

**SECUNDERABAD DIVISION-S AND T/SOUTH CENTRAL RLY
TENDER DOCUMENT**

Tender No: C_SG_36_607

Closing Date/Time: 30/06/2026 16:00

Sr.DSTE/SC acting for and on behalf of The President of India invites E-Tenders against Tender No **C_SG_36_607** Closing Date/Time 30/06/2026 16:00 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	SIGNALLING & TELECOMMUNICATION ARRANGEMENTS IN CONNECTION WITH PROVIDING LONGER LOOP AT NASHKAL (NSKL) STATION IN UP LOOP LINE TOWARDS SC END and GHANPUR (GNP) STATION IN DN LOOP LINE TOWARDS KZJ END		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	30/06/2026 16:00	Date Time Of Uploading Tender	09/06/2026 14:53
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	119146974.16	Tendering Section	S AND T
Bidding Style	Single Rate for Each Schedule Item	Bidding Unit	
Earnest Money (Rs.)	2382900.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	0.00	Period of Completion	12 Months
Contract Type	Works - General	Contract Category	Expenditure
Bidding Start Date	16/06/2026		
Are JV allowed to bid	Yes	Number of JV Member Allowed	3
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A- SUPPLY SOR PORTION							29457670.00	
01	Please see Item Breakup for details.				29457670.00	AT Par	29457670.00	Above/ Below/P ar
	Description:- SUPPLY SOR PORTION							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B- SUPPLY NON SOR PORTION							6370414.06	
02	Please see Item Breakup for details.				6370414.06	AT Par	6370414.06	Above/ Below/P ar
	Description:- SUPPLY NON SOR PORTION							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () C- LABOUR SOR PORTION							33459859.00	
03	Please see Item Breakup for details.				33459859.00	AT Par	33459859.00	Above/ Below/P ar
	Description:- LABOUR SOR PORTION							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () D- LABOUR NON SOR PORTION							4889645.10	
04	Please see Item Breakup for details.				4889645.10	AT Par	4889645.10	Above/ Below/P ar

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Description:- LABOUR NON SOR PORTION								
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () E-ELECTRONIC INTERLOCKING							44969386.00	
05	Please see Item Breakup for details.				44969386.00	AT Par	44969386.00	Above/ Below/P ar
	Description:- ELECTRONIC INTERLOCKING							

3. ITEM BREAKUP

Schedule	Schedule A- SUPPLY SOR PORTION					
Item- 01	SUPPLY SOR PORTION					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply of Permanently lubricated HDPE Duct with outer diameter of 40mm and inner diameter of 33mm as per specification RDSO/SPN/TC/45/2013 Revision 2.0. The length of the duct shall be 1km. Two end plugs shall be provided along with the drum.(To be inspected by RITES)	Kilometre	8.00	66223.00	529784.00
2	2	Supply of Plastic couplers - Slip fit / push type for permanently lubricated HDPE duct. (To be inspected by CONSIGNEE)	Numbers	24.00	85.00	2040.00
3	3	Supply of End plug for permanently lubricated HDPE duct (To be inspected by CONSIGNEE)	Numbers	24.00	34.00	816.00
4	4	Supply of Cable sealing plugs for permanently lubricated HDPE duct.(To be inspected by CONSIGNEE)	Numbers	24.00	43.00	1032.00
5	5	Supply of appropriate OFC patch cords (1.5 meter long) as per direction of Engineer In charge, having insertion loss less than or equal to 0.1dB as per Telecommunication Engineering Centre (TEC) standard TEC 87070:2009 with GR TEC/T/OFCOFJ/ 155/2013 or latest. SC - LC TYPE (To be inspected by CONSIGNEE)	Numbers	24.00	1770.00	42480.00
6	6	Supply of Rotary duct cutter suitable for cutting HDPE ducts of diameter 20mm to 42mm. The duct cutter shall have a facility of replaceable blades. The blades shall be of high carbon steel.(To be inspected by CONSIGNEE)	Numbers	12.00	1046.00	12552.00
7	7	Supply of Thermo shrink jointing kit for jointing underground 0.9mm dia conductor 6 quad cable as per specification IRS: TC 77-2012 Rev. 3 (Amd. 1 to Amd. 3) or latest. (To be inspected by RDSO)	Numbers	60.00	3715.00	222900.00
8	8	"Supply of GKP type Location Boxes Full size as per drg. No. S&T/MFT/2378 (Single) (Apparatus case Single)"(To be inspected by RITES)	Numbers	128.00	16216.00	2075648.00
9	9	Supply of GKP type Location Boxes Half size drg. No. S&T/MFT/2378 (Half) (Apparatus case Half)(To be inspected by RITES)	Numbers	40.00	8083.00	323320.00

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10	10	"Supply of 'E' type locks of different wards as per requirement with key per E-type lock to Drg. No. SA.3376 / M /Latest and RDSO Specn. No. IRS. S.30 / 64. Note: Ward number will be as per site supervisor instructions"(To be inspected by RITES)	Numbers	188.00	1051.00	197588.00
11	11	Supply of relay fixing frame for full location box. The frame shall be of approximate size 940mmx150mm and made with powder coated MS angle of 25mmx25mmx 3mm. The frame shall have suitable holes to fix in full location box.(To be inspected by CONSIGNEE)	Numbers	280.00	853.00	238840.00
12	12	Supply of Universal Locks with one steel key for every ten locks or part there of (For example, if locks ordered is 10, 1 key is to be supplied and if locks ordered is 20, 2 keys to be supplied. However, 2 keys to be supplied if locks ordered is between 11 and 19).(To be inspected by CONSIGNEE)	Numbers	280.00	195.00	54600.00
13	13	"Supply of the following resistors / condensers / diodes. a) 50V, 470µF electrolytic capacitor - 20 Nos. b) 50V, 1000µF electrolytic capacitor - 20 Nos. c) 50V, 2200µF electrolytic capacitor - 20 Nos. d) 100, 10W wire wound resistance - 20 Nos. e) BY127 diode - 10 Nos. f) PVC Insulation tapes of 25m length - 25 Nos" (To be inspected by CONSIGNEE)	Set	16.00	3766.00	60256.00
14	14	Supply of Surface Base 140mm dia. CLS post as per DRG.. No. S 2011/M (To be inspected by RITES)	Numbers	32.00	3476.00	111232.00
15	15	"Supply of CLS Post 140mm dia to specification IRS:S 6-81 Rev.3 or latest 3.5 Meters long" (To be inspected by RITES)	Numbers	8.00	4442.00	35536.00
16	16	"Supply of CLS Ladder set complete with staging/platform, supports, cast iron ladder base/Shoe. Ladder for 3.5m post as per DRG.. No. SA 23150, S 2033 or latest"(To be inspected by RITES)	Set	8.00	5226.00	41808.00
17	17	"Supply of CLS Post 140mm dia to specification IRS:S 6-81 Rev.3 or latest 4.5 Meters long"(To be inspected by RITES)	Numbers	24.00	4710.00	113040.00
18	18	"Supply of CLS Ladder set complete with staging/platform, supports, cast iron ladder base/Shoe. Ladder for 4.5m post as per DRG.. No. SA 23150, S 2033 or latest"(To be inspected by RITES)	Set	24.00	6432.00	154368.00
19	19	"Supply of Metallic (MS) colour light Signal Unit. 2 aspect complete as per DRG.. No. SA. 23003/A/M (Adv.) with latest amendment and specification IRS: S 26-64 or latest"(To be inspected by RITES)	Numbers	14.00	12998.00	181972.00
20	20	"Supply of Metallic (MS) colour light Signal Unit. 3 aspect complete as per DRG.. No. SA. 23003/A/M (Adv.) with latest amendment and specification IRS: S 26-64 or latest"(To be inspected by RITES)	Numbers	14.00	17623.00	246722.00
21	21	4 aspect complete as per DRG. No. SA. 23001/A/M (Adv.) with latest amendment and specification IRS: S 26-64 or latest. (To be inspected by RITES)	Numbers	4.00	18820.00	75280.00

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22	22	Supply of Offset Bracket to suit 140mm dia CLS post with two numbers of U bolts and nuts complete.(To be inspected by RITES)	Numbers	4.00	4938.00	19752.00
23	23	"Supply of Junction type / Direction type route indicator as per specification IRS:S 66-84 Amd. 1 or latest. Four way to drawing no.SA.23404"(To be inspected by RITES)	Numbers	4.00	27612.00	110448.00
24	24	Supply of Calling On Signal Unit complete with U Bolts as per RDSO DRG. No. SA.24351 (Adv.) or latest.(To be inspected by RITES)	Numbers	24.00	4740.00	113760.00
25	25	Supply of Ground type position light shunt signal complete with base, pipe, arrow mark and hoods as per RDSO DRG. No. SA 23840 or latest.(To be inspected by RITES)	Numbers	10.00	6083.00	60830.00
26	26	Supply of Post type position light shunt signal with hoods, arrow mark and offset bracket to suit 90mm sockets (CLS) with two numbers of 'U' bolts and nuts complete to fix shunt signal below main stop signal as per RDSO DRG. No. SA 23840 or latest(To be inspected by RITES)	Numbers	14.00	3502.00	49028.00
27	27	"Supply of Ground connections for point machines Ground connections for universal point machine 143 mm with 'D' type clamp for 52kg / 60 kg / 90R rail as per Drg. No. RDSO / S3267-74"(To be inspected by RITES)	Set	19.00	8670.00	164730.00
28	28	"Supply of following ground connections suitable for 220mm electric point machine & thick web switch as per drawing No. RDSO/S-3454AltB or latest (a) Lock long rod as per RDSO Drgno3596Alt-1 :1 no. (b) Lock short rod as per RDSO Drg no3597 :1 no (c) Detector long rod as per RDSO Drg no3594Alt-1:1no (d) Detector short rod as per RDSO Drg no3595 : 1no P Bracket: 2nos" (To be inspected by RITES)	Set	22.00	14160.00	311520.00

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29	29	"Ground connection insulations for thick web switch layout facing point (BG) for 52kg/60kg rail fitted with high thrust point machine comprising of the following: 1. Bush as per DRG.No.S3463-1no.and Washer as per DRG. No.S8640-2no.for drive (throw) rod 2. Bush as per DRG.No.S 23199-1no and Washer as per DRG. No. S 8640-2no for short detector rod. 3. Bush as per DRG.No.S 23199-1no and Washer as per DRG.No.S 8640-2no for long detector rod. 4. Bush as per DRG.No.S 22179-1no and Washer as per DRG .No. S 8640-2no for short lock rod. 5. Bush as per DRG.No.S 22179-1no and Washer as per DRG. No .S 8640-2no for long lock rod. 6. Bush 'B' as per DRG.No.S 8912 for LH lock slide-1 no. 7. Bush 'B' as per DRG.No.S 8912 for LH lock arm-2 no. 8. Bush 'B' as per DRG.No.S 8912 for RH lock arm -2 no. 9. Bush 'B' as per DRG.No.S 8912 for RH lock slide-1no. 10. Bush as per DRG.No.S 23199 -4no and washer as per DRG.No.S 8640-4no for LH lock slide. 11. Insulating Plate LH as per DRG.No.S 3404 RDSO/S 3593- 1no. 12. Insulating Plate RH as per DRG.No.S 3404 RDSO/S 3592- 1no. 13. Bush as per DRG.No.S 23199-4no and washer as per DRG.No.S 8640-4no for RH lock slide." (To be inspected by CONSIGNEE)	Numbers	15.00	1074.00	16110.00
30	30	Insulations for 'D' clamp switch extension bracket to suit to universal point machine as per drawing RDSO / S3361-62 supplied by railways. One set consists of 'D' clamp insulation-2nos, Nylon insulation bushes-4nos., and Nylon insulation washers-8Nos.)(To be inspected by CONSIGNEE)	Set	22.00	729.00	16038.00
31	31	Drive lug insulation for universal point machine as per drawing RDSO / S 3361 - 6 2 (One set consists of one number central insulation plate, bushes-2 no's and washer-4 Nos.) (To be inspected by CONSIGNEE)	Set	22.00	160.00	3520.00
32	32	"Supply of GI termination box (10 SWG) for point machine of size 45 cmx23 cmx12 cm with double coat of enamel paint (outside: Black & inside: white) along with 2no's of MS angle of size 50x50x6mm of length 1000mm each, 2 numbers of 40mm GI pipe of length 450 mm & 150 mm with nuts / washers and teak wood plank of size 40 mmx25 mm for fixing of terminals. (All materials are to be arranged by the contractor)."(To be inspected by CONSIGNEE)	Numbers	22.00	2902.00	63844.00
33	33	Supply of 50V, 10000µF electrolytic condenser of reputed brands like Philips / Keltron or similar(To be inspected by CONSIGNEE)	Numbers	44.00	486.00	21384.00
34	34	Supply of Track feed battery charger to work on 110V AC for charging 1or 2 or 3 or 4 lead acid cell of 80AH (10Amps) used in track circuit as per RDSO Specn. No. IRS.S.89/2013 Ver 1.0 latest.(To be inspected byRDSO)	Numbers	80.00	8294.00	663520.00

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35	35	Supply of Track Feed Regulating Resistance disk type 0 to 30 as per DRG. No. SA 20161 66 / M or latest. To be procured from RDSO approved firms.(To be inspected by RDSO)	Numbers	80.00	358.00	28640.00
36	36	Supply of B type chokes to as per specification IRS: S65- 83 Amd.1 or latest. (To be inspected by RDSO)	Numbers	160.00	2313.00	370080.00
37	37	Supply of Track lead junction boxes fibre glass as per DRG.No.CWM-00597 of F.R.P material to and specification IRS:S 23 along with fixtures i.e., one MS angle 50mmx50mmx5mm, 0.9m long, two numbers of G.I pipes of 25 mm dia, 500 mm long along with nuts and bolts and 500 mm long (grommet bushes, 60 mm ARA terminals-2 No's). (This includes grommet bushes,60mm PBT Terminals).. (To be inspected by RITES)	Numbers	400.00	1546.00	618400.00
38	38	Supply of Channel bond pins 7mm dia single groove as per specification IRS: S 17-75 Amd.1 or latest.(To be inspected by CONSIGNEE)	Numbers	2000.00	3.00	6000.00
39	39	Supply of titanium coated 7.2 mm drill bits of Bosch/Addision make. (To be inspected by CONSIGNEE)	Numbers	200.00	146.00	29200.00
40	40	Supply of Distilled water for topping of secondary cells as per specification IS 1106 or latest. (To be inspected by CONSIGNEE)	Litre	1000.00	10.00	10000.00
41	41	Supply of Hydrometer as per IS: 3104 (Part II)-1982 or latest (To be inspected by CONSIGNEE)	Numbers	8.00	277.00	2216.00
42	42	Supply of Surveyor's Wheel (rodrometer). (To be inspected by CONSIGNEE)	Numbers	2.00	4245.00	8490.00
43	43	Supply of Electric Track Drilling machine shall be suitable for operating on 110V, 50Hz AC / DC fully insulated and no-load RPM shall be 1900 / 1000 and the power input is 550W. Machine with suitable interchangeable track mounting stand and drilling to be designed with adjustable facility and along with a set of 20 no's of 7.2 mm dia Bosch MSS drill bit, Drill check dia. 13 mm and drilling dia in steel 8 mm/13 mm along with packing accessories.To be inspected by CONSIGNEE)	Numbers	2.00	22602.00	45204.00
44	44	Supply of Galvanised Wire rope 6/19 steel, 6 mm dia with fibre core as per specification IS 3459/2004 or latest.(To be inspected by CONSIGNEE)	Metre	300.00	80.00	24000.00
45	45	Supply of Galvanised Wire rope 6/19 steel, 6 mm dia with fibre core as per specification IS 3459/2004 or latest, with PVC sheathing 2 mm thick, type 6 compound IS 5831/1979 or latest (outer dia10 mm)(To be inspected by CONSIGNEE)	Metre	300.00	120.00	36000.00
46	46	Supply of Single Section Digital Axle Counter (SSDAC) as per specification No. RDSO/SPN/177/2012 Ver. 3.0 or latest within built event logger card. (To be inspected byRDSO)	Set	8.00	674335.00	5394680.00

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47	47	"Axle detectors (each set consists of 2 numbers Tx and 2 numbers Rx coils) Note: Make and type of TX/Rx coils will be decided by the site supervisor as per the site requirement"(To be inspected by RDSO)	Set	4.00	55951.00	223804.00
48	48	"Supply of Transformer - Rectifier as per specification IRS: S 91-2014 Ver. 1.0 or latest. Transformer-rectifier set with 110V AC input, 24V-30V DC output, 1A." (To be inspected by RITES)	Numbers	4.00	19470.00	77880.00
49	49	"Supply of Transformer - Rectifier as per specification IRS: S 91-2014 Ver. 1.0 or latest. Transformer-rectifier set with 230V AC input, 24V-30V DC output, 5A." (To be inspected by RITES)	Numbers	4.00	25960.00	103840.00
50	50	Supply of Battery Charger of capacity 230V AC / 110V DC, 30A single phase, signalling / telecom. Installation as per specification IRS: S 86-2000 Amd. 4 or latest. Supply of 24 V DC plug-in type miniature tractive armature, AC immune relay complete with plug board, retaining clip/ATC Clip and connectors as per IRS: S 23-88 Amd. 1 or latest, IRS: S 34-68 Amd. 6 or latest, IRS: S 60-78 Amd. 1 or latest, IRS: S 67-85 Amd. 3 or latest (as applicable). (To be inspected by RDSO)	Numbers	4.00	110464.00	441856.00
51	51	QN1- 8F/8B, 24 V DC. The interlocking code: ABCDF. (To be inspected by RDSO)	Numbers	120.00	4400.00	528000.00
52	52	QN1-12F/4B, 24 V DC. The interlocking code: ABCDE.(To be inspected by RDSO)	Numbers	120.00	4283.00	513960.00
53	53	QNA1- 8F/8B, Interlocking Code: ABDGH as per Spec BRS 931 A or Latest (To be inspected by RDSO)	Numbers	120.00	4738.00	568560.00
54	54	QNA1-12F/4B, DC Neutral Line Relay, Interlocking Code: ABDFH as per Spec BRS 931 A or Latest(To be inspected by RDSO)	Numbers	120.00	4413.00	529560.00
55	55	QNA1K-6F/6B, Interlocking Code: CDEKY as per Spec BRS 931 A or Latest and RDSO letter No.STS/E/Relays/UEA (PI) dated 30/05/97 (Annexure-II). (To be inspected by RDSO)	Numbers	120.00	5062.00	607440.00
56	56	QSPA1- 8F/4B, The interlocking code: ABDEJ, Spec BRS 933A or latest. (To be inspected by RDSO)	Numbers	84.00	6465.00	543060.00
57	57	Supply of ECR 4F/4B' for 110V AC lit LED signals, complete with plug board, retaining clip and connectors as per RDSO specification No.STS/E/Relays/AC Lit LED Signal/09-2002 Amd. 1 or latest, BRS 941A, IRS: S 23-88 Amd. 1 or latest, IRS: S34-68 Amd. 6 or latest, IRS: S 67-85 Amd. 3 or latest (as applicable). The interlocking code for this unit shall be ABDHK (with ATC clips). (To be inspected by RDSO)	Numbers	150.00	5841.00	876150.00
58	58	Supply of 24 V DC plug-in type miniature tractive armature, AC immune relay complete with plug board, retaining clip/ATC Clip and connectors as per IRS: S 23-88 Amd. 1 or latest, IRS: S 34-68 Amd. 6 or latest, IRS: S 60-78 Amd. 1 or latest, IRS: S 67-85 Amd. 3 or latest (as applicable). QBCA1- 2HF/4B, Interlocking code: BCEJK as per specifications BRS 943 or Latest (To be inspected by RDSO)	Numbers	60.00	8307.00	498420.00

