and wiring the same to integrate with the relay circuits including supply required power cable of multistrand 10 sq.mm or more from power room to central evaluator, 2 core shielded cable of required size copper conductor as per as per IRS (S)76/89(Amd.3). or IS 694/2010. with latest amendment as applicable with other accessories as per the instruction of Rly engineer at site and earthing as per OEM's technical requirement and specifications. This also includes laying & termination of cable, if any from panel Room to Axle counter room/Relay room in DWC pipe with contractor's material/existing ladder.						
25	011840	1.00	Station	5895.00	5895.00	18.00	6956.10
	Description:- Installation, wiring & Testing / commissioning of Axle counters Reset Box of all types in Cabin/Panel Room and wiring the same to integrate with the axle counter as per instructions of Railway Engineer at site. This includes laying & termination of cable, if any from Panel Room/Axle counter room/ Relay Room to Reset Box in DWC pipe/existing ladder.						
26	011860	130.00	Set	9428.00	1225640.00	18.00	1446255.20
	Description:- Installation of complete assembly of track device/double rail Contact unit for entry or exit with conductors all material including drilling of required sizes holes on rails for fixing these, taking the cable lead through anti-rodent, anti-oxidant & non-flame propagating type Double walled corrugated (DWC) pipe as per RDSO/SPN/204/2011 Ver 1.1 with Amd.1 or latest from track device to location box and terminating it on terminals including digging of trench under track and up to location/Track side unit and all other accessories as per site requirement for laying of transmitter and receiver cable with suitable wire embedded rubber pipe with clamp for protecting these cables at DP end. Unit(Per track device/double rail contact=1 set)						
27	011870	150.00	Per Detection Point (DP)	731.00	109650.00	18.00	129387.00
	Description:- Installation of complete assembly of deflectors on either side of Track Device/Double Rail Contact Unit including drilling of required sizes holes on rails for fixing these.						
28	011900	25.00	Set	3862.00	96550.00	18.00	113929.00
	Description:- Refixing of electrical point machine, ground connection during phase working (Non interlocked working) after removing the existing fitting if any, adjustment if necessary, cable termination, wiring, testing and commissioning of electrically operated point, fixing and connecting point indicator on derail switch if necessary. The work shall be done as per extant practice on C.Rly & the instruction of Rly engineer at site. Unit(PER T/O=1 set)						
29	011910	15.00	Set	2709.00	40635.00	18.00	47949.30
	Description:- Fixing of point machine on newly laid turnout on Wooden/MBC sleepers, fixing of ground connections, adjustment and testing with crank handle operations, Removal of ground connection & point machines duly numbered. This will include fixing of bend pipes with welded frame for cable entry to machine. This will also includes necessary adjustment and smithy work, drilling of holes to tounge rails, fitting of insulation for tounge attachment, gauge plate & stretcher bars, cable termination & wiring if required. The work shall be done as per extant practice on C.Rly & the instruction of Rly engineer at site. Unit(PER T/O=1 set)						
30	011930	1200.00	cum	291.00	349200.00	18.00	412056.00
	Description:- Excavation of cable trench as per cable route plan, 1.0 mt. deep and 300mm wide along side the track in normal soil/strata, conforming to distances as per cable route plan and refilling after cable laying. This work includes covering of cable laid to trench by loose soil for a layer of 50mm thickness after clearing of route, bushes etc. It shall be ensured that top of the cables laid is at a depth of 0.8 m or more. If it is less, then the width and depth shall be suitably increased and accordingly proportionate payment shall be made. In case depth of trench is not achievable due to site conditions, proportionate payment will be made as per procedure. The work shall be done as per extant practice on C.Rly & the instruction of Railway engineer at site. Drg No SK 805						
31	011940	400.00	cum	491.00	196400.00	18.00	231752.00
	Description:- Excavation of cable trench as per cable route plan, 1.0 mt. deep and 300mm wide along side the track in hard soil, conforming to distances as per cable route plan and refilling after cable laying. This work includes covering of cable laid to trench by loose soil for a layer of 50mm thickness after clearing of route, bushes etc. It shall be ensured that top of the cables laid is at a depth of 0.8 m or more. If it is less, then the width and depth shall be suitably increased and accordingly proportionate payment shall be made. In case depth of trench is not achievable due to site conditions, proportionate payment will be made as per procedure. The work shall be done as per extant practice on C.Rly & the instruction of Railway engineer at site. Drg No SK 805						
32	011950	100.00	cum	2438.00	243800.00	18.00	287684.00
	Description:- Cutting of all types of Roads/platforms (except concrete type) for trenching and excavation to depth of 300mmx300mm wide approx. and refilling after laying of RCC/GI/DWC pipe & to restore them to original condition. The work shall be done as per extant practice on C.Rly & the instruction of Railway engineer at site. Drg No SK 807						
33	011960	100.00	Metre	60.00	6000.00	18.00	7080.00

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	Description:- Fixing of GI pipes for crossing the culverts, bridges etc. and concreting of ends with brick masonry at both ends as per the instruction of Rly engineer at site.						
	011970	50.00	cum	504.00	25200.00	18.00	29736.00
34	Description:- Digging of trench 1.0 M deep from rail flange/road level (for LC) and, 0.3 Mtr 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. Drg No SK 806						
	011980	300.00	Metre	49.00	14700.00	18.00	17346.00
35	Description:- Laying of DWC/RCC pipes alongwith collars / RCC Half round pipes in trenches at places of track and road crossings, platform cutting etc.						
	011990	43.00	Kilometre	4542.00	195306.00	18.00	230461.08
36	Description:- Laying of signalling/Power/Telecom cable of various cores/sizes in trenches.						
	012020	200.00	Numbers	10.00	2000.00	18.00	2360.00
37	Description:- Placing and securing of cable route markers in trenches at the specified interval and at diversions, joints etc along the cable route. The work shall be done as per extant practice on C Railways & the instruction of Rly engineer at site.						
	012050	50.00	cum	4419.00	220950.00	18.00	260721.00
38	Description:- "Where ever depth of 0.5 m cable trench is not feasible, cable shall be protected as under:- Preparation of cement mixture 1:3:6 with contractor's own materials and spreading cement concrete mixture layer of 100 mm thick over the already laid cables in the excavated trench."						
	012060	1500.00	Numbers	16.00	24000.00	18.00	28320.00
39	Description:- Fixing of modular terminal/fuse blocks alongwith all accessories with provision of fixing holes on hylam sheets/side angles of Loc Box and fixing by galvanised nuts & bolts. This includes fixing on DIN channel alongwith PVC Comb type 'C' channel (size 2 inch x 2 inch) for cable termination of modular terminal. The PVC channel with cover to be supplied by firm as required. The work shall be done as per the instruction of Rly engineer at site.						
	012070	3000.00	Numbers	6.00	18000.00	18.00	21240.00
40	Description:- Termination of cable cores on ARA terminal/Disconnecting link/fuse blocks, in the apparatus Cases/ cable termination rack. This includes all associated works of pulling out the cable from underground. The work shall be done as per location plans and instructions of Rly engineer at site.						
	012080	300.00	Metre	116.00	34800.00	18.00	41064.00
41	Description:- Laying of GI pipes in on bridges/culverts/concrete drain/ mountain ridges etc. with suitable GI bend shall be provided where there is turning of pipe as per instructions of the site engineer. GI Clamps at every 2 m as shown in the drawing to be fixed. Suitable holes to be made in the pipe before laying as per instructions of the site engineer. 100 mm dia. Drg No SK 808						
	012100	20.00	Set	1668.00	33360.00	18.00	39364.80
42	Description:- Releasing of cables from old location boxes and taking it into new location boxes. This includes excavating the earth to release the cables. From old location box for taking it into new location. This also includes releasing the old location box and bringing it to nearest station/central cabin. Location (old) will be released only after ensuring all working cables have been shifted in New location. Unit(Per location=1 set)						
	012110	200.00	Numbers	102.00	20400.00	18.00	24072.00
43	Description:- REMOVAL OF PSC/Wooden SLEEPERS coming in the way of/route of cable trenching, signal/Location foundation/Track Crossing etc. These obstruction will be removed by contractor for ensuring proper execution of related works.						
	012120	200.00	Numbers	102.00	20400.00	18.00	24072.00
44	Description:- REMOVAL OF Redundant/Old Rails coming in the way of/route of cable trenching, signal/Location foundation/Track Crossing etc. These obstruction will be removed by contractor for ensuring proper execution of related works.						
	012140	20.00	Numbers	379.00	7580.00	18.00	8944.40
45	Description:- Making an entrance for new cable in old existing location, Casting concreting and curing of foundation and restoring it to old position by perfect masonry/concreting work. Contractor will ensure that cable entered in Location Box is properly protected.						
	012160	320.00	Metre	2175.00	696000.00	18.00	821280.00
46	Description:- Horizontal boring of cable duct of minimum 2.0 Mtr depth along with laying of 120mm HDPE pipe for track crossing with minimum depth reckoned from bottom of the rail/Road crossing with minimum depth reckoned from ground level. The work shall be done as per extant practice & instructions of site engineer. Preparation of site for Horizontal Boring shall be carried out in presence of Railway Representative. HDPE will be supplied by Railway. Note:- 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.						
	012170	700.00	Metre	1497.00	1047900.00	18.00	1236522.00

