

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

Tender No: SnT-C-BRC-156-2026-27

Closing Date/Time: 27/07/2026 15:00

DY CSTE C BRC acting for and on behalf of The President of India invites E-Tenders against Tender No **SnT-C-BRC-156-2026-27** Closing Date/Time 27/07/2026 15:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

1. NIT HEADER

Name of Work	Shifting of existing S&T gears such as buried cables, OFC, location boxes, and LC gate equipment for removal of infringements and dismantle with clearing site to facilitate earthwork and bridge work in connection with Quadruling project between Vadodara to Godhra work and "Design, Supply, Installation, Alteration, Testing and Commissioning of Hot Standby Electronic Interlocking (Hitachi Make) System and Outdoor Signaling Systems in connection with Track circuiting work at Sevaliya Station for WTPS Siding under Dy. CSTE Construction, Vadodara, Gujarat (Western Railway).		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	27/07/2026 15:00	Date Time Of Uploading Tender	01/07/2026 12:50
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	300560210.65	Tendering Section	BARODA DIV
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	6011200.00	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	13/07/2026		
Are JV allowed to bid	Yes	Number of JV Member Allowed	3
Are Consortium allowed to bid	No	Number of Consortium Member Allowed	0
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A1-Supply of Items							72265204.30	
1	Please see Item Breakup for details.			2952129.90	AT Par	2952129.90		
	Description:- Data logger system for Railway S&T installation As per spec. IRS: S-99 2006 (Amdt-3) or latest. Central Monitoring Unit (Hardware Configuration as per Annexure) with UPS minimum 06 hrs battery backup and required Software tools. This also includes the supply of one no composite computer & printer table (Godrej workstation table) for keeping the Processor module and one no Godrej make operator chair model PCH7001.							
2	A1	6.00	Set	44520.26	267121.56	AT Par	267121.56	
	Description:- Failure Analysis & Fault Diagnostic software for data logger of 1024 digital inputs /4096 digital inputs.							
3	A1	6.00	Numbers	239704.34	1438226.04	AT Par	1438226.04	
	Description:- Failure Analysis System or Central Monitoring Unit with Printer. As per technical specification IRS: S-992006 (Amdt-3) or latest. The specification of Failure Analysis System should be got approved from the Engineer in charge before supply. The Specification of Failure Analysis System shall be as per technical specification given in contract Agreement or higher version as approved by Engineer In-Charge. (Technical specification shall be provided in tender documents.)							
4	A1	6.00	Numbers	26366.48	158198.88	AT Par	158198.88	
	Description:- 750 VA Off line UPS with battery backup 3 Hours for Failure Analysis System of reputed make as per Engineer in-charge.							
5	A1	98.00	Numbers	7182.53	703887.94	AT Par	703887.94	
	Description:- Main Signal Post Tubular 140 mm Dia, 4.6 Mtr Length as per IRS: S-6/81 or Latest & RDSO Drg. No. SA-24625 (Advance).							
6	A1	13.00	Numbers	9871.24	128326.12	AT Par	128326.12	

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7	Description:- Main Signal Post Tubular 140 mm Dia, 5.6 Mtr Length as per IRS: S-6/81 or Latest & RDSO Drg. No. SA-24625 (Advance).					
	Please see Item Breakup for details.	434195.25	AT Par	434195.25		
8	Description:- Supply Color Light Signal Accessories.					
	A1	98.00	Numbers	4021.99	394155.02	AT Par 394155.02
9	Description:- Offset brackets for Main Signal, made of tubular steel, outer diameter 140 mm, thickness of pipe 4.5 mm. horizontal length of pipe 545 mm & vertical length of pipe 324 mm with fixing arrangement on Main Signal post as per Drawing No SW/554/G/R.					
	A1	37.00	Numbers	25034.08	926260.96	AT Par 926260.96
10	Description:- Non Metallic (FRP) color light signal housing multi-unit type for railway signaling suitable for RE area TWO Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Vol. 1.0) or latest and FRP material as per RDSO SPEC. No. RDSO / SPN / 151/ 1997 or latest.					
	A1	59.00	Numbers	27020.46	1594207.14	AT Par 1594207.14
11	Description:- "Non Metallic (FRP) color light signal housing multi-unit type for railway signaling suitable for RE area THREE Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Vol.1.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest."					
	A1	52.00	Numbers	33303.86	1731800.72	AT Par 1731800.72
12	Description:- Non Metallic (FRP) color light signal housing multi-unit type for railway signalling suitable for RE area FOUR Aspects. Complete without lenses, lamps and signal transformer as per RDSO Drg.No. SA 23001/A/M Adv. Alt- Sand as per SPEC. No. RDSO/SPN/194/2006 (Vol.1.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest.					
	A1	5.00	Numbers	19071.77	95358.85	AT Par 95358.85
13	Description:- Non Metallic (FRP) Junction route indicator unit 1 ways as per Drg. No. RDSO SA 23403 suitable for LED Signal Lighting Unit & as IRS: S-66/84 amndt-1 or latest.					
	A1	12.00	Numbers	19071.77	228861.24	AT Par 228861.24
14	Description:- Non Metallic (FRP) Junction route indicator unit 2 ways as per Drg. No. RDSO SA 23403 suitable for LED Signal Lighting Unit & as IRS: S-66/84 amndt-1 or latest.					
	A1	7.00	Numbers	31859.21	223014.47	AT Par 223014.47
15	Description:- Non Metallic (FRP) Junction route indicator unit 3 ways as per Drg. No. RDSO SA 23403 suitable for LED Signal Lighting Unit & as IRS: S-66/84 amndt-1 or latest.					
	A1	3.00	Numbers	21442.84	64328.52	AT Par 64328.52
16	Description:- Non Metallic (FRP) Junction route indicator unit 4 way as per Drg. No. RDSO SA 23401 suitable for LED Signal Lighting Unit & as IRS: S-66/84 amndt-1 or latest.					
	A1	10.00	Numbers	2418.50	24185.00	AT Par 24185.00
17	Description:- Calling ON Signal Unit with Brackets & Fixing accessories. Calling On Signal Unit shall conform to RDSO Drg no 24351(Adv.) Alt1 suitable to LED Signal Lighting Unit.					
	A1	12.00	Numbers	4104.24	49250.88	AT Par 49250.88
18	Description:- "Position Light Shunt Signal Unit Complete with Post (made of GI Pipe of 80 mm Diameter Medium Class IS Spec. No. IS: 1239 Pt. 1/1990) Base, Hood, and Cover, etc. as per Drg. No. SA-23840, Signal Number Plate, suitable for LED Signal Lighting Unit. (Supply of LED Unit is not covered in this item)."					
	A1	8.00	Numbers	2943.13	23545.04	AT Par 23545.04
19	Description:- Position Light Shunt Signal Unit Complete, with offset bracket, hood, Cover etc. as per Drg. No. SA-23840 suitable for LED Signal Lighting Unit. (Supply of LED Unit is not covered in this item).					
	A1	98.00	Numbers	1122.00	109956.00	AT Par 109956.00
20	Description:- Fabrication and fixing of 'A' Marker (Drg No. CSTE/6180), 'AG' Marker (Drg No. CSTE/6181), 'P' Marker (Drg No. CSTE/6182), Arrow Marker (Drg No. CSTE/6183), 'G' Marker (Drg No. CSTE/6184), 'C' Marker (Drg No. CSTE/6185). Marker disk on signals as per standard practice All material required for this work shall be supplied by Contractor.					
	Please see Item Breakup for details.	1686543.75	AT Par	1686543.75		
21	Description:- Supply of DC Track Circuit Accessories as follows -					
	A1	50.00	Numbers	4840.17	242008.50	AT Par 242008.50
22	Description:- Relay, AC Immune, Plug-in-type, style "QNA1K" ACI DC Neutral line, 24V D C 1000 Ohms 6F.6B contacts, front contacts metal to carbon and back contacts metal to carbon. Complete with plug board, retaining clip and connectors conforming to IRS: S34, IRS: S23, BRS931A. As per RDSO Specification No. STS/E/Relays/UEA (PI) Dt.30/05/97. Annexure II. The interlocking pin code CDEKY.					
	A1	125.00	Set	4732.53	591566.25	AT Par 591566.25

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	Description:- Miniature, Plug in Type, M to C,DC Neutral ,Track relay, ACI, Style QTA2, 9 Ohm, 2F-1B contact, Code - FGHKX Spec : BRS :939-A & 966 (Appx-F2) & IRS : S-23, S- 23,S-34 & 60.						
23	A1	20.00	Numbers	5231.87	104637.40	AT Par	104637.40
	Description:- Miniature, Plug in type, M to C, AC immunized, DC biased Track Relay, 2F-2B contacts, style QBAT-9 ohms. Code ABEJX Spec:- RDSO/SPN/84 Ver. 2 : IRS - S@ 45"44@IRS-S-23, IRS-S@ 45<45@ 78.						
24	A1	5.00	Numbers	4749.25	23746.25	AT Par	23746.25
	Description:- Relay fail safe electronic time delay device mounted on Q series relay base and cover with fixed timing of 60/120 second confirming to IRS:S:61/2000(ver.1.0) (Amdt. 3) or Latest,IRS:S:34 and IRS:S:23 (as applicable). The Interlocking code for this unit shall be AFGKY.						
25	A1	25.00	Numbers	8535.72	213393.00	AT Par	213393.00
	Description:- Key Lock Relay working on 24V DC, AC immunize with different ward combinations (Three ward plates to be supplied with each relay). Key ward shall be specified by engineer incharge as per requirement.						
26	A1	270.00	Numbers	5123.64	1383382.80	AT Par	1383382.80
	Description:- Miniature, Plug-in Type, DC Neutral Line AC Immunized Relay, Style QNA1, 24 V DC, 8F-8B/12F-4BContact, Code ABDGH/ABDFH Spec: BRS: 931A; IRS S 34; IRS S 23; IRS S 60-78.						
27	A1	50.00	Numbers	6474.03	323701.50	AT Par	323701.50
	Description:- Miniature, Plug-in Type, DC Neutral Line Magnetically Latched Relay, Style QL1, 24 V DC, 11F-4B Contact, Code ABDEG Spec: BRS:935A ; IRSS 34 ; IRS S 23.						
28	A1	90.00	Numbers	5276.31	474867.90	AT Par	474867.90
	Description:- Universal AC ECR of Q series, type "QECX61" suitable for AC LED all signal aspect, Front & back contact Metal to Carbon type complete with plug board retaining clip & connectors conforming to Spec STS/E/Relays/AC Lit LED Signal/09/2002, BRS: 941A, IRS: S34 and IRS: S23 (as applicable).						
29	A1	120.00	Numbers	4027.41	483289.20	AT Par	483289.20
	Description:- Miniature, Plug-in Type, DC Neutral Line, Non AC Immunized Relay, Style QN1, 24 V DC, 8F-8B/12F- 4BContact, Code ABCDF/ABCDE Spec: BRS: 930; IRSS 34; IRS S 23.						
30	A1	3.00	Numbers	52575.88	157727.64	AT Par	157727.64
	Description:- Supply of Smart Cabinet/Rack for Housing of Various S&T equipments like KLCR, Reset Box, IPS Indication Panel, CA VA Unit for FACS, SP AU for Point Reversal, Crank Handle, Quad Cable Earth Sensing Unit along with Fixing of KLCR (KLCR will be provided by Railway) as per instruction of Site Engineer, Make RITTAL, SANTEL, VERO , PRESIDENT, APC Schneider or similar reputed make.						
31	A1	50.00	Numbers	21751.36	1087568.00	AT Par	1087568.00
	Description:- Cable termination racks as per Drg. no. CSTE 5004, 5005, 5006 complete along with fitting arrangements and also with arrangement for fixing four 8-way terminal strips/ Screw less terminals on each row having 16 such rows. Supply of 8 way terminal strips/ Screw less terminals not covered under this item. Cable termination rack shall be Powder Coated.						
32	A1	15.00	Numbers	150000.00	2250000.00	AT Par	2250000.00
	Description:- Supply of Earth Leakage Detector (8 Channel) Level-2 as per RDSO specification no. RDSO/SPN/256/2025 Version: 2.0 or latest.						
33	A1	25.00	Each Module	24524.17	613104.25	AT Par	613104.25
	Description:- Fuse auto changeover system for use in Railway Signaling System as per RDSO/SPN/209/2012 rev.1 with latest amendments. One Automatic changeover Unit comprises 32 nos. of external Non-Deteriorating Type or 'G' type fuses from 0.6 Amp to 4 Amp capacities which are in signaling circuits. The system shall have 8 cards with a monitoring arrangement of 4 fuses in one card.						
34	Please see Item Breakup for details.				1657633.20	AT Par	1657633.20
	Description:- Disconnect Terminal Block, Screw less type, as per RDSO Spec. No.RDSO/SPN/189/2004. With the latest amendments.						
35	A1	650.00	Numbers	245.38	159497.00	AT Par	159497.00
	Description:- Supply of 4 connection points single potential through screw less terminal block for 6 Sq.mm - 3 5 Sq.mm , 4 connection points 284-621/624 or superior, suitable for power cable connection.						
36	A1	24.00	Numbers	6173.53	148164.72	AT Par	148164.72
	Description:- Fire Extinguisher CO2 type (capacity 5 kg).						
37	A1	840.00	Numbers	178.28	149755.20	AT Par	149755.20
	Description:- Pad locks Godrej make, Hardened NavTal 7 lever, 65mm Dia with common key or similar product having same feature & technical data.						
38	A1	200.00	Numbers	2451.92	490384.00	AT Par	490384.00
	Description:- Earth Electrode as per Drg. No. CSTE / 6091.						

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39	A1	500.00	Numbers	9449.12	4724560.00	AT Par	4724560.00	
	Description:- Maintenance Free Earth Electrode of length 3m, including supply of 3 bags of Earth enhancement material for earthing (10KGs /bag) for each electrode & other accessories as per Drg. No. SDO / RDSO/ E&B/001 and RDSO Spec No. RDSO / SPN/197/2008.							
40	A1	26000.00	Numbers	68.92	1791920.00	AT Par	1791920.00	
	Description:- ARA Terminal blocks with links made of PBT Spec No.s/75/2006 (Rev - 2) with latest amendments and RDSO Drg.No.SA-23741A Alt.4.							
41	A1	198.00	Numbers	13675.30	2707709.40	AT Par	2707709.40	
	Description:- Apparatus Case Single NE Rly Type as per Drg. No. W. Rly/SW/47/68 Alt-A, fitted with two no.s of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376/3473 and Key to Drg. No. 3377.Note- This item includes the supply & fixing of 2 No.s E Type Lock fitted on both doors, along with two Keys.							
42	A1	218.00	Numbers	8667.14	1889436.52	AT Par	1889436.52	
	Description:- Apparatus Case half NE Rly Type as per Drg. No. W. Rly/SW/47/68 Alt-A fitted two no.s E Type lock of (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376/3473 and Key to Drg. No. 3377. Note: This item includes the supply & fixing of 2 No.s E Type Lock fitted on both doors, along with two Keys.							
43	A1	1.00	Kilometre	139726.85	139726.85	AT Par	139726.85	
	Description:- PVC insulated Railway Signalling multi-core Indoor Cable 60 core x 0.6mm Dia conforming to IRS:76/89 (Amd 3) or latest.							
44	A1	3.00	Kilometre	119463.48	358390.44	AT Par	358390.44	
	Description:- PPVC insulated Railway Signaling multi-core Indoor Cable 1mm x 24 mm x 1 mm Dia conforming to IRS:76/89(Amd3) or latest.							
45	A1	1.00	Kilometre	110060.65	110060.65	AT Par	110060.65	
	Description:- PVC insulated Railway Signaling multi-core Indoor Cable 1 mm x 40 mm x 0.6mm Dia conforming to IRS:76/89(Amd3) or latest.							
46	A1	5.00	Kilometre	4693.20	23466.00	AT Par	23466.00	
	Description:- Single core multi-strand wire 0.5 sq.mm. (16 conductor each dia. 0.2mm), as per IRS 76/89 (Amd3) or latest.							
47	A1	3.00	Kilometre	32601.83	97805.49	AT Par	97805.49	
	Description:- Flexible cable (Power wire), multi-strand copper conductors cross-section 1x6 Sq.mm. (85 conductors each diameter 0.30 +/- 0.01) as per IS 694/1990 with insulation thickness of 0.80 mm nominal conductor resistance 3.30 ohms/km and test parameters are as per IRS(S)76/89 or latest.							
48	A1	2.00	Kilometre	118220.17	236440.34	AT Par	236440.34	
	Description:- Flexible cable (Power wire), multi-strand copper conductors cross section (1x16Sq.mm).101 Conductors each diameter 0.45 +/- 0.01 as per IS 694/2010 with insulation thickness of 1.2mm nominal conductor resistance 1.127 Ohms/Km and test parameters as per IRS(S) 76/89 or latest.							
49	A1	2.00	Kilometre	124554.81	249109.62	AT Par	249109.62	
	Description:- Flexible cable (Power wire), multi-strand copper conductor's cross section 25 Sq. mm (0.4x196) as per specn. IS 694/2010 with latest amendment, and test parameters as per IRS(S) 76/89.							
50	A1	1250.00	Numbers	1757.06	2196325.00	AT Par	2196325.00	
	Description:- Double Walled Corrugated (DWC) HDPE Pipe with associated collars etc. as per RDSO Specification No. RDSO/SPN/204/2011 or latest anti-rodent & anti-oxidant and non-flame propagating type in 6 meters straight length and of size 120 mm outer dia & 103.5 mm inner dia.One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. (1) Suitable snap fit coupler with rubber 'O- Ring (2) Spacers (3) Tees (4) Bend, (5) End-cap (The total quantity of above items is equal to no. of pipes supplied.) DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vender name and year of manufacture can be easily identified. Color -Bright Orange; Min Weight = 4kg. Test Check by Consignee & Sample check by JAG officer.							
51	A1	350.00	Running Metre	1060.27	371094.50	AT Par	371094.50	
	Description:- Medium Class G.I. Pipes to IS: 1239 (Pt.)-2004 or latest; 100 mm dia. (int. Dia) 3.65 mm thick or above with coupling. G.I. pipes shall have ISI mark on it and contractor should submit manufacturer's test certificate of G.I. pipes.							
52	A1	8.00	Numbers	1032532.90	8260263.20	AT Par	8260263.20	
	Description:- SMPS based Integrated PowerSupply System for IBS & LCGate in RE-Section as per RDSOSpec. No RDSO/SPN/165/2012version -3 or latest and Drg.No. CSTE/6155/ 2 of 7.Thisincludes transportation,installation and Commissioningof Integrated Power SupplySystem.							
	Please see Item Breakup for details.				3648235.50	AT Par	3648235.50	

