

**PROJ-BSP-S AND T/SOUTH EAST CENTRAL RLY
TENDER DOCUMENT**

Tender No: 85-SNT-Proj-Tender-2024

Closing Date/Time: 10/02/2025 12:00

Dy.CSTE/Project-II/Bilaspur acting for and on behalf of The President of India invites E-Tenders against Tender No **85-SNT-Proj-Tender-2024** Closing Date/Time 10/02/2025 12:00 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	Survey, Design, supply, Installation, Testing and Commissioning of KAVACH equipments and other associated works between NAGPUR-JHARSUGUDA section of South East Central Railway.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	10/02/2025 12:00	Date Time Of Uploading Tender	04/01/2025 21:30
Pre-Bid Conference Required	Yes	Pre-Bid Conference Date Time	15/01/2025 12:00
Advertised Value	1659115644.80	Tendering Section	PROJECT II
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	8445600.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	0.00	Period of Completion	18 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	27/01/2025	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
Schedule 1-Supply, installation, Testing & commissioning of KAVACH equipments							1328059764.00	Above/ Below/Par
1	0	81.00	Set	3813170.00	308866770.00	AT Par	308866770.00	
	Description:- Design & Documentation, Supply (Including 10% Spares) , Installation & Commissioning of station TCAS Equipment with suitable Rack consisting of Vital computer peripherals, 2 full duplex Radio modems UHF, SMOCIP, OFC modems, UHF antenna, GPS and GSM antenna and interfaces for various required antenna as per RDSO/SPN/196/2020 Version 4.0 or latest . This also includes earthing (Earth resistance less than 1 ohm) as per RDSO RDSO/SPN/197 Ver 1.0, wiring of Electrical/Quad/Optical cable, relay wiring, connecting of SMOCIP from station TCAS, supply of tool kit and interlocking of relays including DC-DC converter and suitable power supply arrangement. Supply of earthing material and supply of relays is covered separately. Inspection by RDSO.(Note: Wherever maintenance free earth is available, it can be used for earthing. Wherever it is not available separate schedule for maintenance free will be operated.)							
2	0	80.00	Station	2739381.00	219150480.00	AT Par	219150480.00	
	Description:- Alteration i n Electronic Interlocking System, Integration of KAVACH interface with EI including protocol converter and associated hardware if any, FAT/SAT/Correspondence Testing as advised by site engineer, Wiring, testing and commissioning for KAVACH works.(Note: Alteration in EI based automatic Signalling for integration of Kavach in One Block Section will be treated as Station).							
3	0	36.00	Set	2578300.00	92818800.00	AT Par	92818800.00	
	Description:- Design & Documentation, Supply (Including 10% Spares) , Installation & Commission of L C TCAS Equipment consisting of Vital computer peripherals, 2 full duplex Radio modems, OFC modems, UHF antenna, GPS and GSM antenna and interfaces for various required antenna as per RDSO/SPN/196/2020 Version 4.0 or latest . This also includes earthing (Earth resistance less than 1 ohm) as per RDSO No- RDSO/SPN/197 Ver 1.0, wiring of Electrical/Quad/Optical cable, relay wiring, supply of tool kit and interlocking of relays including DC-DC converter and suitable power supply arrangement. Supply of earthing material and supply of relays is covered separately. Inspection by RDSO.(Note: Wherever maintenance free earth is available, it can be used for earthing. Wherever it is not available separate schedule for maintenance free will be operated.)							
	0	300.00	Set	1017750.00	305325000.00	AT Par	305325000.00	

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4	Description:- Design & Documentation, Supply (Including 10% Spares), Installation & Commissioning of station TCAS RIU (Remote Interface unit) with atleast 64 Field I/P's as per RDSO/SPN/196/2020 Version 4 or latest . The RIU should have provision of OFC OR Quad Interface and should be connected to central TCAS in a Ring network . This includes supply and installation of all modems, interface, Earthing, Wiring & Signal functions etc. Supply of earthing material and supply of relays is covered separately. Inspection by RDSO.(Note: Wherever maintenance free earth is available, it can be used for earthing. Wherever it is not available separate schedule for Maintenance free will be operated.)						
5	0	85.00	Set	1025892.00	87200820.00	AT Par	87200820.00
	Description:- Supply (Including 10% Spares) , Installation, Programming, Verification and Commissioning of RFID tags with redundancy with enclosures and fixtures at Station and block section. Station & its one adjoining block section (absolute/Automatic Block section for UP & DN line) will be counted as one set. This should comply to RDSO/SPN/196/ 2020 version 4.0 or latest . Inspection by RDSO						
6	0	3118.00	Numbers	16000.00	49888000.00	AT Par	49888000.00
	Description:- Supply, Installation, Programming, Verification and Commissioning of RFID tags with enclosures and fixtures at block sections (absolute/Automatic Block section) for the 3rd & 4th line. This should comply to RDSO/SPN/196/2020 Version 4.0 or latest. Inspection by RDSO.						
7	0	6.00	Set	882050.00	5292300.00	AT Par	5292300.00
	Description:- Supply of kit for configuring, programming and downloading RFID Tag data as per RDSO issued guidelines. Inspection by Consignee.						