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59	59	"Supply of Q series Magnetically Latched (QL1) type Relay,24V DC, complete with plug board with connectors and retaining clips confirming to BRS 935A and RDSO specification IRS S:34 & IRS S:23 or latest. QL1- 11F/4B, The interlocking code: ABDEG"(To be inspected byRDSO)	Numbers	54.00	5701.00	307854.00
60	60	Supply of AC immune, plug-in type, Style 'QTA2', 2F/1B DC Neutral track relay for railway signalling track circuits with coil resistance 9 ohm, complete with plug board, retaining clip and connectors as per specifications: BRS 939A & 966 or Latest, IRS:S 23-88 Amd. 1 or latest, IRS: S 34-68 Amd. 6 or latest, IRS: S 67-85 Amd. 3 or latest (as applicable) with interlocking code FGHKX.(To be inspected by RDSO)	Numbers	84.00	4806.00	403704.00
61	61	Supply of Multi-strand, single core, copper conductor 16/0.2 (16 wires, diameter of each wire is 0.20mm) (0.5sq.mm) wire coil as per specifications IS 694:2010 or latest, IRS: S 76-89 Amd. 3 or latest. Length of coil should be 100m. Colour of coil to be specified by Engineer in charge.(To be inspected byRDSO) (To Be measured in COILS)	Numbers	600.00	1153.00	691800.00
62	62	Multi-strand, single core, copper conductor 28/0.3 (28 wires, diameter of each wire 0.30mm) flexible wire coil as per specifications IS 694:2010 or latest, IRS: S 76-89 Amd. 3 or latest. Length of coil should be 100m. Colour to be specified by Engineer in charge.(To be inspected by RDSO) (To Be measured in COILS)	Numbers	60.00	2908.00	174480.00
63	63	Supply of 35 Sq.mm PVC insulated multi-strand, single core, copper conductor 277/0.4 (277 wires, diameter of each wire is 0.4mm) cable as per IS:694 or latest, IRS: S 76-89 Amd. 3 or latest. Cable to be supplied in 100-meter coil. Colour to be specified by Engineer in charge.(To be inspected by RDSO/RITES)	Metre	200.00	391.00	78200.00
64	64	Supply of 16 Sq.mm PVC insulated, multi-strand, single core, copper conductor 127/0.4 (127 wires, diameter of each wire is 0.4mm) cable as per IS: 694 or latest, IRS: S 76-89 Amd. 3 or latest. Cable to be supplied in 100 meter coil. Colour to be specified by Engineer in charge. (To be inspected by RDSO/RITES)	Metre	200.00	178.00	35600.00
65	65	Supply of 10 Sq.mm PVC insulated, multi-strand, single core, copper conductor 140/0.3 (140 wires, diameter of conductor 0.3mm) cable as per IS: 694 or latest, IRS: S 76-89 Amd. 3 or latest. Cable to be supplied in 100 meter coil. (TO Be Inspected in RDSO/RITES)	Metre	6000.00	124.00	744000.00
66	66	Supply of non-deteriorating type of fuse holders and fuse links 240V AC/DC as per specification IRS: S 78-2006 or latest, IS 13703 (Part 2):1993 knife edge type fuse of E1 fuse link type (up to 20A) Fuse holder 20A capacity (To be inspected by RDSO)	Numbers	600.00	220.00	132000.00
67	67	Fuse link 1A / 2A / 6A / 10A / 16A / 20A as specified by Engineer In charge. (To be inspected byRDSO)	Numbers	900.00	31.00	27900.00

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68	68	Supply of Terminal block: 1 way Poly butylene Terephthalate (PBT) of size 60mm (link centre to centre) as per RDSO DRG. No. SA23745/Alt.5 or latest, SA23746/Alt.5 or latest, S23747/Alt.5 and specifications IRS: S 75-2006 Rev. 2.0 (Tentative) or latest, IRS: S 23-88 Amd. 1 or latest.(To be inspected by RDSO)	Numbers	97.00	500.00	48500.00
69	69	Supply of Terminal block: 6 way Poly butylene Terephthalate (PBT) of size 25mm (link centre to centre) as per RDSO DRG. No. SA23756/Alt.3 or latest, S23757/Alt.4 or latest and specifications IRS: S 75-2006 Rev. 2.0 (Tentative) or latest, IRS: S 23-88 Amd. 1 or latest. (To be inspected by RDSO)	Numbers	800.00	406.00	324800.00
70	70	"Supply of modular terminal block (WAGO or similar) as per RDSO specification RDSO/SPN/189/2004 Ver. 3.0 or latest consisting the following parts: a) 2 conductor disconnect terminal block - 6 numbers b) End / intermediate plate suitable for 2 conductor disconnect terminal - 1 number c) Screw less end stop similar to WAGO Model No. 249-117 - 2 numbers d) Insulated jumper WAGO Model 280-402 - 5 numbers e) Din Rail - 0.1 metre per set (in length of 1 metre for every ten set)" Supply of Permanently lubricated HDPE Duct with outer diameter of 40mm and inner diameter of 33mm as per specification RDSO/SPN/TC/45/2013 Revision 2.0. The length of the duct shall be 1km. Two end plugs shall be provided along with the drum.(To be inspected by RDSO/RITES)	Set	800.00	703.00	562400.00
71	71	Supply of mini WSB markers for modular terminals WAGO Model No. or similar - 100 Nos. (To be inspected by CONSIGNEE)	Set	10.00	64.00	640.00
72	72	Supply of powder coated Relay rack universal type 2 Way as per DRG. No. S&T/MFT/291. The relay rack shall be supplied with scaffolding, stainless steel nuts and bolts for fixing the rack, supporting angles, frame mounting triangle base with 'J' bolts, insulation of required numbers and suitable inner frames to suit Q style relays / K50 pre wired tag blocks.(To be inspected by CONSIGNEE)	Numbers	12.00	14847.00	178164.00
73	73	Supply of powder coated Cable termination rack of size 880mm x 2075mm made using 50mm x 50mm x 6mm (6mm thickness) MS angles. The cable termination rack shall be supplied with stainless steel nuts and bolts for fixing the rack, tripod bases and reel insulators (for K rack, P rack and power rack), cable ladder of 400mm width and 2075mm length with two angles of size 40mm x 40mm x 5mm (5mm thickness) and supporting flats of size 25mm x 25mm. Suitable holes shall be drilled to fit hylam sheet as per standard practice . (To be inspected by CONSIGNEE)	Numbers	16.00	7585.00	121360.00

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74	74	Supply of Hylam sheet, resin bonded, grade P3 as per IS specification IS 2036 of 1974 or latest of following size: a)Hylam Sheet of size: 2400mm x1200mmx6mm. (To be inspected by CONSIGNEE)	Numbers	16.00	7124.00	113984.00
75	75	Hylam Sheet of size: 2400mmx600mm x6mm. (To be inspected by CONSIGNEE)	Numbers	16.00	3430.00	54880.00
76	76	Hylam Sheet of size: 2400mm x600mm x3mm. (To be inspected by CONSIGNEE)	Numbers	16.00	1888.00	30208.00
77	77	Supply of Lugs and Eyelets: Aluminium lugs 25 sq.mm of reputed make. (To be inspected by CONSIGNEE)	Numbers	1000.00	25.00	25000.00
78	78	Copper lugs 10sq.mm of reputed make. (To be inspected by CONSIGNEE)	Numbers	4000.00	12.00	48000.00
79	79	Copper eyelets to suit 16/0.2 wire Dowell's or similar make. (To be inspected by CONSIGNEE)	Numbers	12000.00	3.00	36000.00
80	80	Copper eyelets to suit 10.sqmm wire Dowell's or similar make. (To be inspected by CONSIGNEE)	Numbers	2000.00	6.00	12000.00
81	81	Supply of 200 way tag block as per specification IRS: S 77/2006 Rev. 1.0 or latest and DRG. No. SA 24751 or latest. (To be inspected by CONSIGNEE)	Numbers	8.00	1439.00	11512.00
82	82	"Supply of basic material to construct unit Maintenance Free Earth as per specification RDSO/SPN/197 Ver. 1.0 or latest consisting of the following: a) Copper bonded steel electrode 3m long, 17mm diameter with copper bonding thickness mini 250 micron and UL listed and marked - 1 No. b) Earth enhancement compound of RDSO approved brand supplied in sealed bags of minimum 10kg - 3 Nos. c) Copper strip with dimensions 150 x 25 x 6mm to terminate earth rod - 1 No. d) Copper strip with dimensions 300 x 25 x 6mm Main Equi- potential Earth Bus bar (MEEB) - 1 No. e) Copper strip of with dimensions 150 x 25 x 6mm Sub Equi- potential Earth Bus bar (SEEB) - 1 No. f) 35 Sq.mm multi-strand PVC insulated Copper Cable (15 meter). " (To be inspected by RDSO)	Set	32.00	16837.00	538784.00
83	83	Supply of 50mm x 6mm GI tape for interconnecting earth electrodes. (To be inspected by CONSIGNEE)	Metre	500.00	546.00	273000.00
84	84	"Supply of Data Logger of following capacity for remote monitoring of signalling parameters and power supply arrangements with network as per specification IRS: S 99- 2006 Amd. 3 or latest with 64 input digital card as a spare and fuse monitoring PCBs for monitoring at least fifty 2A fuses with inbuilt modem cards for networking. Data Logger with 512 digital inputs and 32 analog inputs" (To be inspected by RDSO)	Set	4.00	497388.00	1989552.00
85	85	Supply of Protocol Converter for Electronic Interlocking including software required for networking. (To be inspected by RDSO)	Numbers	4.00	49373.00	197492.00
86	86	Supply of Safety Point Alarm unit to alert ASM to set the points against the blocked line. (To be inspected by CONSIGNEE)	Numbers	2.00	69582.00	139164.00

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87	87	Supply of 80 column Dot Matrix Printer Model No. Epson LQ300/LX300 or similar with serial port. (To be inspected by CONSIGNEE)	Numbers	4.00	13177.00	52708.00
88	88	Supply of Printer for maintenance terminal at station - HP LaserJet 1020 Plus or similar. (To be inspected by CONSIGNEE)	Numbers	4.00	16135.00	64540.00
89	89	Supply of Earth Leakage Detector (ELD) with configuration specified by Engineer In charge and as per specification RDSO/SPN/256/2002 or latest with insulated tester, test probes, Mounting stand and Fuse board to isolate from distribution board as per requirement of channels. Twelve channel Earth Leakage Detector. (To be inspected by RDSO)	Set	2.00	190261.00	380522.00
90	90	Supply of Teak Wood Block Counter suitable for DAIDO / NBT block instruments as per standard drawing. & instructions of engineer in charge (To be inspected by CONSIGNEE)	Numbers	4.00	14721.00	58884.00
91	91	Supply of Filter Unit for use in conjunction with block instrument as per specification IRS: S 68-89 or latest. (To be inspected by CONSIGNEE)	Numbers	4.00	15500.00	62000.00
92	92	Supply of Block Bell Equipment as per specification IRS: TC 44-88 with Amd. 1 or latest. (To be inspected by RITES)	Numbers	4.00	2604.00	10416.00
93	93	Supply of Solid State Buzzers with different frequencies in metallic / plastic casing working on 12V - 24V - 60V. (To be inspected by CONSIGNEE)	Numbers	40.00	300.00	12000.00
94	94	Supply of following type of Terminal block of Wago Make or Similar (with lever type disconnection & reconnection facility) duly fitted in C.T. box of approved quality, suitable for termination of cable from 0.4mm to 0.9mm conductor. 24 pair (To be inspected by CONSIGNEE)	Numbers	24.00	3240.00	77760.00
95	95	Supply of VF Transformer with impedance ratio 470 : 600 ohms or 1120 : 600 (Type 4) or 1120 : 470 (Type 3) as per specification IRS : TC 22-76 or latest. (To be inspected by CONSIGNEE)	Numbers	4.00	909.00	3636.00
96	96	Supply of VF Transformer 2T assembly of type 2 with impedance ratio 470: 1120 ohms as per specification IRS: TC 76 - 2000 with Amd. 1 or latest. (To be inspected by CONSIGNEE)	Numbers	44.00	999.00	43956.00

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97	97	"Supply of Tool Kit as under - 1. Standard Tool Bag (CANAVAS) - 1 No. 2. Soldering Iron (Make Solder / Philips) - 60W / 230V -1 No. 3. Digital Multimeter - True RMS Meter (Philips / Fluke / Rishabh Rish 18S) Upto 20M, 10A, 5kHz, 2mV to 750V AC, 200V DC - 1 No. 4. Screw Driver set of 6 pieces (Taparia Make) - 1 No. 5. Cutting plier 6" (Taparia Make) - 1 No. 6. Side Cutter (Wire cutter) 6" (Taparia Make) - 1 No. 7. Nose plier 6" (Taparia Make) - 1 No. 8. Wire stripper (Taparia Make) - 1 No. 9. Fiber tape 3m length - 1 No. 10. Scale 6" (for measuring tongue rail opening) - 1 No. (Transparent Plastic Material) 11. Pop spanner wrench 6mm to 22mm (Auto adjustable spanner) of Taparia make - 1 No. 12. Pop spanner wrench 10 mm to 30 mm (Auto adjustable spanner) of Taparia make - 1 No. 13. Pop spanner wrench 15mm to 41mm (Auto adjustable spanner) of Taparia make - 1 No. "14. Hacksaw frame with blade 6"" , 4" width (for cutting cable) - 1 No. 15. Hammer 3.0 lb - 1 No. 16. Chisel 6" (for cutting bond wire) - 1 No. 17. Poker 8" (for removing bond wire, bond pin) - 1 No. 18. Heavy duty Screw Driver 12" with plastic handle (Taparia Make) - 1 No. 19. Test piece (Point wedge piece) - 1 No. 20. Multi colour rechargeable LED torch light - 1 No. 21.Universal key - 1 No. 22. Box spanner for 6 way terminals (13mm) - 1 No. 23. Nylon brush (for cleaning purpose) - 1 No. 24. Sealing plier - 1 No. 25. Crimping Tool (1.5 to 16sq.mm) - 1 No. 26. Feeler gauge - 1 Set 27. TSR Meter (for testing condition of track circuit) - 1No. 28. Wooden Block (60mm x 60mm) - 1 No. 29. Track shorting clips - 1 No. 30. Tester - 1 No. 31. Flat file 12" length x 1" width - 1 No. 32. Clip on meter - 1 No. 33. Digital Earth meter - 1 No 34 . Meggar - 1 No. (To be inspected by CONSIGNEE)	Set	2.00	46332.00	92664.00
98	98	Supply of Feather lite table of Model No. V-MT 1890 & V- 2D+1F or similar .(To be inspected by CONSIGNEE)	Set	8.00	29573.00	236584.00
99	99	Supply of Godrej PCH 5002T model or similar (To be inspected by CONSIGNEE)	Numbers	8.00	10671.00	85368.00
100	100	Supply of steel stools 18" height neatly finished and painted. (To be inspected by CONSIGNEE)	Numbers	16.00	489.00	7824.00
101	101	Supply of Fibre table of 4 Feet x 2 Feet one number and fibre chairs two numbers. They should be of standard make and quality like Neelkamal or Similar. (To be inspected by CONSIGNEE)	Set	8.00	2099.00	16792.00
102	102	Supply of Godrej shelf storage of 916 x 486 x 1981 mm or similar (To be inspected by CONSIGNEE)	Numbers	8.00	26479.00	211832.00
103	103	Supply of HDPE jerry can of 20 litres capacity. The jerry can shall be supplied at site as per the requirement of site in-charge. .(To be inspected by CONSIGNEE)	Numbers	8.00	154.00	1232.00
104	104	Supply of Godrej Navtal Locks with diameter of 50mm with 3 keys. (To be inspected by CONSIGNEE)	Numbers	60.00	563.00	33780.00

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105	105	Supply of Double key lock for relay room. (To be inspected by CONSIGNEE)	Numbers	4.00	1233.00	4932.00
106	106	Printing, Binding & supply of registers with latest proforma given by in-charge officer each register of 100 pages.. (To be inspected by CONSIGNEE) (To Be Measured in REGR)	Numbers	150.00	358.00	53700.00
107	107	Supply of Electrostatic Rubber Matting of thickness 2mm as per IS-15652/2006 with suitable adhesive material. (To be inspected by CONSIGNEE)	Sqm	160.00	2390.00	382400.00
108	108	Supply of key chains with ring and plastic name plate of dimensions 60mm x 20mm x 3mm. The plastic name plate shall be engraved with station name on one side and key particulars on the other as specified by the site in-charge. (To be inspected by CONSIGNEE)	Numbers	60.00	34.00	2040.00
109	109	Supply of LED holders with LEDs of size 5 mm with 0.5 Watt resistance. To be supplied as per requirement of site in-charge. (To be inspected by CONSIGNEE)	Numbers	200.00	18.00	3600.00
110	110	Supply of Corium Z 105 Battery cleaner and terminal conditioner of 500ml tin can. (To be inspected by CONSIGNEE)	Numbers	8.00	5274.00	42192.00
111	111	Desk type 2 wire, 12 way DTMF selective calling group telephone (Selective Calling / Group Telephone) complete as per specification IRS: TC 80-2000 Amd. 1 or latest with suitable power supply unit. (To be inspected by CONSIGNEE)	Set	12.00	6282.00	75384.00
112	112	Supply of Four Wire DTMF way station equipment' to RDSO spec. No. TC- 60 / 2007-Amdt-1 (or latest) with telephone to RDSO spec. No.TC-38 / 97 (or latest). (To be inspected by CONSIGNEE)	Numbers	8.00	5617.00	44936.00
113	113	Supply of Power Supply Unit for telecom installations of 2A output capacity as per specification IRS: TC 72-97 Amd. I or latest with 12V / 7AH maintenance free battery.(To be inspected by CONSIGNEE)	Numbers	4.00	4265.00	17060.00
114	114	Supply of 50 pair 0.5 mm Dia Polythene insulated, polythene sheathed, jelly filled under ground telephone cable with poly alluminium moisture barrier, anneled copper conductor double steeltape armoured with polythene jacketed as R D S O specn, No.IRSTC:41/97 with amendment No.2 or latest. Length should be 500 meters per Drum.(To be inspected by CONSIGNEE)	Metre	1000.00	304.00	304000.00
115	115	Supply of emergency socket box of FRP material as per specification RDSO/SPN/TC/44/2002 Ver. 3.0 with Amd. 1, 2, 3, Corrigendum I or latest, DRG. TCDO/RE/001/2002 Ver. 0.1 or latest, TCDO / RE / 001/ 2002/1 with socket six pin flat (To be inspected by CONSIGNEE)	Set	20.00	5195.00	103900.00
116	116	Supply of 10 pair Terminal block of Wago Make or Similar (with lever type disconnection & reconnection facility) duly fitted in C.T. box of approved quality, suitable for termination of cable from 0.4mm to 0.9mm conductor. (To be inspected by CONSIGNEE)	Numbers	8.00	1817.00	14536.00