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53	Description:- Microcontroller based programmable static switching module (Auto changeover) of Reliance Electricals Make or similar, with an at a glance LCD display suitable for break-less switching between two DC supplies as per attached technical specifications.						
54	A1	2.00	Numbers	12101.30	24202.60	AT Par	24202.60
	Description:- Supply of Digital Earth Resistance tester three terminal type with LED display, 1999 count, KOICO model 5600 or any reputed make approved by engineer in-charge.						
55	A1	2.00	Numbers	7465.80	14931.60	AT Par	14931.60
	Description:- Supply of Digital Insulation Tester 100V/250V/500V range of Model Rish insu 20 Make-RISHABH or MECO or similar.						
56	A1	1.00	Numbers	1387100.00	1387100.00	AT Par	1387100.00
	Description:- "Supply of in-built GNSS based cable route tracer with 10W, 500mA, 85V transmitter suitable for detecting & mapping underground cables with accuracy which can up to 3-5 cm or better with current direction up/down arrows, Remote calibration check feature. Supply shall include inbuilt RTK enabled receiver, transmitter, compatible dual Bluetooth android phone with RTK mobile application pre-installed in android device along with minimum 5 years subscription, compatible with NTRIP and RTCMv3.X messaging standards and holder & standard accessories. Make/Model- Radio detection RD8200GS or similar."						
57	A1	15.00	Numbers	65780.49	986707.35	AT Par	986707.35
	Description:- Supply of Microcontroller based Quad Cable Conductor's Earth Resistance Sensing Unit, for 24 nos. conductors with metering facility for one conductor at a time						
58	A1	9000.00	Numbers	383.50	3451500.00	AT Par	3451500.00
	Description:- Half Round DWC pipe 200mm ID SN 8 - 2 MTR Half Round - AS PER IS 16098 PART II (additional property RRNFP - ANTI RODENT AND NON-FLAMBLE) ,Colour-Black						
59	A1	5.00	Numbers	314510.18	1572550.90	AT Par	1572550.90
	Description:- Supply and installation of active lightning arrestor of class-A for building protection of ERICO 3000 Make franklin rod type or similar with the approval of engineer incharge which shall work on controlled streaming principle along with counter as per technical specification enclosed. Installation to be done by OEM authorized firm/Vendors.						
60	A1	20.00	Numbers	5460.61	109212.20	AT Par	109212.20
	Description:- Supply & Fixing of Stop Board, Block section limit Board, goods warning board and all other boards with contractors own material. The work shall be done as per instruction of Rly. Engineer incharge as per IRSEM.						
61	A1	1250.00	Numbers	629.52	786900.00	AT Par	786900.00
	Description:- Supply of Fiber/PVC Earth chamber with locking arrangements/ Supply of Fiber/SMC/FRP/RCC Earth Chamber.						
62	A1	5.00	Station	3383.71	16918.55	AT Par	16918.55
	Description:- Translation of Station Working Rules from english to hindi and framing out in DIGLOT form (or similar software) as per extant Rly practice. The required SWR in english will be provided by the contractor and has been covered separately in item no. Sch B 12 (i) and (ii)						
63	A1	150.00	Set	134.89	20233.50	AT Par	20233.50
	Description:- Making photocopies & binding of the SWR literature in English/hindi/Diglot form as per Railway practice. Inspection:						
64	A1	2.00	Numbers	731600.00	1463200.00	AT Par	1463200.00
	Description:- Micro controller based (direct in dB reading) High Frequency Quad cable test setup for NEXT and FEXT measurement. This set consist 1. Cross talk meter Model EPAX-H 1948UC (Near/far end unit)- 1 nos 2. Cross talk meter Model EPAX-H 1948UC (Near/far end unit)- 1 no as per attached specification.						
65	A1	400.00	Numbers	4768.10	1907240.00	AT Par	1907240.00
	Description:- Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 10 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied.						
66	Please see Item Breakup for details.				351807.90	AT Par	351807.90
	Description:- Provision of Field accessories of DC Track Circuits						
	A1	4.00	Set	452349.71	1809398.84	AT Par	1809398.84

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67	Description:- Supply of Single Section Digital Axle Counter (SSDAC) with two detection point with reset arrangement and vital relay box as per RDSO/SPN/177/2012 Ver.03 or latest. Each set consist of the following - (a) High frequency TX coil and RX coil (Each set consist of web mounting type TX coils-2 Nos. RX coils-2 Nos. along with 10 mtr cable- 2 sets), (b) Track side digital axle counter unit-2 Nos. (c) 24V 6F/4B, 1000 ohm "Q" type relay box duly wired-2 Nos. (d) Clamp with deflector plates and hardware etc-4 Nos. (e) Reset Box-2 Nos. (f) Mushroom/Location Box suitable for housing Track side equipment (2 No.s). Transportation, Installation, Testing & Commissioning - Transportation, Installation, Testing & Commissioning of equipment field training (one man day per set) at site or as desired by Site Engineer. These includes - (a) Foundation and erection of Track side Equipment i.e. Mushroom/ Location Box (if required). This includes supply of all associated materials. (b) Individual Earthing of all detection Point for the OEM recommended earth value certified by OEM Site Engineer. This includes supply & installation of maintenance free earth materials and exothermic bonding and other connecting cable etc. as per Railway practice (As per RDSO Spec. No. RDSO/SPN/197/2008 or latest. Resetting equipment to be connected to the EI Ring earth. (c) Installation to be carried out by OEM certified Engineer. 3) Tool Kit consisting of - (a) Digital True RMS multi meter of suitable make for above Digital Axle Counter System with probe set-1 No. (b) Train Simulator (High frequency)- 1 No. (c) Extender Card-1 No. (d) Dummy wheel-1 No. (e) Different type of spanners suitable for above Digital Axle Counter- 1 Set. (f) Torque wrenches suitable for the above-1 No. (g) Screw driver set suitable for the above-1 Set. (h) Carrying Bag for Tools-1 No. (i) 6 Nos. Electrostatic Discharge Wrist Band for cards/ modules protection.							
68	A1	2.00	Numbers	65848.63	131697.26	AT Par	131697.26	
	Description:- Multi lamp numeric indicator (LED Single digit) from 1 to 9 with LED along with housing rack and I/P voltage 110+5% visibility 400 meters (Minimum).							
69	Please see Item Breakup for details.				1260000.00	AT Par	1260000.00	
	Description:- Supply of of Q series Relay Group for Signals.							
70	A1	5.00	Numbers	141600.00	708000.00	AT Par	708000.00	
	Description:- Supply of AC to DC Converters for Location boxes, Isolation Transformer, SPDs in each location box with accessories							
71	A1	3.00	Numbers	1253160.00	3759480.00	AT Par	3759480.00	
	Description:- Supply of HIMatrix for location boxes							
72	A1	10.00	Numbers	191160.00	1911600.00	AT Par	1911600.00	
	Description:- Supply of Communication Switches, FMS and other communication accessories							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A2-Supply Telecom							48322754.20	
1	A2	100.00	Numbers	2318.48	231848.00	AT Par	231848.00	
	Description:- Supply of Thermo shrinkable joint kit as per RDSO spec no. IRS TC 77/2010 Rev-2 or latest suitable for 2T joint RTSF3 suitable to 6-quad cable of spec no. IRS TC-30/2005, Ver-1, Amd-4 with latest AMD..							
2	A2	200.00	Running Metre	1060.27	212054.00	AT Par	212054.00	
	Description:- Supply of G.I. Pipes 100 mm dia medium grade engraved on pipe as per spec. no. IS 1239 part I of 2004 with latest amnd. with sockets and fittings. (other dia. Pipes shall be supplied by Railway) (Surya, Jindal, Tata,Apollo or Asian make) -							
3	A2	30.00	Numbers	913.95	27418.50	AT Par	27418.50	
	Description:- Supply of 12pairs CT box with wago terminal for termination cables.. The Box is rugged, weatherproof, and highly reliable and uses Universal Test Disconnect Terminal Blocks of PHOENIX OR WAGO Make. Epsilon/SARASWAT ENTERPRISES or as approved by railway.							
4	A2	100.00	Numbers	1757.06	175706.00	AT Par	175706.00	
	Description:- Double Walled Corrugated (DWC) HDPE Pipe with associated collars etc. as per RDSO Specification No. RDSO/SPN/204/2011 or latest anti-rodent & anti-oxidant and non flame propagating type in 6 meters straight length and of size 120 mm outer dia, & 103.5 mm inner dia. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement.							
5	A2	2500.00	Numbers	383.50	958750.00	AT Par	958750.00	
	Description:- Half Round DWC pipe 200mm ID SN 8 - 2 MTR Half Round - AS PER IS 16098 PART II (additional property RRNFP - ANTI RODENT AND NON-FLAMBLE) ,Colour-Black							
6	A2	20.00	Numbers	16886.51	337730.20	AT Par	337730.20	
	Description:- Supply of Fiber Distribution management System rack mountable LIU along with all accessories suitable for mono mode 48 fiber armoured cable size 1 U -2 U size for termination of 2x24 Fibers.suitable for slider type .48 fiber complete loaded Euro adaptor,pigtail, etc,as per instruction of site engineer.3M/RAYCHEM/ or Make/model to be approved before supply by railway.							

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7	A2	160.00	Kilometre	39269.16	6283065.60	AT Par	6283065.60	Description:- Supply of HDPE duct 40/33 mm as per RDSO Spec No RDSO/SPN/TC/45/2013 Rev 2 with latest amendments or TEC GR No. G/CDS 08/02 NOV-2004 OR with latest amendments as available. (supply as per railway). For each Km of HDPE duct following items are to be supplied a) End Plugs- 2no b) Cable sealing plugs -2 no. (c) Plastic couplers slip fit/push fit type - 2no d) End plugs to be provided along with drum -2 nos NOTE-Supply of duct in deferent color as per latest laying policy by HQ.and requirement.
8	A2	100.00	Numbers	2859.89	285989.00	AT Par	285989.00	Description:- Supply of 2x24 (48 fiber) fiber optic fiber splice (SJC) complete with all accessories as per TEC Spec no. GR/OJC/02/02.MARCH 99 TEC specs for 24 fiber OFC cable with latest amendment.R&M, 3M or Raychem make.
9	A2	1000.00	Numbers	472.13	472130.00	AT Par	472130.00	Description:- LC/SC/Euro OFC patch cord 1.5 to 10 mtr log. As per requirement .Supply after confirmation from raliway
10	A2	305.00	Metre	13.99	4266.95	AT Par	4266.95	Description:- Supply of UTP CAT-6 CABLE MAKE:- D LINK,Avaya, CP plus, Finolex,Havells, L&T.
11	A2	2.00	Numbers	6152.98	12305.96	AT Par	12305.96	Description:- Supply of Digital insulation Tester 100V/250V/500V range Model: Rish insu 20 Make: RISHABH or MECO or similar.
12	A2	4.00	Numbers	44774.52	179098.08	AT Par	179098.08	Description:- Digital Multimeter of Fluke 287 Industrial,true RMS with temperature ,Analog bar graph,Digital display ,Backlight 1000V AC/DC measure up to 10A,20 A for up to 30 seconds or superior.
13	A2	2.00	Numbers	31598.41	63196.82	AT Par	63196.82	Description:- Supply of Optical Power Meter suitable for of testing 1550/1310 As per Spec. with Lithium Battery ,adopter and other accessories .Make Khushicom-K280 or similar. before supply model make approved by Rly.
14	A2	2.00	Numbers	165153.15	330306.30	AT Par	330306.30	Description:- Supply of digital Cablefault locator for metallicS&T cables of reputedmake as per TEC SPNNo. GR/TIE-05/03, JULY2006 & TEC 73060:2006like KHUSHICOMMSModel Venus 120 orsimilar branded make.
15	A2	2.00	Numbers	464155.28	928310.56	AT Par	928310.56	Description:- Supply of Automatic FusionSplicer for single mode Opticalfibre cable, along withaccessories as per TEC spec.TEC/GR/TX/OSM - 001/04/SEP-12 or latest of makeFujikura/Sumitoma/KhushicommsK-97.
16	A2	2.00	Numbers	350511.76	701023.52	AT Par	701023.52	Description:- Supply of Optical Time DomainReflectometer (OTDR), operatingat 1550 nm and 1310 nm forworking on single mode opticalfibre as per TEC spec.TEC/GR/TX/OTD - 001/05/SEP-19 or latest, of reputed make likeYokogawa/JDSU/Viavi/KhushicommsMercury SO.
17	A2	4.00	Numbers	26746.70	106986.80	AT Par	106986.80	Description:- Supply and installation of OFC Interface Equipment for Master Telephone (Gate Telephone System) with all necessary electrical points and wiring as per TS.
18	A2	4.00	Numbers	24409.61	97638.44	AT Par	97638.44	Description:- Supply and installation of OFC Interface Equipment for Slave Telephone (Gate Telephone System) with all necessary electrical points as per TS.
19	A2	4.00	Numbers	36874.09	147496.36	AT Par	147496.36	Description:- Supply and installation of OFC based Master Telephone unit for gate communication with voice recording facility complying to latest RDSO Spec.No. RDSO/SPN/ TC/51/2021 Rev. 1 or latest with all necessary electrical points and wiring as per TS.
20	A2	8.00	Numbers	3895.15	31161.20	AT Par	31161.20	Description:- Supply and installation of Slave Telephone suitable for OFC based gate communication following RDSO Spec.No. RDSO/SPN/TC/51/2021 Rev. 1 or latest with all necessary electrical points and wiring as per TS.
21	A2	4.00	Numbers	3895.15	15580.60	AT Par	15580.60	Description:- Supply and installation of 12V Power Supply Unit with battery and charger for gate communication system for slave telephone as per TS.
22	A2	8.00	Numbers	6232.24	49857.92	AT Par	49857.92	Description:- Supply and installation of 12V Power Supply Unit with battery and charger for gate communication system for master telephone as per TS.
	A2	3.00	Numbers	562475.91	1687427.73	AT Par	1687427.73	

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23	Description:- "Supply of Standard 19"" Rack Mountable LER (Label Edge Router) with all necessary accessories & Software, Perpetual Licenses as per RDSO Document No.STT/TAN/IP-MPLS/2020 Version 2.0 as per specification. of Tender document. {supply of E1 cards is not included in this item and is catered in separate item}. "							
24	A2	3.00	Numbers	22480.08	67440.24	AT Par	67440.24	
	Description:- Supply of 8 port x 1GbE (4 nos.of optical ports and 4 nos. of electrical ports) module card suitable for the IP-MPLS router in S.No.1 and should support all the software features, environmental standards and security features as mentioned in RDSO technical document no STT/TAN/IP-MPLS/2020 Ver2.0 or latest							
25	A2	5.00	Numbers	18728.07	93640.35	AT Par	93640.35	
	Description:- "Supply of 4 port x10G SFP module card (2 x 10G two modules) suitable for the IPMPLS router in S.No.1. and should support all the software features, environmental standards and security features as mentioned in RDSO technical document no STT/TAN/IP MPLS/2020 Ver2.0 or latest. "							
26	A2	4.00	Numbers	2504.82	10019.28	AT Par	10019.28	
	Description:- Supply of DDF (120 Ohms) for terminating 16 E1s of wrapping type and mountable on 19" rack. (Maximum width 2U size). (Inspection by Consignee).							
27	A2	4.00	Numbers	80501.41	322005.64	AT Par	322005.64	
	Description:- " Supply of Gateway for Emergency communication at HQ as per RDSO specification No. RDSO/SPN/TC/99/2023 Ver 3 or latest . "							
28	A2	2.00	Numbers	95309.93	190619.86	AT Par	190619.86	
	Description:- Supply of Local/Remote service Terminal (Portable) with software for managing both STM1/STM4/IPMPLS ADMs and primary Digital Drop Insert Muxes as per technical specification. in tender document.							
29	A2	4.00	Set	53237.27	212949.08	AT Par	212949.08	
	Description:- Supply of 48V , 50 amps battery charger for telecom use as per No RDSO/ SPCN/ TC/ 23/ 99 (ver. 4) or latest in N+1 configuration i.e. using 3 modules of 25 amps with automatic switching between the modules for two sets of 200 AH battery for charging with SMF VRLA. it shall be equipped with surge and lightening protection of class 'B' and 'C' the configuration shall be decided as per site requirement.							
30	A2	4.00	Set	47654.64	190618.56	AT Par	190618.56	
	Description:- supply of full charged VRLA 200 AH Batteries.as per IRS.93/96 amd.1 or lateast.							
31	A2	5.00	Numbers	3130.53	15652.65	AT Par	15652.65	
	Description:- Supply of DC Power distribution panel to cater DC power requirements of IPMPLS/STM Multiplexers/PD Mux's / EOW / FANS to be fixed in 19" rack vide item 4 above. (Minimum 8 No's of DC distribution arrangement with MCB's of suitable rating) for -ve . Connecting copper strip for +ve.							
32	A2	5.00	Numbers	6776092.00	33880460.00	AT Par	33880460.00	
	Description:- " Design, Supply, Installation & commissioning of Lattice Tower at station/IB/LC/ Auto huts with soil surevy,safety certicate, including antenna, aviation lamp, fencing, painting, earthing etc, requisite cables, modems and antennas. (40m tower).as per RDSO Drawing No. RDSO/TC/TOWER/40/180/T/6.5 (8 Sheets). Inspection Agency: RITES/RDSO"							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () A3-Supply of Items							17095029.71	
	A3	2.00	Set	519942.20	1039884.40	AT Par	1039884.40	