8	0	3.00	Set	1723390.00	5170170.00	AT Par	5170170.00
	Description:- Supply, installation and commissioning of Test Bench for Station TCAS equipment as per RDSO/SPN/196/2020 Version 4.0 or latest. The test bench shall meet all the functional requirements as stated in RDSO Letter no STS/E/TCAS/Tender/Part -IX dated 03.02.2016 or later. Inspection by Consignee.						
9	0	3.00	Set	7192100.00	21576300.00	AT Par	21576300.00
	Description:- Supply, installation and commissioning of Network Management System for Centralized monitoring of TCAS station and Loco equipment as per RDSO/SPN/196/2020 Version 4.0 or latest. Inspection by RDSO.						
10	0	6.00	Set	240144.00	1440864.00	AT Par	1440864.00
	Description:- Supply, Installation and commissioning of kit for configuring, programming and downloading execution and application data for Stationary Station TCAS equipment. Inspection by Consignee.						
11	0	4.00	Set	6403846.00	25615384.00	AT Par	25615384.00
	Description:- Supply, Installation and commissioning of Lab Models of station equipment, loco equipment, trackside components and simulator at Headquarters etc as per RDSO/SPN/196/2020 Version 4.0 or latest. Inspection by RDSO.(Lab model consisting of two Station Kavach, two Onboard Kavach, one model Brake Interface Unit (BIU) and 100 RFID Tags shall be installed in location as decided by the Railway Engineer. The Station Kavach shall be interconnected with virtual station layouts driven with relay simulator. Onboard Kavach shall be driven with relevant loco simulator simulating loco movement and RFID tags. The lab model shall be supplied and installed with all the components such as radio modem, power supplies, SMOCIP etc., peripherals and firmware suitable for lab demonstration as well as functioning in field of Station Kavach, Onboard Kavach and Network Monitoring System. Lab model shall be capable of simulating the entire field scenarios for a loco movement and collision scenarios)						
12	0	800.00	Man-Days	1696.00	1356800.00	AT Par	1356800.00
	Description:- Training to Railway staff related to Kavach.						
13	0	3.00	Lumpsum	600000.00	1800000.00	AT Par	1800000.00
	Description:- Key Management system (KMS) charges.						
14	0	614.00	Route Kilo Meter (RKM)	39782.00	24426148.00	AT Par	24426148.00
	Description:- Application Safety Case for Entire Section.						
15	0	614.00	Route Kilo Meter (RKM)	31233.00	19177062.00	AT Par	19177062.00
	Description:- Carrying out FAT/SAT testing, Loco dynamic trials, pre- commissioning activities as per RDSO approved pre- commissioning check list, commissioning of TCAS system in entire section.						
16	0	8.00	Set	2994642.00	23957136.00	AT Par	23957136.00
	Description:- Supply of spare station TCAS Equipment with suitable Rack consisting of Vital computer peripherals, 2 full duplex Radio modems, OFC modems, UHF antenna, GPS and GSM antenna and interfaces as per RDSO/SPN/196/2020 Version 4.0 or latest. Inspection by RDSO.						
17	0	623.00	Numbers	7562.00	4711126.00	AT Par	4711126.00
	Description:- Supply of spare RFID tags with enclosures and fixtures as per RDSO/SPN/196/2020 version 4.0 (Insp Agency-RDSO)						
	0	10.00	Set	641916.00	6419160.00	AT Par	6419160.00

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18	Description:- Supply of spare station TCAS RIU (Remote Interface unit) with at least 64 Field I/P's as per RDSO/SPN/196/2020 version 4.0 or latest. The RIU should have provision of OFC or Quad Interface and should be connected to central TCAS in a Ring network. Inspection by RDSO.							
19	0	1000.00	Numbers	4700.00	4700000.00	AT Par	4700000.00	
	Description:- Re-programming, Re-fixing and verification of existing RFID Tags.							
20	0	1000.00	Numbers	2000.00	2000000.00	AT Par	2000000.00	
	Description:- Re-programming of existing RFID Tags without shifting.							
21	0	4.00	Set	3830811.00	15323244.00	AT Par	15323244.00	
	Description:- Supply, installation and commissioning of Test Bench for Loco equipment (Diesel/Electric) as per RDSO/SPN/196/2020 Version 4.0 or latest. The test bench shall meet all the functional requirements as stated in RDSO Letter no STS/E/TCAS/Tender/Part -IX dated 03.02.2016 or later. Inspection by Consignee.							
22	0	15000.00	Numbers	442.00	6630000.00	AT Par	6630000.00	
	Description:- Fixing of RFID INDICATION BOARD near RFID sleeper with contractors own material and painting Red Stripes on RFID sleeper, As per drawing No.KAVACH/RFID/sleeper/2024. The work shall be done as per instructions of Rly engineer at site. Inspection by consignee							
23	0	15000.00	Numbers	1300.00	19500000.00	AT Par	19500000.00	
	Description:- Supply of RFID INDICATION BOARD (300 X 300mm) as per drawing No.KAVACH/RFID/Board/2024. Inspection by consignee.							