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117	117	Supply of Push button corded auto telephone with Caller ID facility of a) Volume control, b)Incoming & outgoing call memory, c) music on hold,d) selectable ringer melodies. Make : BEETEL, Model : M77/ BPL/ PANASONIC or similar.(To be inspected by CONSIGNEE)	Numbers	12.00	1495.00	17940.00
118	118	Supply and installation of Signal post Telephonewith Talk back facility consisting of1 Master + 1 Slave, operatingvoltage 11 0V AC/24V DC suitablefor OFC .(Inspection by Consignee)	Numbers	10.00	29500.00	295000.00
119	119	Supply of Maintenance Free Batteries of 12V/100AH AMARAJA/ EXIDE/ Panasonic or equivalent brand. (To be inspected by CONSIGNEE)	Numbers	8.00	11167.00	89336.00
120	120	Supply of smart OTDR (35/37 DB) as per specification TEC/GR/TX!OTD-002/04/AUG-19 of Viavi of 100A series or Similar.(To be inspected by CONSIGNEE)	Numbers	4.00	175230.00	700920.00
121	121	Supply of Power meter as per specification TEC/GR/TX/OPM-001/04/NOV-13 of model Viavi OLS 35 or Similar.(To be inspected by CONSIGNEE)	Numbers	4.00	32645.00	130580.00
					Total	29457670.00
Schedule Schedule B- SUPPLY NON SOR PORTION						
Item- 02 SUPPLY NON SOR PORTION						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply of 2 core x70 Sqmm LTUG XLPEAluminum armored cable as per BISspecification IS 7098 Part I or (latestamendments) along with end terminations(To Be Inspected by RDSO/RITES)(To Be measured in per Meter)	Metre	5000.00	199.00	995000.00
2	2	"Supply and Installation of OFC & E1 Integrated Device with OFC ports & STM interlinking Interface (E1 interface) / 12 interface Six (V.21/V.23)supporting 2W/4W & Six Quad Protection Ports (2W/4W) for individual Six E&M interfaces suitable for up to 2U height/19 rack mountable for LVCD / Digital Axle Counter / UFSBI/Control Phone connectivity on Optical Fiber & E1 (STM) with Automatic Change Over features (E1 to Quad/OFC-OFC-Quad/OFC E1-Quad), Quad health indications for each E&M interface & Potential Free contacts as required by Railways & four Ethernet ports & RS232 ports integrated in the unit / Audible failure uplink resettable buzzer & Dual power supply support18VDC to 72 VDC. This includes supply of required optical patch cords for connecting to FDMS unit. one DC to AC adaptor to be provided. Make: TEAMLINK FABIO 2CX or Similar." (To Be Inspected by RITES)	Numbers	16.00	76700.00	1227200.00
3	3	Supply of 15m(49ft) LC to SC / APC Fiber Patch Cable Single Mode Fiber, Simplex, 9 / 125m 2.0mm Cable Diameter Fiber Optic Cable. (Rodent free) (To Be Inspected by CONSIGNEE)	Numbers	10.00	7080.00	70800.00

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4	4	15Meters 50ft SC to ST Fiber Optic Cable Jumper Optical Patch Cord Simplex Single-Mode 9/125 SC-ST (Rodent free) (To Be Inspected by CONSIGNEE)	Numbers	10.00	6260.00	62600.00
5	5	Supply of SC - LC Fiber Optic Patch Cables 3 Meter LC to SC Duplex 9 / 125m OS2 Single-mode Fiber Optic Cable Jumperas per the requirement at site. MakeL Finolex / D-Link or latest standard brand. (Rodent free) (To Be Inspected by CONSIGNEE)	Numbers	10.00	129.36	1293.60
6	6	Supply of Weather proof rainprotection covers made withPolyolefin Polyethylene sheet Avg. Random thickness up to 200microns and the sheet processedwith CX slurry polymerization tomeet good rigidity, less drawdownand malleability ,stress crackresistance and suitable to fix at rearside of the 2 Aspect IRS type CLSunit duly provided with pre stitched gripping elastic on the edge of thecover along with suitable lacingrope to bind the cover over thebase. Size: 120cm x 45cm x23cm.Retro reflective white band(3inch width) cross mark to be madeavailable on cover. (Inspection byConsignee)	Numbers	18.00	275.10	4951.80
7	7	Supply of Weather proof rainprotection covers made withPolyolefin Polyethylene sheet Avg. Random thickness up to 200microns and the sheet processedwith CX slurry polymerization tomeet good rigidity, less drawdownand malleability,stress crackresistance and suitable to fix at rearside of the 3 Aspect IRS type CLSunit duly provided with prestitchedgripping elastic on the edge of thecover along with suitable lacingrope to bind the cover over thebase. Size: 150cm x 45cm x23cm. Retroreflective white band(3inch width) cross mark to be madeavailable on cover. (Inspection byConsignee)	Numbers	16.00	310.80	4972.80
8	8	Nylon -66 Point insulations complete set With RDSO spec No-IRS-S-40/84 or latest consists of 1.Gauge tie plate insulation one set (Insulating plate drg No. T-10372=01No, insulating bush drg No. T-10368=03 Nos, insulating washer drg No. T-10371=06 Nos) 2. D bracket insulation one set (Insulating plate (RH) drg No. S-3265= 01No, insulating plate (LH) drg No. S-3266=01 No, insulating washer drg No. S-8640=04Nos, Insulating bush drawing No.S- 23199=04Nos) 3.Stretcher bar insulation one set (Insulating plate drg No.T-10367=01No, insulating bush drg No.T-10368=02Nos, insulating washer drg No.T-10371= 04 Nos) 4. L-bracket insulation one set (Insulating plate drg No.S-8804=01No, insulating washer drg No. S-8640=02 Nos, insulating bush drawing No.S-8813=02Nos) (To Be Inspected by CONSIGNEE)	Set	21.00	459.02	9639.42
9	9	Supply of Strecher Bar insulation complete Set consisting of the following plate T-10367 = 01 No.,Bush T-10368=02 Nos.,Washer T-10371=04 Nos. (To Be Inspected by RITES)	Set	33.00	40.12	1323.96

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10	10	Deflector Plates for Axle Counter (1Set =02 Nos) (To Be Inspected by CONSIGNEE)	Set	16.00	5555.00	88880.00
11	11	"Supply of DC DC Converters as per RDSO SPN.RDSO/SPN/165/2012,Amdt.5, 24-40V/10A DC-DC Conv Mod Note: Make, Model and version as per the site supervisor instructions" (To Be Inspected by RDSO)	Numbers	4.00	24906.00	99624.00
12	12	Supply of Color -vu 4MP bullet camera make Hikvision DS2CD1047G0-L / Cplusplus with following minimum spec: Image sensor - 1 / 2.7" progressive scan CMOS & lens type & FOV 2.8 mm, horizontal FOV 102 vertical FOV 56 , diagonal FOV 127.4 mm, horizontal FOV 84 vertical FOV 45 diagonal FOV 99 . (To Be Inspected by CONSIGNEE)	Numbers	24.00	6960.00	167040.00
13	13	Supply of 4 Channel Network video recorder Sin e-SATA Make Hikvision DS-7604 NI-Q1U4K NVR with following min specification: Upto 4 ch IP camera inputs H.265+/H.2265/ H.264+/H.264 video format upto 1-ch @ BMP or 5 Ch @ 1080P decoding capacity upto 40 Mbps incoming bandwidth. (To Be Inspected by CONSIGNEE)	Numbers	4.00	6000.00	24000.00
14	14	Supply of 1TB SATA servellance Hard Disk Make: Segate or similar (To Be Inspected by CONSIGNEE)	Numbers	4.00	3600.00	14400.00
15	15	Supply of 4 CH POE switch make Hikvision or similar (To Be Inspected by CONSIGNEE)	Numbers	4.00	3000.00	12000.00
16	16	Supply of 5 port Gigbit Ethernet switch. Make: D-link / TP link (To Be Inspected by CONSIGNEE)	Numbers	4.00	1200.00	4800.00
17	17	Supply of CAT -6 cable (To Be Inspected by CONSIGNEE)	Metre	120.00	40.00	4800.00
18	18	Supply of Fibre boards of 'Alter the points immediately on arrival of the train as per GR:3.38 (2)' in bilingual i.e., in Hindi and English of size 4.5" X 12" (Inspection by Consignee)	Numbers	2.00	1627.50	3255.00
19	19	Supply of High precision True RMS Clamp meter with display count 6000, AC current 600mA/6000mA/60A, DC Current 6000mA/60A, AC/DC voltage 600V, AC current resolution 0.1mA (@ 60A), Resistance 60MegaOhms, Capacitance upto 62mF, Frequency 10Hz to 60kHz with resolution 0.001Hz, Variable frequency control (VFC) mode, Zero button for DCA, Clamp opening 17mm, Non contact voltage measurement function. Brand :STAN ONE Model SCM222 or similar(To Be Inspected by CONSIGNEE)	Numbers	2.00	22774.00	45548.00

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20	20	Supply of Digital multimeterSpecifications: digital TRMS 5Digit 60000 counts withfollowing features Frequencyrange: 6Hz to 1MHz Frequencymv AC band width: 100KHz ACvoltage rage: 1mV-1000V, +/-0.5% DC voltage rage: 1uV-1000V, +/- 0.05% AC currentrage: 1uA-10A, +/- 0.5% DCcurrent rage: 1nA-10A, +/-0.2% Capacitance range: 1pF-10000uF Datalogging: 32000Readings Dual display: Available Other features:Temparature messurement,Diode, continuity, Duly cyclemeasurement, self batteryvoltage measurement, Lowpass filter, Min, Max andAverage value recording, Backlight, Bargraph, Protectorerubber holster.Model no:Rishabh 6016 or Similar (To Be Inspected by CONSIGNEE)	Numbers	2.00	15157.00	30314.00
21	21	Supply of Digital Insulation Tester(Megger) with 3-1/2 Digits-LCD to measure the ranges upto 20,000 M-ohms selectable Test voltages 500,1000&2500 Model No.D-20K of Fuke/ motewane make (To Be Inspected by CONSIGNEE)	Numbers	2.00	7999.00	15998.00
22	22	Supply of Small Sized Valve Regulated Lead Acid Batteries of 12V/7.0 Ah/12P70 with 2 Years warranty of EXIDE make or similar (To Be Inspected by CONSIGNEE)	Numbers	108.00	881.75	95229.00
23	23	Supply of Supervisors revolving chair with specifications mentioned in the reference Purchase order or similar. (To Be Inspected by CONSIGNEE)	Numbers	12.00	6962.00	83544.00
24	24	Supply of pu foam spray forgap filling pidilite Loctite TiteFoam PU sealant(White),Expanding Foam for large gapsfilling, keeps dust and pestsaways, DIY dries fast,waterproof no shrinkage easyapplication doors PVC pipebathroom, AC ducts 340g orsimilar (TO BE INSPECTED BY CONSIGNEE)	Numbers	20.00	565.00	11300.00
25	25	Supply of Split Pin, Steel, size 5 X 56 mm to IS:549 (To Be Inspected by CONSIGNEE)	Numbers	1000.00	7.08	7080.00
26	26	Supply of Krost metal 10 oz levergrease gun free with 1/4 pint oilcan (Black) (TO BE INSPECTED BYCONSIGNEE)	Numbers	4.00	999.00	3996.00
27	27	Supply of 10 pair X 0.5 mm dia Polythene insulated Polythene sheathed jelly filled underground tele phone cable with poly AL Moisture barrier Annealed copper conductor double steel Armour with polythene jacketed as per RDSO Specification No. IRS:TC/41/97 with Amdt 2 or latest Packing length should be 500 mtrs per drum. MAKE/BRAND: VINDHYA TELELINKS LTD./ REWA(To Be Inspected by CONSIGNEE)	Kilometre	1.00	115050.00	115050.00
28	28	Supply of 20 pair 0.5mm dia polythene sheathed jelly filled underground telephone cable with poly aluminium moisture barrier annealed copper conductor double steel tape armoured with polythene jacketed as per RDSO Specn. No.IRS.TC.41/97 , Amdt.3 or latest length should be 500 Mtrs. drum MAKE/BRAND: VINDHYA TELELINKS LTD . / REWA (To Be Inspected by CONSIGNEE)	Kilometre	1.00	186912.00	186912.00

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29	29	Supply of 4G Fixed Wireless Phone (FWP) Corded Landlinesupports 4G VOLTE high quality HD voice calling, SMS mobile data services. This device should also support all 4G /3G/2G cellular network SIM cards. It should also support for Wi-Fi hotspot to share mobile data. Make / Model: Wibridge 4G102 / Beitel F3-4G or latest. (To Be Inspected by CONSIGNEE)	Numbers	4.00	4095.00	16380.00
30	30	Supply of Office table with ply wood plank with thickness of 18mm, teakwood beading with three draws of size 4 fts X 2 fts with heavy duty 'S' type chair with hand rest. The above is of Godrej make or similar make (To Be Inspected by CONSIGNEE)	Numbers	4.00	7035.00	28140.00
31	31	Supply of Aluminium Step Ladder with Utility Tray (Silver), 12 feet. Make: Liberti / Werner (To Be Inspected by CONSIGNEE)	Numbers	4.00	14999.00	59996.00
32	32	Supply of Godrej PCH 5002T model or similar (To Be Inspected by CONSIGNEE)	Numbers	4.00	10671.00	42684.00
33	33	Supply of 12V / 42 AH maintenance freebatteries as per RDSOSpecification No. IRS:S -93/96(A). Make AMAR RAJA / HBL NIFE. Should be suppliedby a RDSO approved firm42AH Exide Safepower SMF BatteryFor offline UPS and Online UPS (To Be Inspected by CONSIGNEE)	Numbers	20.00	3260.00	65200.00
34	34	Supply of C 1035 R14S Battery dry Make: leakproof Eveready or similar ISI (To Be Inspected by CONSIGNEE)	Numbers	40.00	40.00	1600.00
35	35	Supply of Heavy Duty 1050 R20 Battery dry. Make: leakproof Eveready or similar ISI (To Be Inspected by CONSIGNEE)	Numbers	40.00	29.00	1160.00
36	36	Supply of LI-ON rechargeable BL-5C, 3.7V 800mAh 2.96Wh Battery compatible for Betel FCT FS4G Telephone (To Be Inspected by CONSIGNEE)	Numbers	8.00	480.00	3840.00
37	37	Supply of UTP CAT-6 Cable each drum/Box of 305 mtrs. Make: MOLEX/FINOLEX/DLINK /TRICOM or latest. (To Be Inspected by CONSIGNEE)	Numbers	8.00	4600.00	36800.00
38	38	supply of online ups 2 KVA UPS with isolation transformer suitable for single phase AC input and output floor mounted with 60 min back up make: APC or Numeric or Emerson. Inspection:(To Be Inspected by CONSIGNEE)	Numbers	4.00	43305.00	173220.00
39	39	Supply of Self Amalgamating rubber scaling tape for cable jointing 1) Length approx. 10 mtrs each roll 2) Width approx.38mm 3) Thickness 0.76mm approx. Make: Valco/3M/Twin tech india /3A (Accepted Firm's offer make : SELF i.e.3A make, Frim itself is RDSO approved manufacturer for similar item, Sample is to be approved before bulk supply) (To Be Inspected by CONSIGNEE)	Numbers	40.00	448.44	17937.60
40	40	Supply of Outdoor Armoured Patch cord SC-SC/SC-LC/LC-FC Simplex-1 Meter with OD of 5mm as per site requirement. (To Be Inspected by CONSIGNEE)	Numbers	200.00	499.00	99800.00
41	41	Supply of Outdoor Armoured Patch cord SC-SC/SC-LC/LC-FC Simplex-5 Meter with OD of 5mm as per site requirement. (To Be Inspected by CONSIGNEE)	Numbers	200.00	767.00	153400.00