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1	Description:- "Supply of Single Section Digital Axle Counter (SSDAC) with two detection point with reset arrangement and vital relay box as per RDSO/SPN/177/2012 Ver.03 or latest. Each set consist of the following - (a) High frequency TX coil and RX coil (Each set consist of web mounting type TX coils-2 Nos. RX coils-2 Nos. along with 10 mtr cable- 2 sets), (b) Track side digital axle counter unit-2 Nos. (c) 24V 6F/4B, 1000 ohm ""Q"" type relay box duly wired-2 Nos. (d) Clamp with deflector plates and hardware etc-4 Nos. (e) Reset Box-2 Nos. (f) Mushroom/Location Box suitable for housing Track side equipment (2 No.s). Transportation, Installation, Testing & Commissioning - Transportation, Installation, Testing & Commissioning of equipment field training (one man day per set) at site or as desired by Site Engineer. These includes - (a) Foundation and erection of Track side Equipment i.e. Mushroom/ Location Box (if required). This includes supply of all associated materials. (b) Individual Earthing of all detection Point for the OEM recommended earth value certified by OEM Site Engineer. This includes supply & installation of maintenance free earth materials and exothermic bonding and other connecting cable etc. as per Railway practice (As per RDSO Spec. No. RDSO/SPN/197/2008 or latest. Resetting equipment to be connected to the EI Ring earth. (c) Installation to be carried out by OEM certified Engineer. 3) Tool Kit consisting of - (a) Digital True RMS multi meter of suitable make for above Digital Axle Counter System with probe set-1 No. (b) Train Simulator (High frequency)- 1 No. (c) Extender Card-1 No. (d) Dummy wheel-1 No. (e) Different type of spanners suitable for above Digital Axle Counter- 1 Set. (f) Torque wrenches suitable for the above-1 No. (g) Screw driver set suitable for the above-1 Set. (h) Carrying Bag for Tools-1 No. (i) 6 Nos. Electrostatic Discharge Wrist Band for cards/ modules protection"						
2	A3	1.00	Set	1042406.10	1042406.10	AT Par	1042406.10
	Description:- Supply, Installation, Testing and Commissioning of Block proving with digital Axle counter using UFSBI complete set for Double line operation.as per IRS: S-105/2012Ver.0with latest amendment &Manufacturing specification. NOTE: One set will include equipments required for one complete double line Block Section except DAC. Each Set consisting of following: 1-Universal fail safe block interface for double line as per RDSO Spec.no. IRS: S.105/2012 with latest version and amdt. It shall have auto changeover facility for quad and E1 Channel, necessary interface for quad and E1channel to be supplied along with auto changeover arrangement. Quantity of this item -02 no in one set. 2-Block panel complete with all accessories as per RDSO/S/3/2017 with latest amdt QTY-02 no. 3- Relay rack with double locking and sealing arrangement as per RDSO Drg.No. RDSO/S/3/2018 including relays for each Relay rack (QN1-19 no., QNA1-07no, QL1-02 and Timers-1 no).Quantity of this item -02no intone set. 4-Block telephone with accessories as per RDSOspec.no. RDSO/SPN /191/2000(the block phone should work without any interruption after auto changeover). Quantity-2no. 5- Supply of reliability improvement kit suitable to work with UFSBI as per RDSO/SPN/147/2005 or latest. It comprises (a) automatic media changeover of modem working on redundant channel for data transmission on OFC/quad/ micro wave radio (any two media)-1pair (b) secondary modem for UFSBI for use with secondary media OFC/quad/voice channel=1pair(c) power & data SPD: type c &d: power line VF 24 AC/DC-2no, V20C/3PH 150v-2no) & dataline SPD (MDP 4D/5T- 2no). (d)Power monitor and soft startunit PMSS - 1 Pair. Make/Brand: Self.						
3	A3	6.00	Numbers	24008.12	144048.72	AT Par	144048.72
	Description:- Cable termination racks as per Drg. no. CSTE 5004, 5005, 5006 complete along with fitting arrangements and also with arrangement for fixing four 8-way terminal strips/ Screw less terminals on each row having 16 such rows. Supply of 8 way terminal strips/ Screw less terminals not covered under this item. Cable termination rack shall be Powder Coated.						
4	A3	0.80	Kilometre	5548.54	4438.83	AT Par	4438.83
	Description:- "Single core multi-strand wire 0.5 sq.mm. (16 conductor each dia. 0.2mm), as per IRS 76/89 (Amd3)."						
5	A3	0.80	Kilometre	33366.21	26692.97	AT Par	26692.97
	Description:- "Flexible cable (Power wire), multi-strand copper conductors cross section 1x6 Sq.mm.(85 conductor each diameter 0.30 +/- 0.01) as per IS 694/1990 with insulation thickness of 0.80 mm nominal conductor resistance 3.30 ohms/km and test parameters are as per IRS(S)76/89."						
6	A3	0.60	Kilometre	136063.55	81638.13	AT Par	81638.13
	Description:- Flexible cable (Power wire), multi-strand copper conductors cross section (1x16Sq.mm).101 Conductors each diameter 0.45 + 0.01 as per IS 694/2010 with insulation thickness of 1.2mm nominal conductor resistance 1.127 Ohms/Km and test parameters as per IRS(S) 76/89.						
7	A3	0.40	Kilometre	132505.12	53002.05	AT Par	53002.05
	Description:- "Flexible cable (Power wire), multi-strand copper conductor's cross section 25 Sq. mm (0.4x196) as per specn. IS 694/2010 with latest amendment, and test parameters as per IRS(S) 76/89."						
8	A3	4.00	Numbers	6814.05	27256.20	AT Par	27256.20
	Description:- Fire Extinguisher CO2 type (capacity 4.5 kg.)						
	A3	8.00	Each Module	51953.78	415630.24	AT Par	415630.24

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9	Description:- Fuse auto changeover system for used in Railway Signaling System as per RDSO/SPN/209/2012 rev.1 with latest amendments.. One Automatic changeover Unit comprise 32 nos. of external Non Deteriorating Type or 'G' type fuses from 0.6 Amp to 4 Amp capacities which are in signaling circuits. System shall have 8 cards with monitoring arrangement of 4 fuses in one card.							
10	A3	3.00	Each Module	29743.63	89230.89	AT Par	89230.89	
	Description:- Fuse auto changeover system for used in Railway Signaling System as per RDSO/SPN/209/2012 rev.1 with latest amendments. One Automatic changeover Unit comprise 24 nos. of external Non Deteriorating Type or 'G' type fuses from 4 Amp to 10 Amp capacities which are in signaling circuits. System shall have 6 cards with monitoring arrangement of 4 fuses in one card.							
11	A3	1.00	Numbers	1442756.70	1442756.70	AT Par	1442756.70	
	Description:- SMPS based Integrated Power Supply System for Electronic Interlocking as per RDSO/SPN/165/2012 version -3 or latest and Drg No. CSTE/6155/ 8 of 8. This includes transportation, installation and Commissioning of Integrated Power Supply System.							
12	A3	1.00	Numbers	1273822.00	1273822.00	AT Par	1273822.00	
	Description:- SMPS based Integrated Power Supply System for L.C gate and relay huts in RE-Section as per RDSO/SPN/165/2012 version -3 or latest and Drg. No. CSTE/6155/ 3 of 7. This includes transportation, installation, and Commissioning of Integrated Power Supply System.							
13	Please see Item Breakup for details.				2321831.10	AT Par	2321831.10	
	Description:- "Supply, Errection, Testing and Commissioning of Automatic fire alarm system (AFDS) as per RDSO Specification RDSO/SPN/NEW/2010 Version 3 or Latest. This include one year maintenance of the system. To detect fire/fire like situation, generate audio-visual alarms and send SMS to pre- specified users in such situations. It should be capable of generating requisite command to activate Automatic Fire suppression system, if required. It shall have provision of connecting to data logger. The system shall consist of: 1.A control panel for displaying current status of the system, acknowledging alarms and other functions as per RDSO specs. 2.Heat and Smoke multi sensors for non- air conditioned rooms. 3.Aspirating (air sampling) type smoke detectors for air conditioned rooms. 4.Linear Heat Sensing (LHS) cable or linear heat detector system along with its interface module for cable trays and bunches. 5.Manual Call Points at entry and exit points. 6.UV & IR flame detectors for Diesel Oil Storage rooms. Note a) If more than one control panels are provided, then they should be connected to a"							
14	A3	54.00	Numbers	5859.41	316408.14	AT Par	316408.14	
	Description:- DC neutral line relay QNA1K (QSA3), AC immune, DC neutral line 24V, 12F/4B contacts, complete with plug board, retaining clip and connectors. Conforming to BRS 930A, (as applicable) IRS:S34 & IRS:S23 or latest.							
15	A3	120.00	Numbers	4284.48	514137.60	AT Par	514137.60	
	Description:- Miniature, Plug-in Type, DC Neutral Line, Non AC Immunized Relay, Style QN1, 24 V DC, 8F-8B/12F- 4BContact, Code ABCDF/ABCDE Spec: BRS: 930; IRSS 34; IRS S 23.							
16	A3	60.00	Numbers	5576.04	334562.40	AT Par	334562.40	
	Description:- Miniature, Plug-in Type, DC Neutral Line AC Immunized Relay, Style QNA1, 24 V DC, 8F-8B/12F-4BContact, Code ABDGH/ABDFH Spec: BRS: 931A; IRS S 34; IRS S 23; IRS S 60-78.							
17	A3	40.00	Numbers	5613.10	224524.00	AT Par	224524.00	
	Description:- "Universal AC ECR of Q series, type ""QECX61"" suitable for AC LED all signal aspect, Front & back contact Metal to Carbon type complete with plug board retaining clip & connectors conforming to Spec STS/E/Relays/AC Lit LED Signal/09/2002, BRS: 941A, IRS: S34 and IRS: S23 (as applicable)."							
18	A3	40.00	Numbers	7390.44	295617.60	AT Par	295617.60	
	Description:- Miniature, Plug-in Type, DC Neutral Line Magnetically Latched Relay, Style QL1, 24 V DC, 11F-4B Contact, Code ABDEG Spec: BRS:935A ; IRSS 34 ; IRS S 23.							
19	A3	40.00	Numbers	5421.40	216856.00	AT Par	216856.00	
	Description:- Miniature, Plug in Type, DC Neutral ,Line Relay QSPA1, 24V DC, Slow to Pick up AC Immunized, 12F-4B/8F-4B Contact, Code ABDEJ Spec:BRS:933A ; IRS S 34 ; IRS S 23;IRS S 60-78.							
20	A3	20.00	Numbers	7393.68	147873.60	AT Par	147873.60	
	Description:- Plug in Type, Tractive Armature, A C Immunized, DC Biased Contactor Relay, Style QBCA1,2HF-4B Contact,24 V DC, Code BCEJK Spec:BRS:943 ; IRS S 34 ; IRS S 23 ;IRSS 60-78.							
21	A3	2.00	Numbers	5242.00	10484.00	AT Par	10484.00	
	Description:- Relay fail safe electronic time delay device mounted on Q series relay base and cover with fixed timing of 60/120 second confirming to IRS:S:61/2000(ver.1.0) (Amdt. 3) or Latest,IRS:S:34 and IRS:S:23 (as applicable). The Interlocking code for this unit shall be AFGKY.							
	A3	10.00	Numbers	9743.97	97439.70	AT Par	97439.70	

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22	Description:- Key Lock Relay working on 24V DC, AC immunize with different ward combinations (Three ward plates to be supplied with each relay). Key ward shall be specified by engineer incharge as per requirement.						
23	A3	120.00	Set	309.41	37129.20	AT Par	37129.20
	Description:- Relay Contact break test of indoor relay wiring. Contractor shall depute Engineer, Supervisor & wiremen technically qualified to carryout contact break testing as preapproved circuit diagrams. Firm Engineer to sign circuit diagrams for break testing after carrying out the test in presence of Railway's site supervisor/Engineer. (No to be count as per A3 Size Sheet)						
24	A3	5.00	Kilometre	39269.16	196345.80	AT Par	196345.80
	Description:- Supply of HDPE duct 40/33 mm as per RDSO Spec No RDSO/SPN/TC/45/2013 Rev 2 with latest amendments or TEC GR No. G/CDS 08/02 NOV-2004 OR with latest amendments as available. (supply as per railway). For each Km of HDPE duct following items are to be supplied a) End Plugs- 2no b) Cable sealing plugs -2 no. (c) Plastic couplers slip fit/push fit type - 2no d) End plugs to be provided along with drum -2 nos NOTE-Supply of duct in deferent color as per latest laying policy by HQ.and requirment.						
25	A3	2.00	Set	29692.62	59385.24	AT Par	59385.24
	Description:- Provision of T-Networking/Dual card E1 to Serial Port (RS-232) convertor suitable to insert in the data logger / FEP euro rack for Networking to the Data Logger equipments. This includes supply of all equipment/ accessories required for the purpose.						
26	A3	2.00	Kilometre	5015.64	10031.28	AT Par	10031.28
	Description:- Supply & installation of powder-coated MS Sheet KLCR Box for LC Gates to house 2/3 KLCR.						
27	A3	15.00	Kg	121.63	1824.45	AT Par	1824.45
	Description:- Rubber Mat for Power Equipment room. (5mm thick).						
28	A3	9.00	Numbers	11450.56	103055.04	AT Par	103055.04
	Description:- "Colour Light Signal Complete. This includes: - (1). Post Tubular 140 mm Dia, as per IRS: S-6/81 or Latest & RDSO Drg. No. SA- 24625 (Advance). (2). CI Base (As per IRS S-10 & RDSO Drg. No. 2011/M with latest assembly). (3). Pinnacle. (4). Ladder Assembly, as per RDSO Drg. No. SA- 23156, with Base, Ladder Guards, Platform, Front Maintenance Platform, MS Supporting bracket to Support Ladder. (5). Signal Front Staging Complete Assembly for CLS Unit. (6). Signal back staging as per extent WR Practice. Note: Height of the Post shall be as per SSE in charge"						
29	A3	5.00	Numbers	28577.72	142888.60	AT Par	142888.60
	Description:- "Non Metallic (FRP) colour light signal housing multi unit type for railway signaling suitable for RE area TWO Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Vol. 1.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest."						
30	A3	4.00	Numbers	29823.91	119295.64	AT Par	119295.64
	Description:- "Non Metallic (FRP) colour light signal housing multi unit type for railway signaling suitable for RE area THREE Aspects. Complete without lenses, lamps and signal transformer as per RDSO DRG. No. SA 23001/A/M Adv. Alt- S and as per SPEC. No. RDSO/SPN/194/2006 (Vol.1.0) or latest and FRP material as per RDSO SPEC. No. RDSO/SPN/151/1997 or latest."						
31	A3	1.00	Numbers	2391.56	2391.56	AT Par	2391.56
	Description:- Calling ON Signal Unit with Brackets & Fixing accessories. Calling On Signal Unit shall conform to RDSO Drg no 24351(Adv) Alt1 suitable to LED Signal Lighting Unit.						
32	A3	4.00	Numbers	4439.28	17757.12	AT Par	17757.12
	Description:- Offset brackets for Main Signal, made of tubular steel, outer diameter 140 mm, thickness of pipe 4.5 mm. horizontal length of pipe 545 mm & vertical length of pipe 324 mm with fixing arrangement on Main Signal post as per Drawing No SW/554/G/R						
33	A3	1.00	Numbers	21050.52	21050.52	AT Par	21050.52
	Description:- "Junction route indicator unit 1 way (Without Lenses & Holder) as per Drg. No. RDSO SA 23401 suitable for LED Signal Lighting Unit & as IRS:S- 66/84 amndt-1 or latest. (Supply of LED Unit is not covered in this item) (DWG NO. WR CSTE 6238)"						
34	A3	1.00	Numbers	28167.55	28167.55	AT Par	28167.55
	Description:- Junction route indicator unit 3 ways as per Drg. No. RDSO SA 23403 is suitable for LED Signal Lighting Units & as IRS: S-66/84 amndt-1 or latest. (Supply of LED Units is not covered in this item).						
35	A3	1.00	Numbers	4530.07	4530.07	AT Par	4530.07
	Description:- "Position Light Shunt Signal Unit Complete with Post(made of GI Pipe of 80 mm Diameter Medium Class IS Spec. No. IS: 1239 Pt. 1/1990, Base, Hood, Cover etc as per Drg. No. SA- 23840 suitable for LED Signal Lighting Unit. (Supply of LED Unit is not covered in this item)"						
36	A3	1.00	Numbers	3359.74	3359.74	AT Par	3359.74

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	Description:- Position Light Shunt Signal Unit Complete, with offset bracket, hood, Cover etc. as per Drg. No. SA-23840 suitable for LED Signal Lighting Unit. (Supply of LED Unit is not covered in this item).						
37	A3	40.00	Numbers	412.66	16506.40	AT Par	16506.40
	Description:- "Supply and installation of RCC cable route marker engraved and painted on both side along the route every 50M and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker."						
38	A3	12.00	Numbers	9893.99	118727.88	AT Par	118727.88
	Description:- Apparatus Case Single NE Rly Type as per Drg. No. W. Rly/SW/47/68 Alt-A, fitted with two nos of E Type lock (ward No will be specified by Engineer-in Charge) as per RDSO Drg. B1 No. SA 3376/3473 and Key to Drg. No. 3377 Note: This item includes the supply & fixing of 2 Nos E Type Lock fitted on both doors, along with two Keys."						
39	A3	10.00	Numbers	9893.99	98939.90	AT Par	98939.90
	Description:- Apparatus Case half NE Rly Type as per Drg. No. W. Rly/SW/47/68 Alt-A fitted two nos E Type lock of (ward No will be specified by Engineer-in Charge) as per RDSO Drg. No. SA 3376/3473 and Key to Drg. No. 3377. Note: This item includes the supply & fixing of 2 Nos E Type Lock fitted on both doors, along with two Keys "						
40	A3	9.00	Numbers	10403.08	93627.72	AT Par	93627.72
	Description:- "Maintenance Free Earth Electrode of length 3m, including supply of 3 bags of Earth enhancement material for earthing (20KGs /bag) for each electrode & other accessories as per Drg. No. SDO / RDSO/ E&B/001 and RDSO Spec No. RDSO / SPN/197/2008."						
41	A3	31.00	Numbers	2798.99	86768.69	AT Par	86768.69
	Description:- Earth Electrode as per Drg. No. CSTE / 6091.						
42	A3	20.00	Running Metre	1170.28	23405.60	AT Par	23405.60
	Description:- Medium Class G.I. Pipes to IS : 1239 (Pt.I)- 2004 or latest ; 100mm dia. (int. dia) 3.65 mm+/- 10% thick with coupling. G.I. pipes shall have ISI mark on it and contractor should submit manufacturer's test certificate of G.I. pipes.						
43	A3	25.00	Numbers	1912.20	47805.00	AT Par	47805.00
	Description:- "Double Walled Corrugated (DWC) HDPE Pipe with associated collars etc. as per RDSO Specification No. RDSO/SPN/204/2011 or latest anti-rodent & anti-oxidant and non flame propagating type in 6 meters straight length and of size 120 mm outer dia, & 103.5 mm inner dia. (The manufacturers, suppliers must produce valid IS license and should be certified under ISO 9000 and shall submit copy of certificate). One of the following coupling arrangements should also be supplied with each pipe as per the site requirement. 1) Suitable snap fit coupler with rubber 'O- Ring 2) Spacers 3) Tees 4) Bend, 5) End-cap (The total quantity of above items is equal to no. of pipes supplied.) DWC pipe shall be marked at every 1 mtr length in such a way that manufacturer's name, vender name and year of manufacture can be easily identified."						
44	A3	20.00	Numbers	5836.30	116726.00	AT Par	116726.00
	Description:- Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 12 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied						
45	A3	2.00	Set	469571.95	939143.90	AT Par	939143.90
	Description:- Electrically Operated Lifting Barrier complete set suitable for 110VDC/24V DC supply with motorized boom locking arrangements as per RDSO Spec. SPN/208/2012 with latest amendment. One set consisting 02 Nos of Barriers of length 09.76 Mtrs. along with Spares & tool kit mentioned in RDSO Spec. SPN/208/2012 clause 10.1 & 10.2.						
46	A3	2.00	Set	8475.45	16950.90	AT Par	16950.90
	Description:- "Dual tone bell / buzzer with flasher arrangement 25W horn, (Make of any ISI approved firm) working voltage as per circuit design"						
47	A3	2.00	Set	144275.33	288550.66	AT Par	288550.66
	Description:- MS Sliding type mechanical Boom barrier assembly 11 to 12 Meter Long, movement drive mechanism, resetting & supporting stand suitable for Mechanical/Electrical level crossing gate as an emergency arrangements as per Drg.						
48	A3	3000.00	Numbers	75.00	225000.00	AT Par	225000.00
	Description:- "ARA Terminal blocks with links made of PBT Spec No.IRS/75/2006(Rev - 2) with latest amendments and RDSO Drg.No.SA- 23741A Alt.4."						
49	A3	20.00	Numbers	4878.90	97578.00	AT Par	97578.00
	Description:- Track relay, QTA2,AC immunized 9 Ohm, 4F-2B contact, along with plug board,retaining clip and connectors conforming to BRS939A BRS966 IRS S34 and IRS S23						
50	A3	60.00	Numbers	2213.81	132828.60	AT Par	132828.60
	Description:- Low maintenance Lead acid secondary cell 2V/80 AH (Track feed Battery), shelf mounting type conforming to IRS:S- 88/2004 or latest (uncharged).						
--	A3	40.00	Numbers	2129.53	85181.20	AT Par	85181.20