24	0	30.00	Numbers	120000.00	3600000.00	AT Par	3600000.00	
	Description:- Factory Acceptance Testing (FAT) and Site Acceptance Testing (SAT) -Testing Requirements Before Commissioning of the Kavach System for Alterations: a) Factory Acceptance Testing (FAT): i. Joint Testing: FAT shall be conducted jointly by the OEM Engineer and Railway-nominated personnel. Testing should cover all scenarios as outlined in the approved Table of Control, TIN Layout, RFID tag data, etc. ii. Deficiency Resolution: Any deficiencies identified during initial testing must be addressed and rectified. The system should be retested jointly until all defects are resolved. b) Site Acceptance Testing (SAT): i. Field Testing: SAT shall be performed onsite, verifying all safety-critical scenarios as detailed in the design documents at both station Kavach installations and Loco Kavach installations. ii. Agency Responsibilities: The agency is responsible for arranging the necessary manpower and materials for SAT. However, the arrangement of loco trials and access to S&T installations should be under the scope of Railway							
25	0	30.00	Lumpsum	27140.00	814200.00	AT Par	814200.00	
	Description:- Updating KAVACH NMS Data base and correspondence testing							
26	0	1000.00	Numbers	10000.00	10000000.00	AT Par	10000000.00	
	Description:- Design and Drawing for Complete Indoor and Outdoor Kavach System The work includes design and drawing of a comprehensive Kavach system for modifications to existing EI/PI/RRI stations, LC installations, and IBS systems in accordance with the revised approved SIP. The scope includes the following: a) Supply of Drawings and Documentation: i. Standards Compliance: All drawings and documentation will conform to Railway standards and guidelines. ii. Print Copies: Agency should provide all Ferro/Paper print copies necessary for on-site execution at their own expense. iii. Completion Sets: After receiving final Railway approval, the agency should supply six sets of Ferro/Paper prints for all completion drawings and documents. Each set should be presented in a high-quality plastic folder file, spiral bound, with approved top and bottom covers as per Railway practice. b) Soft Copies: i. Digital Documentation: Upon project completion, the agency should provide three sets of digital copies of all indoor documents and completion circuit diagrams. These should be recorded on compact discs, DVDs, or SSDs. "" ""c) Details of Drawings:The agency must provide detailed drawings as specified in the project requirements as per below. i. Table of Control with Gradient & PSR details, ii. RFID Tag and linking Data, iii. RFID - Tag cum TIN layout, iv. Bit Chart, v. Interface diagram vi. Relayed disposition Chart vii. Contact Analysis Diagram, viii. Frequency Plan, ix. TDMA based time slot allotment chart, x. Any other plan related to Kavach system which may get altered due to this alteration.							
27	0	3.00	Numbers	16500000.00	49500000.00	AT Par	49500000.00	
	Description:- Supply, installation and commissioning of FAT setup at as per RDSO/SPN/196/2020 version 4.0 or latest. (Inspection by Consignee) (Note: Along with FAT Set UP, scope also includes: Supply, installation, testing and commissioning of Minimum 2Ton Air Conditioners of 2 Nos., UPS with minimum power backup of 1 Hrs. for FAT SET UP, required Chair (6 Nos.) & Modular Furniture/Table to make the FAT SETUP ready to use As per Annexure-IV) .							
28	0	20.00	Numbers	590000.00	11800000.00	AT Par	11800000.00	
	Description:- Addition of input cards, including hardware like scanners and termination cards for additional inputs upto 32 nos for STCAS/LCTCAS/RIU(Inspection by RDSO)							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 2-Execution of Signalling & Telecom work							81885550.70	Above/ Below/Par

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1	0	442.00	Per Station per Month	24151.00	10674742.00	AT Par	10674742.00	
	Description:- Provision of Security Guards round the clock beat from Up Home Signal to Down Home Signal to avoid theft of signalling amenities in 12 hour shift Hrs Per Station per Month.							
2	0	8840.00	Metre	267.00	2360280.00	AT Par	2360280.00	
	Description:- Fabrication, supply and fixing aluminium ladder of size 25 X 25 X 5mm, 200mm width, arrangements for drawing various wires in the battery, equipment and relay rooms. (this includes all fittings, jamming, cementing, rivets, corners, bolts and nuts as per the site requirement including supply of cement and other necessary materials). as per instruction of site Engineer. Inspection by consignee.							
3	0	65.00	Set	27670.00	1798550.00	AT Par	1798550.00	
	Description:- Supply, installation and commissioning of SMPS based 110V/24-32V DC-DC converters containing 4 no. of 24-32V, 5 Amps DC/DC converter (internal (1+1), external (1+1)). Inspection by RDSO.							
4	0	5000.00	Metre	616.00	3080000.00	AT Par	3080000.00	
	Description:- Horizontal direction drilling (HDD)/Trenchless digging/machine drilling without damage to surface road track for laying/insertion of HDPE/GI/DWC pipe. The bore shall be done of min. diameter 120mm & at the depth of minimum 1400 mm from the ground level. The ground level shall be considered ignoring the bank height of the bank of the road. Note:- DWC/HDPE/GI Pipe Supply is not covered under this item. Contactor shall provide all material required for work 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. Payment of boring shall be made only after DWC/HDPE/GI pipe is laid in the bore.							
5	0	5000.00	Metre	540.00	2700000.00	AT Par	2700000.00	
	Description:- Cutting the chase upto a depth of minimum 500 mm and smoothening of inside surface in concrete and beds of rocks, cable laying/ placing HDPE pipe & concreting upto the ground level.							