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42	42	Supply of Armored Fiber Optic Patch cord SC-SC/SC-LC/LC-FC each 15 Mtrs length as per site requirement. (To Be Inspected by CONSIGNEE)	Numbers	100.00	1532.00	153200.00
43	43	Supply of 60mm Heat Shrinkable Protection Sleeves For Fiber Optical Fusion Splicer Machine Splicing Telecom FTTH Protector Kit (1000 Pcs). Make: SKANDU or similar (To Be Inspected by CONSIGNEE)	Numbers	20.00	886.00	17720.00
44	44	Supply of 2 way line cord with RJ 11 jacks on both sides for telephone, each approximately 1.5 mtrs length make. JME,Triveni and Novel (To Be Inspected by CONSIGNEE)	Numbers	200.00	9.86	1972.00
45	45	Telephone Phone Handset Cable Cord, 9Ft Uncoiled / 1.5Ft Coiled, Landline Phone 4P4CPure-Copper Coiled Curly Cord Male to Male RJ9/RJ10 Cable, Telephone Accessory, Pack 4. Make: FEDUS (To Be Inspected by CONSIGNEE)	Numbers	40.00	389.00	15560.00
46	46	Supply of Cat-6 Patch Chord, 10m length Make:D-Link/Bestnet. (To Be Inspected by CONSIGNEE)	Numbers	200.00	578.20	115640.00
47	47	Supply of Fiber Distribution Management System 6F SC Type Stainless Steel, Galvanized Coating, Ladder Type Cable Tray (To Be Inspected by CONSIGNEE)	Numbers	100.00	750.00	75000.00
48	48	Supply of AC/DC clamp meter for 400V dc max current and 400V AC CAT III 600V, CAT IV 300V. Make:Fluke 325 AC/DC OR LATEST (To Be Inspected by CONSIGNEE)	Numbers	8.00	27227.37	217818.96
49	49	Supply of HDPE pipe of 110mm(dia) size for grade PE 100 of 6kg/sq.Cm - to IS Specification IS-4984-1995 in lengths of 6 Mtr (To Be Inspected by CONSIGNEE)	Numbers	40.00	1650.00	66000.00
50	50	Supply of XPON ONT, 2GE+ 1POTS+WIFI AC(Dual band support 2.4 Ghz and 5 Ghz). Make: SYROTECH or latest (To Be Inspected by CONSIGNEE)	Numbers	40.00	2478.00	99120.00
51	51	Supply of 24 port POE Gigabit unmanagable Switch. Model Hikvision DS-3E0526P-E/M/B or D_Link DES-1210-28P series or latest. (To Be Inspected by CONSIGNEE)	Numbers	8.00	20948.99	167591.92
52	52	Supply of 8-Port 10/100 Mb/s + 2-Port Gigabit PoE+ Compliant Unmanaged Switch with SFP. Make: TP-LINK/ D-LINK or latest (To Be Inspected by CONSIGNEE)	Numbers	20.00	12965.00	259300.00
53	53	Supply of RJ45 STP Connector Cat5, Cat5E, Cat6, Shielded RJ45 Nickel Plated 8P8C Ethernet Modular LAN Crimp Module Plug FTP STP Network Crimping Plug Ethernet Network Cable Plug (PACK OF 25) MAKE: D-LINK / FEDUS or LATEST REPUTED MAKE (To Be Inspected by CONSIGNEE)	Numbers	20.00	313.00	6260.00
54	54	Supply of Ahuja 16W Rated/20W Max. AM-21SD PA Megaphone or latest. Power 16W Rated/20W Max. Material : ABS, Battery Type Dry Cell Dry Cell & 12V Car Battery operation. Microphone: Unidirectional Direct Inputs: Dedicated Microphone Voice Range: Approx. 400m (Siren 500m) Power Source : 12V DC,8 x UM-2 Cells / Car Battery Sling Type: Shoulder Sling. (To Be Inspected by CONSIGNEE)	Numbers	4.00	2790.00	11160.00

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55	55	Supply of Portable PA system WP-220M with Bluetooth optional, 20 Watts Max. PA Wireless Amplifier Ideal for various Indoor and Outdoor applications Wired Mic input has priority. Provision for connecting one wired microphone & an AUX source Operates on AC mains, 12V external car battery & 12V 1.2Ah internal rechargeable lead acid battery. Make: AHUJA WP-220M / WP-220L OR LATEST (To Be Inspected by CONSIGNEE)	Numbers	4.00	7999.00	31996.00
56	56	Supply of counter communication system consists of a microphone, a receiver and a speaker. Make: Ahuja CCS2300 or latest. (To Be Inspected by CONSIGNEE)	Numbers	4.00	7296.00	29184.00
57	57	Supply of Cat 6 Rj 45 Cable Connector - Pack Of 100 Pieces,Silver. MAKE: D-LINK / FEDUS or LATEST REPUTED MAKE (To Be Inspected by CONSIGNEE)	Numbers	40.00	579.00	23160.00
58	58	Supply of rack mounted 12F FMS fiber part no.fms-1u 12FS 12FP Raychem/Bestnet/ Rosenberger make including 12Nos 0.2db SC / PC adaptors and 12 numbers 900 micron 1.5 meter SCPC pigtails and as specified by supervisor in-charge.(RDSO Spec No.: RDSO/SPN/TC-037-2000 (Ver.3) or latest.) (To Be Inspected by CONSIGNEE)	Numbers	20.00	9266.00	185320.00
59	59	Supply of Cross Talk Measuring Set as per Spec. No. IRS:TC-45/88. Make : Anuvidyut or latest (To Be Inspected by CONSIGNEE)	Numbers	4.00	53100.00	212400.00
60	60	Supply of 25 Sq mm multistrand single core copper cable of make Finolex, Finecab, Havels or latest ISI brand (Black, Red & Green each 100 Mtrs) including proper copper lugs (To Be Inspected by CONSIGNEE)	Metre	600.00	295.34	177204.00
61	61	Supply of 6 Sq mm multistrand single core copper cable of make of make Finolex, Finecab, Havels or latest ISI brand (Red & Black each 100 Mtrs) including proper copper lugs (To Be Inspected by CONSIGNEE)	Metre	400.00	101.02	40408.00
62	62	Supply of 18 mm flexible PVC conduit pipe suitable for telecom / Electrical applications. Make: ISI brand (To Be Inspected by CONSIGNEE)	Metre	200.00	58.05	11610.00
63	63	Supply of Data Entry Terminal (Industrial Grade EMBEDDED PC) for entry of Train Details by ASM & communicating the information to CMU via Data logger at station as per specification : EMBEDDED PC Processor : Core i7-7700 3.2 Ghz Processor , RAM : 8 GB DDR4 RAM Storage: 1TB HDD Serial Ports : 6 Ethernet Port : 2 USB 3.0 Port : 4 & USB 2 ports:2 HDMI Port : 3 Key Board : Wired Key board Mouse : USB wired Optical Mouse Operating System : Windows 7/10 Professional or latest (Licensed version). Storage Temperature: -40 to 70C System Make : JETWAY OR LATEST EMBEDDED PC Monitor : 22" LED Monitor (with HDMI / DVI port / Serial Port) - Antivirus Software: McAfee Total Protection - 1 users Power supply: DC power adaptor (To Be Inspected by CONSIGNEE)	Numbers	4.00	90270.00	361080.00
					Total	6370414.06
Schedule	Schedule C- LABOUR SOR PORTION					

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Item- 03 LABOUR SOR PORTION						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Location survey for cable route and preparation of tentative cable route plan as per the instructions of Engineer in-Charge.(To Be Inspected by CONSIGNEE) (To Be measured in RKM)	Route Kilo Meter (RKM)	6.00	1472.00	8832.00
2	2	"Jungle cutting along with the cable route Clearing grass/garbage and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared (Measurement is to be done as per area cleaned)." (To Be Inspected by CONSIGNEE)	RMT	2000.00	5.00	10000.00
3	3	Supply, placing and covering of RCC duct from Home to Home as per SCR Drg. No. 5778. (To Be Inspected by RITES)	RMT	2000.00	2174.00	4348000.00
4	4	Supply and Filling sand i n trench/under floors/OFC chambers, complete as per instruction of engineer in charge. (To Be Inspected by CONSIGNEE)	Cubic Centimetre	240.00	1562.00	374880.00
5	5	"Excavation of trench, including marking of cable alignment, clearing of jungle, roots of trees, bushes, trial pits if required, refilling with excavated soil, ramming and consolidation after laying of cables complete to the finished item of work in all type of Soil including soft rocky area as per RDSO Sketch No. SDO/CABLE LAYING/003, as directed by engineer in- charge. Depth of 1200mm and width of 300mm" (To Be Inspected by CONSIGNEE)(To Be measured in RKM)	RMT	12.00	98750.00	1185000.00
6	6	Depth of 300mm and width of 300mm where rock is visible from surface, concreting to ground level as per Drg No.SK/CN/NEW/1. (To Be Inspected by CONSIGNEE)	RMT	400.00	679.00	271600.00
7	7	Depth of 200 mm and width of 200 mm where rock is visible from surface to a depth more than 300 mm up to 550mm, excavation of trench with width 300mm above rock, concreting 200mm x 200mm after laying of cable as per Drg No.SK/CN/NEW/3 (To Be Inspected by CONSIGNEE)	RMT	400.00	358.00	143200.00
8	8	Digging of cable trench to a depth of not less than 30 cm in rocky terrain/difficult terrain Concreting the trench with 150mm thick concrete with 1 cement: 2 sand: 4 graded stone aggregate 20mm nominal size. All the material is to be arranged by contractor. (To Be Inspected by CONSIGNEE)	RMT	400.00	188.00	75200.00

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9	9	Trenching under Rails for crossing the track (Track Crossing) and refilling of trenches as per SCR Drg. No. 5768. The track crossing shall be done at right angles. The depth of cable trench shall be 1.2 meter below the rail flange. The depth between top cable and the level of rail flange of the rail shall never be less than 1.0 meter. The ballast shall be stacked separately while making the trench and the earth soil shall be stacked separately. While re-filling the trench, the earth soil has to be filled first to the ground level and the ballast has to be properly put in the track. This work has to be done under supervision of supervisor of S&T and supervisor of P.Way. (To Be Inspected by CONSIGNEE)	RMT	800.00	1139.00	911200.00
10	10	Track crossing/ Road Crossing by Horizontal Boring method at culverts/track/pucca road as per SCR Drg. No. 5770. This also includes insertion of HDPE pipe of 110 mm/G.I Pipe of 100 mm in the bore drilled (HDPE pipe/ GI pipe is to be supplied by Railway). (To Be Inspected by CONSIGNEE)	RMT	1600.00	2264.00	3622400.00
11	11	Breaking of metal/ tar road and refilling after laying the cables as per drawing no.SDO/CABLE LAYING/010. The surface of the road shall be concreted to match with the old surface. (To Be Inspected by CONSIGNEE)	RMT	150.00	211.00	31650.00
12	12	Excavation of jointing pit and provision of RCC/FRP joint / Loop chambers of 90 Cms. Inner dia 60 Cms depth and 3mm thickness with two pieces of top cover with hooks each and bottom cover with hole for drainage and cable entry as per Drg. No. RAILTEL/SR/OFC/ 2009/12 and as directed by Engineer to be provided at every joint location and at every Kilometre loop etc., The chamber shall be filled with sand mixed with ariti-stermic power, back filling and ramming of trench after HDPE duct laying, splicing and commissioning. (To Be Inspected by CONSIGNEE)	Numbers	24.00	6344.00	152256.00
13	13	Supply and Installation of OFC joint enclosure and splicing of Optic fibre cable (24 fibres) and testing as per technical specification No. GR OJC-2/02 Sept 2003. Supply of Splice Enclosure (24 fibre) shall be of TVS make Part No.1500-LI8X-XX or similar as per Board specification of TEC.& as per RDSO/SPN/TC/68/2014 Revision 1.0 amd 1 or latest . All materials including Fusion splicing machine used for fibre splicing and, OTDR for testing and other testing materials if any shall be arranged by the contractor. . (To Be Inspected by CONSIGNEE)	Numbers	16.00	9398.00	150368.00

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14	14	Supply and installation of rack mounted 24 fibre Distribution Management System (FDMS) of size 1U, of Reputed/Branded company make as per specification RDSO/SPN/TC/37/2020 Revision 4.0 with latest amendments. The FDMS shall include 24 SC-PC/ Required adaptors having insertion loss less than or equal to 0.1dB and 24 numbers 900 micron 1.5m SC-PC/Required pigtails.(To Be Inspected by CONSIGNEE)	Numbers	12.00	23712.00	284544.00
15	15	Provision and laying cement concrete (including transportation of all the material)..Providing and laying in position cement concrete of specified grade including the cost of centring and shuttering :- 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size) (To Be Inspected by CONSIGNEE)	cum	4.00	5007.00	20028.00
16	16	Blowing of armoured optic fibre cable (OFC Cable supplied by Railways) into the duct supplied vide other NS item of supply portion by using blowing machine and associated works. 10% of OFC length to be blown extra on both ends of Duct i.e. total 20% of Duct length. Before blowing the duct integrity shall be tested. If any defect is found during duct integrity test, the entire length of HDPE duct from one chamber to another chamber is to be replaced by the contractor at his own cost. Payment will be made as per the length of Duct from which OFC is Blown. (To Be Inspected by CONSIGNEE)	Kilometre	4.00	10956.00	43824.00
17	17	Laying of HDPE duct 40133 mm dia in the trenches and in protective works already provided (To Be Inspected by CONSIGNEE)	Kilometre	4.00	7410.00	29640.00
18	18	Laying different type of cables in the trench. Termination covered elsewhere. (To Be Inspected by CONSIGNEE)	RMT	186000.00	7.00	1302000.00
19	19	Providing and laying in position cement concrete of specified grade including the cost of centring and shuttering :- 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size) (To Be Inspected by CONSIGNEE)	cum	8.00	5007.00	40056.00
20	20	Centring and shuttering (To Be Inspected by CONSIGNEE)	Sqm	20.00	587.00	11740.00
21	21	Supply and laying of split DWC pipe in already dug cable trenches as per Drawing No.SK.9/11 .The unit of RMT means two split pipes of 1 Mtr each. 120/103 mm diameter (To Be Inspected by CONSIGNEE)	RMT	1600.00	232.00	371200.00
22	22	250/217 mm diameter (To Be Inspected by CONSIGNEE)	RMT	1000.00	761.00	761000.00

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23	23	Supply, transporting and installation of Concrete (RCC) Route Indicators at intervals of 50 meters as per instructions of engineer in charge as per drawing no. SK 12/10.They should be of standard RCC with letters "SCR S&T cable" as per type of cable laid to drawing. In case of telecom quad cable joint locations it shall be painted with GREEN and ORANGE colour for normal indication of cable path. (To Be Inspected by RITES)	Numbers	300.00	1204.00	361200.00
24	24	Supply and fixing of galvanised MS-'C' channel of size 100mmx 50mm x 1200 mm with suitable clamps as per drawing No. S&T/ RE/78/2/76 and fitting of GI pipe supplied by Railways and with suitable clamps on Girder Bridges without drilling holes in the girders. GI Pipes are to be drilled with 6 holes of 1/4" dia. per Meters around the pipe in zig zag manner before laying the 6 Meters pipe. (To Be Inspected by CONSIGNEE)	Numbers	40.00	766.00	30640.00
25	25	Supply & Laying of G.I Pipes with medium and threaded collar & coupler, quality to specification IS.1239 (part-I) 1990 and galvanised to specification IS.4736-1986. G.I Pipes of 50mm diameter (To Be Inspected by RITES)	RMT	400.00	1032.00	412800.00
26	26	G.I Pipes of 100mm diameter (To Be Inspected by RITES)	RMT	400.00	1993.00	797200.00
27	27	"Supply of Double Walled Corrugated (DWC) HDPE duct of various diameter of length of 6m as per specification RDSO/SPN/204/2011 Ver. 1.1 Amd. 1 or latest. The duct shall be supplied along with push-fit type O-ring coupler or end cap. DWC of outer Diameter 180mm and inner Diameter 153mm Note:-Contractor should submit the manufacturer internal test report,guarantee certificate,genuinness certificate for IS Brand. " (To Be Inspected by RITES)	Numbers	40.00	3827.00	153080.00
28	28	Excavation of pit, casting concrete foundation and erection of apparatus case Full size as per SCR Drg. No. 5781 and fixing of 1 No.of 'E' type lock for the front door, latching arrangement for backdoor, fixing of Hylam sheet (Hylam sheet supply is covered elsewhere and Wooden Reapers also can be used in place of Hylam sheet for which supply & fixing covered elsewhere) and painting the apparatus case inside and outside with one coat of red oxide, two coats of aluminium paints outside and white paint inside including painting of termination, equipment and number particular on location box (foundation bolts and nuts, 'E' type lock, cement, river sand, stone jelly of size 20/20mm, paints, varnish, fixing bolts and nuts and all other miscellaneous material required for the work shall be supplied by the contractor). (To Be Inspected by CONSIGNEE)	Numbers	148.00	15324.00	2267952.00

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29	29	Excavation of pit, casting concrete foundation and erection of apparatus case half size as per Drg. No.SK/CN/1/89/B/1, fixing one 'E' type lock for the front door and latching arrangements for the back door and painting the apparatus case inside and outside with one coat of red oxide and two coats of aluminium paints outside and white paint inside (foundation bolts and nuts, painting of particular, E type locks, cement, river sand, stone jelly of size 20/20mm and nuts and all other miscellaneous material required for the work shall be supplied by the contractor) (To Be Inspected by CONSIGNEE)	Numbers	40.00	10809.00	432360.00
30	30	Excavation of coil pit up to a depth of 1 meter and dia of 1.5 meter for providing coil at location box, point, signals etc., This includes back filling and ramming of trench / pit after laying the cable and consolidation of soil. (To Be Inspected by CONSIGNEE)	Numbers	200.00	1796.00	359200.00
31	31	Filling earth around location boxes/signal foundations for a width of 0.5m on all sides, up to a level 150mm below the foundation top. This work includes consolidation of earth by watering and ramming. The earth shall be taken from Railway premises as instructed by Railway representative at site. (To Be Inspected by CONSIGNEE)	cum	700.00	405.00	283500.00
32	32	Painting of existing apparatus cases without disturbing the terminations and equipments inside. The work involves scraping of old paint, applying two coats of Aluminium paint outside & two coats of white paint inside apparatus cases, painting of termination, equipment and number particulars on apparatus cases as instructed by Railway representative at site (Paints and all other miscellaneous materials required for the work shall be supplied by the Contractor). Painting of existing apparatus case - Full size (To Be Inspected by CONSIGNEE)	Numbers	20.00	1791.00	35820.00
33	33	Painting of existing apparatus case - Half size (To Be Inspected by CONSIGNEE)	Numbers	12.00	1712.00	20544.00
34	34	Strengthening of foundations of signals, Full/Half location boxes up to a height of 30 cm, by carrying out the earth work around the foundation, ramming of the earth, carry out masonry work from bottom of earth work using country stones and cement masonry to prevent the earth from slipping down the bank. . (To Be Inspected by CONSIGNEE)	Sqm	150.00	760.00	114000.00
35	35	Cable termination including fixing terminals, fuses, LDs, Meggering of cables and recording the readings. (To Be Inspected by CONSIGNEE)	Per Conductor	80000.00	14.00	1120000.00