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51	Description:- Choke Coil for Single Rail Track Circuit on 25 KV 50 Hz AC Electrified Section as per Spec No IRS S 65/1983 with latest amendments.						
52	A3	20.00	Numbers	978.46	19569.20	AT Par	19569.20
	Description:- Adjustable Track Feed Resistance disc type 30 ohms as per RDSO Drg. No. SA 20166/M (Adv.) with latest amendments (with Phenolic molded base).						
53	A3	20.00	Numbers	3523.27	70465.40	AT Par	70465.40
	Description:- Track feed battery chargers, 110V AC input, 2 to 6/10 V DC Output; as per Specn. No. IRS.S 89/ 2013 with latest amendments. Charger shall be suitable for charging 80 AH battery.						
54	A3	600.00	Numbers	6.04	3624.00	AT Par	3624.00
	Description:- Channel Pins MS (Galvanized) single groove, 7 mm suitable for 4mm Dia bonding wire as per spec No IRS S 17 & RDSO Drg No. S-69/M.						
55	A3	1.00	Numbers	58030.77	58030.77	AT Par	58030.77
	Description:- Supply of Smart Cabinet/Rack for Housing of Various S&T equipments like KLCR, Reset Box, IPS Indication Panel, CA VA Unit for FACS, SP AU for Point Reversal, Crank Handle, Quad Cable Earth Sensing Unit along with Fixing of KLCR (KLCR will be provided by Railway) as per instruction of Site Engineer, Make RITTAL, SANTEL, VERO , PRESIDENT, APC Schneider or similar reputed make.						
56	A3	2.00	Job	133269.00	266538.00	AT Par	266538.00
	Description:- Earthing of EI equipment, relay racks and Power equipment etc. to be done along with the supply of all requisite materials. Earthing shall be in the form of Ring Earth conforming to RDSO specification No. RDSO/SPN/197/2008 (with a min. of 6 maintenance free earth electrodes) & RDSO Drawing issued under Railway Board letter No. 2010/Sig./SGF/EI (Ansaldo) Dated 22.06.11, made using copper rings with earth resistance less than 1 ohm. The earthing shall be maintenance free & earth enhancement compound should be used. The ring earth shall be connected to copper flat of size 25x3 mm in the relay room and IPS room. This copper flat shall be fixed on the wall to the entire breadth of the Relay room and IPS room as an earth bus bar and all earth connections shall be taken from it. A, B, C, & D class protection shall be provided for all EI equipment. Note - This will also cover the earthing & necessary protection of EI equipment as per details given in the scope of work of Special Condition of Contract and other requirement given in Chapter of tender document & Pre-commissioning check list of EI system.						
57	A3	6.00	Numbers	151575.00	909450.00	AT Par	909450.00
	Description:- Earth Leakage Detector as per RDSO/SPN/256/2002 or latest with latest amendments. The basic detector unit shall comprise of 8 channels, for use on signaling circuits of 110V AC/DC and/or 60V/24V/12V DC as ordered by purchaser. If the detector is required for less number of channels, dummy plates shall be provided. For additional requirement a d d on /expendable cabinet may be used. The voltage specified shall be provided with + 25% and - 10% tolerance.						
58	A3	1.00	Numbers	131970.00	131970.00	AT Par	131970.00
	Description:- Remote Terminal Unit (RTU) with 64 digital input & 16 analog input as per technical specification IRS: S-99 2006(Amdt-3) or latest. In addition RTU should have dual leased line modem. It should possible to connect RTU up to 12 Kms from main data logger. This includes rack for installation & Battery backup for 06 hrs.						
59	A3	1000.00	Numbers	325.00	325000.00	AT Par	325000.00
	Description:- Half Round DWC pipe 200mm ID SN 8 - 2 MTR Half Round - AS PER IS 16098 PART II (additional property RRNFP - ANTI RODENT AND NON-FLAMBLE)						
60	A3	1.00	Numbers	630313.00	630313.00	AT Par	630313.00
	Description:- "Data logger system for Railway S&T installation As per spec. IRS: S-99 2006 (Amdt-3) or latest. Central Monitoring Unit (Hardware Configuration as per Annexure) with UPS minimum 06 hrs battery backup and required Software tools. This also includes the supply of one no composite computer & printer table (Godrej workstation table) for keeping the Processor module and one no Godrej make operator chair model PCH7001.1024 digital and 32 analog inputs."						
61	A3	1.00	Set	11763.45	11763.45	AT Par	11763.45
	Description:- Supply and Installation of Domino based Gate Panel size 12x 8 dominos as per drawing supplied by Engg .In charge						
62	Please see Item Breakup for details.				94500.90	AT Par	94500.90
	Description:- Disconnect Terminal Block, Screw less type, as per RDSO Spec. No.RDSO/SPN/189/2004. With the latest amendments.						
63	Please see Item Breakup for details.				1217366.70	AT Par	1217366.70
	Description:- "Microcontroller based programmable static switching module (Auto changeover) of Reliance Electricals Make or similar, with an at a glance LCD display suitable for break-less switching between two DC supplies as per attached technical specifications."						
64	A3	3.00	Numbers	26249.42	78748.26	AT Par	78748.26

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	Description:- Relay racks assembly complete with scaffolding bus bars, fuse strips, fuses, resistors, capacitors, insulators, grouting bolts, tripods etc. as per Drg. No. CSTE /6028.[Scaffolding should include 20% extra (with minimum of 2 relay rack positions) as spare for future expansion]. Relay rack shall be Powder Coated. (Quantity of Resistance, capacitor & Other items as Annexure.)							
65	A3	5.00	Numbers	4439.28	22196.40	AT Par	22196.40	
	Description:- Offset brackets for Main Signal, made of tubular steel, outer diameter 140 mm, thickness of pipe 4.5 mm. horizontal length of pipe 545 mm & vertical length of pipe 324 mm with fixing arrangement on Main Signal post as per Drawing No SW/554/G/R.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B1-Execution items signal							82158549.93	
1	B1	9.00	Station	1504.95	13544.55	AT Par	13544.55	
	Description:- Supply of final Cable Route Plan as per laid cable duly measured at every 30 m clearly indicating distance of laid cable from fixed point of reference & indicating all track crossings and tail cables in original tracing along with Auto CAD in Pen Drive and Six set copies after approval.							
2	Please see Item Breakup for details.				546051.15	AT Par	546051.15	
	Description:- Design and supply of cable courage plan, location particulars, Cable termination rack particulars, cable meggering report, earth resistance particulars, Traction bonding diagram, 1/2 wire count sheet and any other drawing in AutoCAD in A3/A4 size. The contractor shall initially supply 3 sets of circuits complete for approval of Railways. Railways will return one set to the contractor duly approved with alterations/corrections, if any. The contractor shall incorporate Railway's alterations/corrections in the tracings without any deviation and submit all tracings complete in all respects to the Railways along with PENDRIVE & 4 sets of final approved drawings. This includes designing of cable coreage plan based upon I.P in consultation with engineer-in-charge For small/medium yards.							
	Please see Item Breakup for details.				1668626.20	AT Par	1668626.20	
3	Description:- "Preparation of Cable Route Plan of buried S & T Cables using Radio Detector 8200 GS or Similar model GPS Model and DGPS for Per Trench per Km. For existing cables as per the instruction of Engineer in-charge. Submission of report in KMZ file format, Soft Copy Only."							
4	B1	6.00	Set	20170.51	121023.06	AT Par	121023.06	
	Description:- Installation, wiring, testing, and commissioning of Data logger complete along with accessories using Contractors' own wiring & fixing materials as per the following configuration. (It includes loading of NETWORKING software, networking of data logger, installation of FEP & Fault diagnosis system). The requisite communication cable/channel for networking will be arranged by Railway. 1024 digital & 32 analog inputs/ 4096 digital & 32 analog inputs. (All the Indoor & outdoor gears wiring in cataloged included in this along with laying 230V supply cable from IPS room,12 core cable from auto change over for monitoring supplied.) Note- It included logging of all gears as per site incharge.							
5	Please see Item Breakup for details.				2149882.41	AT Par	2149882.41	
	Description:- Foundation, Erection & Installation of CLS without route indicator.							
6	B1	27.00	Numbers	673.88	18194.76	AT Par	18194.76	
	Description:- Fixing of Junction type Route Indication 1-Way/2-Way/3- Wayon the top of the signal post.							
7	B1	10.00	Numbers	2277.96	22779.60	AT Par	22779.60	
	Description:- Fixing of Calling-on Signal/A-Sign/AG-Sign unit on signal post. The item includes fixing of Co- On signal /'A' sign/ 'AG' sign unit on signal post with bracket, hood etc. Item includes supply bracket & fixing materials etc. by the contractor. The item also includes termination of cables & wiring inside Co- On signal /'A' sign/'AG' sign unit as per standard practice. Note- This Item must be operated individually, Not to be operated in Installation/Erection of CLS.							
8	Please see Item Breakup for details.				316749.51	AT Par	316749.51	
	Description:- Foundation, Erection & Installation of Shunt Signal.							
9	B1	21.00	Numbers	1761.15	36984.15	AT Par	36984.15	
	Description:- Erection of Position Light shunt signal on Offset bracket on main signal.							
10	B1	112.00	Per Track Circuit	6083.66	681369.92	AT Par	681369.92	
	Description:- Fixing and wiring of DC track circuit equipments i.e. track feed charger, resistance, track relay, battery, PPTC fuses etc., in the Apparatus Case and battery box as per standard practice. Termination of tail cable on M 6 / Screw less terminals WAGO or FINOLEX or similar approved make terminals/ fuse blocks / HRC fuse. Item includes testing /commissioning of track circuit. Complete wiring material (including PPTC fuses) which are not covered in Schedule will be supplied by contractor. (Supply of Track feed battery charger, track feed battery, resistances & 'B' type choke & Track relays will be supplied by Railways / covered in Schedule separately).							
	B1	330.00	Numbers	323.26	106675.80	AT Par	106675.80	

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11	Description:- Charging of Lead Acid Batteries (2V 80AH) with contractors' own battery grade sulphuric acid and distilled water with a minimum of two charge-discharge cycles, installation of charged batteries in groups & their connection & wiring. The work shall be done as per the extant practice of W.Rly & instruction of the Engineer-in-charge. Detailed measurements of initial charging shall be recorded jointly by the contractor & Rly's site-in-charge.						
12	B1	165.00	Set	166.83	27526.95	AT Par	27526.95
12	Description:- Provision of bonding with GI wire 4mm Dia (8 SWG) for track jumper & fish plate joints bonds. This will include drilling of 7.0/7.1/7.2 mm Dia holes in rails (4 Nos.) and provision of two jumpers for each bond, clipping of bonds etc. with contractors own tools as per instruction of Rly.Engineer at site.						
13	B1	330.00	Numbers	1195.83	394623.90	AT Par	394623.90
13	Description:- Erection, Fitting and Rail connection of Track Lead Junction Box on two supports (M.S.angle) with contractor's fixing material and PVC jacketed wire for track lead connection including angles of size 40 x 40 x 5 mm 1200 mm length This will include drilling of holes for track lead/side connections on rail. The work shall be done as per Drg. No. S&T/Const./JHS/T 115 & instructions of Rly engineer at site.						
14	B1	240.00	Numbers	345.76	82982.40	AT Par	82982.40
14	Description:- Fixing & wiring of QNA1 / QNA1K relays for GPR Circuit in apparatus case as per Standard practice. Fixing and wiring material shall be supplied by the contractor.						
15	B1	29.00	Numbers	4512.18	130853.22	AT Par	130853.22
15	Description:- Fixing of KLCR and its without this includes supply of MS sheet box for fixing of KLCR relay along with push button etc. (KLCR will be supplied by Railway).						
16	B1	32.00	Numbers	8748.18	279941.76	AT Par	279941.76
16	Description:- Installation of Cable Termination Racks Assembly complete including wall supports, scaffolding, 8 way/ARA terminals /Screw less connectors, Tag blocks & other necessary accessories etc. The work shall be done as per approved plan, extant practice on WR & the instruction of Rly engineer at site.						
17	B1	41.00	Each Module	871.94	35749.54	AT Par	35749.54
17	Description:- Installation wiring testing and commissioning of Fuse changeover system (FACS). This includes the provision of a common Buzzer & indication at the ASM Room & ESM Duty Room and the painting of fuse details. This also includes the fabrication of a frame for the installation of FACS at the Station/ LC gate where the installation of relay racks is not feasible.						
18	B1	15.00	Numbers	15000.00	225000.00	AT Par	225000.00
18	Description:- Installation of Earth Leakage Detector (8 Channel) Level-2 as per RDSO specification no. RDSO/SPN/256/2025 Version: 2.0 or latest. (Cable by Railways) Soil treatment to be done as per std. practice. This item includes provision of MS Flat, Earth lead wires and Soldering of lead wires. The other end of the wire is to be connected to block equipment, power equipment, cable sheath, and signals etc. as per site requirements. 7 strand GI wire shall be used as earth lead wire. (Supply of earth electrode is covered in other Item).						
19	B1	56000.00	Numbers	21.45	1201200.00	AT Par	1201200.00
19	Description:- Fixing of ARA Terminals /Screw less connectors and fuse blocks on phenolic laminated sheets and fixing by stainless steel/brass nuts & bolts. This includes provision of two additional holes on the board on either side for cable conductor entry.						
20	B1	22600.00	Numbers	22.35	505110.00	AT Par	505110.00
20	Description:- Termination of outdoor cables, main cables laid in location boxes, Cable termination rack etc. at both ends on ARA terminal or on 8 way terminals or on screw less connectors. Both ends of a cable core terminated shall be counted as one terminal. This includes all associated works of pulling out the cable from underground, peeling off insulation, dressing of cable core supported on sting rod with contractor's own material. The work shall be done as per instructions of Rly engineer at site.						
21	Please see Item Breakup for details.				62443.71	AT Par	62443.71
21	Description:- "Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy paint will be supplied by Railways. NOTE-The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974)."						
22	B1	8.00	Station	3099.89	24799.12	AT Par	24799.12
22	Description:- Lettering & Numbering of detail and description writing of on relay rack, relays, cable termination rack, battery & power equipments, IPS, operating panel, axle counter etc. constituting entire system with contractor's own paint and writing material. The work shall be done as per extant practice on W.R Rly & instruction of Rly engineer at site.						
	B1	30.00	cum	1968.19	59045.70	AT Par	59045.70

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23	Description:- "Providing brick masonry in ratio 1:6 cement and mortar including plastering with 1:4 cement and sand mixture both sides, 20 mm thick each with contractor's owned class II bricks, including excavation, curing, grouting, bolting etc. wherever required. Bricks sand and cement to be supplied by the contractor."						
24	B1	30.00	cum	5976.09	179282.70	AT Par	179282.70
	Description:- Cement concrete work for miscellaneous items in the ratio 1 : 3 : 6. Item includes excavation, ramming, curing and plastering with cement & sand mixture (aggregate not exceeding 3.8 cm.) (Aggregate cement & sand to be supplied by the contractor).						
25	B1	160.00	cum	147.17	23547.20	AT Par	23547.20
	Description:- Earthwork in filling in embankment, guide bunds, around buried type abutments, bridge gaps, trolley refuges, rain bunds if provided, platforms etc. with earth excavated from outside railway boundary entirely arranged by the contractor at his own cost as per RDSO's latest guidelines and specifications and special condition of contract including all leads, royalty, lifts, ascents, descents, crossing of nallahs or any other obstructions. The rates shall include all dressing of bank to final profile, demarcation and setting out of profile, site clearance, removing of shrubs, roots of vegetation growth, heavy grass, benching of existing slope of old bank, all handling/re-handling. Taxes, Octroi and royalty etc. as a complete job. Cut trees shall be property of railways and to be deposited in the railway godown unless specified otherwise in the Special conditions of contract.						
26	B1	350.00	MT	431.08	150878.00	AT Par	150878.00
	Description:- Transportation of S&T material leading up to 1 Km including Loading from Starting point, unloading & Stacking at destination.						
27	B1	1000.00	Hour	943.85	943850.00	AT Par	943850.00
	Description:- Hiring of JCB Machine (in good working condition) for leveling and dressing ground/dismantling structures including disposal of debris through dumpers etc. with contractor's labour, JCB machine, machine operator, fuel, etc. The contractor shall arrange road permit for vehicle for all the states of operation, as per instructions of engineer incharge and vehicle shall not be more than three years old.						
28	Please see Item Breakup for details.				2466047.12	AT Par	2466047.12
	Description:- Excavation and Casting of Apparatus Case foundation with contractor's own materials including cement and anchor bolts of standard size. The required scaffolding Form etc. for Casting of foundation will have to be brought by the contractor at his own cost.						
29	Please see Item Breakup for details.				336122.44	AT Par	336122.44
	Description:- Installation of Apparatus Cases with miniature 'E' type lock on C C foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. 'E' Type lock will be provided by Railway.						
30	B1	1000.00	Numbers	5118.52	5118520.00	AT Par	5118520.00
	Description:- IS13410: Glass Reinforced Polyester Sheet Moulding Compounds (SMC) Size of Sheet - (1000x1000x8)						
31	Please see Item Breakup for details.				616603.88	AT Par	616603.88
	Description:- Fabrication and fixing of SMC/Hylum sheet in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per Drg and arrangement similar to SK 783-1/2. With latest alterations & as per instructions of Rly engineer at site. Note- SMC sheet will be taken in place of phenolic laminated sheet.						
32	Please see Item Breakup for details.				99960.18	AT Par	99960.18
	Description:- Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in-charge. Epoxy paint will be supplied by Railways. NOTE-The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974).						
33	B1	198.00	Numbers	121.92	24140.16	AT Par	24140.16
	Description:- Lettering/ Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes. This includes supply of paints of Asian Paints/ Nerolac / Dulux / Berger make. (Full Case).						
34	B1	218.00	Numbers	83.17	18131.06	AT Par	18131.06
	Description:- Lettering/Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes. This includes supply of paints of Asian Paints/ Nerolac / Dulux / Berger make. (Half Case)						
	B1	37000.00	cum	807.37	29872690.00	AT Par	29872690.00