6	0	5000.00	Per Relay	211.00	1055000.00	AT Par	1055000.00	
	Description:- Fixing of relay bases and wiring, bunching, fixing of relays, wiring in Old relay racks/location box and also carrying out any alteration in existing relay rack duly wiring and connecting New to old and Old to old relays by standard wires (RDSO Approved Sources) as per Circuit diagram. Fuses of bases, condensers, ND fuses, LED indicator & its wiring for relay rack. All materials required for this work will be supplied by the contractor from RDSO Approved Sources. Relays with accessories will be supplied by the Railway.							
7	0	12000.00	Per Conductor	9.00	108000.00	AT Par	108000.00	
	Description:- Cable termination including fixing terminals, fuses, ED etc Meggering the cables and recording the readings							
8	0	2000.00	Metre	2210.00	4420000.00	AT Par	4420000.00	
	Description:- Track crossing, Road Crossing by pushing method (HDD method) at culverts/ track / pucca road crossing at a depth not less than 1 meter with reference to bottom of rail/road surface including supply of GI/HDPE pipe. (b) GI pipe with 76 mm dia, Spec. No. -1239 medium grade (for the length of pushing more than 05 meters).							
9	0	800.00	Metre	335.00	268000.00	AT Par	268000.00	
	Description:- Excavation of trenches in all kinds of soils including soft rocky area and clearing of track etc. to a depth of 1.0 M and width of 0.3 M for track crossing /pucca road/level crossing gate/platform/station circulating area or any other place as advised by site Engineer including transportation and laying of DWC/RCC/Split RCC/G.I. pipes with or without coupler. This includes repairing of track/pucca road/level crossing gate/ platform/station circulating area surface to original position by ramming and concreting wherever required soon after the work is over. DWC/RCC/GI pipes shall be supplied by the Railway. DWC pipes wherever required shall be supplied in 6 Mtr. length and shall be cut to size as per requirement. All other materials including cement are to be supplied by the contractor.							
10	0	1000.00	Metre	7.00	7000.00	AT Par	7000.00	
	Description:- Jungle cutting along with the cable route and near towers.							
11	0	100.00	Set	113031.00	11303100.00	AT Par	11303100.00	
	Description:- Design of cable route plan, as per technical specification and supply of 6 sets of documents in proper binding from approved drawings shall be taken and submitted to Railways. This includes (but not limited to) circuit diagram, RFID Tag-TIN layouts, Table of Control for entire section, Stationary and Loco TCAS interface diagrams, power supply diagram and other manuals as specified by Railways.							
12	0	614.00	Route Kilo Meter (RKM)	11564.00	7100296.00	AT Par	7100296.00	
	Description:- Site survey for tower erection RSS Signals strength measurement, study of braking characteristic of electric /diesel loco, submission of drawings for installations of train borne and track equipments, design and installation of proto track equipments, design and installation of proto type for approval and obtaining approval of the same for radio survey.							

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13	0	614.00	Kilometre	16642.55	10218525.70	AT Par	10218525.70	
	Description:- Survey of existing signaling infrastructure with LIDAR to obtain entire track profile for placement of RFID tags and mapping of absolute location for signals etc. (Insp Agency-Consignee)							
14	0	349.00	Station/IBH/Gate	2556.00	892044.00	AT Par	892044.00	
	Description:- Survey of Station/LC gate buildings for availability of space inside the Relay Room/Power Room for installing stationary TCAS equipment as per the enclosed format.							
15	0	240.00	Numbers	43453.00	10428720.00	AT Par	10428720.00	
	Description:- Alteration of database, faults, simulations in Data loggers and all connected places (like HQ, FEP, STATION, etc)							
16	0	50.00	Numbers	6760.00	338000.00	AT Par	338000.00	
	Description:- Supply Installation of of OFC joint enclosure and splicing of Optic fiber cable (24 fibres) and testing as per technical specification No. GR OJC- 2/02 Sept 2003. Supply of Splice Enclosure (24 fiber) shall be of TVS make or similar Part No.1500-L18X-XX as per Board specification of TEC (latest spec.) and Schedule of supply enclosed. All materials including Fusion splicing machine used for splicing and OTDR for testing and other testing materials if any shall be arranged by the contractor							
17	0	50.00	Numbers	8662.00	433100.00	AT Par	433100.00	
	Description:- Excavation of jointing pit without damaging the fiber and provision of joint chamber of 1.2 mtr dia, 60 cm height and 50 mm thickness with two piece top cover and bottom cover with holes for drainage and cable entry (the reinforcement drawing enclosed). This includes back filling and ramming of the trench after placing the joint closure and cable loop in the chamber without causing any damage to the same and consolidation of soil as well as disposal of soil as per plan and as advised by Railway Representative.							
18	0	370.00	Numbers	14750.00	5457500.00	AT Par	5457500.00	
	Description:- Supply and installation of fully loaded rack mounted 24F FMS fiber of Bestnet Make or similar to suit connectivity for switches and FMS with 24 nos. 0dB adaptors connected with suitable pigtails.							