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36	36	Fixing of Tie Bar Fencing panels supplied by Railways duly transporting to the site (Goomties/Mid section Locations) from Centralised location. Cutting, drilling, jointing with nut and bolts wherever required as per site requirement for protecting goomties /location boxes. After fixing of the tie bar, panels to be painted with two coats of aluminium paint and levelling the earth wherever required. All required materials other than tie bar fencing panels should be arranged by the contractor/agency. (To Be Inspected by CONSIGNEE)	Metre	600.00	1035.00	621000.00
37	37	Excavation of pit to size of 450mmx 450 mm x 450mm and concreting the same with 1:3:6 aggregate 20mm for erecting the tie bar fencing panels, curing and white washing the foundations. (To Be Inspected by CONSIGNEE)	Numbers	300.00	1645.00	493500.00
38	38	Supply and fixing of Teak Wood planks of sizes as instructed by the site in-charge with smooth finishing surface to be provided where ever required such as in location boxes relay room, equipment room and battery room, Fine wood polish of approved quality to be applied for two times after thorough application of emery paper. Fixing bolts and wood polish supplied by the contractor. (To Be Inspected by CONSIGNEE)	cum	2.00	65659.00	131318.00
39	39	Supply & fixing Hard Wood planks of 40mm thick and not less than 200 mm width with smooth surface, and painting with black enamel paint painting (Hardwood, paints, fixing bolts is to be arranged by contractor). (To Be Inspected by CONSIGNEE)	cum	6.00	28005.00	168030.00
40	40	Supply and fixing of teak wood reapers suitable for Full location Box with approx 50 mm width x 20mm thick and length of 940mm after applying two coats of wood primer. (To Be Inspected by CONSIGNEE) (To Be measured in Per Reaper)	Numbers	700.00	183.00	128100.00
41	41	Supply and fixing of following Teak wood reapers/ Blocks after applying two coats of wood primer. Teak Wood Reapers suitable for Full Box: 75mm width x 20mm thick and length of 940mm. (To Be Inspected by CONSIGNEE)(To Be measured in PER REAPER)	Numbers	220.00	228.00	50160.00
42	42	Teak Wood Reapers suitable for Full Box: 50mm width x 50mm thick and length of 940mm and clamping the cable. (To Be Inspected by CONSIGNEE)(To be measured in REAPER)	Numbers	220.00	301.00	66220.00
43	43	Teak Wood Reapers suitable for Half Box 75mm width x 20mm thick and length of 470mm. (To Be Inspected by CONSIGNEE) (To Be measured in REAPER)	Numbers	200.00	145.00	29000.00
44	44	Teak Wood Reapers suitable for Half Box: 50mm width x 20mm thick and length of 470mm. (To Be Inspected by CONSIGNEE) (To Be measured in PER REAPER)	Numbers	80.00	88.00	7040.00
45	45	Teak Reapers suitable for Half Box: 50mm width x 50mm thick and length of 470mm and clamping the cable. (To Be Inspected by CONSIGNEE)(To Be measured in REAPER)	Numbers	80.00	203.00	16240.00

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46	46	Hard wood Planks for Keeping Equipment in the Full Box: 940mm x 20mm x 300mm approximately after applying two coats of black enamel paint. (To Be Inspected by CONSIGNEE)(To Be measured in PER PLANK)	Numbers	60.00	510.00	30600.00
47	47	Hard wood planks suitable for Half Box 40mm thick x 450mm x 470mm approximately after applying two coats of black enamel paint. (To Be Inspected by CONSIGNEE)(To Be measured in PLANK)	Numbers	20.00	452.00	9040.00
48	48	Supply and wiring of Polymeric Positive Temperature Co- Efficient Device self resetting type (PPTC) of 2A rating suitable for railway applications of reputed make. The PPTC fuse shall be wired by soldering suitable flexible wire on both ends (all material except flexible wire has to be arranged by contractor). (To Be Inspected by CONSIGNEE)	Numbers	300.00	87.00	26100.00
49	49	Fixing relay bases, wiring in location boxes, bunching, fixing of relays as per circuit diagram. This includes fixing of condensers, resistance, 6 way / 1 way terminals/ WAGO, ND type fuses, LED indicators for fuses as per type fuses. (To Be Inspected by CONSIGNEE)	Per Relay	300.00	338.00	101400.00
50	50	Cable laying at culverts / bridges -High flood level : Excavation of cable trench of 300mm width and 800 mm depth in the ramp from the foot of the culvert on to the top of the culvert by storing the ballast and the excavated soil separately and laying of HDPE / DWC / GI pipe(to be supplied by Railways). The pipe is to be laid , the cables required are to be drawn using bends(to be supplied by Railways) as per the drawing No.SK.15 / 11. After drawing the cables the bends are to be concreted to a size of 300mmX1000mmX1000mm using required shuttering with 1 cement: 3 sand: 6 graded stone aggregate 20mm nominal size and curing for required days. Except the HDPE / GI/ DWC pipe and bends, all other material is to be arranged by the contractor. laying of the HDPE/DWC / GI pipe using couplers and bends as per drawing No.SK.15/11, drawing of cables through the pipe and refilling of the trench duly putting back the removed ballast in its proper place and shape(To Be Inspected by CONSIGNEE)	RMT	200.00	116.00	23200.00
51	51	Concreting of portion of the pipe at the bend near the culvert as per the drawing SK.15/11. (To Be Inspected by CONSIGNEE)((To Be measured in PER LOCATION)	Location Box	20.00	1765.00	35300.00
52	52	Earthing and soldering of cable armour. (To Be Inspected by CONSIGNEE)(To Be measured in PER CABLE)	Numbers	300.00	31.00	9300.00

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53	53	Provision MS flat connection from Earth pit to LBs/Signals including supply and laying of MS Flat of size 40X6mm at site, supply of GI bolt of size M12X40mm with two Nuts along with two plain washers and one spring washer, drilling of holes in MS flat of different sizes at site, cutting with bending and twisting of MS flat as required at site, painting of MS Flat with one coating of red oxide as primary and two coats of anti-corrosive black paint and drilling of holes in Location Boxes at site. (To Be Inspected by CONSIGNEE)	Metre	500.00	294.00	147000.00
54	54	"Real time Earth measuring Device of split core structure, High Accuracy, Resistance Range 0.01 100, Detector Light and Sound Alarm, IP-54 protection, RS-485 Communication, with extended 4 digit LCD of Koble or Similar make (Model No. KOBLE 2800KB VER 3.0 or similar) : a) Main detector Unit -01 No b) LCD Enclosure fitted with Aviation Plugs-01 No. c) Rs-485 Connector with 0.5 Mt r Cable-01 No. d) RMCU with PFC -01 No. e) All other connecting cables with accessories" (To Be Inspected by CONSIGNEE)	Set	4.00	65725.00	262900.00
55	55	Welding for jointing MS flat 6mm thick X 40mm width of different lengths strips connecting from Earth to location boxes/Signal post/Signal Unit for better continuity. Prior approval of welding material to be taken from Engineer In charge. (To Be Inspected by CONSIGNEE)	Per Weld	200.00	349.00	69800.00
56	56	Fabrication, supply and erection of conventional Earth to Signalling/ Telecom equipments -Excavation of earth and providing earth pipe of size 50mm dia. 3.5mm thick 2.0 m. long G.I. pipe of heavy quality with masonry tub constructed around at earth locations as specified by site Engineer. Alternate layers of 30kgs-charcoal and 30kgs-common salt to be filled in the pit while closing. The pipe perforation etc., to be carried out as per drawing No. SK 10 /10. The earth pipe to be connected to the function with cable as supplied by Railways. The reading should be painted on the masonry tub. The masonry tub of 300 mm x 300 mm x 300mm (along with Kundi) should be covered with cement slab.. (All materials to be supplied by the contractor except cable.). Note 1) Payment can be done with proper certification particulars of earth pit by the field Officer,supervisor and Contractor same should be enclosed with measurement and Bill. 2)The Termination of GI wire with Galvanised Bolt and Nuts with washers of Size 12.5 mm. 3) 35 mm Alluminium lugs to be used for 2 Core 2.5 Sq.mm Cables with Soldering (" To Be Inspected in Earth pipe: RITES others materails & execution: CONSIGNEE")	Numbers	160.00	6652.00	1064320.00

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57	57	"Installation of single earth(maintenance free) including the following:- welding and fixing of copper tape (used as bus bar) welding of cadmium bronze cable to copper plate using material supplied vide item no. 1,2 of SPD of Sch-A . All the material supplied for mounting of copper tape, exothermic weld materials, tools and fixtures for welding copper tapes shall be arranged by contractor. a) Digging /Auguring/Boring of single earth pit of 100mm to 125 mm dia to the depth of approx. 2.8 meter. b) Insertion of 3.0 meter electrode and penetrating it at least 0.2 meter by pushing gently with sledge hammer where the natural soil is assumed. c) Filling of earth pit with earth enhancement compound (EEC) in slurry from and backfilling. d) Carrying out exothermic weld connection on single earth electrode to a copper tape of 150X25X6mm. e) Carrying out exothermic weld connection on the copper tape of 150X25X6mm on earth electrode for connecting two 35 Sq mm cables for redundancy. f) The exothermic welding material for bonding the earth system shall be procured from RDSO approved firms, which includes graphite moulds, clamps, weld metal powders. g) Digging a trench to a depth of at least 0 .5 Mtr. and run the two 35 Sq mm earth conductor (procured against supply item) from earth pit to MEEB. h) Routing and termination of two 35 sq mm earth conductors in trench from earth pit to 300X25X6mm MEEB, which is to be fixed inside the equipment room with two insulation studs. i) 300X300X300 mm (inside dimension) concrete earth pit with a concrete lid, approx 50mm thick with pulling hooks, shall be provided to cover the pit. Back side of the cover will be painted in black and date of the testing and earth resistance value shall be written." (To Be Inspected by CONSIGNEE)	Set	32.00	6338.00	202816.00
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58	58	"Foundation and erection of Colour light signal which includes a) Excavation of pit, casting concrete foundation as per SCR Drg. No. 5772 using metallic templates, for erection of Colour light Signals 4 aspects (foundation bolts, cement, river sand, stone jelly of size 20/20mm dia and all other miscellaneous materials required for the work shall be supplied by the contractor). b) Erection of surface base, signal post, mounting of Colour Light Signal up to 4 aspects complete on signal post / offset bracket, LED fixing, plumbing of the signal through sealing gap between Surface base and signal post, fixing of ladder with platform complete and concreting of ladder shoe, fixing of number plates, marker board, termination tail cables, wiring of signal unit, provision of EWS locks, and painting of one coat of red oxide and two coats of aluminium/enamel paints. When the aspect is fixed on offset bracket using 'U' bolts and nuts, a through bolt shall be provided by drilling of hole in the signal pole to prevent the offset bracket from sliding down. (Supply of surface base, offset bracket, CLS pole, CLS aspects complete, Ladder with shoes and platform, LED aspects, current regulators and wire coils will be supplied by Railways). ('U' bolts and nuts, through bolts and nuts, cement, stone jelly 20/25mm dia, river sand, Signal Colour Rings, all fixing bolts and nuts, teak wood, paints PVC/Nylon sleeves, enamelled number plates, enamelled marker boards, EWS locks, and all other miscellaneous materials for the work shall be supplied by the contractor). 60 % Payment after completion of work mentioned at (a) and remaining 40 % after completion of work at (b)) Description of Items Location survey for cable route and preparation of tentative cable route plan as per the instructions of Engineer in- Charge.(To Be Inspected by CONSIGNEE)	Route Kilo Meter (RKM)	32.00	15360.00	491520.00
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59	59	"Foundation & erection of Shunt signal which includes a) Excavation of pit and casting concrete foundation as per Drg. No. SG/CN/02/10 using metallic templates, for erection of ground type colour light Shunt signal. (Foundation bolts and nuts, cement, river sand, stone jelly of size 20/25mm and all other miscellaneous materials for the work shall be supplied by the contractor). b) Erection of Ground type shunt signal complete including surface base, signal post, LED aspects, number plate, termination of tail cables, wiring of signal unit, provision of EWS locks and painting of one coat of red oxide and two coats of Aluminium /.enamel paint, (Supply of Ground type shunt signal complete including surface base, signal post, LED unit is to be supplied by Railways). [EWS locks, enamelled number plates, bolts and nuts, lead wool, paints and all other miscellaneous materials shall be supplied by the contractor). 60 % Payment after completion of work mentioned at (a) and remaining 40 % after completion of work at (b)) (To Be Inspected by CONSIGNEE)	Numbers	10.00	6805.00	68050.00
60	60	Fixing of offset bracket using 'U' bolts and nuts erection of posts type shunt signal, wiring of LEDs, termination of tail cables, provision of EWS lock, fixing of number plate and painting of one coat of red oxide and two coats of aluminium / enamelled paint. The work also includes drilling suitable holes on the CLS post and provision of a through bolt with nut to prevent the offset bracket from slipping down (Supply of Post type shunt signal, LED unit is to be supplied by Railways). [EWS locks, enamelled number plates, bolts and nuts, lead wool, paints and all other miscellaneous materials shall be supplied by the contractor) (To Be Inspected by CONSIGNEE)	Numbers	14.00	2364.00	33096.00
61	61	Fixing of junction type route indicator - 1 way to 6 way - complete / fixing of additional limb to the existing route indicators, termination of tail cables, wiring as per approved circuits diagram, provision of required number of EWS locks, wire mesh and painting. (Supply of junction type Route Indicators - complete and additional limb is not covered in this schedule). [Fixing bolts and nuts, EWS locks, wire mesh, PVC/Nylon sleeves, paints and all other miscellaneous materials shall be supplied by the contractor]. 1 way route indicator (To Be Inspected by CONSIGNEE)	Numbers	4.00	2156.00	8624.00

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62	62	Fixing of Offset brackets using 'U' bolts and nuts, erecting of Calling On Signals/'A' marker lights, termination of tail cables and wiring, provision of EWS lock, number plates/ markers boards and painting. The work also includes drilling suitable holes on the CLS post and provision of a through bolt with nut to prevent the Off-set bracket from slipping down. (Supply of Calling On Signal / 'A' marker light, LED aspect / holders and bulbs, wire coils and off set brackets will be supplied by Railways). ['U' bolts and nuts, through bolts with nut, EWS lock, Enamelled number plates, PVC/Nylon sleeves, paints and all other miscellaneous materials shall be supplied by the contractor. (To Be Inspected by CONSIGNEE)	Numbers	18.00	1998.00	35964.00
63	63	Manufacturing, Supply, painting and fixing of markers of G/P/C/A/AG/IB Markers as per IRSEM Drg.No.19-D10 on MS sheet of thickness 3mm. Miscellaneous material required for fixing Markers is to be supplied by contractor. . (To Be Inspected by CONSIGNEE)	Numbers	140.00	469.00	65660.00
64	64	Provision of SCREEN on signals when they fall within 2 meters from the live conductor by expanding metal (size 20mm x 60mm strand 3.25 mm wide and 1.6mm thick) as per the instruction of site engineer in charge. This includes supply of all materials including connection with earth electrode as per SCR Drg. No. 5767. (To Be Inspected by CONSIGNEE)	Numbers	4.00	4194.00	16776.00
65	65	Supply of 16 Sq.mm PVC insulated, multi-stand, single core, copper conductor 127/0.4 (127 wires, diameter of each wire is 0.4mm) cable as per IS: 694 or latest, IRS: S 76-89 Amd. 3 or latest. Cable to be supplied in 100 meter coil. Colour to be specified by Engineer in charge.(To Be Inspected by RDSO (item unit is coil)	Numbers	32.00	487.00	15584.00
66	66	Supply and fixing of wire mesh for the following signals, duly painted with black enamel in two coats. Box type mesh for ground type shunt signal (To Be Inspected by CONSIGNEE)	Numbers	10.00	721.00	7210.00
67	67	Fixing of universal point machines and wiring on PSC/Wooden sleepers as per standard drawing. Wiring as per circuitry includes fixing & wiring of point contactor unit frames and controlling relays, fixing and wiring of point termination box, fixing of crank handle ward plate of required configuration and Ground connections, P-clamp insulations, setting, stretcher bars etc., [All miscellaneous material required such as nuts, bolts, washers are to be arranged by contractor] (To Be Inspected by CONSIGNEE)	Numbers	20.00	6460.00	129200.00

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68	68	Installation, termination of cable in termination box, wiring, testing and commissioning of High Thrust point Machine. This includes fixing of point machine on MS plate fixed on sleepers complete with fixing of anti theft covers, MS termination boxes, ground connections, required insulation, crank handle ward (wherever required) etc. This also include necessary adjustment and smithy work, drilling of holes on tongue rails, supply of all miscellaneous material such as flat, angle, bolt, nuts, pins etc. (To Be Inspected by CONSIGNEE)	Numbers	14.00	12067.00	168938.00
69	69	Fabrication, fixing of required configuration of grouping plate in point machine for grouping of crank handle. (To Be Inspected by CONSIGNEE)	Lumpsum	34.00	563.00	19142.00
70	70	Fixing of Track lead junction box on angles (50 x 50 x 6 mm size), drilling one hole on either side of the box of suitable size and fixing track lead junction box by the side of the track, drilling 4 holes of 7.2 mm dia. on Rail, connecting double track leads with bond pins, running track lead wire, termination of track lead wire on ARA terminals duly fixing the same inside the TLJB Teak wood board bolted inside the track lead junction box. (Fixing angles, bolts, nuts and teak wood boards to be supplied by the contractor). (To Be Inspected by CONSIGNEE)	Numbers	400.00	505.00	202000.00
71	71	Wiring of Track circuits feed end, relay end complete with TLDs, batteries, chargers, Chokes, track relays, double lead wires, providing insulation etc.,. Connected with track commissioning of track circuit including provision of bracket for TLD covers and painting. Anti-tilting arrangement has to be done for chargers & batteries. All miscellaneous material required for installation shall be supplied by contractor. (To Be Inspected by CONSIGNEE)	Numbers	80.00	1509.00	120720.00
72	72	"Initial Charging of Secondary Cells with uninterrupted Power Supply: 2 volts 80 AH Note:-Acid and Distled water Quality should be certified by the railways before mixing for solution. "(To Be Inspected by CONSIGNEE)	Numbers	320.00	328.00	104960.00
73	73	Painting of particulars of Glued Joint on rails/track circuit no. on TLJ boxes as per particulars issued by Engineer in charge. Before painting on surface of the Glued Joint Rails/TLJ boxes shall be cleaned thoroughly. Painting shall be done with approved quality of standard paints like Asian/Johnson/ Nicholas /Berger etc. All the men and materials shall be arranged by the contractor and the colours scheme shall be as per the instructions of Engineer in charge. (To Be Inspected by CONSIGNEE)	Numbers	150.00	149.00	22350.00