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35	Description:- Excavation of cable trench as per cable route plan, 1 Mtr. deep and of 0.3 Mtr. to 0.6 Mtr wide advised by Engineer-in-charge alongside the track in normal (all type) soil/strata, conforming to distances as per cable route plan and refilling. This work includes clearing of route from bushes etc., covering of cable laid in trench by loose soil for a layer of 50mm thickness approximately before covering by bricks. The work shall be done as per the extant practice on Western Railway and instructions of Railway Engineer at site. In case 1m depth of trench is not achievable due to site conditions, specific approval of JA grade officer will be required for each site where trench depth of 1m is not possible. Without the approval of JA Grade officer, no payment for trenching will be made for trench depth less than 1m.						
36	B1	4000.00	cum	838.97	3355880.00	AT Par	3355880.00
	Description:- Digging of trench 1.2 M deep from rail flange/ road level and, 0.3 Mtr to 0.6 Mtr wide and back filling after placing of DWC/ RCC/GI pipe. (Placing of DWC/RCC/GI pipe covered separately).The ballast disturbed be screened and dressed as required by Engineer-in-charge or his representatives and road tarred immediately. For track crossing, Drg. No. CSTE/3644 Pg.7 of 11 and for Road Crossing, Drg. No. CSTE/3644 Pg. 5 of 11 are to be followed.						
37	B1	800.00	cum	488.40	390720.00	AT Par	390720.00
	Description:- Digging of cable trench 0.3 Mtr. Deep and 0.3 Mtr. Wide on Asphalted Platform / Road / Hard rocky area. Refilling with earth leveling of trenches & restoring the original surface of trenches.						
38	B1	340.00	cum	417.89	142082.60	AT Par	142082.60
	Description:- Cutting of Hard rock in trenches /Preparation of cable way/Chase 150 mm wide at the bottom and 300 mm deep in hard rock (Drg prepared by contactor & approved by Engineer In charge) for laying of S&T cables where minimum required depth not possible & which is verified and agreed by Engineer In charge of the work or his representative shall be made as per Drg. No RE/S&T/ALD/SK/301/85. Refilling of th same with concrete mixture of 1:3:6 from top of the cable way/ chase. Payment of concrete will be made separately through a separate item in the schedule of work.						
39	B1	600.00	Running Metre	445.92	267552.00	AT Par	267552.00
	Description:- Providing chase in hard rocky soil for laying of S&T cables where optimum depth (0.5m) in not possible and which is verified and agreed by engineer-in-charge. After laying of cables, it should be covered with PCC work in ratio of 1:3:6.						
40	B1	12000.00	Metre	1120.38	13444560.00	AT Par	13444560.00
	Description:- Horizontal direction drilling/boring without damage of surface road using Auger Machine. The bore shall be 150 mm Dia & shall be done at the depth of minimum 1200 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road. The length of the bore shall be minimum 4 Mtr long. The HDD with or without HDPE pipe as per direction of Engineer In charge. Note- HDPE pipe supply is taken as separate item. This item also includes cable laying (HDD boring).						
41	B1	8.00	Numbers	10337.04	82696.32	AT Par	82696.32
	Description:- Digging of cable pit (min2x2x1m) as per instruction of Site Engineer, supplying and filling of sand before and after coiling the cables, covering top of the cable pit with stones and providing brick masonry on all four sides of the cable pit and plastering thereafter.						
42	B1	7200.00	Running Metre	31.33	225576.00	AT Par	225576.00
	Description:- Placing of DWC/RCC pipes along with collars in trenches at places of track and road crossings, platform cuttings etc. also for straight cable laying. (Cable laying is covered separately.)						
43	B1	350.00	Running Metre	343.86	120351.00	AT Par	120351.00
	Description:- Laying and fixing of Medium class GI pipes 100 mm Dia (4.5 mm thickness) as per IS 1239 (Part 1) 2004 or latest with coupling on culverts/bridges, perforated at a distance of 20 cm or less with 10 mm Dia hole, or at any other locations as decided by Site Engineer. The GI pipe is to be filled with chattered compound. It includes supply of all material required for fixing arrangement. Contractor will also supply flexible/corrugated HDPE pipe at the end of GI pipe to protect the cables from sharp edges and sudden bends. The laying and fixing to be done as per RDSO drawings No. SDO/cable laying/011 and SDO/cable laying/012, issued vide RDSO document No. RDSO/SI/G/2010 Version 1.1 dated 04.02.2014, or latest.						
44	B1	495000.00	Running Metre	8.84	4375800.00	AT Par	4375800.00
	Description:- Laying of S&T Cables of various cores/ pairs/ quads in trenches/ GI pipes/ RCC pipes/ DWC pipes/ Trucking. This also includes laying of cables in track crossings & road crossings. Item includes provision of labels of colored plastic adhesive tapes or any other identifiable material on each cable to give the cable number at each G.P.(Cables will be daggered before and after its laying by contractor under supervision of Railway Representative and he will submit the meggering report of each testing). Length of the cable laid includes the length of the cable coiled for termination purposes.						
	B1	840.00	Numbers	394.01	330968.40	AT Par	330968.40

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45	Description:- Supply and installation of RCC cable route marker engraved and painted on both side along the route every 50 mm and route diversion as per Drg. No 4014/00/CC4 or latest/ Stone marker.						
	Please see Item Breakup for details.	221239.04	AT Par	221239.04			
46	Description:- Installation, Wiring and testing of Integrated Power Supply System. This includes power distribution connection to bus bars and relay racks in the room with contractor's own wiring materials and fabrication and fixing of AC/DC power distribution board made on 8mm thick SMC sheets or any standard make with connections suitable for 32 A. Wiring to be done considering site requirement, depending upon the load with suitable wires, lugs & glands as per instructions of Engineer-in-charge. The work includes installation of ELD's, fixing & wiring of change over switch(program switch) for selection of DG set supply (DG1 & DG2) and wiring of change over switch (program switch) for selection of mains or DG supply. This item also includes supply & fixing of ladder along the wall for carrying power supply wires/cables from IPS room to Relay room/power room etc. Any masonry work required will be carried out by contractors own material.						
47	B1	15.00	Numbers	32356.08	485341.20	AT Par	485341.20
	Description:- Installation of Microcontroller based Quad Cable Conductor's Earth Resistance Sensing Unit, for 24 nos. conductors with metering facility for one conductor at a time						
48	B1	534.00	Numbers	895.00	477930.00	AT Par	477930.00
	Description:- Dismantling/Releasing of the existing outdoor signalling items such as CLS unit with posts alongwith base, lever frames (5 levers set), battery box with equipments, location box with equipments, block instruments, point machines, mechanical point, AFTC/DAC, Relay rack, CT Rack alongwith Relay rack. IDF with all accessories. All these unit will be counted as one no. along with their accessories. This includes the cost of transportation of released material from site to Railway Scrap Depot. (No. to be read as per Signal/Track device/Location/Point/CT Rack/RR etc)						
49	B1	80000.00	Numbers	5.76	460800.00	AT Par	460800.00
	Description:- "Provision of ferrules on Cable, As per the latest guideline of Railways, which includes all associated work like printing, identifying, fixing, etc.(POLICY NO-02/2024/latest)"						
50	B1	8.00	Numbers	11442.32	91538.56	AT Par	91538.56
	Description:- Installation of Central Evaluator of axle Counter, wiring from CT rack to Central Evaluator, installation and wiring of the reset box, LV box (if required) and associated power supply wiring. This includes supply of shielded cable of required conductor size for wiring between CT rack to evaluator rack, all other wires, power supply cable and wiring materials. The power supply cable from power room to Central Evaluator should not be less than 10 sq.mm PVC wire. Earthing as per OEM's guidelines & specification with their own material. This also includes painting and writing work on evaluator as per site requirement. NOTE- Installation /programming / configuration / commissioning of Axle counter equipment to be carried out in accordance with latest guidelines issued by Railways/ RDSO preferably by Authorised representative of OEM.						
51	B1	78.00	Numbers	2940.36	229348.08	AT Par	229348.08
	Description:- Shifting of existing half location boxes coming in the alignment of new line. The work includes losing & removal of soil around location boxes by excavating soil around foundation, making of pit for shifting of location box horizontally opposite to railway This includes losing of existing cable coils without any damage. The excavated soil shall be back filled after shifting of Location Boxes. Location box shall be shifted by push method with the help of jacks or by crane by contractors own expenditure under instructions of engineer in-charge at site. The work may affect train working hence the work shall be done as per margin only or during traffic block only.						
52	B1	62.00	Numbers	3801.84	235714.08	AT Par	235714.08
	Description:- Shifting of existing full location boxes coming in the alignment of new line. The work includes losing & removal of soil around location boxes by excavating soil around foundation, making of pit for shifting of location box horizontally opposite to railway track up to 0.5 to 1.0 mtr. This includes losing of existing cable coils without any damage. The excavated soil shall be back filled after shifting of Location Boxes. Location box shall be shifted by push method with the help of jacks or by crane by contractors own expenditure under instructions of engineer in-charge at site. The work may affect train working hence the work shall be done as per margin only or during traffic block only						
53	B1	60.00	Day	8205.67	492340.20	AT Par	492340.20
	Description:- Tracing & Securing buried under ground S&T Cable including OFC by team of minimum 5 persons with dedicated vehicle (MUV) in a team (minimum one technician/jointer), during Eng. Digging work by JCB's - to provide supervisory work like marking, shifting, securing, jointing, restoring etc. (Cable joints & termination taken as separate schedule item). Information for deputing team for above work will be provide by Railway Engineer in charge 08 ours prior to requirement. They will pre check route and will do chuna marking for digging work. Note - Necessary arrangement of Team / required material movement to the desired location as per instruction of engineer in charge to be provide by contractor. The contractor need to arrange "n" nos. of teams as per Railway Requirement. (Unit "Day" Means "Per Team Per Day")						
	B1	60.00	Per Unit	8212.67	492760.20	AT Par	492760.20

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54	Description:- Temporary restoration of Quad /PIJF Cable by way of providing Cable Joints at required location. (Thermo shrinkable joint kit used as per RDSO Spec no. IRS TC 77/2010 Rev - 2 or latest suitable to 6 -quad cable of spec no. IRS TC - 30/2005, Ver - 1, Amed - 4 or latest will be arranged by the contractor), The joints needs to be safely placed under ground or as suitable to Engineer in charge. (a location means Two joints) Note: Exact location of joints in Reference to OHE Mast & Center of Track /Geo coordinates needs to be properly documented and reported to Engineer in charge. (Unit "Per Unit "means "Per location")							
55	Please see Item Breakup for details.			29580.00	AT Par	29580.00		
	Description:- Shifting & Termination of Signaling cables in S&T gears. It involves disconnection of Old main cable and connection of new main cable (during shifting /NI/Pre-NI).							
56	B1	650.00	Per function	1218.24	791856.00	AT Par	791856.00	
	Description:- Correspondence Test of Signalling Gears (Points, Signals, Track Circuits, ICC, BPAC etc.) during Rolling Block /Disconnections/ NI Note: Contactor/Firm should provide sufficient Manpower with Workable tools & Equipments. (Unit per Function to be read as 'Per Gear').							
57	B1	50.00	Numbers	6462.71	323135.50	AT Par	323135.50	
	Description:- Installation of Microcontroller based programmable static switching module (Auto changeover).							
58	Please see Item Breakup for details.			1277500.00	AT Par	1277500.00		
	Description:- Earthing of armour of quad cables on copper busbar for three layer earthing of quad cables , it included copper strip green earth wire from quad cable armory to copper strip and green earth wire from copper strip to earth rod along with suitable termination material and soldering							
59	B1	1400.00	Numbers	302.98	424172.00	AT Par	424172.00	
	Description:- Supply & installation of RCC cable route marker engraved on both side and painted on both sides along the route every 50 to 100 mt. & route diversions as per Drg 4014/00/CC4.							
60	B1	6.00	Numbers	69163.10	414978.60	AT Par	414978.60	
	Description:- Manufacture and Supply of PowerDistribution Panel for IPS usingHylem sheet 10 mm as per siterequirement and erecting it usingMS angle clamp 65mm X 65mmX 8mm, HRC fuse block, Mainscontrol switch, ammeter by-passswitch, voltmeter, ammeter, PBTterminals 60mm and wiring thesame using wire PVC 7/1.40mmas per approved power diagram.This also includes termination ofpower cables using teakwoodclamp of size 25mm X 60mm X150mm on a base plank of 25mmthick 150mm width. (MS angles65mm X 65mm X 8mm, Hylemsheet of 10 mm Thickness, as persite requirement, bolt and nutsrequired for manufacture ofpower panel, HRC fuses, box and carriers, teak wood clamp, wire7/1.40mm, PVC casing andcapping and all othermiscellaneous materials will besupplied by the contractor,Supply of PBT terminals 60mm isnot included in the schedule.)							
61	B1	20.00	Numbers	220660.00	4413200.00	AT Par	4413200.00	
	Description:- Installation, wiring, testing and commissioning of HIMatrix, AC to DC, Convertor Communication Switches, FMS other communication accessories and Various Q series Relay Groups for Signals.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B2-Execution items Telecom							59136529.38	
1	B2	78.00	Kilometre	884.48	68989.44	AT Par	68989.44	
	Description:- Cable route survey & Preparation of as built final cable route and other plans (for OFC as well as other telecom cables whose laying is covered in this schedule) taking into account the points mentioned in chapter II & other chapters of technical requirement on Auto CAD for entire sections for entire sections BRC-GDA. The cable route & other plans shall be prepared by contractor after joint survey, got approved from engineer in charge, changes during course of execution shall be incorporated in the same. After completion of the work all completion documents of tracing papers along with six prints of cable route plan, jointing & splicing schedule, cable hut wiring diagram etc. in six sets for each station and section in folders shall be supplied by the contractor. Contractor shall also supply the Auto CAD documents on CD. All the required materials, accessories including tracings, papers etc, shall be contractor's own.							
2	B2	12000.00	cum	807.37	9688440.00	AT Par	9688440.00	
	Description:- Excavation of trench 300mm wide at the bottom and 1.2 mtr deep, in all type of soils including clearing of trees, bushes, etc. and refilling of cable trench by excavated soil and ramming after laying of HDPE DUCT (laying of HDPE/DWC & 6 Quad. cables, PDF cables etc., will be paid under different items of the schedule). Where desired dimensions of trenches could not be achieved proportionate payment will be made as decided by Engineer-in-charge of the Railway at site. The trenching outside the station limits I.e.) between the home signal of station 'A' to home signal of station 'B' may be done manually or by machine, as per the directions of site in charge. In no case the payment will be made for the trench of higher dimensions, than the dimensions as mentioned above.							
	B2	30000.00	Metre	1120.38	33611400.00	AT Par	33611400.00	

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3									Description:- Horizontal Directional Drilling (HDD) / boring operations shall be executed using an appropriate auger machine to ensure that no damage is caused to the existing road surface. The bore shall have a diameter of 150 mm and shall be executed at a minimum depth of 1500 mm below ground level; as per the instructions of the Engineer-in-Charge, the height of the road embankment shall not be considered part of the ground level. The scope of this work encompasses both the drilling/boring process itself and the pulling of cables and/or ducts through the bore; the number and size of the cables/ducts shall be determined based on site requirements and in accordance with the instructions of the Railway Site-in-Charge, provided they fall within the specified bore diameter. Payment shall be made only for completed HDD work wherein the cables/ducts have been successfully pulled through; in instances where no cables or ducts have been pulled, no payment shall be made for the HDD work. (Payment for the laying of cables/ducts shall be made separately under the relevant schedule item.)
4	B2	50.00	Kilometre	9370.00	468500.00	AT Par	468500.00		Description:- Laying of OFC/Quad Cable, PIJF cable of different size in the excavated trench/boring This includes loading/unloading & transportation of cables from the stores of SSE/T/C/PRTN to the site/ Wherever several cables of provision of separation of various cables should be as advised by the site incharge of the Railway. Empty cable drums to be retained by the contractor the cable drums with unused cable at site to be returned by the contractor from site to be returned by the contractor from site to Stores of SSE/T/PRTN.
5	B2	200.00	Metre	363.72	72744.00	AT Par	72744.00		Description:- Fixing & laying of 100 mm /80 mm dia GI pipes or GI trouphing (supply of GI pipe is covered separately in Schedule 'C1') and parapet wall/roof of culverts, including masonry work at both ends with contractors own material and bending of the pipe at the both ends etc. as per Drawing No. SK/CSTE/C/97/05 & directive of Engineer in-charge, Perforation should be done before laying of GI pipes.
6	B2	1400.00	Numbers	302.98	424172.00	AT Par	424172.00		Description:- Supply & installation of RCC cable route marker engraved on both side and painted on both sides along the route every 50 to 100 mt. & route diversions as per Drg 4014/00/CC4.
7	B2	40000.00	Running Metre	31.33	1253200.00	AT Par	1253200.00		Description:- Placing of RCC/DWC/ Split DWC pipe in trench and track/road crossing protruding equally outside the rail/road edge on either side.
8					243351.50	AT Par	243351.50		Please see Item Breakup for details. Description:- Supply & Fixing of GI trouphing on girder/ other type bridges in yard and mid sections for carrying telecom cable. This includes supply and fixing of 100mmx50mmx06mm and 1. 2 mtr long MS channel .Before installation material inspected by Railway repersentative as site engineer instruction.
9	B2	10.00	cum	1968.19	19681.90	AT Par	19681.90		Description:- Cement concrete work for miscellaneous items in the ratio 1 : 3 : 6 . Item includes excavation, ramming, curing and plastering with cement & sand mixture (aggregate not exceeding 3.8 cm.) (Aggregate cement & sand to be supplied by the contractor).
10	B2	10.00	cum	5976.09	59760.90	AT Par	59760.90		Description:- Providing brick masonry in ratio 1:6 cement and mortar including plastering with 1:4 cement and sand mixture both sides, 20 mm thick each with contractor's owned class II bricks, including excavation, curing, grouting, bolting etc. wherever required. Bricks sand and cement to be supplied by the contractor.
11	B2	20.00	Numbers	2786.05	55721.00	AT Par	55721.00		Description:- Installation of fiber distribution management system (Supply covered Above) with all installation materials, restoration wall etc. to original condition , splicing and termination of 48 fiber cable (With all contractor's materials), routing/dressing fibers as per directions of Engineer in-charge.
12	B2	160.00	Kilometre	4810.06	769609.60	AT Par	769609.60		Description:- Transportation and Laying of HDPE pipe as per approved cable route plan in the excavated trench, taking due care while transporting and laying the same in the trenches or other protective works. Both the end of duct should be sealed with end plugs before laying and should remain sealed till blowing is done.Note- laying Duct as per HQ polcy dated 01.01.2025
13	B2	20.00	Per Block Section	9339.84	186796.80	AT Par	186796.80		Description:- End to end testing of all fiber of the optical fibred cable laid under above items between station/cable huts. All required equipments, tools and plants shall be arranged by the contractor. Five nos. of print out of traces in folders of OFC parameters/ results, The per kilometer link loss shall be as per the policy/technical circulars issued by the railways from time to time.
	B2	60.00	Numbers	13342.67	800560.20	AT Par	800560.20		