19	0	150.00	Numbers	244.00	36600.00	AT Par	36600.00	
	Description:- Excavation of cable coil pit 1.5m length X 1.5m breadth in rear of relay room/AFTC huts.							
20	0	1000.00	Metre	1246.00	1246000.00	AT Par	1246000.00	
	Description:- Supply and Fixing of Perforated GI pipes of 100 mm dia for entry of cable on girder bridges, RCC bridges, drains, culverts, rocky places, tunnels/ deep cuttings or at places as advised by the engineer in charge of the work. This includes trenching up to the required depth as decided by the Engineer at site and making holes of 5 mm dia(approx.) at 20 cm intervals on the GI pipe. The pipes are to be fixed on the girder bridge by suitable bridge fixtures at an interval of 1.0 mts. (min) or directives of Railway Engineer. On RCC/masonry bridges or in rocky places, if required the entire length of the pipe is to be concreted up to a height of 100mm above the pipe. GI pipe shall be TATA or Jindal make.							
21	0	442.00	Numbers	8767.00	3875014.00	AT Par	3875014.00	
	Description:- Fixing of Class B&C arrestors supplied along with 63 Amp HRC input fuse and fuse base in wall mountable cabinet box of size 250mm (w)x 450mmmm(h)x 150mm(d) and commissioning. The box shall be made using MS sheet of 20 gauge or better with IP31 protection and power coating. A door knob shall be provided to open the front door to access the fuse. Provision shall be made to view the working condition of class C arrestors from front side of the cabinet. All the internal power wiring shall be made using 10Sq.mm PVC cable on suitable termination. The PF contacts of class C arrestor shall be wired using 2.5Sq.mm cable. The earthing point on the arrestor shall be connected to the maintenance free earth bus bar using insulated cadmium bronze cable of size 3/16". The connecting cable used to extend main power to surge arrestors shall be PVC insulated cable of multi-strand copper cable of 10Sq.mm size. All the materials required for the above work except surge arrestors and cadmium cable(Covered in supply portion) are to be arranged by contractor.							
22	0	443.00	Lumpsum	103.00	45629.00	AT Par	45629.00	
	Description:- Cutting and fixing of Hylam sheet of 6 mm thickness to suit to 1 way relay rack and fixing the following with contractors screws, bolts and nuts and fixing strips, condensers and resistances of various values - 50 No.							
23	0	3240.00	Day	608.00	1969920.00	AT Par	1969920.00	
	Description:- Providing the services of Computer oriented technical manpower to carryout works like Drawing, computation, write up etc., using computer, using software like AUTOCAD, MS Office etc., for 08.00 hrs in a day with all expenses of transportation, accommodation, food, consumables etc., with all ascents, descents, taxes, octroi, cess, fees, duties, duties with contractors cost etc., as per special conditions/ specifications/ regulations and as directed by Engineer-in-charge. Note: The person engaged for providing the services shall be convergent with computer working knowledge in above software.							
24	0	1.00	Per Unit	64900.00	64900.00	AT Par	64900.00	
	Description:- Supply and installation of Software for MS Project Plan 3 with two years subscription for monitoring the work at various levels. Per Unit stands for User.							
	0	60.00	Month	31027.00	1861620.00	AT Par	1861620.00	

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25	Description:- Transportation of light materials/men with tools, documents from central location to the work spot and back (Per month).						
26	0	15.00	Numbers	9534.00	143010.00	AT Par	143010.00
	Description:- Supply and installation of UPS 1000VA , 30 min backup, Numeric / APC, as per instructions of engineer in charge. Inspection by consignee.						
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount
Schedule 3-Supply of Signalling & Telecom materials							Bidding Unit
							40575001.10
							Above/ Below/Par
1	0	60.00	Kilometre	76811.00	4608660.00	AT Par	4608660.00
	Description:- Supply of 40 mm diameter permanently lubricated HDPE telecom: ducts (with chord) as per RDSO SPEC. No. RDSO/SPN/TC/15/2013 Rev. 2.0 with latest amendments or Latest in length of 1000mtrs/roll for each km. Of HDPE duct following item are to be supplied (a) end plugs- 2 nos. (b) cable sealing plugs -2 nos .(c) plastic couplers slip fit /pushfit type - 2 nos. (d) end caps to be provided along with drum- 2 nos. Colors advised for pipe is 50% bright Orange & 50% bright Green. The following materials are to be supplied with every lot of 10 km (i) Rotary duct cutter - 1no. (ii) C spanner - 1no. (iii) Chamfering tool - 1no. Inspection by RITES.						
2	0	5000.00	Metre	394.00	1970000.00	AT Par	1970000.00
	Description:- Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest ammendment. Inspection by Rep. of Railway Engineer.(i) Multi strand ISI copper cable (35 Sq.mm) (Red-45%, Black-45% & Green-10%).						