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47	Description:- Horizontal boring of cable duct of minimum 2.0 Mtr depth along with laying of 120mm HDPE pipe for Other location with minimum depth reckoned from the ground level. The work shall be done as per extant practice & instructions of site engineer. Preparation of site for Horizontal Boring shall be carried out in presence of Railway Representative. HDPE will be supplied by Railway. Note:- 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.a) BORING upto the length of 150mtrs. Preparation of site for Horizontal Boring shall be carried out in presence of Railway Representative.						
48	012180	1050.00	Metre	1905.00	2000250.00	18.00	2360295.00
	Description:- Horizontal boring of cable duct of minimum 2.0 Mtr depth along with laying of 120mm HDPE pipe for Other location with minimum depth reckoned from the ground level. The work shall be done as per extant practice & instructions of site engineer. Preparation of site for Horizontal Boring shall be carried out in presence of Railway Representative. HDPE will be supplied by Railway. Note:- 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.b)BORING beyond of 150mtrs. Preparation of site for Horizontal Boring shall be carried out in presence of Railway Representative.						
49	012190	20.00	Numbers	290.00	5800.00	18.00	6844.00
	Description:- Termination of Tail cable inside the point machine through bend pipe this includes preparatory work of pulling the cables, and peeling out the insulation, dressing and lacing after termination etc., pulling of tail cable as per circuit requirement inside point machine through bend pipe, termination of cables on terminal blocks as per instruction of site supervisor the cable shall be entered in such a way that, armouring shall protect the cable near sharp edge of entry point and armouring shall be clamped between pipe fixing bracket and boy of point machine.						
50	012200	10.00	Numbers	4835.00	48350.00	18.00	57053.00
	Description:- "Patching work in old location box consisting 1) Digging of pit, cleaning of earth from all sides, breaking of seal of location boxes removal of sand from location, marking of new cable holes. 2) insertion cable from ground 3) making place for cable termination in old location, shifting ARA, fuse etc after removal and termination including fixing of ARA. 4) Termination of cable in old location. 5) Filling of sand and plastering to all sides upto 50 mm below ground level."						
51	012210	10.00	Numbers	4102.00	41020.00	18.00	48403.60
	Description:- Shifting of existing full location boxes coming in the alignment of doubling. The work includes losing & removal of soil around loction boxes by excavating soil around foundation, making of pit for shifting of location box horizontally opposite to railway track up to 0.5 to 1.0 mtr. This includes loosening of existing cable coils without any damage. The excavated soil shall be back filled after shifting of Location Boxes. Location box along with its foundation shall be shifted by push method with the help of jacks or by crane by contractors own expenditure under instructions of engineer in-charge at site. Any minor repairs in foundation due to patching shall also be carried out by contractor as per instruction of Engineer incharge. The work may affect train working hence the work shall be done as per margin only or during traffic block only.						
52	012220	10.00	Numbers	3304.00	33040.00	18.00	38987.20
	Description:- Shifting of existing Half location boxes coming in the alignment of doubling. The work includes losing & removal of soil around loction boxes by excavating soil around foundation, making of pit for shifting of location box horizontally opposite to railway track up to 0.5 to 1.0 mtr. This includes loosening of existing cable coils without any damage. The excavated soil shall be back filled after shifting of Location Boxes. Location box along with its foundation shall be shifted by push method with the help of jacks or by crane by contractors own expenditure under instructions of engineer in-charge at site. Any minor repairs in foundation due to patching shall also be carried out by contractor as per instruction of Engineer incharge. The work may affect train working hence the work shall be done as per margin only or during traffic block only.						
53	012230	20.00	Numbers	357.00	7140.00	18.00	8425.20
	Description:- "Transferring of signalling/Telecom cables from existing location box to New location box. The work include breaking/dismantling of existing foundation of locations, excavating and removing / segregating coils of this cables which may be of about 10 mtr in length. These cables are then to be disconnected and removed from the existing locations one by one as per the instructions and under the supervision of railway staff present at site. The cable is then to be inserted and terminated in new location box. The item includes neatly dressing of cables marking wiring tree etc. The material required for dressing / lacing will be arranged by contractor at its own cost. The work is required to be done systematically and with due precaution during the night block of 2.00 - 2.30 hrs each or within the time that may be allowed. The excavation work to be done carefully without damaging the cables to avoid undue failures. (Termination charges will be given separately) Note: Proportionate payment will be made if cable is of other length. 2/6/12/19/24/30 core signalling cable/4 or 6 Quad/PIJF/Any signalling/Telecom Cable (One no. unit = One cable of 10 m length) "						
	012360	30.00	Numbers	360.00	10800.00	18.00	12744.00

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54	Description:- Painting two coats of synthetic enamel paint over one coat of primer on the following after scrapping and cleaning of the surface wherever necessary with contractor own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy will be supplied by Railways. NOTE:- The paint and primer should be from M/s Asian paints Co. Ltd.,. The paints will be primer (IS 5660 of 1970) the Aluminium synthetic black enamel (IS 2932 of 1974) brilliant white and yellow Painting two coats of enamel paint over one coat of primer.(i)Apparatus Cases Full size.						
55	012370	10.00	Numbers	265.00	2650.00	18.00	3127.00
55	Description:- Painting two coats of synthetic enamel paint over one coat of primer on the following after scrapping and cleaning of the surface wherever necessary with contractor own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy will be supplied by Railways. NOTE:- The paint and primer should be from M/s Asian paints Co. Ltd.,. The paints will be primer (IS 5660 of 1970) the Aluminium synthetic black enamel (IS 2932 of 1974) brilliant white and yellow Painting two coats of enamel paint over one coat of primer.(ii)Apparatus Cases Half size.						
56	012380	30.00	Numbers	594.00	17820.00	18.00	21027.60
56	Description:- Painting two coats of synthetic enamel paint over one coat of primer on the following after scrapping and cleaning of the surface wherever necessary with contractor own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy will be supplied by Railways. NOTE:- The paint and primer should be from M/s Asian paints Co. Ltd.,. The paints will be primer (IS 5660 of 1970) the Aluminium synthetic black enamel (IS 2932 of 1974) brilliant white and yellow Painting two coats of enamel paint over one coat of primer.(iii)Main signal post with signal Units, Surface base and complete fittings as per Centre Railways standard practice.						
57	012390	10.00	Numbers	141.00	1410.00	18.00	1663.80
57	Description:- Painting two coats of synthetic enamel paint over one coat of primer on the following after scrapping and cleaning of the surface wherever necessary with contractor own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy will be supplied by Railways. NOTE:- The paint and primer should be from M/s Asian paints Co. Ltd.,. The paints will be primer (IS 5660 of 1970) the Aluminium synthetic black enamel (IS 2932 of 1974) brilliant white and yellow Painting two coats of enamel paint over one coat of primer.(iv)Shunt signal post with signal unit, surface base as per central Railway's Standard Practice.						
58	012410	30.00	Numbers	122.00	3660.00	18.00	4318.80
58	Description:- Painting two coats of synthetic enamel paint over one coat of primer on the following after scrapping and cleaning of the surface wherever necessary with contractor own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy will be supplied by Railways. NOTE:- The paint and primer should be from M/s Asian paints Co. Ltd.,. The paints will be primer (IS 5660 of 1970) the Aluminium synthetic black enamel (IS 2932 of 1974) brilliant white and yellow Painting two coats of enamel paint over one coat of primer.(vi)Point Machine with ground connections complete (Point Machine with Black enamel only outside and ground connections with Red Oxide)						
59	012420	200.00	Numbers	87.00	17400.00	18.00	20532.00
59	Description:- Painting two coats of synthetic enamel paint over one coat of primer on the following after scrapping and cleaning of the surface wherever necessary with contractor own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy will be supplied by Railways. NOTE:- The paint and primer should be from M/s Asian paints Co. Ltd.,. The paints will be primer (IS 5660 of 1970) the Aluminium synthetic black enamel (IS 2932 of 1974) brilliant white and yellow Painting two coats of enamel paint over one coat of primer.(vii)Axle counter devices.						
60	012430	50.00	Numbers	47.00	2350.00	18.00	2773.00
60	Description:- Lettering / Numbering of Signals, Point Machine, Track Lead junction Boxes, Block joints, Apparatus Cases etc.(each item to be taken as One Unit) This work will be carried out as per the standard practice being followed in Central Railway.						
61	012440	20.00	Numbers	220.00	4400.00	18.00	5192.00
61	Description:- Lettering / Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes.(a)Full Case.						
62	012510	60.00	Set	1181.00	70860.00	18.00	83614.80
62	Description:- Dismantling/Releasing of the existing outdoor signalling items such as CLS unit with posts alongwith base, lever frames (5 levers set), battery box with equipments, location box with equipments, block instruments, point machines, mechanical point, AFTC/DAC, Relay rack, CT Rack alongwith Relay rack. IDF with all accessories. All these unit will be counted as one no. along with their accessories. This includes the cost of transportation of released material from site to Railway scrap Depot. Unit(per signl/per point/ Loc.Box/Relay Rack = 1 set)						
63	012540	2000.00	Set	49.00	98000.00	18.00	115640.00