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14	Description:- Supply and installation of straight joint enclosures (SJC) complete with all accessories with latest amendments or Raychems RPG make FOSC-400-B4-A-BJL-4-H -48 or similar make only. (For 48 fiber OFC) and splicing of 2X48 F laid OFC. Insp. By Consignee.						
15	B2	160.00	Kilometre	8637.20	1381952.00	AT Par	1381952.00
	Description:- Blowing of OFC through HDPE duct & protective work (elicited in above item) already provided. Where it is not feasible to blow OFC due to curves, road/track crossings, bridges or for any other reason, OFC shall be drawn /laid manually as per standard procedure. All the equipments and machinery required shall be arranged by the contractor at his own cost. In case OFC is to be laid adopting 'Direct in trench' method then this item shall be paid as per accepted rate of item no.(6 h) of this schedule. OFC and HDPE pipe shall be supplied by the railway.Not.all coupler of duct given by contracor as per requiremnt every portion of duct must be joint by coupler.						
16	B2	14.00	Numbers	5652.91	79140.74	AT Par	79140.74
	Description:- Splicing of laid under above items OFC cable 24 F and making the splice joint in dust free environment with contractor's own equipments and labour. Straight joint enclosure (SJC) is covered under schedule 'A' remaining all required materials, tools , plants shall be arranged by the contractor. splicing shall be started from one end and each splicing shall be monitored after splicing and after closing the enclosure for all the fibers from one central location by contractor's engineer with his own OTDR and optic Talk set with railway engineer , trace for the fibers shall be taken and signed jointly, if any fibred splice shows high loss/lossy event, the same shall be redone before completion of splicing work. The splice loss shall be as per the policy/technical circulars issued by the railways from time to time.supply above sjc						
17	B2	60.00	Numbers	9619.51	577170.60	AT Par	577170.60
	Description:- Supply and installation of Connectors/Pig Tail/Patch cords/ MC/ LIU/ Patch Panels, necessary accessories 24 fiber with termination/ splicing of OFC cable make R&M, 3M or Raychem,Systemax ,.Model make approved before supply.						
18	B2	50.00	Numbers	3561.51	178075.50	AT Par	178075.50
	Description:- Supply & installation of RCC pre-fabricated OFC jointing pits size 0.6mx1.12mx1m.round type as per RCIL drg No. RAILTEL/WR/OT/DFC/011 The material shall be supplied as per engineer in charge instructions.						
19	B2	50.00	Numbers	2435.71	121785.50	AT Par	121785.50
	Description:- Fabrication of EC socket box, assembly and erection of fabricated assembly at the location indicated in the route chart and as per direction of Engineer in charge. This includes cutting of rails / GI pipe to required size, supply and welding of GI Pipe and base plate, fixing of EC Socket box, transportation of material to site, digging of pit and erection of whole assembly at site. The work also includes the termination of 6 Quad/PIJF derivation cable on the strips of 6 pin EC socket inside emergency socket box. The fabrication of EC Socket box shall be done as per Drg. No. SK/CSTE/C/97/16 & SK/CSTE/C/97/20. Rail/GI Pipe post will be supplied free of cost at the SSE (Tele) C/PRTN depot in full lengths. Note - In addition to above, the centre pins of EC sockets shall be terminated with a dedicated pair of 6 Quad cable (Derivate through the tail PIJF cable) in the entire block section so as to provide magneto/auto telephone communication from each EC socket.(All materials supply by contractor except rails & GI Pipe for post.).						
20	B2	100.00	Numbers	887.45	88745.00	AT Par	88745.00
	Description:- Execution of quad cable jointing using thermo shrinkable joint kit straight though/ Derivation / 2T / 3T transformer joints with VF transformer between 6 quad & PIJF cable this i/c transformers on 6 quad / jelly field cable this i/c VF transformation of jointing kit transformer covered in Schedule 'A'.						
21	B2	50.00	Numbers	2435.71	121785.50	AT Par	121785.50
	Description:- Supply and fabrication of EC socket box, assembly and erection of fabricated assembly at the location indicated in the route chart and as per direction of Engineer in charge. This includes cutting of rails / GI pipe to required size, supply and welding of GI Pipe and base plate, fixing of EC Socket box, transportation of material to site, digging of pit and erection of whole assembly at site. The work also includes the termination of 6 Quad/PIJF derivation cable on the strips of 6 pin EC socket inside emergency socket box. The fabrication of EC Socket box shall be done as per Drg. No. SK/CSTE/C/97/16 & SK/CSTE/C/97/20. Rail/GI Pipe for post will be given by railway free of cost at the SSE (Tele) C/PRTN depot in full lengths. Note - In addition to above, the centre pins of EC sockets shall be terminated with a dedicated pair of 6 Quad cable (Derivate through the tail PIJF cable) in the entire block section so as to provide magneto/auto telephone communication from each EC socket.(All materials supply by contractor except rails & GI Pipe for post.). Quad joint for EC seprate schedule item.						
22	Please see Item Breakup for details.			4235953.80	AT Par	4235953.80	
	Description:- Preparation of cable route of buried S&T Cable using Radio Detector 8200GS or similar model GPS Model and DGPS for Trench per km.for existing cable as per the instruction of Engineer in-charge.Sumission of report in KMZ file formate,soft copy only.						
23	B2	20.00	Numbers	263.18	5263.60	AT Par	5263.60
	Description:- Fixing of 20/12 pairs CT box & termination cables as per the details approved by the engineer. All the required materials shall be supplied by the contractor.(for station)						

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24	B2	50.00	Numbers	500.40	25020.00	AT Par	25020.00	
	Description:- Painting of emergency socket assembly and rail post by applying one coat of red oxide as base color, and then painting the assembly as per zebra painting in white and black colors. The width of each of the black and white colors shall be 100mm. All paints used shall be with ISI mark.							
25	B2	1000.00	Numbers	219.74	219740.00	AT Par	219740.00	
	Description:- Splicing of fibres of OFC Cable and making Splice joint of fiber with contractor's own splicing machine and tools and consumables.(Payment per fiber which splice not count total fiber of cable)							
26	B2	5.00	Numbers	19112.15	95560.75	AT Par	95560.75	
	Description:- "Installation, Commissioning & Testing of LER & LSR IP MPLS Routers including supply & Installation of all the accessories like Power cable, Earthing Cable, Optical Patch Cords of 3 mtr- 6 Nos. for LERs & 10 Nos. for LSRs, Cat 6 Patch Cords of 1 mtr -4 Nos , one 6A MCB for each LER and LSR , wiring etc. as required for Routers as per specification. "							
27	B2	5.00	Numbers	47582.85	237914.25	AT Par	237914.25	
	Description:- "Supply and installation of 16 port E1 Card (2 x 8port) along with Patch panel/Krone Module and wiring for Routers with all accessories etc. as per RDSO Document No. STT/TAN/IP-MPLS/2020 Version 2.0 as per specification. "							
28	B2	10.00	Numbers	20193.94	201939.40	AT Par	201939.40	
	Description:- "Supply and Installation of Control IP Telephones without Hands Free and Gooseneck Operation for Way Side Station as Per Clause 11 of RDSO/SPN/TC/99/2012 Rev.2 or latest as per specification no.4.55 of chapter-4 of Tender document. "							
29	B2	10.00	Numbers	11315.54	113155.40	AT Par	113155.40	
	Description:- "Supply and installation of Executive open standard SIPphone as per specification. As per Railway Board letter no.2022/tele/9(3)/4 dtd.22.09.22. "							
30	B2	5.00	Numbers	746080.00	3730400.00	AT Par	3730400.00	
	Description:- Description:- Removal of existing LTCAS/ALHTCAS/Station TCAS and transportation to New Location. Supply of required Relay Racks and accessories for installation at New shifted locations of STCAS/RIU. This includes installation testing and commissioning at New Location.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule () B3-Excution Items							21582143.13	
1	Please see Item Breakup for details.				14105209.50	AT Par	14105209.50	
	Description:- Modification/Alteration in existing EI (Electronic Interlocking) as per latest RDSO guidelines/TAN. It includes- Design and modification in existing Interface and Interlocking circuits and logic of EI system including modification in the VDU(Video Display Unit)/ LCP(Local Control panel)/ CCIP (Control cum Indication Panel), Maintenance terminal (MPC), Data Logger, Relay rack wiring. The complete work should comply with the latest RDSO specifications and guidelines and as per approved SIP and circuit diagrams. All the material (Interface cards / relays / wiring material / connectors fuses/communication devices etc.) shall be provided by the contractor. The work also includes the supply of modified Selection table, Interface Circuits, VDU/ LCP/CCIP diagram etc. to suit the modified SIP. It also includes the carrying out of FAT, SAT (as applicable) jointly with Railways and satisfactory commissioning. All plans/drawings/circuits etc. should be prepared on AUTO CAD, soft copy to be supplied on Pen Drive and 06 sets of hard copies also to be supplied.							
2	Please see Item Breakup for details.				36186.00	AT Par	36186.00	
	Description:- Design of ST/LT/TOC/Square sheet/RCC (Three copy) for approval.							
3	B3	500.00	Sheet	392.00	196000.00	AT Par	196000.00	
	Description:- Design of existing Circuit Diagrams consisting wiring/Logic diagram, contact analysis, fuse detail, Input/output bit chart, VDU diagram, Interface etc. (Alteration) submission of Three paper copies for approval.							
4	B3	2.00	Station	570471.00	1140942.00	AT Par	1140942.00	
	Description:- Factory Acceptance Test / site acceptance test (FAT/SAT).							
5	Please see Item Breakup for details.				7697.00	AT Par	7697.00	
	Description:- "Design of Miscellaneous diagram consist of Floor Plan of Relay Room , Battery Room, Power Equipment Room, Data logger room, Power Supply Diagrams along with power supply calculation, Earthing Diagram, Power panel diagram, IPS wiring diagram , Auto change over diagram , Block circuit wiring diagram, Digital Axle counter wiring diagram and all other relevant drawings (Three copy) for approval."							
6	Please see Item Breakup for details.				970.00	AT Par	970.00	
	Description:- Supply of Completion SIP in Original tracing along with Auto CAD copy in Pen Drive and Six set copies after approval.							
7	Please see Item Breakup for details.				1044.00	AT Par	1044.00	

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8	Description:- Supply of completions ST/LT/TOC in original tracing along with AutoCAD copies in Pen Drive and six set copies after approval.						
	Please see Item Breakup for details.	29615.00	AT Par	29615.00			
9	Description:- Supply of Circuit Diagrams consisting wiring/Logic diagram, contact analysis, fuse detail, Input/output bit chart, VDU diagram, Interface in Auto CAD in Pen Drive and Six set of Copies after approval.						
	Please see Item Breakup for details.	53506.00	AT Par	53506.00			
10	Description:- Design and supply SWR Diagram on standard tracing paper of 95grams for each station. Corrected version of SWR plans after checked & approved by Rly's 25 Ferro copies will be supply for each of the plans.						
	Please see Item Breakup for details.	82691.00	AT Par	82691.00			
11	Description:- Preparation of SWR including supply of SWR booklets (25 Nos. per station).						
	B3	6.00	Numbers	9184.44	55106.64	AT Par	55106.64
12	Description:- "Installation of Cable Termination Racks Assembly complete including wall supports, scaffolding, 8 way/ARA terminals /Screw less connectors, Tag blocks & other necessary accessories etc. The work shall be done as per approved plan, extant practice on WR & the instruction of Rly engineer at site."						
	B3	11.00	Each Module	915.42	10069.62	AT Par	10069.62
13	Description:- Installation wiring testing and commissioning of Fuse change over system (FACS). This includes provision of common Buzzer & indication at ASM Room & ESM Duty Room and painting of fuse details. This also includes fabrication of frame for installation of FACS at Station/ LC gate where installation of relay racks not feasible.						
	B3	2.00	Numbers	109014.46	218028.92	AT Par	218028.92
14	Description:- "Installation, Wiring and testing of Integrated Power Supply System. This includes power distribution connection to bus bars and relay racks in the room with contractor's own wiring materials and fabrication and fixing of AC/DC power distribution board made on 10mm thick Phenolic hylam sheets or any standard make with connections suitable for 32 A. Wiring to be done considering site requirement, depending upon the load with suitable wires, lugs & glands as per instructions of Engineer-in-charge. The work includes installation of Thermo flasher relay, ELD's, fixing & wiring of change over switch (program switch) for selection of DG set supply (DG1 & DG2) and wiring of change over switch (program switch) for selection of mains or DG supply. This item also includes supply & fixing of ladder along the wall for carrying power supply wires/cables from IPS room to Relay room/power room etc. Any masonry work required will be carried out by contactors own material."						
	B3	6.00	Numbers	22354.53	134127.18	AT Par	134127.18
15	Description:- "Fixing of Electrical Point Machine on the extended sleepers at points as per std. practice and as per RDSO Drg No. SA 91 51- 52 or 9710 or 9161 as per section of rails used. Item includes fixing switch extension bracket, providing insulation for switch extension bracket, fixing ground connection, adjusting opening of the switches and adjusting the point machine with crank handle. The item also includes : (i)Complete material for installation like ground-connections, switch extension brackets, point insulation material, I pipes, wiring materials, various fixing nuts & bolts including castle nuts, spring washers (ii) All smithy & fitting works required at site for complete installation. (iii) Installation of gauge tie plate & providing insulation for gauge tie plate (Insulation in William Stretcher Bar will be Provide by Railways). (iv) Wiring inside the point machine, insertion and termination of tail cable in point machine and junction boxes / location box /cable hut as per extent practice on WR and the instruction of Railway Engineer at site. (v) Supply and fixing of suitable size GI pipes with flange for taking cable into point machine. Note ; The ground connections shall be suitable to the Point Machines as specified"						
	B3	9.00	Numbers	12887.18	115984.62	AT Par	115984.62
16	Description:- Excavation and Casting of foundation for main signal post as per CSTE/3122 (WR) with contractor's own materials including cement and anchor bolts of standard size. The required scaffolding Ferma etc for Casting of foundation will have to be brought by the contractor at his own cost.						
	Please see Item Breakup for details.	53932.42	AT Par	53932.42			
17	Description:- Erection of CLS Post with base and signal unit on top or on OFF set Bracket, fixing of front and back staging, ladder and guards, signal name plates / boards if any with contractor's own brackets and fixing materials. This also includes erection of auxiliary signals like calling on, shunt signal if any. The work shall be done as per instructions of Rly engineer at site. It also includes provision & fixing of maintenance platform as per design given by Engineer -In- Charge at site. The item includes cutting of Signal post if required by Site In charge.						
	B3	10.00	Numbers	1280.82	12808.20	AT Par	12808.20

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				Description:- "Fabrication and fixing of Signal Number Plate(CSTE Drg No CSTE/6186) , 'A' Marker (Drg No. CSTE/6180), 'AG' Marker (Drg No. CSTE/6181), 'P' Marker (Drg No. CSTE/6182), Arrow Marker (Drg No. CSTE/6183), 'G' Marker (Drg No. CSTE/6184), 'C' Marker (Drg No. CSTE/6185). marker disk on signals as per standard practice All material required for this work shall be supplied by Contractor."			
18	B3	40.00	Numbers	366.58	14663.20	AT Par	14663.20
				Description:- Fixing & wiring of QNA1 / QNA1K relays for GPR Circuit in apparatus case as per Standard practice. Fixing and wiring material shall be supplied by the contractor.			
19	B3	1.00	Numbers	2391.56	2391.56	AT Par	2391.56
				Description:- Fixing of Calling-on Signal/A-Sign/AG-Sign unit on signal post. The item includes fixing of Co- On signal /'A' sign/ 'AG' sign unit on signal post with bracket, hood etc. Item includes supply bracket & fixing materials etc. by the contractor. The item also includes termination of cables & wiring inside Co- On signal /'A' sign/ 'AG' sign unit as per standard practice.			
20	B3	1.00	Numbers	6139.76	6139.76	AT Par	6139.76
				Description:- Excavation and Casting of foundation for Shunt Signal as per Drg. No. CSTE/6090 with Contractor's own materials including Cement and Anchor Bolts of Standard Size. The required scaffolding, Ferma etc for Casting of foundation will have to be brought by the Contractor at his own cost.			
21	B3	1.00	Numbers	1930.03	1930.03	AT Par	1930.03
				Description:- Erection of Position Light Shunt signal with Base, Post, Signal unit and fixing of Number Plates. The work shall be done as per instructions of Rly engineer at site.			
22	B3	800.00	cum	839.00	671200.00	AT Par	671200.00
				Description:- Excavation of cable trench as per cable route plan,1 Mtr. deep and of 0.3 Mtr. to 0.6 Mtrs wide advised by Engineer-in-charge alongside the track in normal (all type) soil/strata, conforming to distances as per cable route plan and refilling. This work includes clearing of route from bushes etc, covering of cable laid in trench by loose soil for a layer of 50mm thickness approximately before covering by bricks. The work shall be done as per the extant practice on Western Railway and instructions of Railway Engineer at site. In case 1m depth of trench is not achievable due to site conditions, specific approval of JA grade officer will be required for each site where trench depth of 1m is not possible. Without the approval of JA Grade officer, no payment for trenching will be made for trench depth less than 1m.			
23	B3	1000.00	Metre	1187.85	1187850.00	AT Par	1187850.00
				Description:- "Horizontal direction drilling/boring without damage of surface road using Auger Machine. The bore shall be 150 mm dia & shall be done at the depth of minimum 1200 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road. The length of the bore shall be minimum 4 Mtrs long. this include insertion of different dia DWC pipe/ GI pipes coupling etc. as per direction of Engineer In charge. Note:- Pipe will be supplied by railway. Contractor shall provide all material required for boring and adequate nos. of labours for proper laying of cables into the bore. Cable shall be laid cautiously so that it should not get damage due to rough handling & pressure on cable."			
24	B3	150.00	Running Metre	33.22	4983.00	AT Par	4983.00
				Description:- "Transportation and Placing of DWC/RCC/GI pipes along with collars in trenches at places of track and road crossings, platform cuttings etc."			
25	B3	20.00	Running Metre	418.07	8361.40	AT Par	8361.40
				Description:- Fixing of GI pipes for crossing the culverts, bridges etc. and concreting of ends with brick masonry at both ends as per the instruction of Rly engineer at site.			
26	B3	55000.00	Running Metre	9.37	515350.00	AT Par	515350.00
				Description:- Laying of S&T Cables of various cores/ pairs/ quads in trenches/ GI pipes/ RCC pipes/ DWC pipes/ Trunking. This also includes laying of cables in track crossings & road crossings. Item includes provision of labels of coloured plastic adhesive tapes or any other identifiable material on each cable to give the cable number at each G.P.(Cables will be maggered before and after its laying by contractor under supervision of Railway Representative and he will submit the maggering report of each testing). Length of the cable laid includes the length of the cable coiled for termination purposes.			
27	B3	2500.00	Per Conductor	23.70	59250.00	AT Par	59250.00
				Description:- Termination of outdoor cables, main cables laid in location boxes, Cable termination rack etc at both ends. Both ends of a cable core terminated shall be counted as one terminal. The item includes dressing of cables, making wiring tree etc.			
28	B3	3.00	Numbers	12567.83	37703.49	AT Par	37703.49