3	0	17680.00	Set	632.00	11173760.00	AT Par	11173760.00
	Description:- Supply of clip on terminals (WAGO Terminal) as per RDSO Specification No. 189/2004 which consists as per following: a) 2 Conductor disconnect type terminal block as per Model No. 280-870 -- Qty: 6 No. b) End plate type 280-374 suitable for disconnect terminal of Model No.280-870 -- Qty: 1 No. c) End stop terminal block type 249-117 -- Qty: 2 No. d) Shorting links (16A) as per model 280-402. Qty.6 Nos. (Inspection by RDSO)						
4	0	117.00	Numbers	3096.00	362232.00	AT Par	362232.00
	Description:- Supply of Tag block 200 way to RDSO Spec. No. IRS.S.77/2006 (Rev.1) of Drg.No.SA.24751 (STATION+LC AU FOR TCAS WORK)						
5	0	220.00	Numbers	19499.00	4289780.00	AT Par	4289780.00
	Description:- Supply of lightening and surge arrestors of class B&C suitable for single phase supply in TT network as per amendment 5 of RDSO spec. No. RDSO/SPN/165/2004 or or Latest and as recommended by RDSO letter No. STS /E/IPS/GENL dtd: 27.01.06 (Amendment 5). Inspection by RITES.						
6	0	220.00	Numbers	78.00	17160.00	AT Par	17160.00
	Description:- Supply of Universal lock with one key for every 10 locks. Inspection by consignee.						
7	0	1000.00	Metre	158.00	158000.00	AT Par	158000.00
	Description:- Supply & laying of DWC pipe of 77 mm outer dia/63 mm inner dia in length of 6 Mtr with coupler. Inspection by Rep. of Railway Engineer.						
8	0	15.00	Numbers	80102.00	1201530.00	AT Par	1201530.00
	Description:- Handheld similar to MECO electronic earth tester make MECO model no 4680B/higher version or similar. Inspection by consignee.						
9	0	15.00	Numbers	6098.00	91470.00	AT Par	91470.00
	Description:- Supply of Clip On Meter similar to MECO 2700 Model or equivalent with similar features. Inspection by consignee.						
10	0	15.00	Numbers	3888.00	58320.00	AT Par	58320.00
	Description:- Supply of digital insulation tester: Specification range 50V-1000V DC, Voltage 25V-600V AC/DC, Continuity, Low ohms and strong memory last 50 reading with fuse blown indicator. Make Rishab/ Meco/Fluke or similar. Inspection by consignee.						
11	0	15.00	Numbers	25611.00	384165.00	AT Par	384165.00
	Description:- Supply of Digital multimeter Fluke-289 or latest higher version with testing lead complete with case and spare set of batteries. Inspection by consignee.						
12	0	6.00	Numbers	296233.00	1777398.00	AT Par	1777398.00
	Description:- Supply of portable Cable fault locator (Metallic Time Domain Reflectometer) suitable in RE/Non RE Railway territory with all accessories for locating faults such as loop and break in various twisted pair cable such as underground telecom quad cables, signalling cables , telephone jelly filled cables, LAN etc. Instrument to be supplied with protective nylon carrying bag and operators manual. make/model:Radio detection riser bond, Model 3300 or make/model:RC-RT (TDR) MRPC/Rail 2018 or latest equivalent along with other OEM or OEM authorized with documentary proof. Inspection by consignee.						

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13	0	6.00	Numbers	519731.00	3118386.00	AT Par	3118386.00	
	Description:- Supply of Cable (route) locator - RIDGID make model SR-20 or similar. Inspection by consignee.							
14	0	324.00	Numbers	4071.00	1319004.00	AT Par	1319004.00	
	Description:- Supply of Reclining Chair for Camping to be used in field during inspection and SAT testing of Dechathlon make or similar. Inspection by consignee.							
15	0	160.00	Sqm	5224.45	835912.00	AT Par	835912.00	
	Description:- Supply of thick Kodak photo paper with lamination of various sizes with different lettering and languages in required size as per the instructions of site incharge. Proportionate payment to the size of boards. Inspection by consignee.							
16	0	15.00	Numbers	34466.00	516990.00	AT Par	516990.00	
	Description:- Supply of A3 Printer for printing NMS fault and exception reports similar to Epson L 1300 model or latest. Inspection by consignee.							
17	0	250.00	Numbers	1897.44	474360.00	AT Par	474360.00	
	Description:- Provision of CUG Sims for Train Collision Avoidance System. Inspection Agency: Consignee.							
18	0	15.00	Numbers	98850.00	1482750.00	AT Par	1482750.00	
	Description:- Supply of maintenance console (PC & printer) with one set of table and chair for datalogger/RTU for online tracking and monitoring of station position as per "Annexure-I" enclosed. Inspection by Rep. of Railway Engineer.							
19	0	1500.00	Numbers	1133.00	1699500.00	AT Par	1699500.00	
	Description:- Supply of Optical fibre Patch cords with SC-SC or suitable connectors on both ends as per site requirement for interconnection between FMS to FMS or other device of length 10 Mtrs. Each as per TEC 0 240 Numbers 1232.00 At Par 295680.00 Specification No. G/OFJ-01/03 JUN 99 (With latest amendment). Max Permissible loss-0.2dB. Inspection by Rep.of Railway Engineer.							
20	0	6.00	Numbers	192750.00	1156500.00	AT Par	1156500.00	
	Description:- Digital copier/Scanner and networking system for preparation of RFID Tag DATA, Tower Drawings, Station TCAS circuits, daily TCAS NMS reports to Divisions, HQRS, RDSO and Railway Board, documentation of other TCAS . Inspection by consignee.							
