**Tender No:** JBP-SnT-CONST-TENDER-132 **Closing Date/Time:** 15/01/2025 15:00

**Dy.CSTE/C/JBP** acting for and on behalf of The President of India invites E-Tenders against Tender No **JBP-SnT-CONST-TENDER-132** Closing Date/Time 15/01/2025 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	Supply, Installation, Testing and Commissioning of Integrated Tunnel Communication Systems, OFC/quad/leaky cable & provision of Emergency Call Points etc in tunnels and stations in connection with New Broad Gauge line in REWA-SIDH section of Jabalpur Division in West Central Railway							
Bidding type	Normal Tender							
Tender Type	Open	Bidding System	Two Packet System					
Tender Closing Date Time	15/01/2025 15:00	Date Time Of Uploading Tender	18/12/2024 16:12					
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable					
Advertised Value	124065804.42	Tendering Section	WORKS					
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par					
Earnest Money (Rs.)	770300.00	Validity of Offer ( Days)	90					
Tender Doc. Cost (Rs.)	0.00	Period of Completion	12 Months					
Contract Type	Works	Contract Category	Expenditure					
Bidding Start Date	01/01/2025	Are Joint Venture (JV) firms allowed to bid	Yes					
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	
Schedu	ıle A-Sup	ply Portion					104779989.80		
	1	3.00	Numbers	5310450.07	15931350.21	AT Par	15931350.21		
1	<b>Description:-</b> Supply of Master Unit for VHF simplex system as per RDSO specifications RDSO/SPN/TC/109/2023 Ver 1.0 with latest Amendment/Revision, to be provided at each stat and/or in between two tunnels (wherever isolation is available to provide coverage in between tunification if required). The Master Unit will consists of (a) Off Air Channelised repeater (Bi-Directional Amplification VHF simplex system and (b) Supply of Optical converted unit of Master Unit for VHF simplex system having suitable number of ports to connect required number of remote units through optifibres. Note:Railway Envisaged One Master Unit for each station which should be able to cover all tunnels of one block section in redundant mode. Contractor is free to use as any number of optinits to provide sufficient number of ports for complete section for complete Radio coverage mentioned in scope of work. Master unit can be either single unit or separate units of OMU and Off Channelized repeater. INSPECTION by RITES								
	2	10.00	Numbers	1929049.71	19290497.10	AT Par	19290497.10		
2	Unit co amendn	nnections a nent/Revisior	s per RDS n. One ORU	O specificatio should be able	n No. RDSO/SF	N/TC/109/ mum thre	th Main and Stand 2023 Ver 1.0 v e OMUs (two at st ES	vith latest	
	3	1.00	Numbers	572579.47	572579.47	AT Par	572579.47		
3	Commu	nication Syst	em, includin	ig all hardware		per techn	ng system for VHF ical specification a		
	4	11.00	Kilometre	799120.00	8790320.00	AT Par	8790320.00		
Description:- Supply of 7/8" Leaky Radiating Cable Fire Retardant Low Smoking Zer							o Halogen ith latest		
	5	3.00	Kilometre	224760.66	674281.98	AT Par	674281.98	_	
5				Feeder Cable a		specification	on attached in Cha	apter - 2 of	
	6	120.00	Numbers	279.69	33562.80	AT Par	33562.80		
6									

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	<b>Description:-</b> Supply of N-Type Connectors for 1/2" RF Cable as per technical specification attac in Chapter - 2 of Part - II in tender document. INSPECTION BY CONSIGNEE	ned
	7 100.00 Numbers 3609.03 360903.00 AT Par 360903.00	
7	<b>Description:-</b> Optical/CAT6 Patch cords with connectors as per OEM requirement- 10 M INSPECTION BY CONSIGNEE	ltrs.
	8 120.00 Numbers 279.69 33562.80 AT Par 33562.80	
3	<b>Description:-</b> Supply of N-Type Connectors for 7/8" Radiating cable as per OEM requiremen compatible with item No. 4 as per technical specification attached in Chapter - 2 of Part - II in ter document. INSPECTION BY CONSIGNEE	
	9 4000.00 Numbers 449.51 1798040.00 AT Par 1798040.00	
9	<b>Description:-</b> Supply of Stainless Steel Clamps for 7/8" Radiating Cable anchored using SS Bolts SS Anchor Fasteners (Stainless steel" shall be a Cr Ni-Mo alloy or Cr-Ni-Mo-Ti alloy, material 1.4404 or 1.4571 according to EN 10088 resp. 316 S 11 or 320 S 31 according BS) as per techr specification attached in Chapter - 2 of Part - II in tender document. INSPECTION BY RITES	No.
	10 3.00 Numbers 429632.88 1288898.64 AT Par 1288898.64	
10	<b>Description:-</b> Supply of Voice Recording equipment as per RDSO Specification RDSO/SPN/TC/038/2002 with latest Amendment/Revision . INSPECTION BY RITES	No.
	11 15000.00 Numbers 349.62 5244300.00 AT Par 5244300.00	
11	<b>Description:-</b> Supply of Nylon Clamps for 7/8" Radiating Cable using Stainless Steel Self-Ancho Expansion Bolts as per technical specification attached in Chapter - 2 of Part - II in tender docume INSPECTION BY RITES	
	12 100.00 Numbers 1211.67 121167.00 AT Par 121167.00	
12	<b>Description:-</b> Supply of Jumper Cables 1 mtr in 1/2"SF Cable with N-N /DM NM terminations as OEM of approved make as per technical specification attached in Chapter - 2 of Part - II in ter document. INSPECTION BY CONSIGNEE	
	13 40.00 Numbers 16842.45 673698.00 AT Par 673698.00	
13	<b>Description:-</b> Supply of 2 way splitter for leaky cable connection/Adjustment as per techr specification attached in Chapter - 2 of Part - II in tender document. INSPECTION BY RITES	nical
	14 20.00 Numbers 16842.45 336849.00 AT Par 336849.00	
14	<b>Description:-</b> Supply of 30 db coupler for coupling of Rf feeder cable as per technical specifica attached in Chapter - 2 of Part - II in tender document. INSPECTION BY CONSIGNEE	tion
15	15   8.00   Numbers   9623.40   76987.20   AT Par   76987.20	
	Description:-Supply of RF lighting and Surge Arrestor protection . INSPECTION BY CONSIGNEE1614.00Numbers24972.50349615.00AT Par349615.00	
16	Description:- Supply of Log-Periodic Antenna in VHF Frequency Band as per technical specifica	tion
	attached in Chapter - 2 of Part - II in tender document. INSPECTION BY CONSIGNEE	
17	17 10.00 Numbers 3609.03 36090.30 AT Par 36090.30	
	Description:- 10W Termination Load (PIM<=-150) for termination of leaky cable.as per techn specification attached in Chapter - 2 of Part - II in tender document. INSPECTION BY CONSIGNEE	ıcaı
	18   2.00   Section   22/337.41   433114.82   AT Pai   433114.82	
18	<b>Description:-</b> The system Architecture/Technical Design document conforming to the Functio Technical and System requirements outlined in the technical specifications and documentation al with the project team/interfacing and client discussions will be created and the design document be formally submitted for in-principle approval of Railways. This also includes defining the finis design within the Scope of Rail Parameters, Complete Site Survey Report with system value parameters, block diagrams, diagrams, drawings, flow charts, location-wise equipment details and technical data for Tunnel Communication/VHF system is to be submitted by the executing age before supply. The system design prepared and presented by the executing agency should	ong will shed ues, etc. ency
	approved by Dy CSTE/Construction/WCR. Any changes required in the design after installation testing will be incorporated and submitted to the Railways for approval (payment should be made once for each block section). Note :- Networking Infrastructure, PA and Communication Syste Complete site survey report with technical data is to be submitted by the executing agency be supply.) INSPECTION BY CONSIGNEE	and only em (
	19   300.00   Metre   1388.03   416409.00   AT Par   416409.00	
19	<b>Description:-</b> Supply of self support mast/Complete Triangular 11" or higher Lattice (Guyies) Massembly along with mast mounting unit consists of: (a) Supply of Triangular 11" or higher Lat (Guyies) Mast/ Self Supported Mast Assembly with sections of approx 03 mtr. each (b) MS pipes IS certification of outer diameter of 1" or higher should be used. As per attached drawing. INSPECT BY CONSIGNEE	tice with
	20 2135.00 Metre 20.26 43255.10 AT Par 43255.10	
20		