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		Description:- Transportation of signaling material/equipments including loading and unloading in 10MT vehicle, anywhere to anywhere, and stacking at destination as per instructions of SSE in-charge as per inventory. For carrying heavy materials like cable drums, DG set, Electrical lifting barrier pedestal, IPS, Batteries, Point machine etc.Unit(Per Ton/Per KM=1 set)					
64	012550	8000.00	Set	4.00	32000.00	18.00	37760.00
		Description:- Loading, un-loading & transportation of material from the stores of SSE(SIG) depot or any other nominated place & vice-versa. Unit(Per Ton/Per KM=1 set)					
65	012560	5.00	Kilometre	5462.00	27310.00	18.00	32225.80
		Description:- Laying of HDPE duct in trench and its protective work as per direction of site engineer.					
66	012570	5.00	Kilometre	11607.00	58035.00	18.00	68481.30
		Description:- Blowing/Drawing of OFC cable in HDPE/DWC duct and protective work, as per direction of site engineer.					
67	012580	10.00	Numbers	5488.00	54880.00	18.00	64758.40
		Description:- Splicing (Joining 2X24 F OFC) and testing of 24 fibre OF Cable and making the splice joint as per direction of site engineer with contractors own splicing machine & tools. Splice loss of each fibre should be less than or equal to 0.05db splice reflectance should be better than 60 db.					
68	012590	20.00	Numbers	111.00	2220.00	18.00	2619.60
		Description:- "Splicing/ dropping/termination of each fiber/pigtail in LIU/IO box/terminal joint through fusion splicing for termination of OFC cables. The fibers terminated shall be tested and test report (hard copy and soft copy) shall be submitted to the Railways site in-charge for records. each fiber shall be properly marked with necessary ferrules/tags, as per following specification: i) The optical fibre cables shall be entered in to the rack through cable entry and using the cable guides. ii) The loosened ends of the fibres and pigtails shall be properly prepared for termination in to the already fixed LIU. iii) Each of the fibre shall be spliced with a pigtail by the method of fusion splicing using a Fusion Splicing Machine of standard reputed make. The splicing shall be done carefully by a skillful person. iv) The splices shall be carefully placed and well secured in the splice trays of the LIU. v) Each fiber / pigtail shall be properly marked with necessary ferrules/tags. vi) The extra length of the fibers / pigtails shall be coiled and placed and secured with cable ties. vii) The optical connectors of the pigtails shall be placed into the patch panel as per the numbering of fibers. viii) All of the terminated fibers shall be tested with OTDR and test report (Hard copy and Soft copy) shall be submitted to the Railways site In-charge for records."					
69	012600	20.00	Job	93.00	1860.00	18.00	2194.80
		Description:- Releasing of track magnet from existing location and fixing of track magnets at new location as per Central Railway Drg No. RST 11545 with antitheft clamped as per Drg RST 11472/4 & Central Railway Drg No. BB/SK/C-23 (Note: Track magnets are to be covered with metal sheet temporarily till final testing and commissioning. These sheets are to be removed just before commissioning).					
70	012610	30.00	Numbers	521.00	15630.00	18.00	18443.40
		Description:- Fixing of Track Magnets as per C.Rly. Drg. No. RST-11545 with anti theft clamp as per Drg.No.RST-11472/4 and C.Rly Drg. No.BB/SK/C-23.					
71	012620	30.00	Numbers	136.00	4080.00	18.00	4814.40
		Description:- Fixing of Wooden Blocks as per instructions of Rly engineer at site.					
72	012630	40.00	Numbers	692.00	27680.00	18.00	32662.40
		Description:- Fixing of Opto-Coupler junction Box on signal post and providing cable glands (25mm dia) on signal post after drilling holes and tapping threads on signal post as per Drg.No.RST-11545					
73	012640	40.00	Set	396.00	15840.00	18.00	18691.20
		Description:- Laying & fixing of GI pipe of 40 mm dia in trench & along signal post from track magnet to opto coupler box and connecting to opto coupler box on the signal post with proper clamps, elbow bends etc. as per C.Rly. Drg. No. RST : 11545 (1/3). (Clamps for fixing materials including GI nut-bolts of suitable size are to be supplied by contractor.) Unit(Per track magnet=1 set)					
74	012650	40.00	Job	380.00	15200.00	18.00	17936.00
		Description:- Laying of 7 core PVC insulated cable through GI pipes and Neopren rubber pipe between opto coupler box and six pin coupler of A1 type track magnets as per C.Rly. Drg.No. RST : 11545 (1/3). Termination of cable conductor on opto coupler card with the help of crimping lugs with proper dressing PVC numbering sleeve is to be provided.					
75	012660	40.00	Job	198.00	7920.00	18.00	9345.60
		Description:- Laying of flexible wires between main/ route / Auxilary signal units and opto coupler box through signal post and reinforced PVC flexible conduit pipe and termination at both ends with appropriate size copper lugs as per C.Rly. Drg.No.RST:11545. Wires are to be laid only after proper lacing and dressing with lacing threads, PVC flexible pipe is to properly fixed with glands on signal post and opto coupler units.					
	012670	40.00	Numbers	757.00	30280.00	18.00	35730.40