21	0	5.00	Numbers	69609.00	348045.00	AT Par	348045.00	
	Description:- Supply of Handheld service terminal/ portable service terminal compatible with EMS & NMS as per specification contained in tender document. It shall be capable to plug-in remote service terminal either in interface provided at ADM, Digital Cross connect or Multiplexer, Programming any network element from any location of the network. It shall be possible to read any fault status of any ADM, Cross connect, MUX by using service terminal. (Specification as per Annexure-II)							
22	Please see Item Breakup for details.				773500.00	AT Par	773500.00	
	Description:- Non-deteriorating type low voltage electric fuse for Railway signalling, rated voltage 240 V AC/DC fuse with cylindrical cap without indication size :14x 51 mm. Spec. no: IRS-S-78/92 with latest amendment if any. Inspection by RDSO.							
23	0	15.00	Numbers	15866.94	238004.10	AT Par	238004.10	
	Description:- Supply of EURO rack for Data logger (insp. by Consignee)							
24	0	15.00	Numbers	36000.00	540000.00	AT Par	540000.00	
	Description:- Supply of Analog Mother Board (EFF-827) for 99/0 for Datalogger (Insp Agency-RDSO)							
25	0	15.00	Numbers	60000.00	900000.00	AT Par	900000.00	
	Description:- Supply of Extension mother board for 99/06 Data Logger. (insp. by RDSO)							
26	0	40.00	Numbers	5250.00	210000.00	AT Par	210000.00	
	Description:- Supply of 128 inputs digital tag block for Datalogger (insp. by Consignee)							
27	0	30.00	Numbers	1420.00	42600.00	AT Par	42600.00	
	Description:- Supply of Protection strip for 99/06 DL with ribbons and other accessories for Datalogger (Insp. By Consignee)							
28	0	15.00	Numbers	23625.00	354375.00	AT Par	354375.00	
	Description:- Supply of Analog with Controller Card (EFF-828) for 99/06. for Datalogger (Insp. By RDSO)							
29	0	20.00	Numbers	8630.00	172600.00	AT Par	172600.00	
	Description:- Supply of Rare plate and 64 Pin Connectors for Datalogger (Insp. By Consignee)							
30	0	30.00	Numbers	10000.00	300000.00	AT Par	300000.00	
	Description:- Up gradation installation Testing & commissioning of Existing data logger							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit

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Schedule 4-Supply of Cables							20955340.00	Above/ Below/Par
1	0	60.00	Kilometre	88068.00	5284080.00	AT Par	5284080.00	
	Description:- Supply of 2 4 Fibre armoured OFC as per RDSO spec No. RDSO/SPN/TC/110/2020 or latest. Inspection by RDSO.							
2	0	60.00	Kilometre	217114.00	13026840.00	AT Par	13026840.00	
	Description:- Supply of Cable 12 core Un Screened, PVC insulated, Armoured, Under Ground railway signalling cable (copper conductor) 1.5 Sq.mm, RDSO specification No. IRS:S:63/2014 (Rev 4.0) or Latest. Inspection by RDSO.							
3	0	10.00	Kilometre	264442.00	2644420.00	AT Par	2644420.00	
	Description:- Supply of Underground Railway jelly filled 6 Quad cable with spec no. IRTS 30-2005 Ver 1. with amen. 1 to 5 or latest of size dia 0.9mm in drums of 1 km. Inspection by RDSO.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 5-Supply & Execution of Drawing							3312684.00	Above/ Below/Par
1	0	7632.00	Per Page	87.00	663984.00	AT Par	663984.00	
	Description:- Drafting, Correction, Editing and final Printing and binding of SWR/ GWR/Temporary working Rules of station to suite the SWRD, SIP etc in both Hindi and English. After signature Printing and binding of the SWR/GWR in 06 copies.							
2	0	3240.00	Sheet	817.50	2648700.00	AT Par	2648700.00	
	Description:- Design & Preparation of Circuits and drawings (a) Design and development of Route Control Chart (RCC) in size B(A3) as per SEM.(b) Design and development of Circuit Diagram/Logic in size B(A3) as per SEM sheet including contact analysis.(c) Other Signalling Drawing in size U(A3) as per SEM sheet (wiring in location box) (d) Miniature diagram in size B(A3)							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 6-Execution of Civil Works(USSOR-2010)							37033000.00	Above/ Below/Par
1	0	1.00	Lumpsum	37033000.00	37033000.00	AT Par	37033000.00	
	Description:- Execution of all works as per Indian Railway Unified Standard Specifications (Works & materials) connected with the work covered under S.E.C. Railway USSOR (Works & Materials) 2010. This is the tentative value of works to be executed against different sections of SECR for guidance of tenderers (Item Directory -SECR HQ-USSOR-2010-1-Ver-2010). Details attached as Annexure-III.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 7-Supply of Electrical General materials for S&T Goomties(Non SOR)							1162755.00	Above/ Below/Par
1	0	400.00	Numbers	510.00	204000.00	AT Par	204000.00	
	Description:- Supply of 20W LED 4' tube light fitting with tube and all its standard accessories. Inspection by Rep. of Railway Engineer.							