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	<b>Description:-</b> Supply of Armoured LSZH Cat 6A S/FTP Cable complete broadly conforming to RDSO standard RDSO/SPN/TC/65/2019 Rev.5 or latest. This item to be supplied with prior permission from Officer in charge as per the requirement at site. INSPECTION BY CONSIGNEE
	21 15000.00 Metre 53.89 808350.00 AT Par 808350.00
21	<b>Description:-</b> Supply of 3 core 2.5 Sq.mm multi strand copper conductor, of reputed make (Finolex/polycab/Havells or similar). This item to be supplied with prior permission from Officer in charge as per the requirement at site. INSPECTION BY CONSIGNEE
	22 2.00 Per Unit 5750010.00 11500020.00 AT Par 11500020.00
22	<b>Description:-</b> Supply of Emergency Call, Service Telephone and PA system Hardware controller, with all required accessories as per technical specification attached in Chapter - 2 of Part - II in tender document. The System should function as one network giving redundancy to server provided at other station Per Unit = Each Tunnel. INSPECTION BY RITES
	23 4.00 Numbers 134167.48 536669.92 AT Par 536669.92
23	<b>Description:-</b> Supply of Desktop Call Station, full IP based handset and microphone, functional keys as per technical specification attached in Chapter - 2 of Part - II in tender document etc all complete. INSPECTION BY RITES
	24 18.00 Numbers 167400.00 3013200.00 AT Par 3013200.00
24	<b>Description:-</b> Supply of Emergency Audio & Video call station with two buttons rugged industrial grade suitable for tunnel applications as per technical specification attached in Chapter - 2 of Part - II in tender document. INSPECTION BY RITES
	25 60.00 Numbers 78722.79 4723367.40 AT Par 4723367.40
25	<b>Description:-</b> Supply of IP Horn Type PA Speaker, with mounting arrangement and all accessories etc all complete as per technical specifications attached in Chapter - 2 of Part - II in tender document. The material should be corrosion free. INSPECTION BY RITES
26	26 3.00 Numbers 36175.65 108526.95 AT Par 108526.95
	<b>Description:-</b> Supply of Amplifier 2400W ahuja LXA 2400 or equivalent . INSPECTION BY CONSIGNEE
27	Please see Item Breakup for details. 150557.80 AT Par 150557.80
	Description:- Supply of PA Amplifier INSPECTION BY CONSIGNEE
	28 8.00 Numbers 262057.71 2096461.68 AT Par 2096461.68
28	<b>Description:-</b> Supply of Thermal & Optical Bi-spectrum Network Bullet Camera (at tunnel faces) as per technical specification attached in Chapter - 2 of Part - II in tender document and compatible with VSS Network. INSPECTION BY RITES
	29 300.00 Numbers 1770.00 531000.00 AT Par 531000.00
29	<b>Description:-</b> Supply of Surge protection device (including all accessories) RJ45 POE-ODR (outdoor) Suitable for use with surveillance cameras, access points, and other Ethernet-equipped device. The device should be suitable for outdoor use. Module- JMV/RJ45 POE-ODR or similar. INSPECTION BY CONSIGNEE
	30 6.00 Numbers 50367.44 302204.64 AT Par 302204.64
30	<b>Description:-</b> Supply of covered 19" Racks of size 2200 mm X 600 mm X 600 mm, Make: WQ/Vero President/Rittal/APC/Saraswat or similar or better, complete with all fittings including DC Fans (48 V) - 2 Nos, LED lights, seperator sheet/plate to keep testing equipments - 1 No and AC Power distribution panel (horizontal fitting) with power sockets and fuse/MCB protection (minimum 6 Nos of 230V-15A/5A. combined) and other accessories. Rack should have compatibility with all equipment conforming to DIN 41494 or equivalent EIA/ISO/EN standard, Manufacturer must certify that products are compied with DIN41494 or equivalent EIA/IISO/EN/CEA/UL standards. INSPECTION BY CONSIGNEE.
	31 2.00 Set 138997.90 277995.80 AT Par 277995.80
31	<b>Description:-</b> Supply of VRLA fully charged battery 48 V DC /300 AH (stackable) as per IRS:S-93/96(A)(amd-1) or latest. INSPECTION by RITES
32	Description:- Supply of SMPS based 48 V(2+1) FR/FC module,25 Amp single phase 230 V ,AC operated battery charger for telecom use as per RDSO /SPN/TC/102-2013 (ver.0.0) with latest amendment ,in N+2 configuration i.e using 4 module of 12.5 Amp with automatic switching between the module suitable for one set.It shall be equipped with surge and lighting protection of class B and C along with instruction and service manual. INSPECTION BY RITES
	33 1525.00 Metre 55.32 84363.00 AT Par 84363.00
33	<b>Description:-</b> Supply of switch board cable 0.5 mm/10 pair of Finolex/Bhansali / Delton make or Similar . INSPECTION BY CONSIGNEE
34	34 5.00 Numbers 1043.76 5218.80 AT Par 5218.80
	Description:- Supply of Krone tool. INSPECTION BY CONSIGNEE
	35   16.00   Numbers   117396.34   1878341.44   AT Par   1878341.44
35	<b>Description:-</b> Supply & installation of Fiber Distribution management system as per RDSO Specification No.RDSO/SPN/TC-37-2000(Ver.3) with latest Amendments as on the date of opening of tender (It includes the supply of 19" 12U rack with mounting arrangements. INSPECTION BY RITES

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	36 16.00 Numbers 85674.54 1370792.64 AT Par 1370792.64
	Description:- Supply, installation and programming of integrated Access Multiplexer 1U height,19"
	rack mountable with 4 DTE interface and one (V.21/V23) module supporting eight V21/V23
36	interface(2W/4W0,one talent port, one slot with low speed data interface RS -232, V24 of 8 port
	supporting baud rate as per technical specification in the annexure, one slot free, unit to support both AC/DC power supply, cable 50 pin SCSI connecters one number included, MROTEK Model MAPLE-4C or
	equivalent as per technical details Annexure " MAPLE". INSPECTION BY RITES
	37 6.00 Numbers 18343.49 110060.94 AT Par 110060.94
37	<b>Description:-</b> Supply of Ultra isolation transformer 230/230-1.5 KVA with MOVR protection on either
57	side to provide "X" protection and supply of crow bar surge protection circuit for 48 V DC side to provide "y' protection. INSPECTION BY CONSIGNEE
	38 16.00 Numbers 4624.38 73990.08 AT Par 73990.08
38	<b>Description:-</b> Supply and installation of class-B type lightening arrester for single phase supply along with class-c type surge arrester for single phase supply as per WC railway specification No WCR/SPN/Tele/08/01. INSPECTION BY CONSIGNEE
	39 10.00 Kilometre 81733.73 817337.30 AT Par 817337.30
	Description:- Supply of permanently lubricated HDPE pipe 40/33mm dia. As per RDSO specifications
39	no. RDSO/SPN/TC/45/2013 with latest Amendment/Revision, suitable for armoured 24 fiber OFC cable with end cap, as required for the OFC system ( NOTE: At a time, the contractor will have to supply according to the requirement of the site with the approval of officer-in-charge). INSPECTION BY RITES
40	40 25.00 Numbers 40.17 1004.25 AT Par 1004.25
+0	Description:- End plug of HDPE pipe . INSPECTION BY CONSIGNEE
41	41 40.00 Numbers 54.39 2175.60 AT Par 2175.60
	Description:- Plastic coupler for HDPE pipe . INSPECTION BY CONSIGNEE
42	42   2.00 Numbers 1613.49 3226.98 AT Par 3226.98
	<b>Description:-</b> Rotary duct cutter for HDPE pipe. INSPECTION BY CONSIGNEE
43	43   40.00 Numbers 54.39 2175.60 AT Par 2175.60
-	Description:- Cable sealing plug for HDPE pipe. INSPECTION BY CONSIGNEE
	44   180.00   Metre   284.11   51139.80   AT Par   51139.80
44	<b>Description:-</b> Supply of DWC HDPE pipe with one snap fit coupler and 'O' ring conforming to IS 14930 (part 2:2001), Non metallic, normal duty, pliable, without protection against chemical attack and fire resistant, anti rodent, in 6 meter length of size 120 mm outer dia & 103.5 mm inner dia. INSPECTION BY CONSIGNEE
	45 1800.00 Metre 1207.67 2173806.00 AT Par 2173806.00
	Description:- Supply of 100 mm GI pipe medium grade of IS specification No 1239 (pt-1) 2004 or
45	latest with sockets and fittings, nominal dia 100mm outside dia (Max 115.0mm, Min 113.1mm), Thickness (4.5mm), Mass plain end (12.2Kg/m), Mas Screwed and socketed (12.5 Kg/m), Tolerance in Thickness {(+) not limited, (-) 12.5 percent)} and Tolerance in Mass (+ 10 %, - 10%). INSPECTION BY RITES
	46 30.00 Numbers 4997.50 149925.00 AT Par 149925.00
46	<b>Description:-</b> Supply of 24-fiber armoured optic fiber straight joint enclosure (SJC) complete with all accessories as per RDSO/SPN/TC/68/2007 with latest Amendments. INSPECTION BY CONSIGNEE
	47 4.00 Numbers 15504.38 62017.52 AT Par 62017.52
47	<b>Description:-</b> Supply of office Table similar to model 'T-104' Godrej make-or similar. Dotted embossed cable duct and perforated steel modesty panel on visitors side. All steel components are epoxy powder coated after seven tank corrosion treatment of surface with three drawer on both side. Godrej or similar. INSPECTION BY CONSIGNEE
	48 4.00 Numbers 14072.95 56291.80 AT Par 56291.80
48	<b>Description:-</b> Supply of revolving chair similar to Godrej Greta 2.0 High Back . Make: Godrej or Similar. INSPECTION BY CONSIGNEE
	49 4.00 Numbers 20145.63 80582.52 AT Par 80582.52
49	<b>Description:-</b> Steel Almirah of size 1980H x 915 W x 485 D with 4 adujstable panels making 5 shelves (without locker for office use). Almirah shall be made from CRCA steel sheet of 20 gauge ( for panel partition). Almirah shall be 100% epoxy powder coated Make Godrej or equivalent. INSPECTION BY CONSIGNEE
	50 36.00 Numbers 1578.38 56821.68 AT Par 56821.68
50	<b>Description:-</b> Supply of VF tapping transformer as per IRS/TC/22/76 of impedance ratio -600:470 . INSPECTION BY CONSIGNEE
	51 50.00 Numbers 1986.34 99317.00 AT Par 99317.00
51	<b>Description:-</b> Supply of One Quad V.F. 2-T Transformer joint assembly of VF Transformers /1120:470 as per IRS/TC/76/2000. INSPECTION BY CONSIGNEE
	52 7000.00 Metre 30.82 215740.00 AT Par 215740.00