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74	74	Drilling of four no's of 7.2mm holes, per rail joint on web of the rail , providing bond wires with wire rope. (Bond pins single groves are to be supplied by contractor - Wire rope for bonding will be supplied by Railways.(To Be Inspected by CONSIGNEE).(To Be measured in PER RAIL JOINT)	Numbers	150.00	134.00	20100.00
75	75	"Installation (including power supply arrangements if required), testing and commissioning of SSDAC/HASSDAC. The work consists of: a) Fixing of axle counter track device consisting of Tx-Rx coil assembly for each detection point drilling holes in the rails as per the marking given by the site in charge. b) Fixing of rails deflector plates on either side of each detection points as per the marking given by the site in charge. c) Fixing of evaluators inside pre-erected location boxes on the nominated planks along with VR assembly duly providing anti-vibration arrangements, fixing terminals and wiring as per the instructions of site in-charge. d.) Routing cables from Tx/Rx coil assembly through pre laid GI/HDPE pipe arrangements of track crossing and entering the location box and termination (60 % Payment after installation & Testing and 40% after commissioning)."(To Be Inspected by CONSIGNEE)	Set	16.00	37152.00	594432.00
76	76	Fixing of LEDs along with Jewels, Resistors, Sleeves duly drilling holes and soldering including drawing of wires, bunching and lacing. (All materials to be supplied by the contractor). (To Be Inspected by CONSIGNEE)	Numbers	200.00	19.00	3800.00
77	77	Fabrication and supply of powder coated (of approved colour) MS frames for Location boxes of size 955X155 mm and made of L angular of size 25X25X3 mm to suit 'Q' series relays duly drilling required holes for relay bases (All materials such as frames, bolts, nuts and washers to be supplied by the contractor)(To Be Inspected by CONSIGNEE)	Numbers	80.00	439.00	35120.00
78	78	Fixing of the following on Pre-erected Relay Racks Fixing of approximately 200 no's of 6 way/ 1 way terminal block horizontally on 6mm Hylam sheets which in turn to be fixed to rack with all supports as per instructions of SSE in charge. Materials such as bolts, nuts and supporting flats to be supplied by the contractor only.(To Be Inspected by CONSIGNEE)	Set	24.00	735.00	17640.00
79	79	Cutting and fixing of Hylam sheet of 6 mm/3mm thickness to suit to 1 way relay rack and fixing the following with contractors screws, bolts and nuts and fixing strips, condensers and resistances of various values - 50 No. (To Be Inspected by CONSIGNEE)	Lumpsum	24.00	155.00	3720.00
80	80	Fixing of non-deteriorating fuse holders with LED indications and resistors and negative terminal strips on 6mm Hylam sheet with contractors screws, bolts and nuts. (To Be Inspected by CONSIGNEE)	Numbers	500.00	8.00	4000.00

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81	81	Preparation of Contact Analysis for 'Q' style relays as per detailed technical specification. (To Be Inspected by CONSIGNEE)	Per Relay	19.00	600.00	11400.00
82	82	Fixing relay bases on the relay frames erected in Relay Room, Wiring of all types of relays by drawing various sizes of wires/multi core cable, fixing fuses, condensers, resistances, LEDs etc and wiring duly soldering the same as per approved circuit diagram, testing point to point before soldering and after soldering, bunching and lacing as per detailed technical specification. Numbered ferrules shall be provided for each wire. Different colour codes and sizes of wire to be used as per standard practice. This also includes, provision of all PVC sleeves required to be provided. Copper lugs to suit to 16/02 wire and neat bunching, lacing with Modi Nylon / Twine thread and using PVC dotted tape with buttons. This also includes soldering all the wires in the relay room with Rosin core of IS Spec.1921 (60 % Tin and 40 % Led). Soldering should be done as per standard practice. This also includes inserting the clips, point to point testing as per the circuit diagram and plugging relays to Relay bases (except Inter-cables, relays other materials such as Rosin core, flux, nylon thread. PVC dotted tape should be supplied by the contractor). Point to point testing should be done in the presence of Engineer-in-charge as instructed in two stages, one before soldering and the other after soldering. (To Be Inspected by CONSIGNEE)	Numbers	400.00	701.00	280400.00
83	83	Fabrication, supply and fixing aluminium ladder of size 25 X 25 X 5mm, 200mm width, arrangements for drawing various wires in the battery, equipment and relay rooms. (All material including MS angle and insulation sleeve for ladder to be supplied by contractor). (To Be Inspected by CONSIGNEE)	RMT	200.00	703.00	140600.00
84	84	Erection of CT Rack/Relay rack 1way/2way/4way with scaffolding suitably concreting tri-pod bases using J-bolts, fixing rack support of size 50 x 50 x 6 mm on to the wall. Reel insulators are to be provided for insulating the rack from the scaffolding & tri-pod bases.((To Be measured in PER ONE WAY RACK) (To Be Inspected by CONSIGNEE)	Rack	20.00	701.00	14020.00

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85	85	Cable Duct behind Relay Room/Goomties of 1.8 m dia. and 1.2 meter depth consisting of brick work of 254 mm thickness of proportion 1:6 with sand filling after coiling of cables. The top of sand filling covered with concreting of size 1.3 meter dia. and 200 mm depth of proportion 1:1.5:3. Outside of the duct should be plastered with cement mortar in a ration of 1: 6 to achieve smooth finishing. All materials including cement, chips of size 20 mm and second class bricks etc. to be supplied by the contractor. (To Be Inspected by CONSIGNEE)	Each	4.00	9924.00	39696.00
86	86	Indoor Painting including particulars of CT rack, relay rack, Equipment particulars (IPS, Data logger, UFSBI, ELD, Charger, battery particulars, block instrument, VDU and any other equipments in relay room/ IPS room / Battery room / Telecom room / Maintenance room / SM room), earthing particulars including ring earth particulars outside as applicable and any other indoor particulars as per technical specification for following stations:(To Be Inspected by CONSIGNEE)	Station	4.00	15294.00	61176.00
87	87	Fabrication and Supply of Box suitable for 8 No's KLCRs (To Be Inspected by CONSIGNEE)	Numbers	4.00	17700.00	70800.00
88	88	Supply, installation and wiring of KLCR relay 24V DC Non-AC immunized with 4F/4B contacts. This also includes termination of cable and required wiring in KLCR box. (To Be Inspected by RDSO)	Numbers	20.00	10740.00	214800.00
89	89	Installation, testing and commissioning of Data Logger which includes the software configuration, validation, taking test print, networking to nominated location for monitoring, changing of EPROMS if any and alterations to data base in HQ/SSE offices where ever required. (To Be Inspected by CONSIGNEE)	Numbers	4.00	36208.00	144832.00
90	90	Alteration of database, faults, simulations in Data Loggers and all connected places (like HQ, FEP, STATION etc.) (To Be Inspected by CONSIGNEE)	Numbers	4.00	28114.00	112456.00
91	91	Implementation, testing and commissioning per station of point reversal alarm. (To Be Inspected by CONSIGNEE)	Lumpsum	4.00	7286.00	29144.00
92	92	Supply and installation of Fault analysis terminal for analysis of fault and generating reports for data logger installed at stations with minimum 19 inch display terminal with i5 processor 4GB RAM, HDD 1 TB, Windows 10 Licensed or better. (To Be Inspected by CONSIGNEE)	Numbers	4.00	66716.00	266864.00
93	93	Installation, Calibration and commissioning of Earth Leakage detector 8 to 12 channels as per instructions of engineer in charge. (To Be Inspected by CONSIGNEE)	Numbers	4.00	11802.00	47208.00
94	94	Manufacturing and fixing of glass fronted box (key box) made out of teak wood of size 406X254X75 mm. (To Be Inspected by CONSIGNEE)	Numbers	8.00	3575.00	28600.00

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95	95	Fixing of PVC pipes & bends, drawing of required wires through the same up to functions like control telephone, Dy.control telephone, magneto phones inside SM's office as per circuit diagram. This includes supply and fixing of required DPDT and rotary switches, PVC pipes and bends 25mm dia with 2mm wall thickness, Lightening dischargers and painting of particulars. (To Be Inspected by CONSIGNEE)	Lumpsum	4.00	5406.00	21624.00
96	96	Installation and wiring of token/token-less block Instrument in ASM's room with suitable foundation including fixing of LD's, terminals, fuses & earth connections and any other ancillary works.(To Be Inspected by CONSIGNEE)(ITEM UNIT IS PER INSTRUMENT)	Numbers	4.00	4204.00	16816.00
97	97	"Supply & Installation of Proximity switch (CE approved) for relay room door & connecting with the data logger as per the following specifications. 1. Supply and fixing of different sizes of PVC casing/pipes as required by Railway at site by fixing/clamping to the wall or laying in floor for indoor wiring purposes. Necessary hardware materials such as Galvanized screws and washers, wooden pegs, teak etc, deep boxes, Junction boxes, Normal bends or diversion bends etc. to be arranged by the contractor. 2. Supply & fixing of PVC Flexible pipe of 25/40/50mm dia sizes of reputed make. 3. Drawing of fresh new wires from the relay base/proximity switch to another relay base/Data logger as per the new wiring without affecting the other wires. This also includes testing of wires using buzzer of the new wires drawn once before soldering and once after soldering."(To Be Inspected by CONSIGNEE)	Numbers	4.00	1798.00	7192.00
98	98	Preparation of Track Bonding Diagram on non-transparent acrylic sheet of thickness 4mm with aluminium beading and hanging support with screen printing, lettering and bonding diagram.(To Be Inspected by CONSIGNEE)	Numbers	4.00	9291.00	37164.00
99	99	Preparation of Station Working Order Diagram (SWOD) on non-transparent acrylic sheet of thickness 4mm with aluminium beading and hanging support with screen printing, lettering and yard diagram. (To Be Inspected by CONSIGNEE)	Numbers	2.00	9391.00	18782.00
100	100	Shifting of existing working functions like signals/Shunt/ Calling on/Points/Track circuits etc. from old cable to new laid cables carefully without affecting the traffic under disconnection/blocks, This work also includes releasing the existing tail cables from the relevant gears and re-surfacing the earth excavated as instructed by Railway representative at site. (To Be Inspected by CONSIGNEE)	Numbers	40.00	2123.00	84920.00

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101	101	Carrying out of alterations to the working circuits and fixing of relays and relay groups and energization of relays as per approved circuit diagrams. (All materials such as Rosin core, flux, nylon thread, eyelets and PVC dotted tape to be supplied by contractor. Indoor cables, relays and relay groups, fuses, LEDs, Resistances will be supplied by Railways. (To Be Inspected by CONSIGNEE)(To Be measured in per sheet of circuit diagram)	Numbers	20.00	2091.00	41820.00
102	102	Testing to check integrity of gears (Field correspondence) i.e. One Signal Unit (with or without route)/Track Circuit/LC Gate/One Point machine/One Block Instrument/One Slot etc. This item will be applicable after one round of complete testing of gears by the contractor in presence of Railway Supervisor.(To Be Inspected by CONSIGNEE)	Each	125.00	103.00	12875.00
103	103	Testing and commissioning the entire signalling installations jointly with the Railway representative at site at the Stations/ LC gates/IBS/Auto Signalling covered under various schedules of the Contract, and ensuring that all the signalling gears are installed and adjusted as per the existing rules. Testing and commissioning of Stations (up to 5 roads)(To Be Inspected by CONSIGNEE)	Station	2.00	29427.00	58854.00
104	104	Fabrication, supply and installation of NI panel of size 12" x 24" x 12" made in 18 gauge MS sheet. (To Be Inspected by CONSIGNEE)	Numbers	2.00	12397.00	24794.00
105	105	Provision of temporary signalling arrangement during Non Interlocked working of Signals and Points, such as erection and wiring of temporary relay racks and wiring of relays, SM's slide instruments, wiring alterations in the cable termination rack, apparatus cases, signals, Control panel etc, as per the instructions of Railway representative at site. all other miscellaneous material shall be supplied by contractor (To Be Inspected by CONSIGNEE)	Lumpsum	2.00	25451.00	50902.00
106	106	"Design of Circuit Diagrams in AUTOCAD consisting of the items as mentioned below & submission of Three paper copies for approval (i) Wiring Diagrams (ii) Relay Disposition Charts (iii) Contact Analysis and Fuse Particulars (iv) Termination Chart for Panel Interlocking (v) CT Rack Particulars For a Five-Line Station" (To Be Inspected by CONSIGNEE)	Station	2.00	139536.00	279072.00
107	107	Indoor Painting including particulars of CT rack, relay rack, Equipment particulars (IPS, Data logger, UFSBI, ELD, Charger, battery particulars, block instrument, VDU and any other equipments in relay room/ IPS room / Battery room / Telecom room / Maintenance room / SM room), earthing particulars including ring earth particulars outside as applicable and any other indoor particulars as per technical specification for following stations: More than Three Road Station .(To Be Inspected by CONSIGNEE) (item unit is per station per gomty)	Numbers	2.00	22237.00	44474.00

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108	108	Design of SIP in Auto Cad. Initially, contractor shall submit 3 copies for approval of Railways. One set will be returned duly approved for making a fair copy or for re-submission for approval after incorporating the changes as required by Railways. After carrying out changes, three Hard copies to be submitted for Railway Approval. After approval, Auto Cad copies to be submitted in USB pen drive along with approved copy in Tracing film and six copies of final approved drawing (Ammonia Print or print as approved by Railway) in properly bound booklet along with its scanned copy. For a Five-Line Station(To Be Inspected by CONSIGNEE)	Set	2.00	54010.00	108020.00
109	109	Design of SWRD in Auto Cad. Initially, contractor shall submit 3 copies for approval of Railways. One set will be returned duly approved for making a fair copy or for re-submission for approval after incorporating the changes as required by Railways. After carrying out changes, three Hard copies to be submitted for Railway Approval. After approval, Auto Cad copies to be submitted in USB pen drive along with approved copy in Tracing film and six copies of final approved drawing (Ammonia Print or print as approved by Railway) in properly bound booklet along with its scanned copy. For a Five-Line Station(To Be Inspected by CONSIGNEE)	Set	2.00	28159.00	56318.00
110	110	Preparation of Table of Control based on SIP issued in Auto Cad in A3 size. Initially, contractor shall submit 2 sets of document for approval of Railways. One set will be returned duly approved for making a fair copy or for re- submission for approval after incorporating the changes as required by Railways. After carrying out changes, two sets of Hard copies to be submitted for Railway Approval. After approval, Auto Cad copies to be submitted in USB pen drive along with approved copy in Tracing film and two sets of final approved drawing in properly bound booklet along its scanned copy.(To Be Inspected by CONSIGNEE)	Per Route	160.00	1000.00	160000.00
111	111	Design of Cable Route Plan (Distant to Distant) including details of all track crossing/Horizontal boring/Cable Loop/ Cable Joints etc. in AUTOCAD & submission of coloured paper copies for approval. After approval, Auto Cad copies to be submitted in USB pen drive along with approved copy in Tracing film and six copies of final approved drawing in plastic cover (Ammonia Print or print as approved by Railway) in properly bound booklet along with its scanned copy. For a Five-Line Station(To Be Inspected by CONSIGNEE)	Set	2.00	20574.00	41148.00

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112	112	Design of Cable Distribution Plan in AUTOCAD & submission of Three paper copies for approval as per the practice of SCR. After approval, AUTOCAD copies to be submitted in USB pen drive along with approved copy in Tracing film and six copies of final approved drawing in plastic cover (Ammonia Print or print as approved by Railway) in properly bound booklet along with its scanned copy. To Be Inspected by CONSIGNEE)	Set	2.00	8676.00	17352.00
113	113	"Design in AUTOCAD and submission of two draft copies of Complete Outdoor Particular such as Cable Route Plan, Cable Corage Plan, Cable Termination Rack/Power Rack Particular, Track Bonding, and Location Box Particular along with NI wiring/NI Relay Disposition chart. One copy will be returned either duly approved or for resubmission for approval after incorporating the changes as required by Railways. After approval, one approved Tracing film copy & six copies (Ammonia Print or print as approved by Railway) of above drawings along with six copies of SIP and SWRD in Plastic Covers. All above drawing to be scanned including SIP & SWRD, bound in 6 different booklet with Rexin Cover (Each booklet shall have minimum 10 spare plastic transparent sheet) and a soft copy to be submitted in a Pen Drive for following categories of Stations: For a Five-Line Station (Up to 70 Location Boxes)"(To Be Inspected by CONSIGNEE)	Set	2.00	116448.00	232896.00
114	114	Manufacture, supply and fixing of Sighting Board (size 535mm X 1800mm) with higher intensity grade, retro-reflective sheet on 2mm Aluminium alloy, sheet 14 gauge (0.6 Sq.mm / LC) as per Drg no.SK/13/89 with MS angle of 75X75X6 mm with 6 meter length including paint, excavation of pit and concrete foundation etc. as per the instructions of sight in charge (All necessary materials to be arranged by the contractor). (To Be Inspected by CONSIGNEE)	Numbers	4.00	11763.00	47052.00
115	115	Fabrication, Supply and fixing of CALLING ON instruction boards, STOP boards/BSLB/Shunting Limit Board/Auto section board or any other board with engineering grade reflective sticker of size 600X1000 mm GI sheet, with MS angle of 75X75X6 mm with 6 meter length including paint, excavation of pit and concrete foundation etc. as per the instructions of sight in-charge. All necessary materials to be arranged by the contractor).(To Be Inspected by CONSIGNEE)	Numbers	4.00	5314.00	21256.00

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116	116	Supply, erection and fixing of retro reflective type BPAC Warning boards/IBS Legend Board of size 1000X600X3 mm. The boards shall be provided with Retro Reflective type BPAC Warning boards. MS Angle, stone jelly of size 20 / 25mm dia, river sand, cement, fixing bolts and nuts, paint and all other miscellaneous materials required for the work shall be supplied by the contractor. (To Be Inspected by CONSIGNEE)	Numbers	8.00	9564.00	76512.00
117	117	Manufacture and supply of laminated board of size 45cm x 60cm and 12mm thick with printed instructions as directed by engineer in-charge. (To Be Inspected by CONSIGNEE)	Numbers	60.00	2268.00	136080.00
118	118	Providing teak wood crank handle box, fixing of LEDs, EKT, Counter, welding of EKT to Crank Handle, wiring, testing as per technical specification including concealed wiring in the wall. (To Be Inspected by CONSIGNEE)	Numbers	8.00	5822.00	46576.00
119	119	Supply and installation of wire mesh (GI) with welded MS flat /Aluminium frame and fixing on windows/ ventilators of different sizes as to be given by engineer. (To Be Inspected by CONSIGNEE)(To Be measured in SQ.FOOT)	Foot	180.00	669.00	120420.00
120	120	Supply and fixing of Fire Extinguisher CO2 type (Capacity 4.5 KG) .(To Be Inspected by CONSIGNEE)	Numbers	16.00	8171.00	130736.00
121	121	Provision of Lookout person round the clock in 12 Hours shift beat from Up Home Signal to Down Home signals to avoid theft of signalling assets.) (To Be Inspected by CONSIGNEE)()	Man-Days	120.00	640.00	76800.00
122	122	Transportation of materials from any Stores to Site and vice-versa including loading and unloading. Lead above 50 Kms (To Be Inspected by CONSIGNEE)(To Be measured in PTPK)	Numbers	30000.00	7.00	210000.00
123	123	Releasing of existing apparatus cases (Full/ Half/ Quarter size) without damage after releasing the shelf planks, Terminal blocks, Fuse Blocks, Terminal Boards, Relays of all types EKTs, Secondary Cells, power equipments, 'E' type locks, etc., and breaking the concrete foundation. After releasing, the resultant pits are to be closed and consolidated by ramming and levelling. The released materials shall be accounted and stacked at a place as instructed by Railway representative at site. (To Be Inspected by CONSIGNEE)	Numbers	40.00	2275.00	91000.00
124	124	Releasing of existing SM's control panel including base plank, and other gadgets connected very carefully without causing any damage to the panel, accounting and stacking them neatly at a place as instructed by Railway representative at site. The resultant pit in the flooring shall be removed of all cable bits, levelled and cement plastered.(To Be Inspected by CONSIGNEE)	Numbers	2.00	3979.00	7958.00