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Description:- Testing of Track Magnets by test jig and commissioning of complete AWS equipments as per standard practices on Central Railway and instruction of site incharge after installation at site. (Testing report is to be submitted before commissioning).								
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B2-SOR ITEM							9542188.00	Above/ Below/P ar
01	011040	5.00	Numbers	1258.00	6290.00	18.00	7422.20	
	Description:- Installation of Relay Rack Assembly including IDF pillars if any complete with wall supports, scaffolding, ladders, runway for cables, Relay/Relay group base plates, fixing of Tag blocks etc. The work shall be done as per approved plan, extant practice on C.Railways & the instructions of Rly engineer at site.							
02	011050	5.00	Numbers	1024.00	5120.00	18.00	6041.60	
	Description:- Installation of Cable Termination Rack Assembly complete including wall supports, scaffolding, Disconnecting links/ARA terminal, 96 way tag block with tag block cover & other necessary accessories etc. The work shall be done as per approved plan, extant practice on C.Railways & the instructions of Rly engineer at site.							
03	011060	10000.00	Numbers	9.00	90000.00	18.00	106200.00	
	Description:- Termination of cable cores on ARA terminal/disconnecting links in the cable termination rack. This includes all associated works of pulling out the cable from under ground, peeling off insulation, dressing of Cable core supported on sting rods with contractors own material. The work shall be done as per instructions of Rly engineer at site.							
04	011070	2.00	Set	15627.00	31254.00	18.00	36879.72	
	Description:- Installation, wiring, testing and commissioning of Data logger complete along with accessories with contractors own wiring & fixing material as per following configuration. (It includes loading of NETWORKING software and networking of data logger. The requisite communication cable/channel for networking will be arranged by Railway. i) 1024 digital & 32 analog inputs							
05	011130	30.00	Set	518.00	15540.00	18.00	18337.20	
	Description:- Fixing of Q series relay base plate/metal to metal relay mini group and major group base plate, laying, bunching, lacing, dressing & packeting of 60/40 core PVC indoor cable/flexible wire and termination 60/40 core cable/flexible wire on tagblock/base plate & base plates & soldering. This includes fuse wiring, bus bar looping etc. required for keeping installation ready for circuit wiring work & panel throughing work. The work shall be done as per approved plan, extant practice on C.Rly & the instruction of Rly. Engineer at site. Unit(Per Tag Block=1 set)							
06	011140	10000.00	Set	11.00	110000.00	18.00	129800.00	
	Description:- Circuit wiring/jumpering as per circuit diagrams in the relay racks/IDF rack tagblocks. This includes preparation of jumper sheets by wire man duly checked by firm's site supervisor & wire to wire testing as per circuit diagram. Any wrong jumper done by wireman will not be paid & correction shall be done free of cost. Jumper wires will be issued by Railways. Good quality solder resin core to be supplied by contractor for soldering of jumper wires. Soldering of jumper wires to be done after completion of testing by Railways. Unit(Per Jumper =1 set)							
07	011150	100.00	Per Route	315.00	31500.00	18.00	37170.00	
	Description:- Plugging of relays, provision for temporary relays for NI working if any, laying of temporary cables for mock panel and wiring of Mock panel. Panel through testing of PI/RRi as per selection table, control table etc. This also includes alteration if any in panel wiring, laying & termination of indoor cables from panel to IDF/CT rack of relay room. Contractor shall depute supervisor & wiremen technically qualified to carryout panel through testing as per approved design. Technical knowledge of contractor's staff will be judged by Railways Engineer incharge before permitting them to do the testing.							
08	011160	50.00	Set	281.00	14050.00	18.00	16579.00	
	Description:- Relay Contact break test of indoor relay wiring. Contractor shall depute Engineer, Supervisor & wiremen technically qualified to carryout contact break testing as per approved circuit diagrams. Firm Engineer to sign circuit diagrams for break testing after carrying out the test in presence of Railway's site supervisor/Engineer. Unit(Per A3 Size circuit per Sheet=1 set)							
09	011170	100.00	Per Route	295.00	29500.00	18.00	34810.00	
	Description:- Functional testing of PI/RRi/IBS/Autosignal etc. as per Selection table, control table, sqare sheet etc. Contrctor shall depute one Engineer, one supervisor & wiremen technically qualified to carryout functional testing as per approved design. Technical knowledge of contractor's staff will be judged by Railways Engineer incharge before permitting them to do the testing.							
10	011270	10.00	Each Module	537.00	5370.00	18.00	6336.60	

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	Description:- Wiring, fixing & commissioning of modules of fuse 0.6 to 4 Amp rating alarm system having change over arrangement and potential free contact wiring at Datalogger IDF. Etc as per instructions of Railway Engineer. (Module of 32 nos fuses)						
11	011280	10.00	Each Module	523.00	5230.00	18.00	6171.40
	Description:- Wiring, fixing & commissioning of modules of fuse 4 to 10 Amp rating alarm system having change over arrangement and potential free contact wiring at Datalogger IDF. Etc as per instructions of Railway Engineer. (Module of 24 nos fuses)						
12	011290	12.00	Rack	290.00	3480.00	18.00	4106.40
	Description:- Lettering & Numbering of detail and description writing of particulars of terminations & equipments on relay rack, relays, cable termination rack, battery & power equipment, IPS, operating panel, axle counter etc constituting entire system with contractor's own paint and writing material ("Asian/Dulux" make enamel paints to be used). The work shall be done as per extant practice on C.Rly & instruction of Rly engineer at site.						
13	011300	2.00	Lot	49786.00	99572.00	18.00	117494.96
	Description:- Preparation of cable route plan, cable coreage plan, location particulars, cable termination rack particulars, cable meggering report, earth resistance particulars, Traction bonding diagram, 1/2 wire count sheet and any other drawing in Autocad in A3/A4 size. The contractor shall initially supply 3 sets of circuits complete for approval of Railways. Railways will return one set to the contractor duly approved with alteration/corrections if any. The contractor shall incorporate Railways alterations/corrections in the tracings without any deviation and submit all tracings complete in all respects to the Railways. This includes submission of final cable route plan as per laid cable duly measured at every 30m clearly indicating distance of laid cable from fixed point of reference & indicating all track crossings and tail cables. This also include designing of cable coreage plan based upon I.P. in consultation with engineer-in-charge. i)For big yards (>100 routes)						
14	011310	3.00	Lot	19613.00	58839.00	18.00	69430.02
	Description:- Preparation of cable route plan, cable coreage plan, location particulars, cable termination rack particulars, cable meggering report, earth resistance particulars, Traction bonding diagram, 1/2 wire count sheet and any other drawing in Autocad in A3/A4 size. The contractor shall initially supply 3 sets of circuits complete for approval of Railways. Railways will return one set to the contractor duly approved with alteration/corrections if any. The contractor shall incorporate Railways alterations/corrections in the tracings without any deviation and submit all tracings complete in all respects to the Railways. This includes submission of final cable route plan as per laid cable duly measured at every 30m clearly indicating distance of laid cable from fixed point of reference & indicating all track crossings and tail cables. This also include designing of cable coreage plan based upon I.P. in consultation with engineer-in-charge.(ii) For small/medium yards (<=100 routes)						
15	011330	5.00	Lot	114292.00	571460.00	18.00	674322.80
	Description:- Design and supply of Detailed signalling circuits including Panel diagram (if required), Route section plan, Selection table, Fuse & negative tag. analysis, Contact analysis, Relay rack arrangement and wire count sheets etc. in A3 size. Completion circuit shall be plotted in AutoCAD. The contractor shall initially supply 2 sets of circuits duly signed by the circuit designer having substantial experience on design side for making such circuits, complete for approval of Railways. Railways will return one set of circuit to the contractor duly approved with alterations / corrections, if any. The contractor shall incorporate Railway's alterations/corrections in the original tracings & CD without any deviation and submit two copies of the modified circuits. Original tracings so modified & final CD complete in all respects along with 6 sets of final approved circuits (out of which one set shall be supplied in transparent bags. Only two sheets of circuits shall be placed in one bag each) shall be submitted to the Railways in case there are no further alteration suggested by Railways. This also includes modification in yard. ii) for stations having Routes <=50						
16	012690	5.00	Lot	6550.00	32750.00	18.00	38645.00
	Description:- Preparation of final ammonia prints of diagrams in A-3 size after tracings are approved by Railways, in four sets for final submission with one set of diagrams in transparent polythene bag/lamination. (only two sheets shall be placed on one polythene bag/laminated each). Every set shall be set in a plastic folder of A3 size and of good quality. The final approved tracings will be handed over to contractor by railway for this purpose and contractor will return back the same after taking out the prints for stations having less than 20 routes.(ii)for stations having Routes <=50						
17	011370	15.00	Numbers	7537.00	113055.00	18.00	133404.90
	Description:- Excavation and Casting of main signal foundation as per Drg No SK 801 with contractor's own materials including cement and 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.						
18	011390	15.00	Numbers	2841.00	42615.00	18.00	50285.70