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	<b>Description:-</b> Supply of 1 x 6 Sqmm (Red/Black/Green) multi strand copper power wire as IS:694:2010 or latest, 84 conductor each dia 0.30 +/- 0.01 with insulation thickness of 0.8 mm is period conductor registers of 3.3 chms/km and text personators as per RDSO Specifical Residual
	nominal conductor resistance of 3.3 ohms/km and test parameters as per RDSO Specn.No.IRS:S-76 (Amnd.3) or latest. Colour of the wire which is required will be specified by the Engineer inchar INSPECTION BY CONSIGNEE
	53   30.00 Numbers 5225.01 156750.30 AT Par 156750.30
53	<b>Description:-</b> Supply of 6U, 19" covered Rack with (1) front side transparent door with I arrangement(2) cable organizer (3) provision of one no. of power supply (each consists of 6 No 15A/15A multipin sockets with ON/OFF switch and fuse arrangement) strip HCL or Rittel or APW President od D-Link or Similar) INSPECTION BY CONSIGNEE
	54 5.00 Per Unit 10061.80 50309.00 AT Par 50309.00
54	<b>Description:-</b> Supply of CAT-6 500 MHz STP cable roll of 305 meter length/roll/bundle, compliant w latest EIA/TIA-568-B-2-1 standard. Make - AAMBERNET /DC6C / AUTP4P3X, DIGILINK or similar. Per Length = Per Bundle. INSPECTION BY CONSIGNEE
	55 18.00 Numbers 10250.10 184501.80 AT Par 184501.80
55	<b>Description:-</b> "Supply of IP 66 Cabinet for the installation of Emergency Audio call station with required accessories, Certified by manufacturer as per technical specification attached in Chapter of Part - II in tender document. INSPECTION BY CONSIGNEE.
	56 6.00 Set 443263.96 2659583.76 AT Par 2659583.76
56	<b>Description:-</b> Supply, Installation and Commissioning of 2x10 KVA On-line UPS at least 2 H Backup in full load condition, connected in parallel redundant mode. Complete with all accessories per specification attached. This also includes supply of two set MF batteries of suitable AH capac Rack, One set compatible MCBs, complete with cover & fixing materials, One Earth leakage circles breaker arrangement. INSPECTION BY RITES
	57 9000.00 Metre 45.40 408600.00 AT Par 408600.00
57	Description:- Supply of PVC conduit pipe 1" diameter or better( medium grade-1.4 mm the minimum) of ISI marked of reputed brand. INSPECTION BY CONSIGNEE581.00Numbers962095.78962095.78AT Par962095.78
58	backup, high precision fibre cleaver, stripping tool and other compatible accessories of Fuzikura model. No. FSM-50S or equivalent model of Fuzitsu or Siemens or latest along with sufficient no. of specification sleeves and bottle of isopropyl alcohol to be supplied for test splice. As per specification No GR/OSM/01/03 APR 2005 with latest amendments in force at the time of ten opening. INSPECTION BY RITES
	59   1.00 Numbers 689856.30 689856.30 AT Par 689856.30
59	Description:- Supply of Mini OTDR MTS-5100 suitable for 1310/1550 nm fibre with resolution of cm dynamic range of 31/29 db or better with all accessories, USB drive with a flash ROM of minim 1Gb, AC adaptor/Charger, Rechgeable battery, Manuals, Hard and Soft carrying case etc as per specification No TEC/GR/TX/OTD 01/04 APR 2010 with latest amendments in force at the time tender opening. INSPECTION BY CONSIGNEE
59	<b>Description:-</b> Supply of Mini OTDR MTS-5100 suitable for 1310/1550 nm fibre with resolution of cm dynamic range of 31/29 db or better with all accessories, USB drive with a flash ROM of minim 1Gb, AC adaptor/Charger, Rechgeable battery, Manuals, Hard and Soft carrying case etc as per specification No TEC/GR/TX/OTD 01/04 APR 2010 with latest amendments in force at the time
59 60	<b>Description:-</b> Supply of Mini OTDR MTS-5100 suitable for 1310/1550 nm fibre with resolution of cm dynamic range of 31/29 db or better with all accessories, USB drive with a flash ROM of minim 1Gb, AC adaptor/Charger, Rechgeable battery, Manuals, Hard and Soft carrying case etc as per specification No TEC/GR/TX/OTD 01/04 APR 2010 with latest amendments in force at the time tender opening. INSPECTION BY CONSIGNEE
	Description:- Supply of Mini OTDR MTS-5100 suitable for 1310/1550 nm fibre with resolution of cm dynamic range of 31/29 db or better with all accessories, USB drive with a flash ROM of minim 1Gb, AC adaptor/Charger, Rechgeable battery, Manuals, Hard and Soft carrying case etc as per 1 specification No TEC/GR/TX/OTD 01/04 APR 2010 with latest amendments in force at the time tender opening. INSPECTION BY CONSIGNEE604.00Set172546.79690187.16AT Par690187.16Description:- Supply of remote service terminal (with Laser Printer) fully compatible with Tun Communications service terminal shall be for any location as per Chapter - 2 of Part - II in ten document. INSPECTION BY CONSIGNEE.6112.00Numbers8334.38100012.56AT Par100012.56
	Description:- Supply of Mini OTDR MTS-5100 suitable for 1310/1550 nm fibre with resolution of cm dynamic range of 31/29 db or better with all accessories, USB drive with a flash ROM of minim 1Gb, AC adaptor/Charger, Rechgeable battery, Manuals, Hard and Soft carrying case etc as per 1 specification No TEC/GR/TX/OTD 01/04 APR 2010 with latest amendments in force at the time tender opening. INSPECTION BY CONSIGNEE  60 4.00 Set 172546.79 690187.16 AT Par 690187.16  Description:- Supply of remote service terminal (with Laser Printer) fully compatible with Tun Communications service terminal shall be for any location as per Chapter - 2 of Part - II in ten document. INSPECTION BY CONSIGNEE.
60	Description:- Supply of Mini OTDR MTS-5100 suitable for 1310/1550 nm fibre with resolution of cm dynamic range of 31/29 db or better with all accessories, USB drive with a flash ROM of minim 1Gb, AC adaptor/Charger, Rechgeable battery, Manuals, Hard and Soft carrying case etc as per 1 specification No TEC/GR/TX/OTD 01/04 APR 2010 with latest amendments in force at the time tender opening. INSPECTION BY CONSIGNEE  60 4.00 Set 172546.79 690187.16 AT Par 690187.16  Description:- Supply of remote service terminal (with Laser Printer) fully compatible with Tun Communications service terminal shall be for any location as per Chapter - 2 of Part - II in ten document. INSPECTION BY CONSIGNEE.  61 12.00 Numbers 8334.38 100012.56 AT Par 100012.56  Description:- Supply of office /visitor chair with seat padded with polyurethane foam visitor. The chairs should be non revolving type and the arms of chair should have cover for suitable length Make: Godrej or Similar. Model No PCH7003, For Government Office,Offices, Size: 55w X 61d X 800
60	Description:- Supply of Mini OTDR MTS-5100 suitable for 1310/1550 nm fibre with resolution of cm dynamic range of 31/29 db or better with all accessories, USB drive with a flash ROM of minim 1Gb, AC adaptor/Charger, Rechgeable battery, Manuals, Hard and Soft carrying case etc as per 1 specification No TEC/GR/TX/OTD 01/04 APR 2010 with latest amendments in force at the time tender opening. INSPECTION BY CONSIGNEE  60
60	Description:- Supply of Mini OTDR MTS-5100 suitable for 1310/1550 nm fibre with resolution of cm dynamic range of 31/29 db or better with all accessories, USB drive with a flash ROM of minim 1Gb, AC adaptor/Charger, Rechgeable battery, Manuals, Hard and Soft carrying case etc as per 1 specification No TEC/GR/TX/OTD 01/04 APR 2010 with latest amendments in force at the time tender opening. INSPECTION BY CONSIGNEE  60
60	Description:- Supply of Mini OTDR MTS-5100 suitable for 1310/1550 nm fibre with resolution of cm dynamic range of 31/29 db or better with all accessories, USB drive with a flash ROM of minim 1Gb, AC adaptor/Charger, Rechgeable battery, Manuals, Hard and Soft carrying case etc as per 1 specification No TEC/GR/TX/OTD 01/04 APR 2010 with latest amendments in force at the time tender opening. INSPECTION BY CONSIGNEE  60
61	Description:- Supply of Mini OTDR MTS-5100 suitable for 1310/1550 nm fibre with resolution of cm dynamic range of 31/29 db or better with all accessories, USB drive with a flash ROM of minim 1Gb, AC adaptor/Charger, Rechgeable battery, Manuals, Hard and Soft carrying case etc as per 1 specification No TEC/GR/TX/OTD 01/04 APR 2010 with latest amendments in force at the time tender opening. INSPECTION BY CONSIGNEE  60