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	Description:- "Digging of cable pit (min 2x2x1m) as per instruction of Site Engineer, supplying and filling of sand before and after coiling the cables, covering top of the cable pit with stones and providing brick masonry on all four sides of the cable pit and plastering thereafter."						
29	Please see Item Breakup for details.	160317.14	AT Par	160317.14			
	Description:- Installation of NE type Full apparatus case and Excavation and Casting of Apparatus Case foundation with contractor's own materials including cement and anchor bolts of standard size. The required scaffolding Ferma etc for Casting of foundation will have to be brought by the contractor at his own cost.						
30	Please see Item Breakup for details.	37122.12	AT Par	37122.12			
	Description:- Fabrication and fixing of phenolic laminated sheet of size 10mm thick in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per drg and arrangement similar to SK 783-1/2. with latest alterations & as per instructions of Rly engineer at site.						
31	B3	31.00	Numbers	5579.77	172972.87	AT Par	172972.87
	Description:- Installation of Earth Electrode including MS flat for clamp etc. and connection to signalling equipments, lever frames, apparatus cases, signal, relay rack, block instrument, etc. as per technical specification given. This item includes digging of pit in earth 3 M deep & fixing earth electrode pipe, casting of cement concrete enclosure & cover as per RDSO/SPN/197/2016. Soil treatment to be done as per std. practice. This item includes provision of MS Flat, Earth lead wires and Soldering of lead wires. The other end of the wire is to be connected to block equipment, power equipment, cable sheath, and signals etc. as per site requirements. 7 strand GI wire shall be used as earth lead wire. (Supply of earth electrode is covered in other Item).						
32	B3	9.00	Numbers	1456.79	13111.11	AT Par	13111.11
	Description:- Installation of Maintenance Free Earth Electrode for Maintenance Free Earth spec of RDSO/SPN/197/2008.						
33	B3	1.00	Lot	60413.00	60413.00	AT Par	60413.00
	Description:- "Preparation of cable route plan, cable coreage plan, location particulars, Cable termination rack particulars, cable meggering report, earth resistance particulars, Traction bonding diagram, 1/2 wire count sheet and any other drawing in AutoCAD in A3/A4 size. The contractor shall initially supply 3 sets of circuits complete for approval of Railways. Railways will return one set to the contractor duly approved with alterations/corrections, if any. The contractor shall incorporate Railway's alterations/corrections in the tracings without any deviation and submit all tracings complete in all respects to the Railways along with CD & 4 sets of final approved drawings. This includes submission of final cable route plan as per laid cable duly measured at every 30m clearly indicating distance of laid cable from fixed point of reference & indicating all track crossings and tail cables. This also includes designing of cable coreage plan based upon I.P in consultation with engineer-in-charge. For small/medium yards"						
34	B3	2.00	LC Gate	49762.71	99525.42	AT Par	99525.42
	Description:- Installation, testing and commissioning of electrically operated lifting barrier, complete with Casting of cement concrete foundation for pedestal and boom rest post, cabling, power supply connection & wiring with complete outdoor work as per approved drawing, wiring etc						
35	B3	2.00	Numbers	15908.46	31816.92	AT Par	31816.92
	Description:- "Installation & commissioning of Sliding booms with E type lock and KLCR. This includes wiring of KLCR, running of cables, necessary painting & transportation of materials from store to site. All material required to commissioning of slide booms on gate will be supplied by the contractor."						
36	B3	10.00	LC Gate	26702.78	267027.80	AT Par	267027.80
	Description:- Casting of CC foundation of Sliding boom						
37	B3	2.00	LC Gate	15900.59	31801.18	AT Par	31801.18
	Description:- "Complete Indoor wiring testing & commissioning of station / LC Gate. This includes: (i) Prewiring & fixing of all base plates as per approved wiring diagram. (Supply of relay base covered in schedule 'A'. Excess quantity of base plate, if required will be supplied by Railways, prewiring of which will be done by the contractor.) (ii) Fixing of Relay groups on relay racks. (iii) Soldering of tag block terminals, dressing of wires as per approved rack arrangements/ Circuit diagrams. (iv) Wiring on bus bar, fuse base condenser, resistance etc. as per wiring diagram. (v) Wiring on Relay rack to relay rack via IDF, IDF to CT rack in relay room. (vi) Wiring on panel tag block shall be repeated on tag blocks located on IDF & CT rack in relay room. (vii) Wiring between control panel room & relay room. (viii) Supply of simulation panel, which shall be separate for each station and shall be left after commissioning. (ix) Provision 200 way tag blocks for data logger and providing jumpers between voltage free terminals on relay racks and data loggers, tag block with 0.6 sq mm cable. (x) Wiring between Integrated power supply and data logger tag block with one square"						
38	B3	3000.00	Numbers	22.75	68250.00	AT Par	68250.00

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	Description:- "Fixing of ARA Terminals /Screw less connectors and fuse blocks on phenolic laminated sheets and fixing by stainless steel/brass nuts & bolts. This includes provision of two additional holes on the board on either side for cable conductor entry."						
39	B3	14.00	Per Track Circuit	6667.03	93338.42	AT Par	93338.42
	Description:- "Fixing and wiring of DC track circuit equipments i.e. track feed charger, resistance, track relay, battery, PPTC fuses etc., in the Apparatus Case and battery box as per standard practice. Termination of tail cable on M 6 / Screw less terminals WAGO or FINOLEX or similar approved make terminals/ fuse blocks / HRC fuse. Item includes testing /commissioning of track circuit. Complete wiring material (including PPTC fuses) which are not covered in Schedule will be supplied by contractor. (Supply of Track feed battery charger, track feed battery, resistances & 'B' type choke & Track relays will be supplied by Railways / covered in Schedule separately)."						
40	B3	6.00	Per Track Circuit	7328.72	43972.32	AT Par	43972.32
	Description:- Installation of DC track circuits covering points zones also. The item includes provision of continuity bonds of seven strand PVC jacketed wire/ GI wire 8 SWG on rail joints after drilling bond-hole of 7.0/7.1/7.2mm Dia (double bond with sleeves and rail clips are to be provided at each rail joint), insertion of insulated block joint, fixing of Track lead Junction box on MS angle two numbers of size 40X40X5 mm 1200 mm length for track feed/ jumper / track relay ends of track CCTs (as per double TLJB arrangements) and also for fixing jumper cables as per insulation diagram WR Drg No. CSTE/6055 and standard practice, making rail connections through suitable insulated sleeves from Track lead Junction box at TF, jumper & TR end with seven strand PVC jacketed wire /GI wire 8 SWG, rail clips for fixing bond wire on the TLJB as per standard practice, termination of tail cables on bootleg terminals etc. TF/TR wiring shall be fixed on the suitable arrangement on PRC sleepers with the help of hooks. Hooks shall be provided on PRC sleepers with the help of suitable steel bracket. This item also includes fixing & supply of channel pins etc. The item also includes supply of MS angles/ trestles, GI wire 8 SWG / seven strand PVC jacketed wire, hooks, rail clips etc.						
41	B3	1.00	Set	7375.67	7375.67	AT Par	7375.67
	Description:- Installations, wiring, testing and commissioning of Remote Terminal Unit complete along with accessories using Contractor's own wiring & fixing materials. (It includes loading of NETWORKING software and networking with data logger. The requisite communication cable/channel for networking will be arranged by Railway.						
42	B3	1.00	Set	21176.39	21176.39	AT Par	21176.39
	Description:- Installation, wiring, testing, and commissioning of Data logger complete along with accessories using Contractors' own wiring & fixing materials as per the following configuration. (It includes loading of NETWORKING software, networking of data logger, installation of FEP & Fault diagnosis system). The requisite communication cable/channel for networking will be arranged by Railway. 1024 digital & 32 analog inputs/ 4096 digital & 32 analog inputs. (All the Indoor & outdoor gears wiring in cataloged included in this along with laying 230V supply cable from IPS room, 12 core cable from auto change over for monitoring supplied.) Note- It included logging of all gears as per site incharge.						
43	B3	220.00	Per Gate	1269.00	279180.00	AT Par	279180.00
	Description:- Correspondence Test of Signalling Gears (Points, Signals, Track Circuits, ICC, BPAC etc.) during Rolling Block /Disconnections/ N I Note- Contactor/Firm should provide sufficient Manpower with Workable tools & Equipments. (Unit per Function to be read as 'Per Gear').						
44	Please see Item Breakup for details.			25968.05	AT Par	25968.05	
	Description:- "Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in- charge. Epoxy paint will be supplied by Railways. NOTE-The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974)."						
45	Please see Item Breakup for details.			5832.82	AT Par	5832.82	
	Description:- Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in- charge. Epoxy paint will be supplied by Railways. NOTE-The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974).						
46	B3	12.00	Numbers	129.26	1551.12	AT Par	1551.12
	Description:- Lettering/ Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes. This includes supply of paints of Asian Paints/ Nerolac / Dulux / Berger make. (Full Case).						
47	B3	10.00	Numbers	88.18	881.80	AT Par	881.80

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	Description:- "Lettering/Numbering Termination particulars, equipments names etc., legibly and neatly inside location boxes. This includes supply of paints of Asian Paints/ Nerolac/ Dulux / Berger make. (Half Case)"						
48	B3	5.00	Kilometre	5178.39	25891.95	AT Par	25891.95
	Description:- Transportation and Laying of HDPE pipe as per approved cable route plan in the excavated trench, taking due care while transporting and laying the same in the trenches or other protective works. Both the end of duct should be sealed with end plugs before laying and should remain sealed till blowing is done.Note- laying Duct as per HQ polcy dated 01.01.2025						
49	B3	5.00	Kilometre	8009.88	40049.40	AT Par	40049.40
	Description:- Blowing of OFC through HDPE duct & protective work (elicited in above item) already provided. Where it is not feasible to blow OFC due to curves, road/track crossings, bridges or for any other reason, OFC shall be drawn /laid manually as per standard procedure. All the equipments and machinery required shall be arranged by the contractor at his own cost. In case OFC is to be laid adopting 'Direct in trench' method then this item shall be paid as per accepted rate of item no.(6 h) of this schedule. OFC and HDPE pipe shall be supplied by the railway.						
50	B3	15.00	Numbers	5991.30	89869.50	AT Par	89869.50
	Description:- Splicing of laid under above items OFC cable and making the splice joint in dust free environment with contractor's own equipments and labour. Straight joint enclosure (SJC) is covered under schedule 'A' remaining all required materials, tools , plants shall be arranged by the contractor. splicing shall be started from one end and each splicing shall be monitored after splicing and after closing the enclosure for all the fibers from one central location by contractor's engineer with his own OTDR and optic Talk set with railway engineer , trace for the fibers shall be taken and signed jointly, if any fibred splice shows high loss/lossy event, the same shall be redone before completion of splicing work. The splice loss shall be as per the policy/technical circulars issued by the railways from time to time.						
51	B3	2.00	Set	6111.47	12222.94	AT Par	12222.94
	Description:- Commissioning of T-Networking suitable for Networking to the existing Data Logger equipments. This includes supply of all equipment / accessories required for the purpose.						
52	B3	70.00	Numbers	376.10	26327.00	AT Par	26327.00
	Description:- Charging of Lead Acid Batteries (2V 80AH) with contractors' own battery grade sulphuric acid and distilled water with a minimum of two charge-discharge cycles, installation of charged batteries in groups & their connection & wiring. The work shall be done as per the extant practice of W.Rly & instruction of the Engineer-in- charge. Detailed measurements of initial charging shall be recorded jointly by the contractor & Rly's site-in- charge.						
53	B3	15.00	Numbers	78076.67	1171150.05	AT Par	1171150.05
	Description:- Installation of Microcontroller based programmable static switching module (Auto changeover).						
54	B3	3.00	Numbers	10419.20	31257.60	AT Par	31257.60
	Description:- Installation of Relay Rack Assembly including IDF pillars if any complete with wall supports, scaffolding, ladders, runway for cables, fixing of Relay / Relay group base plates, fixing of Tag blocks etc. The work shall be done as per approved plan, extant practice o n W R & the instructions of Rly engineer at site.						

3. ITEM BREAKUP

Schedule	Schedule A1-Supply of Items					
Item- 1	Data logger system for Railway S&T installation As per spec. IRS: S-99 2006 (Amdt-3) or latest. Central Monitoring Unit (Hardware Configuration as per Annexure) with UPS minimum 06 hrs battery backup and required Software tools. This also includes the supply of one no composite computer & printer table (Godrej workstation table) for keeping the Processor module and one no Godrej make operator chair model PCH7001.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	1024 digital and 32 analog inputs.	Numbers	6.00	492021.65	2952129.90
					Total	2952129.90
Item- 7	Supply Color Light Signal Accessories.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	(1) CI Base (As per IRS S-10 & RDSO Drg. No. 2011/M With latest assembly). (2) Pinnacle. (3) Ladder Assembly, as per RDSO Drg. No. SA-23156, with Base, Ladder Guards, Platform, Front Maintenance Platform, MS Supporting bracket to Support Ladder.(4) Signal Front Staging Complete Assembly for CLS Unit.(5) Signal back staging as per extent WR Practice.	Set	111.00	3153.79	350070.69
2	2	Supply of signal no plate as per Drg no CSTE Drg No CSTE/6186.	Numbers	156.00	539.26	84124.56
					Total	434195.25
Item- 20	Supply of DC Track Circuit Accessories as follows -					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Track feed battery chargers, 110V AC input, 2 to 6/10 V DC Output; as per Specn. No. IRS.S 89/ 2013 with latest amendments. Charger shall be suitable for charging 80 AH battery.	Numbers	125.00	3086.38	385797.50
2	2	Choke Coil for Single Rail Track Circuit on 25 KV 50 Hz AC Electrified Section as per Spec No IRS S 65/1983 with latest amendments.	Numbers	250.00	1865.47	466367.50
3	3	Low maintenance Lead acid secondary cell 2 V / 80 AH (Track feed Battery), shelf mounting type conforming to IRS:S- 88/2004 or latest (uncharged).	Numbers	375.00	1939.30	727237.50
4	4	Adjustable Track Feed Resistance disc type 30 ohms as per RDSO Drg. No. SA 20166/M (Adv.) with latest amendments (with Phenolic molded base).	Numbers	125.00	857.13	107141.25
					Total	1686543.75
Item- 34	Disconnect Terminal Block, Screw less type, as per RDSO Spec. No.RDSO/SPN/189/2004. With the latest amendments.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Disconnect Terminal Block, Screw less type, 4-wire front entry (Two in-put & Two out-put) The color will be decided by Engineer - in - Charge. (Preferably In Blue, Red & Grey Colors in the ratio of 1:2:3). as per RDSO Spec. No. RDSO/SPN/189/2004. With latest amendments.Note- Make to be approved by Railway before supply.	Numbers	30000.00	53.16	1594800.00
2	2	Supply of End plate 2.5mm/0.091 in thick as per site requirement.	Numbers	3000.00	10.05	30150.00
3	3	Supply of End Stopper 10mm/0.0394 in width as per site requirement.	Numbers	3000.00	9.86	29580.00
4	4	Supply of Carrier Rails for above 35 mm x 7.5mm, 1mm/0.039 in thickness un-slotted type as per site requirement.	Numbers	30.00	103.44	3103.20
					Total	1657633.20
Item- 53	Microcontroller based programmable static switching module (Auto changeover) of Reliance Electricals Make or similar, with an at a glance LCD display suitable for break-less switching between two DC supplies as per attached technical specifications.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Upto 40A for 20-110VDC. Model No: RE-SDSM-40.	Numbers	20.00	67886.58	1357731.60
2	2	Upto 70A for 20-110VDC. Model No: RE-SDSM-70.	Numbers	15.00	81962.80	1229442.00
3	3	Upto 40A for 110VAC. Model No: RE-SASM-40.	Numbers	15.00	70737.46	1061061.90
					Total	3648235.50
Item- 66	Provision of Field accessories of DC Track Circuits					

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S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Track Lead Junction Boxes as per C.Rly Drg. No.RST 11509 m a d e f r o m fiber glass/SMC/FRP along with terminal blocks.	Numbers	330.00	963.20	317856.00
2	2	GI wire 8 SWG (4mm Dia) suitable for track circuit rail bonding.	Kg	110.00	58.59	6444.90
3	3	Channel Pins MS (Galvanized) single groove, 7 mm suitable for 4mm Dia bonding wire as per spec No IRS S 17 & RDSO Drg No. S-69/M.	Numbers	5300.00	5.19	27507.00
					Total	351807.90
Item- 69	Supply of of Q series Relay Group for Signals.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	2 Aspects. Group	Numbers	3.00	30000.00	90000.00
2	2	3 Aspects Group	Numbers	4.00	45000.00	180000.00
3	3	4 Aspects. Yard Group	Numbers	4.00	60000.00	240000.00
4	4	4 Aspects. Auto Group	Numbers	4.00	70000.00	280000.00
5	5	Dep.Shunt Signal Group	Numbers	3.00	30000.00	90000.00
6	6	Independent Shunt Group	Numbers	3.00	30000.00	90000.00
7	7	Calling On Group	Numbers	2.00	30000.00	60000.00
8	8	Signal Route Indicator Group 1 Way	Numbers	2.00	30000.00	60000.00
9	9	Signal Route Indicator Group 2 Way	Numbers	3.00	30000.00	90000.00
10	10	Signal Route Indicator Group 3 Way	Numbers	2.00	40000.00	80000.00
					Total	1260000.00
Schedule	Schedule A3-Supply of Items					
Item- 13	"Supply, Errection, Testing and Commissioning of Automatic fire alarm system (AFDS) as per RDSO Specification RDSO/SPN/NEW/2010 Version 3 or Latest. This include one year maintenance of the system. To detect fire/fire like situation, generate audio-visual alarms and send SMS to pre-specified users in such situations. It should be capable of generating requisite command to activate Automatic Fire suppression system, if required. It shall have provision of connecting to data logger. The system shall consist of: 1.A control panel for displaying current status of the system, acknowledging alarms and other functions as per RDSO specs. 2.Heat and Smoke multi sensors for non- air conditioned rooms. 3.Aspirating (air sampling) type smoke detectors for air conditioned rooms. 4.Linear Heat Sensing (LHS) cable or linear heat detector system along with its interface module for cable trays and bunches. 5.Manual Call Points at entry and exit points. 6.UV & IR flame detectors for Diesel Oil Storage rooms. Note a) If more than one control panels are provided, then they should be connected to a"					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Power supply Unit 24VDC, 5 Amps, with two batteries.	Numbers	2.00	27946.80	55893.60
2	2	Control Module to address sounder cum strobe.	Set	2.00	9344.08	18688.16
3	3	Relay module to connect the Data logger to the panel.	Numbers	2.00	10456.32	20912.64
4	4	Zone Interface module.	Numbers	2.00	4769.01	9538.02
5	5	Cable EOL.(1 Nos =30m)	Numbers	8.00	3593.52	28748.16
6	6	Aspirating type (air sampling) for relay room with inbuilt fault isolator.	Numbers	1.00	283550.80	283550.80
7	7	Copper pipe with 25mm Dia and 1mm thickness.	Numbers	400.00	1459.08	583632.00
8	8	U L / E N / F M / V D S / L P C B approved Microprocessor based Networkable Analog addressable and modular type of Fire Alarm Control panel with display, in built changing facility and provision of GSM module suitable to send SMS to configured mobile numbers.	Numbers	2.00	104427.60	208855.20
9	9	Resettable, addressable multisensory (heat and smoke) which is fully compatible with analogue addressable protocol, electronically addressed.	Numbers	32.00	4254.03	136128.96