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	Description:- Erection of CLS post with surface base and signal unit on top or on OFF set Bracket, fixing of front and back staging, ladder and guards, signal name plates/boards if any with contractors 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.						
19	011430	15.00	Numbers	900.00	13500.00	18.00	15930.00
	Description:- Termination of tail cable on Main signal units and wiring with contractor own material etc. The work shall be done as per instruction of Rly engineer at site.						
20	011450	4000.00	Kg	50.00	200000.00	18.00	236000.00
	Description:- Hot dip Galvanizing as per RDSO Specn. ETI-OHE-13 (4/84) - signal post, OFF set Brackets dia 140 mm and length upto 5600 mm.						
21	011470	45.00	Numbers	406.00	18270.00	18.00	21558.60
	Description:- Installation on ON/OFF aspect LED's in signal including termination of tail cable on signal, wiring fixing of LED units and testing. The work shall be done as per instruction of Railway engineer at site.						
22	011480	10.00	Numbers	3566.00	35660.00	18.00	42078.80
	Description:- Supply and fixing of protective screen of expanded metal 12 SWG of size 1200 x 1500 mm on signals as per standard practice.						
23	011500	30.00	Numbers	1647.00	49410.00	18.00	58303.80
	Description:- Fabrication and fixing of phenolic laminated/Fibre glass sheet in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated/with PVC pipe covered string rods at the back side for cable support with contractor's own materials. The work shall be done as per drg and arrangement similar to SK 783- 1& 2. with latest alterations & as per instructions of Rly engineer at site. b)Half Case						
24	011510	50.00	Numbers	462.00	23100.00	18.00	27258.00
	Description:- Fixing of cutting in relay bases & wiring of relays with Contractors own material obtained from approved sources in location box as per the instructions of Engineer in charge.						
25	011520	5000.00	Per Conductor	12.00	60000.00	18.00	70800.00
	Description:- Fixing of ARA Terminals 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.						
26	011530	5000.00	Per Conductor	9.00	45000.00	18.00	53100.00
	Description:- Termination of cable cores on ARA terminal/fuse blocks in the apparatus cases/ cable termination rack. This includes all associated works of pulling out the cable from underground. The work shall be done as per location plans and instructions of Rly engineer at site.						
27	012550	1000.00	Set	4.00	4000.00	18.00	4720.00
	Description:- Loading, un-loading & transportation of material from the stores of SSE(SIG) depot or any other nominated place & vice-versa. Unit(Per Ton/Per KM=1 set)						
28	011550	30.00	Numbers	8024.00	240720.00	18.00	284049.60
	Description:- Excavation and Casting of Apparatus case foundation with contractors Anchor bolts, cement, ballast and other materials. The required scaffolding ferma etc for Casting of foundation will have to be brought by the contractor at his own cost. ii)Half Case as per Drg No SK-804						
29	011570	30.00	Numbers	703.00	21090.00	18.00	24886.20
	Description:- Erection of Apparatus cases. This includes filling of location foundations and plastering. ii)Half Case						
30	011600	50.00	Numbers	2088.00	104400.00	18.00	123192.00
	Description:- Installation of earth electrode assembly as per Drg.No.RE/S&T/SIG/Tender/SK726/85 including earth wire connected through GI wire 8 SWG supported on M.S. flat of size 6mm x 40 mm to earth electrode as per drg. No.CR/S&T/SK-815 for sigg. Equipment such as lever frames, apparatus case, signals, relay racks, block instruments, and etc. as per RE manual. The earth value should be less than 10 Ohms including the lead wire. The value should be measured in presence of Rly. supervisor. It should be documented and painted on earth enclosure made of concrete.(only earth electrode will be supplied by Railway). All other material required for provision of earthing will be brought by the contractor.						
31	011640	10.00	Set	4382.00	43820.00	18.00	51707.60
	Description:- Installation of unit earth as per RDSO/SPN/197/ver I or latest, to construct earthing of <=1 Ohm consisting of a digging the earth to required depth, insertion of electrode, filling of earth enhancing compound & construction of chamber, measurement of earth value and all other work of earthing as per code of practice. All the consumables for mounting the copper tape inside the relay room, Exothermic weld materials and tools & fixtures for the welding copper tapes nd Electrodes etc shall be arranged by the contractor.						
32	011650	300.00	Metre	79.00	23700.00	18.00	27966.00

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	Description:- Connecting main earth electrode to BRC using 35 sqmm copper cable.						
33	011660	250.00	Metre	174.00	43500.00	18.00	51330.00
	Description:- Installation of 25x6 mm copper tape (bonding ring conductors) mounted on insulated standoffs (1 round).						
34	011670	300.00	Numbers	364.00	109200.00	18.00	128856.00
	Description:- Installation of 300x25x6 mm Cu equipotential Bus Bar.						
35	011680	5.00	Numbers	5783.00	28915.00	18.00	34119.70
	Description:- Installation, wiring, testing and commissioning of Microprocessor based universal earth leakage detector unit 12 channel AC/DC.						
36	011930	3000.00	cum	291.00	873000.00	18.00	1030140.00
	Description:- Excavation of cable trench as per cable route plan, 1.0 mt. deep and 300mm wide along side the track in normal soil/strata, conforming to distances as per cable route plan and refilling after cable laying. This work includes covering of cable laid to trench by loose soil for a layer of 50mm thickness after clearing of route, bushes etc. It shall be ensured that top of the cables laid is at a depth of 0.8 m or more. If it is less, then the width and depth shall be suitably increased and accordingly proportionate payment shall be made. In case depth of trench is not achievable due to site conditions, proportionate payment will be made as per procedure. The work shall be done as per extant practice on C.Rly & the instruction of Railway engineer at site. Drg No SK 805						
37	011940	5000.00	cum	491.00	2455000.00	18.00	2896900.00
	Description:- Excavation of cable trench as per cable route plan, 1.0 mt. deep and 300mm wide along side the track in hard soil, conforming to distances as per cable route plan and refilling after cable laying. This work includes covering of cable laid to trench by loose soil for a layer of 50mm thickness after clearing of route, bushes etc. It shall be ensured that top of the cables laid is at a depth of 0.8 m or more. If it is less, then the width and depth shall be suitably increased and accordingly proportionate payment shall be made. In case depth of trench is not achievable due to site conditions, proportionate payment will be made as per procedure. The work shall be done as per extant practice on C.Rly & the instruction of Railway engineer at site. Drg No SK 805						
38	011950	100.00	cum	2438.00	243800.00	18.00	287684.00
	Description:- Cutting of all types of Roads/platforms (except concrete type) for trenching and excavation to depth of 300mmx300mm wide approx. and refilling after laying of RCC/GI/DWC pipe & to restore them to original condition. The work shall be done as per extant practice on C.Rly & the instruction of Railway engineer at site. Drg No SK 807						
39	011960	1000.00	Metre	60.00	60000.00	18.00	70800.00
	Description:- Fixing of GI pipes for crossing the culverts, bridges etc. and concreting of ends with brick masonry at both ends as per the instruction of Rly engineer at site.						
40	011970	500.00	cum	504.00	252000.00	18.00	297360.00
	Description:- Digging of trench 1.0 M deep from rail flange/road level (for LC) and, 0.3 Mtr 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. Drg No SK 806						
41	011980	4500.00	Metre	49.00	220500.00	18.00	260190.00
	Description:- Laying of DWC/RCC pipes alongwith collars / RCC Half round pipes in trenches at places of track and road crossings, platform cutting etc.						
42	011990	65.00	Kilometre	4542.00	295230.00	18.00	348371.40
	Description:- Laying of signalling/Power/Telecom cable of various cores/sizes in trenches.						
43	012010	500.00	Numbers	56.00	28000.00	18.00	33040.00
	Description:- Laying of RCC Trunking and capping and sealing after cable laying as per std practice on C.Rly & the instruction of site engineer.						
43	012030	10.00	Numbers	3005.00	30050.00	18.00	35459.00
	Description:- Jointing of 4 / 6 quad cable with Heat shrinkable straight through jointing kit for 4/6 quad cable.						
44	012020	500.00	Numbers	10.00	5000.00	18.00	5900.00
	Description:- Placing and securing of cable route markers in trenches at the specified interval and at diversions, joints etc along the cable route. The work shall be done as per extant practice on C Railways & the instruction of Rly engineer at site.						
46	012060	5000.00	Numbers	16.00	80000.00	18.00	94400.00
	Description:- Fixing of modular terminal/fuse blocks alongwith all accessories with provision of fixing holes on hylam sheets/side angles of Loc Box and fixing by galvanised nuts & bolts. This includes fixing on DIN channel alongwith PVC Comb type 'C' channel (size 2 inch x 2 inch) for cable termination of modular terminal. The PVC channel with cover to be supplied by firm as required. The work shall be done as per the instruction of Rly engineer at site.						
	012070	5000.00	Numbers	6.00	30000.00	18.00	35400.00