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	Description:- Supply of PC WorkStation for Viewing, Monitoring and System Management Specification in Technical Document].RDSO Spec No. RDSO/SPN/TC/65/2021, Rev 6.0 INSPECTION BY RITES						t [Detaile or latest	
	65	2.00	Set	3301809.44	6603618.88	AT Par	6603618.88	
65	RDSO/S includes all acces	PN/TC/65/202 supply and	21, Rev 6.0 installation or red for re	or latest with of Matrix switcl llation as per to	HDMI and DVI F h/Controller, Cab	orts comp les etc an	Nos.) as per RDSo plete with all acce d LED wall Mount/ hed in Chapter - 2	essories. stand ar
	66	13.00	Numbers	80839.68	1050915.84	AT Par	1050915.84	
56	Descrip	otion:- Supp	ly of Power	Backup provisi	on for Master ur	nit & Optic	al Remote unit as NSPECTION BY RIT	
	67	10.00	Numbers	78734.39	787343.90	AT Par	787343.90	
57	phase A		loor Mounte	d Type with se			ansformer suitable atteries complete	
	68	35.00	Numbers	16971.84	594014.40	AT Par	594014.40	
58	10/100/ clause 1	1000 MBPS v 13.0 of RDSO	with 2 nos.10 /SPN/TC/65/2	0/100/1000 Ba	se-T/SFP port wit or latest & as pe	h supply o	8 ports PoE L-2 of 02 nos.SFP mod .0 of RDSO/SPN/TO	dule as p
,	69	55.00	Numbers	4320.00	237600.00	AT Par	237600.00	
59	camera, (Side A	6U/9U rack	$\overset{\circ}{\&}$ other safess 0.3 mm,	ety equipment Mesh ( 0.1 m	. Size 0.7 meter	rs(L)x0.45	door for Horn, spe meters(W)x0.45 ( ige 0.3 mm) or a	meters (
	70	18.00	Numbers	2976.00	53568.00	AT Par	53568.00	
70	safety e mm, Mo CONSIG	quipment. S esh (0.1 m NEE	ize 0.350 me x 0.1 m) r	eters(L)x0.140 od gauge 0.3	meters(W)x0.45 mm ) or as p	0 meters ( er site re	door for SOS Pho H) (Side Angle thi equirement. INSPE	ckness 0 ECTION I
71	71   6.00   Numbers   30000.00   180000.00   AT Par   180000.00    Description:- Supply of Material, fabrication, and installation of safety door for VHF Set Power su unit with dimensions of 2.87 meter in height, 1.99 meter in width and length 0.60 meter ( Side A thickness 0.5 mm (Inside Mesh (0.1 m x 0.1 m), (rod gauge 0.8 mm) or as per site requirem							
		ss 0.5 mm ( TION BY CON	Inside Mesh					
			Inside Mesh		m), (rod gauge	0.8 mm)	or as per site re	
72	72  Description height, Angle the	29.00 29.00	Inside Mesh SIGNEE  Numbers  ly and insta length , 0.4 mm (Inside N	9000.00  llation of a cometer in dept	m), (rod gauge  261000.00  vered rack for a h to be placed ii	0.8 mm)  AT Par  UPS with uside the t	or as per site re	quiremer  0 meter stem ( Sic
	72  Description height, Angle the	29.00 <b>ation:-</b> Supp 0.7 meter in nickness 0.5	Inside Mesh SIGNEE  Numbers  ly and insta length , 0.4 mm (Inside N	9000.00  llation of a cometer in dept	m), (rod gauge  261000.00  vered rack for a h to be placed ii	0.8 mm)  AT Par  UPS with uside the t	261000.00 dimensions of 1.cunnel for VHF sys	quiremer  0 meter stem ( Sie
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Ь	<b>Description:-</b> "Installation, Testing and commissioning of IP Horn Type PA Speaker, with mounting arrangement and all accessories etc all complete as per technical specifications. The material should be corrosion free.						
	7 18.00 Numbers 1138.90 20500.20 AT Par 20500.20						
7	<b>Description:-</b> Installation, Testing and commissioning of IP 66 Cabinet for the installation o Emergency Audio call station.						
	8 6.00 Numbers 16735.57 100413.42 AT Par 100413.42						
8	<b>Description:-</b> Installation, wiring and testing of battery sets and battery chargers for optic fibric circuits. This includes installation of AC and DC power supply distribution board with MCB's of suitable rating, wiring of external alarm contacts, Fixing arrangements for battery and charger in the equipment room with 25 sq.mm Multistrand single core Copper cable PVC insulated from Battery charger to Battery with suitable copper lugs crimped/soldered to it, 16 sq.mm Multistrand single core Copper cable PVC insulated from battery charger to power distribution panel in the rack with suitable copper lugs crimped/soldered to it. Connection from Battery Charger body and battery+ve terminal the Earth terminal by 16 Sq.mm Multistrand single core Copper cable PVC insulated seperately with suitable copper lugs crimped/soldered to it and Extension of AC 230V power supply wiring throug PVC pipe with 6 sqmm cu.wire for phase & neutral and 1 sqmm cu.wire for earth to the 19" rack Copper cables, 20A metal clad with MCB for AC supply to fix in the wall, conduits and other miscellaneous materials required for the work should be supplied by the contractor.(Inspection be Consignee). This work also includes transportation of materials from stores/supplied by Railways for installation.						
	9 1500.00 Metre 39.66 59490.00 AT Par 59490.00						
9	<b>Description:-</b> Laying of STP/OFC/Power Cable/Swich board(10 pair/ 20 pair/50 pair) Cables in 1" PVC conduit/case caping and clamping on the wall/ Wall/Roof tops/ Shelters with suitable clamping and hose to be provided where ever bends/ curves (PVC conduit/ Case capping and other accessories to be supplied by the contractor).						
	10 2.00 Station 169572.61 339145.22 AT Par 339145.22						
10	<b>Description:-</b> Integration, Testing and Final commissioning of equipments at each station for all the equipments conforming with the approved system design including end to end testing for realization of optical fibre system. This also includes supply of all as made documents for the entire installation plus technical, maintenace and installation manuals for Tunnel Communication and VSS project.						
	11 12.00 Per Unit 77691.61 932299.32 AT Par 932299.32						
11	<b>Description:-</b> Installation, wiring and testing of switches, routers, patch panel, UTS modem or othe Equipments related with Tunnel Communications, as per instruction of site Engineer. Per Unit = Per Location						
	12 10.00 Numbers 12420.52 124205.20 AT Par 124205.20						
12	<b>Description:-</b> Splicing of 24 fiber optic fiber cable and making the splice joint with contractor's own splicing machine and tools. Joint should be prepared in such a way that the top of the enclosure shall be at a depth of 1.2 Mtr. and the enclosure must be covered with sand. Acceptance Test procedure of WCR has to be followed for testing. Continuity of the OFC Armour should not be maintained.						
	13 15.00 Numbers 2634.30 39514.50 AT Par 39514.50						
13	<b>Description:-</b> Transportation and installation of Fiber Management System and splicing, and termination (2 $\times$ 24) or (2 $\times$ 48) optic fiber cable of the both ends as per site requirements, complete with all required materials and accessories at contractors own cost.						
	14 8.00 Numbers 1467.52 11740.16 AT Par 11740.16						
14	<b>Description:-</b> Writing work of cable termination details of 6-quad, OFC, PIJF and other cables & equipments details at OFC Room/Cable hut/VSS Control Rooms & Station Building and wherever necessary as per direction of Engineer in-charge.						
	15 5.00 Numbers 8714.57 43572.85 AT Par 43572.85						
15	<b>Description:-</b> Construction on main hole of size 1mtr.dia and 600mm deep ferro cement joint box for OFC Joints.The main hole shall have a thickness of 50 mm. and shall be as per drawing attached. (The top cover RCC Slab of the main hole should have a thickness of 75 mm) Drg. No.SK/DRM (S&T)/JBP/OFC/010 & 011.						
	16 14.00 Numbers 4963.61 69490.54 AT Par 69490.54						
16	<b>Description:-</b> Supply, Fixing and Wiring of Cable Termination box for 26 conductors 0.5-0.9 sq mm with screw type terminals consisting of the following parts complete of Phoenix Contact make or o Wago/Connectwell make. Fixing to be done as per instructions of Railway supervisor at site. Protection devices at Tunnel openings or other locations (supplied under this schedule) shall be provided on the terminals where jelly filled cable terminated. INSPECTED BY CONSIGNEE						
	17 4500.00 Metre 36.53 164385.00 AT Par 164385.00						
17	<b>Description:-</b> Laying of Power cable through one inch dia PVC conduit pipe/HDPE pipe. The rate include laying and installation/clamping charges of PVC pipe/HDPE pipe with protective arrangements in addition to laying of Power cables.						
	18 100.00 Numbers 302.55 30255.00 AT Par 30255.00						