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125	125	Dismantling and releasing of existing Colour light Signals complete (up to 4 aspects) with or without Route Indicators, calling on signals, shunt signals etc., carefully without any damage to the gadgets, accounting and stacking them neatly at a place as instructed by Railway representative at site. The work includes breaking the concrete foundation, closing the resultant pit and resurfacing it by ramming and levelling. (To Be Inspected by CONSIGNEE)	Numbers	24.00	2333.00	55992.00
126	126	Supply & Erection of lattice type tripod towers : Casting of foundation with 1:2:4, 20mm metal and river sand to be used, supply & erection of lattice type tripod towers of GI 15 meters of height as per spec enclosed. Provision of earth electrode near the tower and connect the same to tower which is to be erected above the station building/at the site shown by the site Engineer of the Railways.. Cement shall be supplied by Rlys. work includes installation of the antenna, drawing the cable and installation of the battery and 25W set and commissioning the system. 25W set, cable antenna, battery will be supplied by Rlys. (To Be Inspected by CONSIGNEE)	Numbers	2.00	41930.00	83860.00
127	127	Supply and installation of 19' - 42 U Rack complete with fittings for housing SDH equipment, FDMS, DDF and other equipment like cable managers, completely wired using krone module and other equipment like runaway ladders etc., as per technical specification below. It should be able to lock all the equipment with only order wire Telephone outside the rack. The rack should be of APW President I Rittal make or similar. The components of the rack are specified below. It includes transportation and installation of rack in prefab/building at specified stations. 1. Rack S33 42U 600W x 600D - 1 No. 2. Fixed side panels 42U x 600 o - 2 Nos. 3. Front Glass door plain 42U/600W - 1 No. 4. Rear MS Door Plain 42U/600W - 1 No. 5. Castor with brakes-2 Nos. 6 Fans directly mounted on the top 48V DC 90 CFM-2 Nos. 7. Krone mounting bracket - 01 Nos. 8. MCB Mounting panel with MCBs - a. 32 Amps, MCBs(DP) - 2 Nos. & 6Amps MOBs (DP) - 6 Nos. 9. Earth continuity Kit - 01 No. 10. Equipment Trays - 5 Nos. 11. Channel with cable loops 42U - 2 Nos" (To Be Inspected by CONSIGNEE)	Numbers	2.00	41962.00	83924.00
128	128	Supply & installation of Rack 19" wall mount 17U with front glass door and lock and key including the following: 1. 1 U Cable manager - 1 No. 2. 1 U Cantilever tray - 1 No. 3. AC distribution box 5X5 amps - 1 No. 4. Front panel H/W PKT of 10 Sets - 1 No. 5. Cooling fan of 230V AC operated (To Be Inspected by CONSIGNEE)	Numbers	2.00	17545.00	35090.00

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129	129	Installation and commissioning of 4 Wire way station control equipment as detailed below: a) The way station equipment & Power supply unit are to be mounted on a rack as per Drg. No. COREIS&T/ALD /8K1436/95. b) The internal wiring should be wired between VF Repeater/ VF Transformer bay and MS Angle rack then to be extended to Dy.SS/ASM Table as per drawing shown in the sketch (All the wiring materials are to be provided by the contractor) except way station equipment & power supply unit To Be Inspected by CONSIGNEE)	Numbers	8.00	3922.00	31376.00
130	130	Excavation of trench depth of 1000mm and width of 300mm, including marking of cable alignment, clearing of jungle, roots of trees, bushes, trial pits if required, refilling with excavated soil, ramming and consolidation after laying of cables complete to the finished item of work in all type of Soil including soft rocky area as per RDSO Sketch No. SDO!CABLE LAYING!003, as directed by engineer incharge. (To Be measured in RKM) (To Be Inspected by CONSIGNEE)	Numbers	2.00	82000.00	164000.00
131	131	Straight through / derivation with/without transformer joints: Installation Thermo shrinkable jointing kits for straight through / derivation joints for LC gate, pump houses etc where VF transformers are not required and derivatin joint by using 2T trasformer (to be housed in the joint) . This includes tapping of nominated Quad at a specific location shown by the Railway Engineer at site to the jelly field cable already laid. All material including valco tapes except thermo shrinkable jointing kit shall be supplied by the contractor. (Refer Annexure for instructions on cable jointing)./ JOINT .(To Be Inspected by CONSIGNEE)	Numbers	20.00	1449.00	28980.00
132	132	Supply and installation of 45mmx 45mm PVC channels for drawing switchboard cables at OFC cable huts and at stations as indicated by Railway Engineer at site. (To Be Inspected by CONSIGNEE)	Metre	400.00	102.00	40800.00
133	133	Supply and fixing of different sizes of PVC casing /Pipes as required by Railway at site by fixing /clamping to the wall for indoor wiring purposes. All the material required for fixing PVC casing/Pipes are to be supplied by contractor (To Be Inspected by CONSIGNEE)	RMT	400.00	48.00	19200.00
134	134	Supply and laying of Switch board cable 10 Pair / 0.6mm dia. as per TEC 68080:2002 or latest. (To Be Inspected by CONSIGNEE)	Metre	1000.00	35.00	35000.00
135	135	Supply and laying of 20pair PVC switch board cable twisted in pairs PVC sheathed copper conductor 0.5mm dia (delton/krishna udyog or similar) and laying/drawing the cable in the PVC casing/PVC pipe.(To Be Inspected by CONSIGNEE)	Metre	1000.00	88.00	88000.00

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136	136	Supply and installation of 48 volts 200 AH maintenance free VRLA battery in charged condition as per RDSO specification IRS: S-93 / 96(B) (Amd. 1) or latest (2 volts 200 AH - 24 Nos. each set). (To Be Inspected by RDSO)	Set	4.00	104042.00	416168.00
137	137	Supply and installation of 230 volts AC / 48 volts, 25 Amps DC (2 1 configuration) SMPS battery charger (FRFC) as per RDSO spec. RDSO / SPN/TC / 23 / 99 (Ver-4) Amdt.-1 or latest.(To Be Inspected by RDSO)	Numbers	4.00	83721.00	334884.00
138	138	Supply, installation, testing and commissioning of managed expandable rack type STM-4, equipped STM-1, ADM S1.1, as per technical Specification no.GR No.: TEC/GR/TXISDA- 003/02/APR-2010 with 2 Nos.STM-1 aggregate Optical interface upgradable to STM-4, 21 Els, and minimum 8 Nos. of 10/100 base T Ethernet port, Order wire, Power supply unit, sub rack, DDF, Installation materials, manuals and other accessories. The equipment should be TEC/BSNL/RDSO approved .The equipment should be fully wired for its ultimate capacity and provide redundancy for Power supply and Synchronisation. It shall be possible to use the full capacity of the equipment by adding additional tributary cards. The up gradation of STM-1 to STM-4 shall be without change of any internal hardware of the STM equipment. The STM equipment shall have in-built L2 switch for Ethernet ports. Make -Tejas or similar. (To Be Inspected by RDSO)	Numbers	4.00	311694.00	1246776.00
139	139	Supply and installation of programmable Primary Digital Drop Insert Multiplexer fully wired for 30 Channels complete with all accessories from RDSO approved vendor as per RDSO specification IRS TC 68-2012 Rev.0 (with latest amendment) including connectors and cables required for installation including 100 pair Krone type MDF. Each channel card shall have minimum four channels per card. The single sub rack shall be capable of being equipped up to mm. 60 Channels without additional power supply unit. The MUX shall be wired & equipped with following circuits: 1. 2 Wire/4 Wire E&M VF circuits (Minimum 16 No. Ckts) 2. FXO circuits: 6 nos. 3. FXS circuits Subs/Hotline circuits along with ringer card etc.: 08 No's 4. Acquisition card as per design 5. Data User manual. 6. This also includes connecting all pigtails, optical patch cords etc to the SDH equipments. This also includes connection of SDH and primary MUX equipment with all interface cards to the 48V Bus including termination on DDF taking PVC cable over runway or a wall and termination of VF interface circuits to the Krone Termination box. (To Be Inspected by RDSO)	Numbers	2.00	274869.00	549738.00

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140	140	Supply of lightning and surge arrestors of Class B & C suitable for single phase supply in TT network as per specification RDSO/SPN/165/2023 ver.4.0 amd-1 or latest and as recommended by RDSO letter No. STS/E/IPS/GENL dated 27/01/2006 (Amendment 5).(To Be Inspected by RDSO)	Numbers	2.00	14999.00	29998.00
141	141	Provision and laying cement concrete (including transportation of all the material).. Providing and laying in position cement concrete of specified grade including the cost of centring and shuttering :- 1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size) (To Be Inspected by CONSIGNEE)	cum	4.00	5007.00	20028.00
142	142	Blowing of armoured optic fibre cable (OFC Cable supplied by Railways) into the duct supplied vide other NS item of supply portion by using blowing machine and associated works. 10% of OFC length to be blown extra on both ends of Duct i.e. total 20% of Duct length. Before blowing the duct integrity shall be tested. If any defect is found during duct integrity test, the entire length of HDPE duct from one chamber to another chamber is to be replaced by the contractor at his own cost. Payment will be made as per the length of Duct from which OFC is Blown.(To Be Inspected by CONSIGNEE)	Kilometre	2.00	10956.00	21912.00
143	143	Laying of HDPE duct 40133 mm dia in the trenches and in protective works already provided (To Be Inspected by CONSIGNEE)	Kilometre	2.00	7410.00	14820.00
					Total	33459859.00
Schedule	Schedule D- LABOUR NON SOR PORTION					
Item- 04	LABOUR NON SOR PORTION					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Supply of High Density Polyethelyne Pipes (HDPE) of 110 mm outer diameter with 10 mm wall thickness along with one coupler for every 6 meters as per specification No. IS 4984: 2016 with latest amendments and material grade PE 80(To Be Inspected by RITES)	RMT	1600.00	675.00	1080000.00
2	2	Supply and installation of Printed PVC Ferrule for CTR / Locatiob Box and Junction Box (Colour coding and Ferrule counting instructed as per by RLY site Engineer) (To Be Inspected by CONSIGNEE)	Numbers	16000.00	5.08	81280.00
3	3	Lime wash on walls / foundations at site and directed by site incharge one coat with quick lime of approved quality. (To Be Inspected by CONSIGNEE)	Sqm	600.00	3.61	2166.00

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4	4	"Full location Box: Supply and fixing of GI flat of size 1050x25x3mm as given in drawing no. RVNL/S&T/SC/06/2016. to connect all cable armours to earth point with suitable nuts/bolts as given belowA) GI nuts/bolts of size 8x25mm with two flat and one spring washer of 23 set B) GI nuts/bolts of size 12x40mm with two flat and one spring washer of 02 set as per site incharge.(Per Unit = Per LB "(To Be Inspected by CONSIGNEE)	Per Unit	140.00	889.00	124460.00
5	5	Fabrication,Supply and erection of Powder coated Cable Supporting ladder made out of M.S flat of size 35mm width and fixing the same for 'K' Rack. The approximate size of the ladder is 2M x 0.4 M (all materials are to be arranged by the contractor.) (To Be Inspected by CONSIGNEE)	Numbers	20.00	782.00	15640.00
6	6	IP based CCTV camera: Supply and fixing of 1 inch flexible PVC pipe on the walls as instructed by Railway officials. All required items for fixing has to be arranged by contractor (min. 5 screws / Mtr to be used) (To Be Inspected by CONSIGNEE)	Lumpsum	4.00	400.00	1600.00
7	7	Supply and installation of RJ45 Jacks, tags, C- Clamps & spike box connecting cables, Make: MROTEK HOSTA-UG/DAX/HCL (To Be Inspected by CONSIGNEE)	Lumpsum	4.00	1500.00	6000.00
8	8	Supply, installation & commissioning of 1 KVA UPS with battery extender to provide backup. Make: Microtek / Numeric (To Be Inspected by CONSIGNEE)	Numbers	4.00	6960.00	27840.00
9	9	Supply, fixing of 6U rack with standard accessories. Make: Netrack or D- link or similar (To Be Inspected by CONSIGNEE)	Numbers	4.00	5310.00	21240.00
10	10	Installation and commissioning of entire location including transportation of materials to respective locations (To Be Inspected by CONSIGNEE)	Numbers	4.00	15000.00	60000.00
11	11	Supply and installation of 19.5 inch Monitor with all connecting cables to monitor cctv cameras at location. (To Be Inspected by CONSIGNEE)	Numbers	4.00	10653.50	42614.00
12	12	Supply and Installation of Ultrasonic High Variable Frequency Rat Repellant Make:Varna or similar (To Be Inspected by CONSIGNEE)	Numbers	32.00	2625.00	84000.00
13	13	Supply and installation of Automatic fire detection alarm and fire aspiration system "Supply of addressable Relay module (inspection by RDSO) Note: Spares to be supplied conforming to RDSO specifications." (To Be Inspected by RDSO)	Numbers	4.00	3667.22	14668.88

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14	14	"Supply, of High power LED Based Aspiration Detection Unit with programmable 4 stage alarm generation & with 4 addressable modules, The aspiration system shall also include external power supply unit with battery backup. ApprovalUL/CE/LPCB/VDS Listed and shall comply to RDSO/SPN/217/2021 Ver 3.0 or latest. Note: 1. The fire aspiration system supplied shall be compatible with the existing Automatic Fire Detection and Alarm (AFDA) system available at the site. 2. Spares to be supplied conforming to RDSO specifications." (To Be Inspected by RDSO)	Numbers	4.00	256867.71	1027470.84
15	15	"Supply of Air sampling CPVC Pipes with all required accessories for Aspiration system. Note: 1. The fire aspiration system supplied shall be compatible with the existing Automatic Fire Detection and Alarm (AFDA) system available at the site. 2. Spares to be supplied conforming to RDSO specifications." (To Be Inspected by RDSO)	Numbers	4.00	22008.03	88032.12
16	16	"Supply, transportation, Installation, Testing & Commissioning of UL/EN/FM/Vds/LPCB approved microprocessor based Networkable Analog Addressable and modular type of Fire Alarm Control Panel (FACP) with display, in built charging facility and provision of GSM module suitable to send SMS to configured mobile number. The panel should be equipped with sufficient no. of loops and provision of expandability as per RDSO specification no. RDSO/SPN/217/2021 Ver. 3 or latest. The control panel shall be the central processing unit of the system, receiving and analysing signals from probe type by metallic heat detectors, UV and IR flame detectors, heat and smoke multi sensor, LHS interface and manual call point, providing Audible and visual information to the user. The panel shall have the connectivity of TCP-IP suitable for programming and remote monitoring. The panel shall have dedicated RS 232 serial port for direct PC or Modem connection, for interfacing with existing data logger, optional remote printer (as per RDSO specification no RDSO/SPN/217/2016 Ver. 1 or latest. Note: Spares to be supplied conforming to RDSO specifications."	Numbers	4.00	153757.94	615031.76
17	17	"Supply, Installation, Testing & Commissioning of resettable, Addressable multi sensor (heat & smoke) which is fully compatible with analogue addressable protocol, electronically addressed as per RDSO/SPN/217/2018 Ver. 2 d1 or latest. Note: Spares to be supplied conforming to RDSO specifications." (To Be Inspected by RDSO)	Numbers	80.00	3668.40	293472.00

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18	18	"Supply, Installation, Testing & Commissioning of Addressable, resettable manual call point with integral short circuit isolator having status LED for alarming and hot standby mode, electronically addresssed as per UL/LPCB listed and shall comply to RDSO / SPN/217/2016 Ver. 1 or latest. Note: Spares to be supplied conforming to RDSO specifications." (To Be Inspected by RDSO)	Numbers	4.00	5005.30	20021.20
19	19	"Supply, Installation, Testing & Commissioning of Analog Addressable type Input/output modules with inbuilt fault isolator or alternate arrangement which shall isolate the module in case of short circuit. The module shold have programmeble supervised & unsupervised output. The module should have visual indication for the operation, PF contact (NO/NC) approval - UL/LPCB listed and shall comply to RDSO / SPN/217/2016 Ver. 1 or latest. (118 input module & 236 output modules) Note: Spares to be supplied conforming to RDSO specifications." (To Be Inspected by RDSO)	Numbers	12.00	6209.86	74518.32
20	20	"Supply, Installation, Testing & Commissioning of electronic hooter cum strobe with min 85dB output Approval-UL/LPCB Listed and shall comply to RDSO/SPN/217/2016 Ver. 1 or latest. Note: Spares to be supplied conforming to RDSO specifications." (To Be Inspected byRDSO)	Numbers	4.00	5643.46	22573.84
21	21	"Supply, Installation, T e s t i n g & Commissioning of 2X1.5sqmm ATC Fire survival flexible/armoured cable with back box, glands & other accessories. Armoured & un- armoured (CI) cables should meet fire performance test under simultaneous action of Flame, water stress and impacts on single sample at 950°C for minimum 2 hours, certified by LPCB or equivalent complying to RDSO/SPN/217/2016 Ver. 1 or latest. Note: Spares to be supplied conforming to RDSO specifications." (To Be Inspected by RDSO)	Numbers	4.00	35299.41	141197.64
22	22	"Supply, Installation, Testing and Commissioning of Resettable type Analogue LHS cable, (As per RDSO Specification No. RDSO/SPN/217/ 2018 ver 2.0 or latest). Note: Spares to be supplied conforming to RDSO specifications." Supply of High Density Polyethelyne Pipes (HDPE) of 110 mm outer diameter with 10 mm wall thickness along with one coupler for every 6 meters as per specification No. IS 4984: 2016 with latest amendments and material grade PE 80(To Be Inspected by RDSO)	Metre	240.00	747.67	179440.80
23	23	"Supply, Installation, Testing and Commissioning of Analogue Controller for LHS cable, (As per RDSO Specification No. RDSO/SPN/217/ 2018 ver 2.0 or latest). Note: Spares to be supplied conforming to RDSO specifications." (To Be Inspected by RDSO)	Numbers	4.00	52959.92	211839.68