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47	Description:- Termination of cable cores on ARA terminal/Disconnecting link/fuse blocks, in the apparatus Cases/ cable termination rack. This includes all associated works of pulling out the cable from underground. The work shall be done as per location plans and instructions of Rly engineer at site.						
48	012080	1000.00	Metre	116.00	116000.00	18.00	136880.00
	Description:- Laying of GI pipes in on bridges/culverts/concrete drain/ mountain ridges etc. with suitable GI bend shall be provided where there is turning of pipe as per instructions of the site engineer. GI Clamps at every 2 m as shown in the drawing to be fixed. Suitable holes to be made in the pipe before laying as per instructions of the site engineer. 100 mm dia. Drg No SK 808						
49	012090	500.00	Metre	53.00	26500.00	18.00	31270.00
	Description:- Laying of GI pipes inside the excavated trench in rocky area/less depth area as per instructions of the site engineer. GI Clamps at every 2 m as shown in the drawing to be fixed. Suitable GI Bend/Coupling and holes to be made in the pipe before laying as per instructions of the site engineer.						
50	012110	100.00	Numbers	102.00	10200.00	18.00	12036.00
	Description:- REMOVAL OF PSC/Wooden SLEEPERS coming in the way of/route of cable trenching, signal/Location foundation/Track Crossing etc. These obstruction will be removed by contractor for ensuring proper execution of related works.						
51	012120	100.00	Numbers	102.00	10200.00	18.00	12036.00
	Description:- REMOVAL OF Redundant/Old Rails coming in the way of/route of cable trenching, signal/Location foundation/Track Crossing etc. These obstruction will be removed by contractor for ensuring proper execution of related works.						
52	012130	800.00	Numbers	271.00	216800.00	18.00	255824.00
	Description:- FIXING OF "C" Channel Clamps on Girders along with proper coupling of GI/DWC pipes. The work will be executed as per instruction of site incharge and site incharge may take decision as per site condition. All the fixtures, nut bolts, tools required to fix the channel will be provided by Contractor. Proper safety equipment like Helmet, Retroreflective jacket and whistle, flag is to be made available during execution of work.						
53	012140	10.00	Numbers	379.00	3790.00	18.00	4472.20
	Description:- Making an entrance for new cable in old existing location, Casting concreting and curing of foundation and restoring it to old position by perfect masonry/concreting work. Contractor will ensure that cable entered in Location Box is properly protected.						
54	012150	10.00	Numbers	1281.00	12810.00	18.00	15115.80
	Description:- Making of thermoshrink straight through/derivation/ transformer /PIJF cable joint for underground jelly filled cable 6 quad/4 quad/20 pair 10 pair etc. PIJF cable as per the instruction of Rly engineer at site.						
55	012160	300.00	Metre	2175.00	652500.00	18.00	769950.00
	Description:- Horizontal boring of cable duct of minimum 2.0 Mtr depth along with laying of 120mm HDPE pipe for track crossing with minimum depth reckoned from bottom of the rail/Road crossing with minimum depth reckoned from ground level. The work shall be done as per extant practice & instructions of site engineer. Preparation of site for Horizontal Boring shall be carried out in presence of Railway Representative. HDPE will be supplied by Railway. Note:- 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.						
56	012200	10.00	Numbers	4835.00	48350.00	18.00	57053.00
	Description:- "Patching work in old location box consisting 1) Digging of pit, cleaning of earth from all sides, breaking of seal of location boxes removal of sand from location, marking of new cable holes. 2) insertion cable from ground 3) making place for cable termination in old location, shifting ARA, fuse etc after removal and termination including fixing of ARA. 4) Termination of cable in old location. 5) Filling of sand and plastering to all sides upto 50 mm below ground level."						
57	012260	500.00	Metre	29.00	14500.00	18.00	17110.00
	Description:- Laying of RCC half round cement pipe of approximate size (150/300 mm dia X 2 Meter length) inside the trench after laying of cable. Pipes shall be placed as per directives of engineer.						
58	012370	30.00	Numbers	265.00	7950.00	18.00	9381.00
	Description:- Painting two coats of synthetic enamel paint over one coat of primer on the following after scrapping and cleaning of the surface wherever necessary with contractor own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy will be supplied by Railways. NOTE:- The paint and primer should be from M/s Asian paints Co. Ltd.,. The paints will be primer (IS 5660 of 1970) the Aluminium synthetic black enamel (IS 2932 of 1974) brilliant white and yellow Painting two coats of enamel paint over one coat of primer.(ii)Apparatus Cases Half size.						
	012380	20.00	Numbers	594.00	11880.00	18.00	14018.40

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59	Description:- Painting two coats of synthetic enamel paint over one coat of primer on the following after scrapping and cleaning of the surface wherever necessary with contractor own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy will be supplied by Railways. NOTE:- The paint and primer should be from M/s Asian paints Co. Ltd.,. The paints will be primer (IS 5660 of 1970) the Aluminium synthetic black enamel (IS 2932 of 1974) brilliant white and yellow Painting two coats of enamel paint over one coat of primer.(iii)Main signal post with signal Units, Surface base and complete fittings as per Centre Railways standard practice.							
60	012450	30.00	Numbers	121.00	3630.00	18.00	4283.40	
	Description:- Lettering / Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes.(b)Half Case.							
61	012540	1000.00	Set	49.00	49000.00	18.00	57820.00	
	Description:- Transportation of signaling material/equipments including loading and unloading in 10MT vehicle, anywhere to anywhere, and stacking at destination as per instructions of SSE in-charge as per inventory. For carrying heavy materials like cable drums, DG set, Electrical lifting barrier pedestal, IPS, Batteries, Point machine etc.Unit(Per Ton/Per KM=1 set)							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () C1-NON SOR ITEM							10996884.99	Above/ Below/P ar
01	Please see Item Breakup for details.				10996884.99	AT Par	10996884.99	
	Description:- SUPPLY & EXECUTION							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () C2-NON SOR ITEM							16605697.00	Above/ Below/P ar
01	Please see Item Breakup for details.				16605697.00	AT Par	16605697.00	
	Description:- Supply & Execution							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () D1-NON SOR ITEM							38974885.30	Above/ Below/P ar
01	Please see Item Breakup for details.				38974885.30	AT Par	38974885.30	
	Description:- SUPPLY							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () D2-NON SOR							2375340.00	Above/ Below/P ar
01	Please see Item Breakup for details.				2375340.00	AT Par	2375340.00	
	Description:- SUPPLY							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () E1-NON SOR ITEM							1436448.42	Above/ Below/P ar
01	Please see Item Breakup for details.				1436448.42	AT Par	1436448.42	
	Description:- SUPPLY & EXECUTION							