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	<b>Description:-</b> Supply and installation/fixing of Wall Mountable RJ45 Socket and Face Plate with shutter and network module as per instructions of site engineer. INSPECTION BY CONSIGNEE
	19         4500.00         Metre         27.40         123300.00         AT Par         123300.00
19	<b>Description:-</b> Laying of STP/OFC/Power Cable/Swich board(10 pair/ 20 pair/50 pair) Cables in 1" PVC conduit/case caping and clamping on the wall/ Wall/Roof tops/ Shelters with suitable clamping and hose to be provided where ever bends/ curves (PVC conduit/ Case capping and other accessories to be supplied by the contractor)
	20 12.00 Kilometre 92796.66 1113559.92 AT Par 1113559.92
20	<b>Description:-</b> Excavation of trench 1.20 mtr deep,300mm wide at the bottom along main line in al type of soil, including clearing of bushes, trees etc and refilling of the trench by excavated soil and ramming after laying of the required quantity of cables as per instructions of Engineer at site. The work also includes excavation of trenches in the beds of culverts. If it is not possible to reach the required depth at any location, then the contractor shall obtain prior approval of Engineer-in-charge before commencement of cable laying process and only then shall the proportionate payment be made to the contractor.
	21 2.00 Kilometre 158690.56 317381.12 AT Par 317381.12
21	<b>Description:-</b> Excavation of cable trench 300 mm wide at the bottom and 1.20 meter deep in hard soil mixed with boulders/ hard murum soil in rocky area including clearing of trees, bushes and refilling of cable trench by excavated soil, murrum, boulders etc. Care should be taken while refilling the cable trench such that the murrum/ boulders etc does not damage the cable. Ramming after laying of cable (a) 24 Fiber OFC (b) 6-quad (c) Jelly filled & power cable etc, Where desired dimensions could not be achieved, proportionate payment will be made as per instructions & approval of Engineer in-charge of the Railway at site.
	22 100.00 Metre 253.73 25373.00 AT Par 25373.00
22	<b>Description:-</b> Excavation of cable trench 1.2 mtr deep, 300mm wide at the bottom across the track for track crossing and refilling after laying of DWC/GI and HDPE duct. The work shall be executed as per instructions of Rly. Engineer at site. Two Nos. of nylon ropes shall be drawn inside the DWC/GI and HDPE duct so laid for pulling of telecom/OFC cable as well as HDPE Duct by the Contractor.
	23   520.00   Metre   268.23   139479.60   AT Par   139479.60
23	<b>Description:-</b> Excavation of cable trench 300mm wide at the bottom and 1.20 meter deep at all type of road crossing/platform and ramming of the trench restortion of the surface to it origional condition after laying of OFC cable through DWC pipe.
	24   12.00   Kilometre   10208.45   122501.40   AT Par   122501.40
24	<b>Description:-</b> Transportation and Laying of HDPE duct 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 ends of the duct should be sealed with end plugs before laying and should remain sealed till blowing is done.
	25 12.00 Kilometre 34896.78 418761.36 AT Par 418761.36
25	<b>Description:-</b> Blowing and drawing of OFC through laid HDPE duct already provided in the excavated trench as per approved cable route plan, taking due care while transporting and sealing both the ends after laying. The cable should be blown according to the technical conditions and the instructions of the site in-charge.
	26 300.00 Metre 268.23 80469.00 AT Par 80469.00
26	<b>Description:</b> - Cutting of all types of Roads / platforms and digging of cable trench 450 mm wide at the top 300 mm wide at the bottom and 1.65 meter deep at railway station area and ramming of trench and restoration of platform to it original condition. This also includes laying of any No. of DWC/RCC/GI pipes, as per requirement. The work shall be done as per extant practice on WCR and instructions of Rly engineer at site. The pipe will be supplied by Rly.
	27 12.00 Kilometre 7723.25 92679.00 AT Par 92679.00
27	<b>Description:-</b> Laying of 6 quad /jelly filled cable as per approved cable route plan in the excavated trench, taking due care while transporting and sealing both the ends after laying. The cable should be laid according to the technical conditions and the instructions of the site in-charge.
	28 27000.00 Numbers 4.57 123390.00 AT Par 123390.00
28	<b>Description:-</b> Supply and laying of well burnt second class bricks of size 225mm x 100mm x 75mm approx. on laid cable in station area i.e. Outer/Home signal to outer/Home signal and yard and where ever necessary as per directive of Engineer in-charge.
	29 300.00 Metre 103.73 31119.00 AT Par 31119.00
29	<b>Description:-</b> Fixing & laying of 100MM/80mm dia G.I. pipe (Supply of GI Pipe is covered separately in Schedule "A") on 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 directive of Engineer in charge. Perforation should be done before laying of GI pipes.
	30 200.00 Metre 71.19 14238.00 AT Par 14238.00
30	<b>Description:</b> - Fixing of GI pipe 100/80 mm dia to carry all the cable at the cabin, station, cable hut, and other building etc with contactors own material. GI pipe supplied by Rly.