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24	24	Installation testing & Commissioning charges for Aspiration smoke detection (To Be Inspected by CONSIGNEE)	Numbers	4.00	24633.17	98532.68
25	25	Manufacture and supply of Tele Console Cabinet (1000X1500 mm) as per following details: a) Complete body fabricated as per drawing with 1.6mm MS Sheet. b) Double door arrangement with 1.2mm MS Sheet with locking arrangement. c) Separate box for Battery with door. d) 5mm clear acrylic sheet will be fitted in the doors. e) Equipment fixing arrangement with hinged frame in the body. f) Cable tray fixing arrangement as per drawing. g) Three point locking arrangement on one door and tower bolts on second door. Universal Lock and cam lock arrangement for battery box. h) Powder coating of all metal parts. i) PVC cable trays as per requirement assembled in position. j) DIN rails as per requirement assembled in position. (To Be Inspected by CONSIGNEE)	Numbers	2.00	26748.24	53496.48
26	26	Supply & installation of CT Boxes with wago terminals (50 pair) of WAGO make. consists of part nos:280-870 (100nos),280-374(1nos),249-116(2nos),210-229/PW11-0000 (1nos) and Metallic box for outdoor use with locking facility-1 nos. (To Be Inspected by CONSIGNEE)	Numbers	8.00	4165.00	33320.00
27	27	Supply, installation and commissioning of GPS based 4 digit double faced platform clock as per RDSO SPECH No: RDSO /SPN /TC .62 /2008 OR latest (All required material required for commissioning has to arranged by contractor as indicated by railway officials.) (To Be Inspected by RITES)	Numbers	2.00	41750.00	83500.00
28	28	Rectification and re splicing of existing mid section OFC joint. This includes supply and provision of joint repair kit & sleeves. (To Be Inspected by CONSIGNEE)	Numbers	20.00	6210.78	124215.60
29	29	Supply and installation of earthing material for three maintenance free ear pits in sets as per RDSO Spec no: RDSO/SPN/197/2008 Each set consisting of: : (I)Copper bonded steel electrodes of 3.0 mtr long,17.0 mm dia with Copper bonding thickness of Min 250 microns and UL listed and marked- 1nos. II) Earth enhancing compound of RDSO approved brand supplied in sealed bags of min 10kg pack- 3 nos III) Copper strip of 150mmx25mmx6mm to terminate earth rod--1nos. 1V)Copper strip of 300x25x6mm--1nos V. copper strip of 150x25x6 mm - 1 No.All material for should be arranged by contractor including inter connecting cables and extending to MEEB in duplicate as per site requirement at site. (To Be Inspected by RDSO)	Numbers	2.00	59878.91	119757.82

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30	30	Supply and installation of IPM Protection Plug provides both voltage and current protection for single pair on line side. Suitable for Krone modules . Features: • Protection is built in by 3 pole GD Tube • High operating voltage • Nominal current requirement. • Material: Polyvinyl Chloride (PVC). (To be inspected by " Consignee ")	Numbers	1000.00	65.00	65000.00
31	31	Supply and installation of 380mm sweep exhaust fan complet with wiring. Aerodynamically designed and balanced blade Vibration free balanced impellers ; Noise level: 55 dB - 6 dB ; Rated voltage: 220- 230 V/AC ; Rated frequency: 50Hz Dynamically balanced impellers for smooth and vibration-free operation, Pre-lubricated double ball bearing for maintenance free running, Includes: 4 legs ,4 clamps ,1 blade, 1 frame , 1 hardware set. Make: Havels / Crompton or latest ISI brand. (To Be Inspected by CONSIGNEE)	Numbers	4.00	3479.33	13917.32
32	32	Installation of Rack, ladder, FMS, battery and charger and indoor wiring for AC/ DC supply and extending earth (including materials). Work also involves complete wiring of OFC building. The wiring works includes supply and fixing of powder coated 8" width aluminium ladder and include laying of 25 sq mm power cable from the charger to batteries and charger to equipment rack duly terminated on MCB. This work also includes installation and commissioning of SDH STM equipment. (To Be Inspected by CONSIGNEE)	Lumpsum	2.00	31399.06	62798.12
					Total	4889645.10
Schedule	Schedule E-ELECTRONIC INTERLOCKING					
Item- 05	ELECTRONIC INTERLOCKING					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	01	"Supply of Hot Standby Electronic Interlocking System (Centralised/ Distributed) excluding Panel Processor (Hot Standby) with Signalling functions up to 125 functions as per function table enclosed along with 5% spares for the cards/modules/PCB, connectors/couplers, fuses, all relays, crimp contact, convertors etc. used, tools, manuals and Instruments as per RDSO specification RDSO/SPN /192/2019 ver. 2.0 or RDSO/SPN/ 203/2011 ver. 1.0 or latest. Note: Payment will be made for only vital bit as per function table attached by Railways, no payment will be made for non Vital bits such as Counter bits, SM key Bits, Read back bits and any potential free contact bits of DC-DC converter or Modem of EI." (TO BE INSPECTED BY RDSO)	Set	2.00	7832317.00	15664634.00

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2	02	Incremental rate for vital signalling functions in EI SYSTEM over and above 125 functions under item No 4101 along with spares for the cards/modules/PCB, connectors/couplers, fuses, all relays, crimp contact, convertors etc. to the extent of 5% of item no. 4101 & 4102(TO BE INSPECTED BY RDSO)	Per function	284.00	71250.00	20235000.00
3	03	Supply of additional Electronic Interlocking miscellaneous items with all necessary accessories for End Location (Goomty) for Station / IBH / Auto Hut for Distributed Architecture in connection with Item No. 4101 & 4102. (Item unit is Per Goomty /IBH/ Auto Hut) (TO BE INSPECTED BY RDSO)	Numbers	2.00	674202.00	1348404.00
4	04	Supply of commercial grade operator VDU of size 55" Full HD, with backlit LED, with HDMI/DVI port, Inbuilt Speaker, required HDMI/DVI cables for connectivity and other miscellaneous item required for installation (TO BE INSPECTED BY RDSO)	Numbers	4.00	226320.00	905280.00
5	05	Supply of fan less embedded industrial grade computers (Similar to Moxa V2406A or better) with all accessories such as key board, mouse, antivirus etc. of industrial grade as per approved Specification as recommended by RDSO (TAN No. STS/TAN/3007 Version 1.0 or latest) (TO BE INSPECTED BY RDSO)	Numbers	4.00	182900.00	731600.00
6	06	Installation, wiring, testing, soldering of all EI equipments, earthing of EI Equipment, Relay Racks and Power Equipment etc. including supply of power cable and Documents/Manuals (six set) etc. for EI under item no. 4101.(Item unit is Per EI system) (To be inspected by consignee)	EI	2.00	659159.00	1318318.00
7	07	Design and Drawing of Interface and Application Logic for complete indoor signalling work for new EI station up to 200 Routes as per TOC. Initially, contractor shall submit 1 copy for approval of Railways. Final copy shall be submitted after incorporating correction if any. (To be inspected by consignee)	EI	2.00	253418.00	506836.00
8	08	Commissioning of Electronic Interlocking system. (To be inspected by consignee) EI659159.00Click here to Edit.	Numbers	2.00	25604.00	51208.00
9	09	Training of Railway Personnel in installation, commissioning, testing, trouble shooting and in diagnosing faults using diagnostic tools/flow charts including supply of necessary documents (To be inspected by consignee)	Man-Days	60.00	1246.00	74760.00

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10	10	Fabrication, Transportation and fixing of aluminium ladder at site made of Aluminium angle of size 38mm x 5mm width 280mm ,Flat size 25 mm x 5mm with powder coated colour as desired by engineer in charge at site and fixing, Drilling of suitable holes for fixing of Hylam sheet 3mm thickness on ladder and 2 No's of PVC trough 100 mm with cover fixed on Hylam sheet along the ladder with all fixtures necessary ancillary materials required for fixing to be supplied and as directed by engineer in charge at site. (To be inspected by consignee)	RMT	200.00	4098.00	819600.00
11	11	Supply, fabrication, installation and fixing of panel operator consol with arrangement to fix 55" VDU's -Reset boxes, and other S&T gadgets. This shall be made of not less than 18mm thick plywood or better materials with storage facility of approved colours with contractors' materials, lead, lift and manpower as per the instructions of engineer in charge and as per the enclosed drawing. (To be inspected by consignee)	Numbers	2.00	354447.00	708894.00
12	12	Supply of Data entry Desktop terminals as per specification. Processor : Intel core i7 2.8 Ghz or higher, RAM: 8 GB, Hard drive : 1 TB minimum, Optical drive : DVD writer, Serial Ports: 4, Ethernet port : 2, USB Ports: 3 , Key Board : Standard key board , Mouse : Optical mouse , Monitor : 18.5 inch monitor, Operating system : Windows 10 Professional (Licensced) , Antivirus software : MC Afee total protection, with 1 year warranty. System make: NEXCOM/DELL/HP(To be inspected by consignee)	Numbers	2.00	61000.00	122000.00
13	13	EMI/ Earthing arrangements to achieve earth value less than 1 Ohm (minimum 8 maintenance free earth) for EI at central location or end Goomties for object controllers as per RDSO specification as required for the EI system as per Rly. Br. letter No.2010/Sig/SGF/EI (Ansaldo) dated 22.06.2011 or latest shall be followed. All materials shall be supplied by the contractor including Maintenance free earthing.(Item unit is no. of loc) (To be inspected by RDSO)	Numbers	4.00	285013.00	1140052.00
14	14	Supply and installation of "FRANKLIN ROD" as per NFPA- 780 Standards. Installation to be done as per SCR Drawing No.5777. It also includes connection of down conductor with Franklin Rod and running of down conductor through PVC pipes and connecting the same to nearby earth electrode. All material required for installation to be supplied by the contractor. (To be inspected by RITES)	Numbers	8.00	66720.00	533760.00

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15	15	Supply and Installation of High-voltage-resistant insulated Down Conductor for keeping the separation distance from conductive parts according to EN 62305-3 Equivalent separation distance $s \leq 75$ cm (in air) or $s \leq 150$ cm (solid building material). Weather-resistant and UV stabilised Material of conductor: Cu , Material of insulation: PE , Material of sheath: PE Diameter Ø conductor: 20 mm Standard: DIN IEC/TS 62561-8 (VDE V 0185-561-8) along with all accessories such as PVC Pipe, Insulation etc. (To be inspected by RDSO)	Metre	160.00	2750.00	440000.00
16	16	Supply of Equipotential bonding of conducting parts of electrical installation (High power Gas discharge Tube) in accordance with IEC 62561-3 and EN 62561-3 Lightning impulse current (10/350s) I imp 100 kA rated impulse sparkover voltage $U_{r \text{ imp}} < 1.4$ kV as per RDSO earthing TAN STS/E/TAN/3006 ver 3.1 (To be inspected by RITES)	Numbers	8.00	33630.00	269040.00
17	17	Installation of equipotential bonding for a High power Gas discharge Tube (HP-GDT) as part of the electrical earthing system. The work includes excavation or breaking of existig concrete / asphalt surfaces as per site conditions to access the class A earth and perimeter / ring earth conductors. The exposed GI or copper earthing tapes shall be cut and preparedc for bonding. The HP-GDT will be interconnected between these earthing points using exothermic welding with appropriate graphite modules and weld metal to ensure a reliable. low resistance connection. following the welding the joint and HP-GDT assembly will be securely housed in a suitable earth enclosure box to allow inspection and protect agenest damage or corrosion. Upon completion the area will be back filled compacted and surface restoration carried out as required. (To be inspected by consignee)	Numbers	8.00	12500.00	100000.00
					Total	44969386.00

4. ELIGIBILITY CONDITIONS

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

Standard Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	Financial Eligibility Criteria (para 10.2 of GCC 2022)The tenderer must have minimum average annual contractual turnover of V/N or V whichever is less, where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIB, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet. (Ref:GOI, Ministry of Railways, Railway Board, New Delhi. Advance Correction Slip No.1 of IRGCC ,April 2022 Lr.No.2022/CE-I/CT/GCC-2022/Policy Dt:14.07.2022)	No	No	Allowed (Mandatory)
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Standard Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Technical Eligibility Criteria (10.1 part 1 of GCC 2022) (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. (b)(1) In case of tenders for composite works (e.g. works involving more than one distinct component, such as Civil Engineering works, S&T works, Electrical works, OHE works etc. and in the case of major bridges - substructure, superstructure etc.), 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 each component of tender, or (ii)Two similar works each costing not less than the amount equal to 40% of advertised value of each component of tender, or (iii)One similar work each costing not less than the amount equal to 60% of advertised value of each component of tender. Note for b(1): Separate completed works of minimum required values shall also be considered for fulfillment of technical eligibility criteria for different components. (b)(2)In such cases, what constitutes a component in a composite work shall be clearly pre-defined with estimated tender cost of it, as part of the tender documents without any ambiguity. (b) (3) To evaluate the technical eligibility of tenderer, only components of work as stipulated in tender documents for evaluation of technical eligibility, shall be considered. The scope of work covered in other remaining components shall be either executed by tenderer himself if he has work experience as mentioned in clause 7 of the Standard General Conditions of Contractor through subcontractor fulfilling the requirements as per clause 7 of the Standard General Conditions of Contract or jointly i.e., partly himself and remaining through subcontractor, with prior approval of Chief Engineer in writing. However, if required in tender documents by way of Special Conditions, a formal agreement duly notarised, legally enforceable in the court of law, shall be executed by the main contractor with the subcontractor for the component(s) of work proposed to be executed by the subcontractor(s), and shall be submitted along with the offer for considering subletting of that scope of work towards fulfilment of technical eligibility. Such subcontractor must fulfill technical eligibility criteria as follows: The subcontractor shall have successfully completed at least one work similar to work proposed for subcontract, costing not less than 35% value of work to be sub letted, in last 5 years, ending last day of month previous to the one in which tender is invited through a works contract.	No	No	Allowed (Mandatory)

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1.1	Definition of Similar Nature of work : Execution of Panel Interlocking or Electronic Interlocking with MACLS either Indoor or Outdoor works or Both. OR Alteration to Existing Panel Interlocking /Electronic Interlocking with MACLS either Indoor or Outdoor works or Both. OR Provision of IBS works in panel Interlocking or Electronic Interlocking sections. OR Provision of Automatic signalling with Axle counter/Track circuits or both together. OR Provision of UFSBI/BPACs/Digital Axle counters at Panel Interlocking stations/Electronic interlocking stations.	No	No	Not Allowed
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Bidders shall confirm and certify on the behalf of the tenderer including its constituents as under:

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

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

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

5. COMPLIANCE

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)

Special Conditions

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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	EI condition: The successful bidder shall submit an undertaking from RDSO approved EI OEM, before the supply of material, to confirm compliance with extant RDSO guidelines and to meet contract specific requirement. (Vide Rly Board Lr. No.2013/Sig/23/(pt)Dup Dt:17.02.2022)	No	No	Not Allowed

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	I/We have visited the works site and I/ We am/ are aware of the site conditions and IRGCC 2022,Correction slips of the GCC.	No	No	Not Allowed

Custom

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	EI condition: The successful bidder shall submit an undertaking from RDSO approved EI OEM, before the supply of material, to confirm compliance with extant RDSO guidelines and to meet contract specific requirement. (Vide Rly Board Lr. No.2013/Sig/23/(pt)Dup Dt:17.02.2022)	Yes	No	Allowed (Mandatory)
2	Annexure A :- Engineering Organization in Annexure A	Yes	No	Allowed (Optional)
3	List of plants and machinery in Annexure B	Yes	No	Allowed (Optional)
4	List of works completed as per Annexure C	Yes	No	Allowed (Optional)
5	List of works on hand with tenderer in Annexure D	Yes	No	Allowed (Optional)
6	Attested copy of Experience certificate(s)in Annexure E	Yes	No	Allowed (Mandatory)
7	Financial Eligibility Criteria (para 10.2 of GCC 2022)The tenderer must have minimum average annual contractual turnover of V/N or V whichever is less, where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIB, along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet. (Ref:GOI, Ministry of Railways, Railway Board, New Delhi. Advance Correction Slip No.1 of IRGCC ,April 2022 Lr.No.2022/CE-I/CT/GCC-2022/Policy Dt:14.07.2022)	Yes	No	Allowed (Mandatory)
8	NEFT Mandate form	Yes	No	Allowed (Optional)
9	Any other information/Certificate required as per Tender document for partnership deed, Article of Association, MOU, JV agreement, Proprietary firm, GST/SGST/CGST registration certificate etc..	Yes	Yes	Allowed (Mandatory)
10	CHECK LIST OF DOCUMENT TO BE SUBMITTED ALONG WITH TENDER	Yes	No	Allowed (Optional)

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11	The tenderers shall submit a copy of certificate stating that all their statements/documents submitted along with bid are true and factual. Standard format of certificate to be submitted by the bidder is enclosed as Annexure-V. In addition to Annexure-V, in case of other than Company/Proprietary firm. Annexure -V(A) shall also be submitted by the each member of a Partnership Firm / Joint Venture (JV) / Hindu Undivided Family (HUH / Limited Liability Partnership (LLP) etc, as the case may be. Non submission of above certificate(s) by the bidder shall result in summarily rejection of his/their bid. It shall be mandatorily incumbent upon the tenderer to identify, state and submit the supporting documents duly self attested/digitally signed by which they/he is qualifying the Qualifying Criteria mentioned in the Tender Document.(Ref: Advance Correction Slip No. 2 ; Rly Board Ltr No. 2022/ CE-I/CT/GCC-2022 Policy New Delhi, Dated 13.12.2022) (On IREPS Module, a facility has been created for online submission of Annexure-V) (As per Rly Board Ltr No. 20221 CE-UCTIGCC Correspondence New Delhi, dated 14.05.2024)	Yes	No	Allowed (Mandatory)
12	GSTIN SHOULD BE SUBMITTED ALONG WITH THE TENDER OFFER	Yes	No	Allowed (Mandatory)
13	* Documents to be Submitted Along with Tender (As per GCC 2022 Clause 14 of PART-I) Identification of Tenderer(As applicable) a).In case of sole Proprietorship firm:. b).In case of HUF c).In case of Partnership Firm: d).In case of JV: e).In case Company registered under Companies Act2013: f).In case of LLP (Limited Liability Partnership): g).In case of Registered Society and Registered Trust Note: For sl no. a) to g), the Tenderer should submit the required documents as mentioned below of the table(As per GCC 2022 conditions) (PI refer GCC 2022,Advance correction slips of the GCC for more information)	Yes	No	Allowed (Mandatory)

6. Documents attached with tender

S.No.	Document Name	Document Description
1	ProposalsketchNSKL.pdf	tentative dia nskl
2	ProposalsketchGNP.pdf	tentative dia of GNP
3	ListofAnnexuresfortender.pdf	List of Annexures
4	corrslips1to11_compressed.pdf	correction slips
5	Tele_Cir_9-2023.pdf	JPO FOR CABLE DIGGING
6	GCC_April-2022__1.pdf	GCC 2022
7	MAKEININDIA2.pdf	MAKE IN INDIA II
8	MAKEININDIA1_compressed1.pdf	MAKE IN INDIA I
9	DRAWINGS.pdf	DRAWINGS
10	MasterTenderDocumentT.NO607.pdf	master tender doc
11	Technical_SpecificationsT.NO.607.pdf	technical specifications
12	SpecialConditionsofContractforT.NO.607.pdf	special conditions of tender

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: SUMIT MITTAL

Designation : Sr.DSTE M SC