3. ITEM BREAKUP

Schedule	Schedule C1-NON SOR ITEM					
Item- 01	SUPPLY & EXECUTION					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	01	Supply of AC & DC low current clamp meter with range 1 mA to 100 A; make GTC CM 100 or similar model from make Fluke, Rishabh, KOIKO, STANLEY or similar(Inspection Agency-Consignee)	Numbers	4.00	32117.81	128471.24
2	02	Supply of DC clampmeter FLUKE AC/DC low current model LH-41, Stanley SCM222 or similar(Inspection Agency-Consignee)	Numbers	2.00	54036.57	108073.14
3	03	Supply of Cable fault locator as per specification. Make : Tempo, Stanley or Greenlee. Module SIDEKICK PLUS 1155-5001 or similar(Inspection Agency-RITES)	Numbers	2.00	538151.08	1076302.16
4	04	Casting of cement concrete to protect S&T equipments and laid cables, above pipes, Signal store etc by concrete mixture of cement, sand, stone in the ratio of 1:2:4 using 25 mm graded stone aggregate as per instruction of site in charge of railways. Concrete is to be casted with the help of suitable size shuttering form as per site requirement. Concrete is to be cured for sufficient time as per standard practices on railways(Inspection Agency-Consignee)	Numbers	40.00	4029.70	161188.00
5	05	Switch Plate lubricant - Cenolube 100 or better NLGI 00 GRADE Black colored which should be non asphaltic Non bituminous blend of very heavy oils, inert thickeners and lubricating solids coupled with molybdenum disulfide and graphite with no traces of chlorinated solvent such as 1,1,1 trichloroethane which are flammable and harmful to the environment. Should have a blend of select high viscosity index solvent refined severely hydrofinished paraffin base oils and synthetic base fluids. It should incorporate solid lubricants & organo molybdenum disulphide to fill & lubricate micronized asperities to provide & form many films on the contact surfaces to prevent metal-to-metal contact. It shall be designed to be hand applied providing a tough adherent Lubricant film with Tacky semi-dry finish reducing contaminant adhesion. The grease Should Not form a difficult to remove thick DRY film which requires scrapping & solvent cleaning of Switch Plate specially before reapplication The grease should Not need Cleaning or scrapping before Reapplication. The Grease should be formulated for tropical climates and should not contain pour point depressants and should Not be too thin. The grease shall be Resistant to water wash off & dilution, water insoluble, non-melt and chemically resistant to exposed environment. The grease shall be formulated with Extreme Pressure additives, rust and corrosion inhibitors, anti-wear additives to protect external surfaces against the harsh elements in severe climates, thus reducing rust binding and adhesive wear on switch plates Four Ball Weld LOAD (ASTM- D2596) >600 Kg, Copper corrosion 24 hrs @ 100c (ASTM D 4048) 1a - 2e packing Size 20 kg /25kg Drum.'(Inspection Agency-Consignee)	Kg	240.00	4950.00	1188000.00
6	06	Supply of Quad cable conductor earth resistance sensing unit, microprocessor based for 24 no. of conductors with meretring facility for one conductor at a time as per attached technical specification. (Inspection Agency-Consignee)	Numbers	23.00	91900.79	2113718.17

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7	07	Supply of Microcontroller based programmable static switching module of Naturally air-cooled only with an at a glance LCD display suitable for break-less switching between two DC supplies of upto 40 A for 20-110 VDC . (Inspection Agency-RITES)	Numbers	20.00	76702.06	1534041.20
8	08	Installation of Microcontroller based programmable static switching module of Naturally air-cooled only with an at a glance LCD display suitable for break-less switching between two DC supplies of upto 40 A for 20-110 VDC . (Cable by Railways)(Inspection Agency-Consignee)	Numbers	20.00	6185.62	123712.40
9	09	Set of SK 30H double rail contact with 5.5 meter Cable for Multisection Digital Axle Counter, (MSDAC) as per RDSO Spec. No. RDSO/SPN/176/2013 Make/ Eldyne Electro-systems Pvt Ltd. Version 3(Inspection Agency-RDSO)	Numbers	4.00	214311.60	857246.40
10	10	Digital Card for SSDAC, Eldyne make part no 3CR31010PFAA, Make: Eldyne Electro-systems Pvt. Ltd.(Inspection Agency-RDSO)	Numbers	2.00	172870.00	345740.00
11	11	PDCU for Multi section digital axle counter (MSDAC) as per RDSO/SPN/176/2005 Make Eldyne electro System Pvt. Ltd. (Inspection Agency-RDSO)	Numbers	4.00	25373.07	101492.28
12	12	Supply and Placing of Trunking and Capping (RCC Duct) of500mm Width as per Drg. No. SDO/Cable laying/ 007 , as detailed in document No. RDSO/SI/G/2010 Ver.1.1 orlatest on 'Guidelines on signalling cable laying'(Inspection Agency-Consignee)	Numbers	2500.00	1303.56	3258900.00
					Total	10996884.99
Schedule Schedule C2-NON SOR ITEM						
Item- 01 Supply & Execution						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01	Supply and Placing of Trunking and Capping (RCC Duct) of500mm Width as per Drg. No. SDO/Cable laying/ 007 , as detailed in document No. RDSO/SI/G/2010 Ver.1.1 orlatest on 'Guidelines on signalling cable laying'(Inspection Agency-Consignee)	Numbers	4000.00	1303.56	5214240.00
2	02	Supply of Quad cable conductor earth resistance sensing unit, microprocessor based for 24 no. of conductors with meretring facility for one conductor at a time as per attched technical specification.(Inspection Agency-RITES)	Numbers	15.00	96423.03	1446345.45
3	03	Casting of cement concrete to protect S&T equipments,store and laid cables, above pipes etc by concrete mixture of cement, sand, stone in the ratio of 1:2:4 using 25 mm graded stone aggregate as per instruction of site in charge of railways. Concrete is to be casted with the help of suitable size shuttering form as per site requirement. Concrete is to be cured for sufficient time as per standard practices on railways(Inspection Agency-Consignee)	cum	600.00	4524.43	2714658.00
4	04	Chase cutting 500 mm deep in hard rocky area as per Drg No CORE/ S&T/ALD/SK/579/04 per metre(Inspection Agency-Consignee)	Metre	8000.00	303.58	2428640.00
5	05	Supply of 120mm HDPE pipe for laying inHorizontal Borring (Inspection Agency-Consignee)	Metre	300.00	802.78	240834.00

**MUMBAI-CST-DIVISION-S AND T/CENTRAL RLY
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6	06	Digital Electronic WeighingScale, Load Capacity of 100Kg, Resolution minimum 10grm. Battery backup withcalibration certificate.(Inspection Agency-Consignee)	Numbers	1.00	10974.70	10974.70
7	07	Supply of Integrated smoke and heat detector tester with smoke chamber cleaning features SHT-001, containing following accessories - sensor unit-1, Battery rod-1, Injector-1, mist liquid -1, charger-1, connect rod-4. (Inspection Agency-Consignee)	Numbers	1.00	96760.00	96760.00
8	08	Digital Multimeter ACCEPTED MAKE - FIUKE289 OR similar.(Inspection Agency-Consignee)	Numbers	5.00	123900.00	619500.00
9	09	Supply of Microcontroller based programmable static switching module of Naturally air-cooled only with an at a glance LCD display suitable for break-less switching between two DC supplies of upto 40 A for 20-110 VDC . (Inspection Agency-Consignee)	Numbers	20.00	76818.00	1536360.00
10	10	Installation of Microcontroller based programmable static switching module of Naturally air-cooled only with an at a glance LCD display suitable for break-less switching between two DC supplies of upto 40 A for 20-110 VDC . (Cable by Railways)(Inspection Agency-RITES)	Numbers	20.00	6195.00	123900.00
11	11	STOWAGE Mild Steel Heavy Duty Storage Racks, Warranty 3 year Brand: STOWAGE (Detailed Description/Specification as per Product # 1 of GeM Contract No. GEMC-511687734841527 dt.23/09/2024) No. of Shelves (nos) -3 Height-2500 millimeter, Length-1500 millimeter,Width-875 millimeter(Inspection Agency-Consignee)	Numbers	5.00	35500.00	177500.00
12	12	Steel locker 12 compartment steel clothes locker H1830mmXW375mm XD450mm. Make Hariom, Godrej or simi(Inspection Agency-Consignee)	Numbers	6.00	27900.00	167400.00
13	13	Supply of cable route marker as per RST/C/203 of FRP(Inspection Agency-Consignee)	Numbers	500.00	401.17	200585.00
14	14	Digital Clamp on earth tester with automatic self-calibration, Jaw capacity 32mm, 4 digit LCD display with 47 x 28.5mm in length, automatic range selection and 0.01ohm to 100 ohm resistance measurement range of model WACO 1200 or similar with carry case. The equipment shall be possible to measure the earth resistance value without any connecting lead.(Inspection Agency-Consignee)(Inspection Agency-Consignee)	Numbers	2.00	19824.00	39648.00
15	15	Supply of GPS tagging featured cable route locator/tracer set suitable fordetecting underground armoured optic fiber cable (OFC) and signaling cables with LCD Graphic Display active/passive modes and depth range. 3M-10m. Model STLOC10 GPS make Stanlay or equivalent.(Inspection Agency-Consignee)	Numbers	2.00	480337.83	960675.66
16	16	Augmentation of Integrated PowerSupply DC-DC converter as per RDSOSPN 165/2012-Supply of module 24-32V, 5A.(Inspection Agency-Consignee)(Inspection Agency-RDSO)	Numbers	10.00	13266.80	132668.01
17	17	Augmentation of Integrated PowerSupply DC-DC converter as per RDSOSPN 165/2012-Supply of module 60-66V, 5A Numbers(Inspection Agency-RDSO)	Numbers	10.00	14663.30	146633.00