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	21 200 00 Material 00F 27 172074 00 AT Park 172074 00
	31   200.00   Metre   865.37   173074.00   AT Par   173074.00
31	<b>Description:-</b> Preparation of cable way 150 mm wide at the bottom and 300 mm deep in Rocky area / Tunnels (As a special case) and refilling the same after cable laying with concrete mixture at proportional 1:3:6 and grouting the end at either side of the rocky portion using concrete mixture with contactors own material. Laying of cables is covered in seperate item (In the matter of protection of Telecom cables in Tunnels between CC ducts, the officer-in-charge will decide how to operate this item).
	32   150.00   Metre   2364.09   354613.50   AT Par   354613.50
32	<b>Description:-</b> All work pertaining to Horizontal Directional Drilling (HDD) / Boring and trenchless cabling. It includes supply, transportation and insertion of self lubricated HDPE Pipe in boring under the Track/Road/Platform/Tunnels/Circulating area by using different sizes of pipes depending on total no. of cables will be crossed. The depth of horizontal boring decided by officer in-charge as per site requirements.
	33 200.00 Numbers 924.46 184892.00 AT Par 184892.00
33	<b>Description:-</b> Supply, Installation, Engraving and Painting of cement concrete (a) cable route marker @ 50 mtr distance, (b) Joint Marker for OFC (c) Joint Marker for 6 Quad as per drawing No. WCR/TELE/OFC/07/03. Sample to be approved by Engineer in-charge of the railways before supply, after the testing prescribed in the drawing.
	34 6.00 Numbers 4963.61 29781.66 AT Par 29781.66
34	<b>Description:-</b> Fixing and supply of screw type terminals for conductor size 0.5-0.9 sqmm in 19" 42 U euro rack and cable termination panel( to be supplied seperately under this schedule) by fixing hylum strip of 10 mm thickness of suitable length and breath consisting of the following parts complete of phoenix contact make or wago/connectwell make.All fixing materials and hylum strips should be supplied by the contactor.Fixing to be done as per instructions of railway engineer at site, Each incoming and outcoming conductor of under ground jelly filled cable shall be provided with surge protection device.
	35 32.00 Numbers 10930.60 349779.20 AT Par 349779.20
35	<b>Description:-</b> Installation of maintenance free earth. (a) Digging/Auguring/Boring of single earth pit of 100 mm to 125 mm dia to the depth of approximate 2.8 M. (b) Insertion of 3 Mtr electrode and penetrating it at least 0.2 mtr. By pushing gently with sledge hammer where the neutral soil is assumed. (c) Filling of earth pit with earth enhancement compound (EEC) in slurry form and back filling. (d) Carrying out exothermal weld connection on the copper tape of 150 x 25x 6 mm. (e) Carrying out exothermal weld connection on the copper tape of 150 x 25x 6 mm on earth electrode for connecting two 35 sq.mm cable for redundancy. (f) The exothermal welding material for bonding the earth system shall be procured from RDSO approved firms which include graphite moulds, clamps, weld metal powder. (g) 300 mm x 300 mm x 300 mm (inside dimensions) concrete earth pit with a concrete lid approximately 50 mm thick with pulling hooks shall be provided to cover the pit. Back side of the cover will be painted in black and date of testing and average earth resistance value shall be written.
36	36   12.00   Numbers   4676.28   56115.36   AT Par   56115.36    Description:- Fabrication, Fixing, Grouting and cable termination of EC socket of EC socket
	assembly complete with termination of 6 quad & jelly filled cable with contactor own material.
37	37 6.00 Per Unit 638890.00 3833340.00 AT Par 3833340.00  Description:- Installation, Testing and commissioning of Emergency Call, Service Telephone and PA system Hardware controller, with all required accessories as per technical specification. The System should function as one network giving redundancy to server provided at other station. Per unit = Per Tunnel
38	38 30.00 Numbers 1033.48 31004.40 AT Par 31004.40
	Description:- Installation, Testing & Commissioning of 6U Network Rack
	39 10.00 Per Block Section 36475.34 364753.40 AT Par 364753.40
39	<b>Description:-</b> Preparation of as built final cable route plan ( For OFC, 6Q, PIJF as well as other telecom cables) and circuit diagram of VSS Sub-stations/Control Rooms/Master Control Room in laminated sheets and on Auto Cad for the section .This include supply of necessary documents on tracing paper along with five prints of cable route plan, Jointing and Splicing schedule. Telecom Cable Hut wiring diagram etc. Contractor shall also supply the Auto Cad documents in CD. Per Block Section = Per Block Section / Per location
	40 18.00 cum 4123.88 74229.84 AT Par 74229.84
40	<b>Description:-</b> Providing brick masonary in the ratio of 1:6 cement and sand including plastering 20mm thick on each side with contractor own 2nd class bricks.
	41 98.00 cum 3929.10 385051.80 AT Par 385051.80
41	<b>Description:-</b> Provision of cement concrete 1:3:6 with 25 mm graded stone aggregate and curing of the same as per above NOTE.The CC work is to be done at the location approved by engineer incharge.
	42 1500.00 Metre 39.66 59490.00 AT Par 59490.00

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42	<b>Description:-</b> Laying of STP/OFC/Power Cable/Swich board(10 pair/ 20 pair/50 pair) Cables in 1" PVC conduit/case caping and clamping on the wall/ Wall/Roof tops/ Shelters with suitable clamping and hose to be provided where ever bends/ curves (PVC conduit/ Case capping and other accessories to be supplied by the contractor)									
	43	20.00	Numbers	19278.02	385560.40	AT Par	385560.40			
43	<b>Description:-</b> Installation, commissioning including all necessary fittings, joints etc. of self-supporting antenna Galvanized mast for VHF Simplex System with all accessories duly painted in Red & White alternate bands conforming to Fig. 2 of RDSO Spec. No. RDSO/SPN/TC/109/2023 Ver 1.0 or latest to establish tunnel communication in schedule A.									
	44	300.00	Metre	3094.59	928377.00	AT Par	928377.00			
44					ng and commis d orange/red an		Higher Lattice (Cernatively.	Guyies) or		
	45	120.00	cum	3404.58	408549.60	AT Par	408549.60			
Description:- Excavation of concrete foundation. All the material is contractor. This includes 1) Cement concrete foundation of size a shall be prepared for Lattice (guyies) mast. The exact size shall Cement concrete foundation of size approx 2 meter x supported mast. The exact size shall be decided on soil conditions concrete foundation shall be 1:3:6 all the work will be executed as site engineer As per attached drawing. Qty. unit treated as Cu. Meters						e approx nall be ded x 2meter ons. 3) The d as per s	1meter x 1meter cided on soil cond shall be prepare ratio of casting of casti	x 1meter ditions. 2) ed for self of cement		
	46	2.00	Set	825452.36	1650904.72	AT Par	1650904.72			
46							per specification specification encl			
	47	2.00	Numbers	64061.13	128122.26	AT Par	128122.26			
47	System	Manageme		d Specificati			or Viewing, Monit ument].RDSO S	oring and pec No.		

#### 3. ITEM BREAKUP

Schedule	Schedule A-Supply Portion										
Item- 27	Supply	Supply of PA Amplifier INSPECTION BY CONSIGNEE									
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount					
1	1	Supply of PA Amplifier 500 Watts (analog), Power Output 500 Watts RMS. Spaker output 4 ohms, 8ohms, 70V, 100V. Input channel 7 mic, 2 Aux. Equivalent to Ahuja 500Watts PA amplifier SSA5000EM. minimum warrenty 3 year make AHUJA/YAHAMA/BEHRINGER AHUJA, Model SSA5000EM or Similar Make Hitune Bass HSSA 5000EM.		4.00	19883.00	79532.00					
2	2	Supply of High power PA Amplifier 250 Watts/AC $\&$ 24 V DC operation with 6 Mic $\&$ 2 Aux. Input of Ahuja make model SSA- 250 M or equivalent MAKE : Hitone Boss or similar.		4.00	17756.45	71025.80					
					Total	150557.80					

### 4. ELIGIBILITY CONDITIONS

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

### **Special Financial Criteria**

S.No.	Description	Confirmation	Remarks	<b>Documents</b>
		Required	Allowed	Uploading

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### **Special Technical Criteria**