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10	10	Analogue Addressable, resettable Manual Call point with inbuilt integral short circuit isolator having status LED for alarming & standby mode, Electronically addressed.	Numbers	32.00	5239.19	167654.08
11	11	Analogue type Linear heat sensing (LHS) Cable.	Numbers	600.00	959.97	575982.00
12	12	Liner heat sensing (LHS) interface module.	Numbers	2.00	101368.82	202737.64
13	13	Addressable loop powdered sounder cum Strobe with inbuilt fault isolator.	Each Module	2.00	8555.72	17111.44
14	14	Hooter cum Strobe.	Numbers	2.00	6199.20	12398.40
					Total	2321831.10
Item- 62	Disconnect Terminal Block, Screw less type, as per RDSO Spec. No.RDSO/SPN/189/2004. With the latest amendments.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Disconnect Terminal Block, Screw less type, 4-wire front entry (Two in-put & Two out-put) The color will be decided by Engineer - in - Charge. (Preferably In Blue, Red & Grey Colors in the ratio of 1:2:3). as per RDSO Spec. No. RDSO/SPN/189/2004. With latest amendments.Note- Make to be approved by Railway before supply.	Numbers	1500.00	58.53	87795.00
2	2	Supply of End plate 2.5mm/0.091 in thick as per site requirement.	Numbers	150.00	11.07	1660.50
3	3	Supply of End Stopper 10mm/0.0394 in width as per site requirement.	Numbers	150.00	10.86	1629.00
4	4	Supply of Carrier Rails for above 35 mm x 7.5mm, 1mm/0.039 in thickness un-slotted type as per site requirement.	Numbers	30.00	113.88	3416.40
					Total	94500.90
Item- 63	"Microcontroller based programmable static switching module (Auto changeover) of Reliance Electricals Make or similar, with an at a glance LCD display suitable for break-less switching between two DC supplies as per attached technical specifications."					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Upto 40A for 20-110VDC. Model No: RE-SDSM-40.	Numbers	5.00	74930.00	374650.00
2	2	Upto 70A for 20-110VDC. Model No: RE-SDSM-70.	Numbers	5.00	90466.67	452333.35
3	3	Upto 40A for 110VAC. Model No: RE-SASM-40.	Numbers	5.00	78076.67	390383.35
					Total	1217366.70
Schedule	Schedule B1-Execution items signal					
Item- 2	Design and supply of cable courage plan, location particulars, Cable termination rack particulars, cable meggering report, earth resistance particulars, Traction bonding diagram, 1/2 wire count sheet and any other drawing in AutoCAD in A3/A4 size. The contractor shall initially supply 3 sets of circuits complete for approval of Railways. Railways will return one set to the contractor duly approved with alterations/corrections, if any. The contractor shall incorporate Railway's alterations/corrections in the tracings without any deviation and submit all tracings complete in all respects to the Railways along with PENDRIVE & 4 sets of final approved drawings. This includes designing of cable coreage plan based upon I.P in consultation with engineer-in-charge For small/medium yards.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Station	Station	9.00	60672.35	546051.15
					Total	546051.15
Item- 3	"Preparation of Cable Route Plan of buried S & T Cables using Radio Detector 8200 GS or Similar model GPS Model and DGPS for Per Trench per Km. For existing cables as per the instruction of Engineer in-charge. Submission of report in KMZ file format, Soft Copy Only."					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	In Yard Section	Kilometre	10.00	51422.62	514226.20
2	2	Open Line	Kilometre	25.00	46176.00	1154400.00

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					Total	1668626.20
Item- 5	Foundation, Erection & Installation of CLS without route indicator.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Excavation and Casting of foundation for main signal post as per CSTE/3122 (WR) with contractor's own materials including cement and anchor bolts of standard size. The required scaffolding Ferma etc. for Casting of foundation will have to be brought by the contractor at his own cost.	Numbers	111.00	11759.55	1305310.05
2	2	Erection of CLS Post with base and signal unit on top or on OFF set Bracket, fixing of front and back staging, ladder and guards with contractor's own brackets and fixing materials. This also includes erection of auxiliary signals like calling on, shunt signal if any. The work shall be done as per instructions of Rly engineer at site. It also includes provision & fixing of maintenance platform as per design given by Engineer -In-Charge at site. It also includes supply of padlock for signal units and cable termination box. X' arms to be provided by the contractor till the signals are introduced. The Item includes cutting of Signal post if required by Site Incharge. 2/3/4 aspect signal unit mounted directly on signal post.	Numbers	111.00	7608.76	844572.36
					Total	2149882.41
Item- 8	Foundation, Erection & Installation of Shunt Signal.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Excavation and Casting of foundation for Shunt Signal as per Drg. No. CSTE/6090 with Contractor's own materials including Cement and Anchor Bolts of Standard Size. The required scaffolding, Ferma etc. for Casting of foundation will have to be brought by the Contractor at his own cost.	Numbers	33.00	5848.12	192987.96
2	2	Erection of Position Light Shunt signal with Base, Post, and Signal unit. Wiring & Fixing of Number Plate .The work shall be done as per instructions of Rly engineer at site.	Numbers	33.00	3750.35	123761.55
					Total	316749.51
Item- 21	"Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in- charge. Epoxy paint will be supplied by Railways. NOTE-The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974)."					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Main Signal Post with Signal Units, Surface base and complete fittings as per Western Railways standard practice.	Numbers	111.00	348.73	38709.03
2	2	Shunt signal post with signal unit, surface base as per Western Railway's Standard Practice.	Numbers	18.00	209.06	3763.08
3	3	Track Lead Junction Box. (Black enamel outside only).	Numbers	330.00	60.52	19971.60
					Total	62443.71
Item- 28	Excavation and Casting of Apparatus Case foundation with contractor's own materials including cement and anchor bolts of standard size. The required scaffolding Ferma etc. for Casting of foundation will have to be brought by the contractor at his own cost.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount

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1	1	Single Case as per Drg No SK 748 or CSTE/5074 or SS Location	Numbers	198.00	6755.79	1337646.42
2	2	Half Case as per Drg No SK 747 or CSTE/5074 or SS Location.	Numbers	218.00	5176.15	1128400.70
					Total	2466047.12
Item- 29	Installation of Apparatus Cases with miniature 'E' type lock on CC foundation. This includes filling of location foundations with river bed sand and plastering on top of the sand. 'E' Type lock will be provided by Railway.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Single Case	Numbers	198.00	1015.16	201001.68
2	2	Half Case	Numbers	218.00	619.82	135120.76
					Total	336122.44
Item- 31	Fabrication and fixing of SMC/Hylum sheet in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per Drg and arrangement similar to SK 783-1/2. With latest alterations & as per instructions of Rly engineer at site. Note- SMC sheet will be taken in place of phenolic laminated sheet.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Single Case	Numbers	198.00	2306.46	456679.08
2	2	Half Case	Numbers	218.00	733.60	159924.80
					Total	616603.88
Item- 32	Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in- charge. Epoxy paint will be supplied by Railways. NOTE-The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Apparatus Case Full Size. (Outside & inside)	Numbers	198.00	252.63	50020.74
2	2	Apparatus case Half Size. (Outside & inside)	Numbers	218.00	229.08	49939.44
					Total	99960.18
Item- 46	Installation, Wiring and testing of Integrated Power Supply System. This includes power distribution connection to bus bars and relay racks in the room with contractor's own wiring materials and fabrication and fixing of AC/DC power distribution board made on 8mm thick SMC sheets or any standard make with connections suitable for 32 A. Wiring to be done considering site requirement, depending upon the load with suitable wires, lugs & glands as per instructions of Engineer-in-charge. The work includes installation of ELD's, fixing & wiring of change over switch(program switch) for selection of DG set supply (DG1 & DG2) and wiring of change over switch (program switch) for selection of mains or DG supply. This item also includes supply & fixing of ladder along the wall for carrying power supply wires/cables from IPS room to Relay room/power room etc. Any masonry work required will be carried out by contactors own material.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	IBS/LC gate	Numbers	8.00	27654.88	221239.04
					Total	221239.04
Item- 55	Shifting & Termination of Signaling cables in S&T gears. It involves disconnection of Old main cable and connection of new main cable (during shifting /NI/Pre-NI).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Main Signal	Numbers	40.00	642.93	25717.20
2	2	Shunt Signal	Numbers	12.00	321.90	3862.80
					Total	29580.00
Item- 58	Earthing of armour of quad cables on copper busbar for three layer earthing of quad cables , it included copper strip green earth wire from quad cable armory to copper strip and green earth wire from copper strip to earth rod along with suitable termination material and soldering					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Half location box	Numbers	80.00	8000.00	640000.00
2	2	Full location box	Numbers	75.00	8500.00	637500.00

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						Total	1277500.00
Schedule	Schedule B2-Execution items Telecom						
Item- 8	Supply & Fixing of GI trouphing on girder/ other type bridges in yard and mid sections for carrying telecom cable. This includes supply and fixing of 100mmx50mmx06mm and1. 2 mtr long MS channel .Before installation material inspected by Railway repersentative as site engineer instruction.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	1	supply and fixing of MS channel	Numbers	50.00	502.27	25113.50	
2	2	Supply & fixing of GI trouphing	Running Metre	300.00	727.46	218238.00	
						Total	243351.50
Item- 22	Preparation of cable route of buried S&T Cable using Radio Detector 8200GS or similar model GPS Model and DGPS for Trench per km.for existing cable as per the instruction of Engineer in-charge.Sumission of report in KMZ file formate,soft copy only.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	1	In yard section	Kilometre	20.00	50181.69	1003633.80	
2	2	In open line section. (or other than yard section)	Kilometre	70.00	46176.00	3232320.00	
						Total	4235953.80
Schedule	Schedule B3-Excution Items						
Item- 1	Modification/Alteration in existing EI (Electronic Interlocking) as per latest RDSO guidelines/TAN. It includes- Design and modification in existing Interface and Interlocking circuits and logic of EI system including modification in the VDU(Video Display Unit)/ LCP(Local Control panel)/ CCIP (Control cum Indication Panel), Maintenance terminal (MPC), Data Logger, Relay rack wiring. The complete work should comply with the latest RDSO specifications and guidelines and as per approved SIP and circuit diagrams. All the material (Interface cards / relays / wiring material / connectors fuses/communication devices etc.) shall be provided by the contractor. The work also includes the supply of modified Selection table, InterfaceCircuits, VDU/ LCP/CCIP diagram etc. to suit the modified SIP. It also includes the carrying out of FAT, SAT (as applicable) jointly with Railways and satisfactory commissioning. All plans/drawings/circuits etc. should be prepared on AUTO CAD, soft copy to be supplied on Pen Drive and 06 sets of hard copies also to be supplied.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	1	Alteration more than 20 routes.	Per Route	45.00	313449.10	14105209.50	
						Total	14105209.50
Item- 2	Design of ST/LT/TOC/Square sheet/RCC (Three copy) for approval.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	1	More than four line station	Set	1.00	36186.00	36186.00	
						Total	36186.00
Item- 5	"Design of Miscellaneous diagram consist of Floor Plan of Relay Room , Battery Room, Power Equipment Room, Data logger room, Power Supply Diagrams along with power supply calculation, Earthing Diagram, Power panel diagram, IPS wiring diagram , Auto change over diagram , Block circuit wiring diagram, Digital Axle counter wiring diagram and all other relevant drawings (Three copy) for approval."						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	1	More than four line station	Station	1.00	7697.00	7697.00	
						Total	7697.00
Item- 6	Supply of Completion SIP in Original tracing along with Auto CAD copy in Pen Drive and Six set copies after approval.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	
1	1	More than four line station	Numbers	1.00	970.00	970.00	
						Total	970.00
Item- 7	Supply of completions ST/LT/TOC in original tracing along with AutoCAD copies in Pen Drive and six set copies after approval.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	

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1	1	More than four line station	Numbers	1.00	1044.00	1044.00
					Total	1044.00
Item- 8	Supply of Circuit Diagrams consisting wiring/Logic diagram, contact analysis, fuse detail, Input/output bit chart, VDU diagram, Interface in Auto CAD in Pen Drive and Six set of Copies after approval.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	more than four line station	Station	1.00	29615.00	29615.00
					Total	29615.00
Item- 9	Design and supply SWR Diagram on standard tracing paper of 95grams for each station. Corrected version of SWR plans after checked & approved by Rly's 25 Ferro copies will be supply for each of the plans.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	For stations having more than 4 lines	Numbers	1.00	53506.00	53506.00
					Total	53506.00
Item- 10	Preparation of SWR including supply of SWR booklets (25 Nos. per station).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	For stations having more than 4 lines	Numbers	1.00	82691.00	82691.00
					Total	82691.00
Item- 16	Erection of CLS Post with base and signal unit on top or on OFF set Bracket, fixing of front and back staging, ladder and guards, signal name plates / boards if any with contractor's own brackets and fixing materials. This also includes erection of auxiliary signals like calling on, shunt signal if any. The work shall be done as per instructions of Rly engineer at site. It also includes provision & fixing of maintenance platform as per design given by Engineer -In- Charge at site. The Item includes cutting of Signal post if required by Site In charge.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	"2/3/4 aspect signal unit mounted on offset bracket with junction type route indicator 1/2/3 on multilamp lamp route indicators mounted on signal post"	Numbers	4.00	3059.68	12238.72
2	2	2/3/4 aspect signal unit mounted mounted directly on signal post	Numbers	5.00	8338.74	41693.70
					Total	53932.42
Item- 29	Installation of NE type Full apparatus case and Excavation and Casting of Apparatus Case foundation with contractor's own materials including cement and anchor bolts of standard size. The required scaffolding Ferma etc for Casting of foundation will have to be brought by the contractor at his own cost.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	"Single Case as per Drg No SK 748 or CSTE/5074"	Numbers	12.00	8238.92	98867.04
2	2	Half Case as per Drg No SK 747or CSTE/5074 or SS Location	Numbers	10.00	6145.01	61450.10
					Total	160317.14
Item- 30	Fabrication and fixing of phenolic laminated sheet of size 10mm thick in location box by providing all fixtures as per Railway Drawing including fixing of PVC coated string rods at the back side for cable support with contractor's own materials. The work shall be done as per drg and arrangement similar to SK 783-1/2. with latest alterations & as per instructions of Rly engineer at site.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Single Case	Numbers	12.00	2445.36	29344.32
2	2	Half Case	Numbers	10.00	777.78	7777.80
					Total	37122.12
Item- 44	"Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in- charge. Epoxy paint will be supplied by Railways. NOTE-The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974)."					

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S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Main Signal Post with Signal Units, Surface base and complete fittings as per Western Railways standard practice.	Numbers	9.00	382.17	3439.53
2	2	Shunt signal post with signal unit, surface base as per Western Railway's Standard Practice.	Numbers	1.00	231.00	231.00
3	3	Track Lead Junction Box. (Black enamel outside only).	Numbers	100.00	65.78	6578.00
4	4	Point Machine with ground connections complete (Point Machine with Black enamel only outside and ground connections with Red Oxide).	Numbers	6.00	112.56	675.36
5	5	LC Gate	Numbers	2.00	7522.08	15044.16
					Total	25968.05
Item- 45		Painting of two coats of synthetic enamel paint over one coat of primer on the following after scraping & cleaning surface wherever necessary with contractor's own supply of paints. Wherever required contractor shall apply coating of epoxy paint also as per instructions of site-in- charge. Epoxy paint will be supplied by Railways. NOTE-The paint and primer should be from Asian Paints/ Nerolac / Dulux / Berger. The primer / enamel paints (Aluminum synthetic, black enamel, brilliant white and yellow) will be as per (IS 5660 of 1970) / (IS 2932 of 1974).				
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1	Apparatus Case Full Size. (Outside & inside)	Numbers	12.00	276.86	3322.32
2	2	Apparatus case Half Size. (Outside & inside)	Numbers	10.00	251.05	2510.50
					Total	5832.82

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

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have minimum average annual contractual turnover of V/N or V whichever is less; where V= Advertised value of the tender in Crore 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.	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	The tenderer must have successfully completed or substantially completed anyone 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 .(ii) Two similar works each costing not less than the amount equal to 40% of advertised value of the tender(iii) One similar work costing not less than the amount equal to 60% of advertised value of the tender	No	No	Allowed (Mandatory)

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

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2	For Schedule- A1,A3 & B1,B3- "Any Signalling work involving Outdoor work and/or addition and/or alteration in existing Indoor signalling system. OR Any CLS or RI or EI or TPWS or IBS or IBS or BPAC work involving Indoor and/or Outdoor. Similar work to include indoor if the tendered work involves addition and/or alteration in existing Indoor Signalling system and Outdoor if the tendered work involves Outdoor work. OR Any such work involving activities as given in the name of the tendered work". For Schedule A2 and B2- "Any Telecom Work".	No	No	Allowed (Mandatory)
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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)

General Instructions

**DYCSTE-C-BRC-S AND T/WESTERN RLY
TENDER DOCUMENT**

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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per " Tender Documents" Attached	No	No	Not Allowed

Special Conditions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per " Tender Documents" Attached	No	No	Not Allowed

Technical-Compliances

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

6. Documents attached with tender

S.No.	Document Name	Document Description
1	Tenderdocument156RevisedUpdated_compressed1.pdf	tender document

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: HEMANT KUMAR MAHAWAR

Designation : Dy.CSTE/C/BRC