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18	18	Supply of AC & DC low current clamp meter with range 1 mA to 100 A; make GTC CM 100 or similar model from make Fluke, Rishabh, KOIKO(Inspection Agency-RDSO)	Numbers	2.00	37249.02	74498.04
19	19	Supply of lateral filling cabinet 3ft to store circuit diagrams(godrej) or similar(Inspection Agency-Consignee)	Numbers	6.00	14227.24	85363.44
20	20	Supply of panel operator record table Model T102 (Godrej) (Inspection Agency-Consignee)	Numbers	6.00	10265.27	61591.62
21	21	Supply of panel operator Chair model PCH-7001 (Godrej) (Inspection Agency-Consignee)	Numbers	12.00	10576.84	126922.08
					Total	16605697.00

Schedule Schedule D1-NON SOR ITEM

Item- 01 SUPPLY

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01	"Supply of Digital Axle Counter Multi section type complete sysem including the Central Evaluator and final track clearance relay for each section, Reset boxes, LV boxes, All track side units with detection point complete assembly & fixing arrangement for each detection point, clamps deflector for either side of each detection points, monitoring console for monitoring all the DPs at a time installed at a station/ RH/IBH etc. with all other accessories fully wired and fully equipped as per RDSO specification No.RDSO/SPN/176/2013 (ver.3) or latest and manufacturers specification. The equipment must also include the following : a) System must have remote monitoring and health diagnostics feature as per RDSO specification. b) Surge protection device. c) 20% spare slots for the both detection heads and track section in the evaluator for future and emergenc provision. Each set also consisting of a) Double rail contact of standard length of cable as per site requirement and mounting accessories - Equal to no. of DP. b) Deflectors to safeguard Rail Contact will be TWICE the no. of DPs. c) Protecting tube from DP to railhead as per requirement. d) Diagnostic PC as per specification and other accessories (as per Annexure-XXII) e) Pre-wired cabinet/rack no. as per site requirement. f) 6 Nos. Electrostatic Discharge Wrist Band for cards/modules protection. g) Toolkit as per annexure""(UNIT NUMBER SHOULD BE READ AS PER DP)(Inspection Agency-RDSO)	Per Detection Point (DP)	130.00	299806.81	38974885.30
					Total	38974885.30

Schedule Schedule D2-NON SOR

Item- 01 SUPPLY

S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
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**MUMBAI-CST-DIVISION-S AND T/CENTRAL RLY
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Tender No: CR-BB-SNT-NORTH-2026-72

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1	01	Supply of - [i] SMPS based Integrated Power Supply System without MFVRLA Battery set conforming to RDSO Specifications RDSO/SPN/165/2012 Version 3.0 with later amendment for PI station as per Central Rly. Drg.No.PA/DRG/EI/IPS/03(L)/01 with later correction if any, attached as Annexure. Scope of Supply, Checking of Installation, testing and commissioning of IPS shall be as per RDSO letter No.STS//E/IPS/Genl Dated 03/04/2008 or Latest if any. [ii] Sealed Maintenance free VRLA battery set of 60 Cells (Stackable), in combination of 55+5 Cells for SMPS based integrated power supply system, each cell of 2 Volt/300 AH Capacity, fully charged conforming to RDSO Specification No.IRS:S:93/96(A) with later amendment, complete with connecting links and suitably numbered in stackable racks along with user manuals.(Inspection Agency-RDSO)	Set	2.00	1187670.00	2375340.00
Total						2375340.00
Schedule Schedule E1-NON SOR ITEM						
Item- 01 SUPPLY & EXECUTION						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01	Supply, Installation,Testing &Commissioning ofIntegrated powersupply (IPS) i) SMPSbased integrated powersupply system withoutMFVRLA battery setconforming to RDSOSpecificationRDSO/SPN/165/2012Version 3.0 with lateramendment for Pystation as per CentralRly. Drg.No.SK-793/Awith later correction ifany, Scope of supply,Checking ofinstallation, testing andcommissioning of IPSshall be as per RDSOletterNo.STS/E/IPS/GenlDated 03/04/2008 orlatest if any ii) SealedMaintenance free VRLAbattery set of 60 Cells (stackable), incombination of 55+5 Cells for SMPS basedintegrated powersupply system cell of 2Volt/300 AH Capacity,fully chargedconforming to RDSOSpecification No.IRS:S:93/96(A) withlater amendment.,complete withconnecting links andsuitably numbered instackable racks alongwith user manuals (Inspection Agency-RDSO)	Set	1.00	1436448.42	1436448.42
Total						1436448.42

4. ELIGIBILITY CONDITIONS

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

Standard Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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**MUMBAI-CST-DIVISION-S AND T/CENTRAL RLY
TENDER DOCUMENT**

Tender No: CR-BB-SNT-NORTH-2026-72

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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-XXXIII, 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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Standard Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	a)The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: (i)Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or (ii)Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or (iii)One similar work costing not less than the amount equal to 60% of advertised value of the tender.	No	No	Allowed (Mandatory)
1.1	Defination of Similar Work :- Any signalling work including supply, installation, testing and commissioning of RRI/PI/EI/Track Circuiting/Second Distant Signal/ABS/IBS/Interlocking of LC Gates/SSDAC/MSDAC work.	No	No	Not Allowed

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

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

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

S.No.	Description
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**MUMBAI-CST-DIVISION-S AND T/CENTRAL RLY
TENDER DOCUMENT**

Tender No: CR-BB-SNT-NORTH-2026-72

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1	Partnership firm/Joint Venture (JV) / Hindu Undivided Family (HUF) / Limited Liability Partnership (LLP) etc. Please submit a certificate in the prescribed format (please download the format from the link given below). Non submission of the certificate, or submission of certificate either not properly filled in, or in a format other than the prescribed format shall lead to summary rejection of your offer. (Click here to download the Format of Self Certification)
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5. COMPLIANCE

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

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	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	Tender document, Scope of work & GCC 2022 are attached with the tender.	No	No	Not Allowed

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	I have read the entire tender document including uploaded documents.	No	No	Not Allowed
2	I/we have visited the site and I am/We are aware about site condition.	No	No	Not Allowed

Custom

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Mandatory documents as per clause 1.0.2 of the Tender documents are required to be submitted along with bid. Offer not accompanied by these documents will be summarily rejected	No	No	Allowed (Mandatory)
2	Documents for evaluating the Bid Capacity, for tenders having advertised value more than Rs.10.00 crore (Ref: Clause 10.3 and for tenderer participating as JV firm Clause 17.15.3 of TENDER FORM (Second Sheet) along with Annexure-VI of GCC APRIL 2022 OR LATEST.	No	No	Allowed (Mandatory)
3	If the tenderer want to submit any other documentary evidence in support of the offer like list of men, material, tools & plant availability etc.	No	Yes	Allowed (Optional)
4	Tenderer Remarks if any.	No	Yes	Allowed (Optional)
5	All the bidders/tenderers should ensure that they are GST complaint and their quoted tax structure/rates are as per GST LAW	Yes	Yes	Allowed (Optional)

6. Documents attached with tender

S.No.	Document Name	Document Description
1	GCC_April-2022.pdf	GCC 2022
2	CORRECTIONS1to11GCC2022_compressed.pdf	GCC CORRECTION SLIP 1 TO 11
3	FINALNEWTENDERDOC2026-721.pdf	TENDER DOC

**MUMBAI-CST-DIVISION-S AND T/CENTRAL RLY
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Tender No: CR-BB-SNT-NORTH-2026-72

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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: ALOK KUMAR

Designation : Sr.DSTE/North