S No	Description	Confirmation	Domarks	Documents
5.NO.	Description	Required		Uploading
1	(a)The tenderer must have successfully completed or substantially completed any one of the following categories of works during last 07 (seven) years, ending last day of month previous to the one in whichtender is invited: Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or Two similar works each costing not less than the amount equal to 60% of advertised value of the tender. (b)(1) In case of composite works (e.g. works involving more than one distinct component, such as Civil Engineering works, S&T works, Electrical works, OHE works etc. and in the case of major bridges - substructure, superstructure etc.), tenderer must have successfully completed or substantially completed any one of the following categories of works during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works each costing not less than the amount equal to 30% of advertised value of each component of tender, or Two similar works each costing not less than the amount equal to 40% of advertised value of each component of tender, or One similar works of minimum required values shall also be considered for fulfillment of technical eligibility criteria for different components. (b) (2) In such cases, what constitutes a component in a composite work shall be clearly pre-defined with estimated tender cost of it, as part of the tender documents without any ambiguity. (b) (3) To evaluate the technical eligibility of tenderer, only components of work as stipulated in tender documents for evaluation of technical eligibility, shall be considered. The scope of work covered in other remaining components shall be either executed by tenderer himself if he has work experience as mentioned in clause-7 of the Standard General Conditions of Contract or through subcontractor fulfilling the requirements as per clause-7 of the Standard General Conditions of Contract or with the subcontractor for the component(s) of work proposed to be executed by	No	No	Allowed (Mandatory)

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1.1	The sub contractor shall have successfully completed at least one work similar to work proposed for subcontract, costing not less than 35% value of work to be subletted, in last 5 years, ending last day of month previous to the one in which tender is invited through a works contract. Note: for subletting of work costing up to Rs 50 lakh, no previous work experience of subcontractor shall be asked for by the Railway. In case after award of contract or during execution of work it becomes necessary for contractor to change subcontractor, the same shall be done with subcontractor(s) fulfilling the requirements as per clause-7 of the Standard General Conditions of Contract, with prior approval of Chief Engineer in writing. Note for Item 10.1: Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organisation, work experience certificate issued by Public listed company having average annual turnover of Rs. 500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporation/registered at least 5 year prior to the date of closing of tender, shall also be considered provided the work experience certificate has been issued by a person authorized by the Public listed company to issue such certificates.	No	No	Allowed (Mandatory)
1.2	In case tenderer submits work experience certificate issued by public listed company, the tenderer shall also submit along with work experience certificate, the relevant copy of work order, bill of quantities, bill wise details of payment received duly certified by Chartered Accountant. TDS certificates for all payments received and copy of final/last bill paid by company in support of above work experience certificate.	No	No	Allowed (Mandatory)
1.3	Similar Nature of Work : " Any Telecom Indoor work of Networking/ STM/IPMPLS/Radio System along with outdoor work involving OFC/Quad cable/ Leaky cable / Radio System in Railway telecom network "	No	No	Not Allowed

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

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

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

S.No.	Description

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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

1

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		Documents Uploading
1	If Bid Security is submitted through mode of Bank Guarantee, then tenderer must submit the scanned copy of the Bank Guarantee ( as per Specimen Format at Annexure - Q of Chapter - 6 Tender Document) submitted towards Bid Security and the original bank guarantee shall be submitted/ delivered in-person to the official/ Office mentioned under item no. 16 of Top sheet-1 ( as per para - 3 of Instruction to Tenderers (ITT) of Chapter - 2 of tender Document ) before closing date of submission of bids (i.e. excluding the last date of submission of bids). Non submission of scanned copy of Bank Guarantee with the bid on e- tendering portal (IREPS) and / or non- submission of original Bank Guarantee within above specified period shall lead to SUMMARILY REJECTION OF BID .In case of the Bid Security deposited through e- payment gateway, then the same should be confirmed by the tenderer.	Yes	Yes	Allowed (Optional)
2	Tenderer shall submit certificate as per Annexure - A & A-1 (as required) of Chapter - 6 of the Tender document. However , if the bidder on behalf of tenderer including its constituents confirms and certify the provisions of Annexure -A on IREPS , the uploading of physical signed Annexure - A on IREPS portal is not mandatory. Further, Partnership firm / Joint Venture (JV) / Hindu Undivided Family(HUF) / Limited Liability Partnership (LLP) etc. shall also submit a certificate as per Annexure - A1. Non submission of the certificate A & A1 , or submission of certificate either not properly filled in , or in a format other than the prescribed format shall lead to SUMMARILY REJECTION of the offer.	No	Yes	Allowed (Mandatory)
3	Tenderer shall submit details of works successfully completed or substantially completed during last 07 years ending last day of month previous to the one in which tender has been invited as per the format vide Annexure-F & F-1 (as applicable) of Chapter -6 of the Tender Document along with work completion/experience certificate. Non - compliance with this condition shall lead to SUMMARILY REJECTION of the offer.	No	No	Allowed (Mandatory)
4	Tenderer shall submit the details of the constitution of Firm i.e. Proprietary Firm / Partnership Firm / HUF / JV/ Company Registered under Companies Act- 2013/ Limited Liability Partnership/ Registered Society & Registered Trust etc. as Per Annexure - C of Chapter-6 of the Tender Document. Tenderer shall also submit the mandatory supporting document such as copies of Partnership Deed, Power of Attorney, Memorandum of Articles, Articles of Association, Authorization, Certificate of Incorporation, Certificate of Registration, Deed of Formation , MOU of JV , Copy of PAN card etc. as stipulated under Para 14,15,17 & 18 of Chapter - 2 of Tender Document. Important Note:- (a) In case one or more of the members of JV is / are partnership firm (S) Proprietary Firm /HUF/Companies/LLP Firm(s) /Society (S) /Trust(s), the required documents of each individual member of JV shall be submitted along with the documents to be submitted on behalf of the JV, (b) non-submission of above documents (except PAN Card) or submission of incomplete documents shall lead to SUMMARILY REJECTION of the offer.	No	No	Allowed (Mandatory)

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5	Tenderer shall submit Power of Attorney, duly notarized/Authorization in favour of a single individual as per Para - 14,15,17 & 18 of the tender form (second sheet) of SGCC and Para 15 of Chapter - 2 of Tender Document. Non - submission of Power of Attorney, duly notarized/ authorization as per above paras of SGCC/Tender document shall lead to SUMMARILY REJECTION of the offer/Bid.		Yes	Allowed (Mandatory)
6	Tenderer participating as Joint Venture (JV) firm shall submit MOU for Joint Venture (JV) participation as per Annexure - L of Chapter - 6 of the Tender Document along with other mandatory document of constituent members as stipulated. Non - submission of above documents or submission of incomplete documents shall lead to SUMMARILY REJECTION of the offer	No	Yes	Allowed (Mandatory)
7	Tenderer shall submit list of Plant & machinery available on hand and proposed to be inducted and hired for the tendered work as per the format vide Annexure - D of Chapter - 6 of tender Document. Offer submitted without these details shall be liable to be REJECTED.		No	Allowed (Mandatory)
8	Tenderer shall submit list of personnel/ organization on hand and proposed to be engaged for the tendered work as per the format vide Annexure - E of Chapter - 6 of tender Document. Offer submitted without these details shall be liable to be REJECTED.		No	Allowed (Mandatory)
9	Tenderer shall submit the information/declaration regarding association of Railway Officers with tenderer (S) as per Annexure - H of Chapter - 6 in terms of Clause 16 of Chapter - 2 of tender Document . On non - submission of this information, contract is liable to be dealt in accordance with provision of Clause 62 of Standard General Conditions of Contract.		No	Allowed (Mandatory)
10	Tenderer shall submit list of court cases during previous three financial years as per Annexure - I of Chapter - 6 of tender Document.	No	No	Allowed (Mandatory)
11	Tenderer shall submit list of arbitration cases during previous three financial years as per Annexure - J of Chapter - 6 of thetender Document.		No	Allowed (Mandatory)
12	Tenderer shall submit the certificate of familiarization to the work site as per Chapter - 5 of the tender Document.	No	No	Allowed (Mandatory)
13	Tenderer shall submit broad plan of execution of work as per Annexure - K of Chapter - 6 of the tender Document.	No	No	Allowed (Optional)
14	Tenderer shall submit details of other credentials/ facilities as per Annexure - N of Chapter - 6 of the tender Document.	No	No	Allowed (Optional)
15	Tenderer shall submit bank details i.e. Name of Bank along with Bank Branch code, Accounts Number as appearing in the cheque book, IFSC Code and PAN Number, duly certified by the authorized official of the bank, to facilitate payment through ECS/NEFT/RTGS as per Annexure - O of Chapter - 6 of Tender Document.	No	No	Allowed (Mandatory)
16	For tenders having advertised cost of Rs. 10 lakhs and above:-If tenderer desired to take payment through letter of Credit (LC) arrangement then tenderer shall exercise the option at the time of biding itself and shall affirm having read for and agreed to the terms and conditions of LC option. For details refer Clause - 7 of Chapter - 4 of Tender Document.	No	Yes	Allowed (Optional)
17	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**

Ī	S.No.	Description	Confirmation	Remarks	Documents
			Required	Allowed	Uploading

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1	Payment of Bid Security shall be accepted either in cash through e-payment Gateway or as Bank Guarantee bond from a scheduled commercial Bank of India. BG shall be as per Annexure-Q of Chapter-6 of Tender Document. No other mode of payment shall be accepted. Any firm recognized by Department of Industrial Policy and Promotion (DIPP) as 'startups' shall be exempted from payment of Bid Security . Labour Cooperative Societies shall submit only 50% of the Bid Security .	No	No	Not Allowed
2	In case the date of closing mentioned in the NIT Header of etender document is declared a holiday/bandh/strike etc. on any account, the date of closing tender online will not be changed as the application in the website of IREPS does not permit submission of any offer after closing date and time of the tender. However, opening of tenders online will be on the following working day after the closing date/time of tenders.	No	No	Not Allowed
3	Rates quoted by the tenderer in the relevant fields of the Financial Bid only will be the ruling terms for deciding inter-seranking and any condition having financial repercussions, if quoted, anywhere else shall not be considered for deciding the inter-se-ranking.	No	No	Not Allowed
4	Tenderer participating as JVshall refer the guidelines of Tender under Clause-17 of Tender Document and relevant clauses of IR-SGCC 2022 regarding participation of Joint Venture Firms in Works Tender and documents to be submitted. If required documents for JV firm participation are not submitted the offer/Bid will be to SUMMARILY REJECTED .	No	No	Not Allowed
5	(a)In case of any information submitted by tenderer is 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. (b) In case of any information submitted by tenderer is 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.	No	No	Not Allowed
6	The tender shall be finalised based on submitted documents &no post tender correspondence shall be entertained. However, if any clarification is required by the Railway, the same will be sought from the tenderer which need to be provided by tenderer(s) within stipulated time failing which his/their offer (S) shall be dealt based on available information with Railways interpretation only.	No	No	Not Allowed
7	While submitting offers the tenderer(s) generally commit mistakes in submitting the mandatory documents like Certificates regarding contracting experience, Audited Balance Sheet duly certified by the Chartered Accountant, Certificate in respect to true and factuality of documents, Information in connection with evalution of bid capacity, Power of Attorney, submission of tenders by authorized signatory, JV related documents etc. As such, THE TENDERER(s) SHOULD GO THROUGH THE TENDER DOUMENT VERY CAREFULLY BEFORE SUBMITTING HIS/THEIR OFFER AND ACCORDINGLY UPLOAD ALL THE MANDATORY DOCUMENTS AND OTHER RELEVANT DOCUMENTS as per the formats enclosed in the tender document.		No	Not Allowed
8	Tenderers must go through the tender documents to ascertain and get themselves acquainted with general conditions of contract,e-tendering process and two packet bid system (as applicable). The tenderer must also go through the other documents such as special conditions, additional technical conditions, specification, drawings, scope of work etc. attached as documents on the website.	No	No	Not Allowed
9	It is the responsibility of the tenderer to keep watch on IREPS website regarding Addendum/corrigendum etc . (if any) to tender notice up to the date of Bid closing . No separate intimation information shall be given in Newspapers or through any other means.	No	No	Not Allowed

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10	Tenderers are advised to visit the site of work to ascertain all aspects of the site conditions viz accessibility of approach road, nature of the soil, availability of material, labour water etc. that may be encountered in course of execution of work.	No	No	Not Allowed
11	No Advance payment shall be made for mobilization .	No	No	Not Allowed
12	No Advance payment against Plant and Machinery shall be admissible.	No	No	Not Allowed
13	No advance/stage Payment will be payable for supply of Cement and Reinforcement Steel . Cement and Reinforcement Steel shall be paid only after its actual use in work		No	Not Allowed
14	The quoted rates shall be inclusive of all taxes, levies etc. (including GST and royalty) leviable by State/Central Govt. or by local authorities. The rates shall be inclusive of all sales / turn over tax, Service Tax including all other Cess etc., on contract by respective State Govt.	No	No	Not Allowed
15	Tenderers are requested to go through the enclosed Additional Special Technical Conditions/ Specifications for various items included in tender schedule /Bid of quantities, etc.	No	No	Not Allowed
16	Price Variation Clause (PVC) shall be applicable for Tenders having advertised value above Rs . 2 Crores.	No	No	Not Allowed
17	ELECTRONIC REVERSE AUCTION (e-RA) will be applicable for tenders having advertised value more than Rs. 50 Cr.	No	No	Not Allowed

### Undertakings

S.No.	Description	Confirmation Required		Documents Uploading
1	I/We have visited the works site and I/We am/are aware of the site conditions.	No	No	Not Allowed
2	I/ We have read the various conditions attached /referred to in this tender document and agree to abide by the said conditions	No	No	Not Allowed
3	I/We also hereby agree to abide by the Indian Railways Standard General Conditions of Contract-2022 with all correction Slips up to date of closing of tender, and to carry out the work according to the Special/Technical Conditions of Contract and Specifications of materials and works as laid down by Railway in the Special Conditions/ Specifications, CPWD DSR-2021 Schedule of Rates with all correction slips up to the date of closing of tender for the present contract.	No	No	Not Allowed
4	I/We hereby confirm that the rates, rebates and /or other financial terms, if any, quoted by us in the relevant fields of the Financial Bid will only be the ruling terms for deciding the interse-ranking and any such conditions having financial repercussions, if quoted by us anywhere else including attached documents shall not be considered for deciding inter-se-ranking.	No	No	Not Allowed
5	I/WE agree to keep out offer open for acceptance for the period of days as mentioned on NIT HEADER from the date of closing of tender and in default thereof. I/We will be liable for forfeiture of my/our Bid Security.	No	No	Not Allowed
6	The amount as stipulated in tender document is herewith forwarded as Bid Security shall stand forfeited without prejudice if:-		No	Not Allowed
6.1	I/We resile from my/our offer or modify the terms and conditions thereof in a manner not acceptable to the Railways during validity period of the offer as mentioned on NIT HEADER.		No	Not Allowed
6.2	I/We do not submit a Performance Guarantee In any of the prescribed form within 60 days from the date of issue of letter of acceptance.		No	Not Allowed
6.3	I/We do not execute the contract within 7 days after receipt of notice by Railway that such documents are ready	No	No	Not Allowed
6.4	I/We do not commence the work within fifteen days after receipt of Letter of Acceptance to that effect.	No	No	Not Allowed

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7	Until a formal agreement is prepared and executed , acceptance of this tender shall constitute a binding contract between us subject to modifications , as may be mutually agreed to between us and indicated in the letter if acceptance of my/our offer to this work.	No	No	Not Allowed
8	I/We hereby confirm that I/We have satisfied myself/ourselves by actual inspection of the site and locality of the work that all conditions liable to be encountered during execution of the work are taken into account and that the rates quoted in the tender are adequate and all inclusive.		No	Not Allowed
9	I/We have read the tender document and NIT conditions about the Mandatory Documents required to be uploaded up to the time and date of Bid closing of Tender , in absence of which ,the offer shall be SUMMARILY REJECTED. I/We understand that no Suo moto cognizance of any document available in public domain ( i.e., on internet etc .) or in Railways record/office files etc. Will be taken for consideration of the tender, if no such mention is available in tender offer submitted. I/We Submitted all the mandatory documents and have no additional document to add further.		No	Not Allowed
10	I/We understand that in case of non-submission of Power of attorney duly notarized/authorization in favour of a single individual as per para-14,15,17 & 18 of tender form (second sheet) of SGCC and para 15 of chapter-2 of Tender document, my/ our offer/ Bid shall lead to SUMMARILY REJECTION.		No	Not Allowed
11	I/We hereby confirm that for tenders involving supply of track ballast, I/We undertake that we will supply the track ballast at all times conforming to "Specification for Track ballast " (IS/RDSOGE/0001: 2023)" issued by RDSO and amended from time to time	No	No	Not Allowed

### 6. Documents attached with tender

S.No.	Document Name	Document Description
1	TenderDocument-132.pdf	Tender Document
2	Annexureanddrawings1.pdf	Annexure and drawings

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: SATISH KUMAR JAIN

**Designation :** Dy.CSTE/C/JBP

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