2	0	100.00	Numbers	1342.00	134200.00	AT Par	134200.00	
	Description:- Supply of energy efficient Ceiling fan (5 star rating), 1200 mm sweep along with electronic fan regulator & all accessories to work on 230 Volts AC supply. (Crompton, Usha, Havells or Konark make). Inspection by Rep. of Railway Engineer.							
3	0	20.00	Numbers	1694.00	33880.00	AT Par	33880.00	
	Description:- Supply of exhaust fan of 300 mm sweep complete with all accessories to work on 230 Volts AC supply. (Crompton, Usha, Bajaj, Havells, Khaitan, Anchor or Surya make. Inspection by Rep. of Railway Engineer.							
4	0	100.00	Numbers	720.00	72000.00	AT Par	72000.00	
	Description:- Supply of DP MCB 32 A MCB complete with sheet steel enclosure , powder painted. Inspection by Rep. of Railway Engineer.							
5	0	100.00	Numbers	2880.00	288000.00	AT Par	288000.00	
	Description:- Supply of 25W LED outdoor LED street light with complete fitting & all its standard accessories,comprises of pressure die cast aluminium housing powder coated in graphite grey and toughened glass. Inspection by Rep. of Railway Engineer.							
6	0	100.00	Numbers	164.00	16400.00	AT Par	16400.00	
	Description:- Supply of 5 pin modular socket outlet with switch of 6 Amps capacity & 250V grade complete with accessories. (ABB, Havells, Wipro, Anchor, HPL or any other make that confirms to respective IS). 230V. Inspection by Rep. of Railway Engineer.							

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7	0	100.00	Numbers	251.00	25100.00	AT Par	25100.00	
	Description:- Supply of 5 pin modular socket outlet with switch of 16/6 Amps capacity & 250V grade complete with accessories. (ABB, Havells, Wipro, Anchor, HPL or any other make that confirms to respective IS). Inspection by Rep. of Railway Engineer.							
8	0	100.00	Numbers	1485.00	148500.00	AT Par	148500.00	
	Description:- Supply of MS distribution box of size 200 x 200 x 120 mm with 2 Nos suitable size aluminium busbar arrangement of 100 Amps capacity. Inspection by Rep. of Railway Engineer.							
9	0	25.00	Numbers	867.00	21675.00	AT Par	21675.00	
	Description:- Supply of JB of 200 x 150 x 80 mm with Hylam sheet. Inspection by Rep. of Railway Engineer.							
10	0	100.00	Numbers	1434.00	143400.00	AT Par	143400.00	
	Description:- supply of wall mounted 4 way metallic sub-distribution board with 04 Nos 250V,16A SP MCB, busbar, neutral and earthing arrangement etc. Inspection by Rep. of Railway Engineer.							
11	0	100.00	Numbers	756.00	75600.00	AT Par	75600.00	
	Description:- Supply of Bulk head fitting with glass dome, wire guard & 5W LED lamp and all its standard accessories. Inspection by Representative of Railway Engineer.							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 8-Electrical(General) Execution work for S&T Goomties (Non SOR)							513965.00	Above/ Below/Par
1	0	100.00	Numbers	285.00	28500.00	AT Par	28500.00	
	Description:- Fixing, wiring & testing of out door LED fitting with short arm fixture.							
2	0	400.00	Numbers	13.00	5200.00	AT Par	5200.00	
	Description:- Fixing of of LED tube light, bulkhead, fitting							
3	0	100.00	Numbers	15.00	1500.00	AT Par	1500.00	
	Description:- Fixing & connecting of ceiling fan							
4	0	20.00	Numbers	27.00	540.00	AT Par	540.00	
	Description:- Fixing & connecting of exhaust fan							
5	0	600.00	Numbers	443.00	265800.00	AT Par	265800.00	
	Description:- Concealed wiring for lights, exhaust & fans with modular type switches : Concealed wiring with modular type switches 1.5 sq mm single core flexible FRLS copper wire as per representative of Railway Engineer.							
6	0	100.00	Numbers	13.00	1300.00	AT Par	1300.00	
	Description:- Fixing & connecting of socket outlet with switch of 5 pin, 16/6 Amp capacity & 250 volts							
7	0	100.00	Numbers	52.00	5200.00	AT Par	5200.00	
	Description:- Erection, testing and commissioning of MCB-DP of 32 Amp capacity and 250V with sheet metal enclosure.							
8	0	100.00	Numbers	187.00	18700.00	AT Par	18700.00	
	Description:- Fixing & Installation of MS distribution box							
9	0	25.00	Numbers	85.00	2125.00	AT Par	2125.00	
	Description:- Fixing of Junction Box							
10	0	100.00	Numbers	1790.00	179000.00	AT Par	179000.00	
	Description:- Supply of earthing materials & erection of earth electrodes/station as per details described in EXPLANATORY NOTES.							
11	0	100.00	Numbers	61.00	6100.00	AT Par	6100.00	
	Description:- Erection of Metallic distribution board							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 9-Hiring of Vehicle							4644000.00	Above/ Below/Par
1	0	108.00	Month	43000.00	4644000.00	AT Par	4644000.00	
	Description:- Hiring of Vehicle for execution of the TCAS Project (Monthly basis cab & Taxi Hiring services-SUV or Similar; 2500 KM per month outstation 24*7)							

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 10-Supply & Execution of Man Power							2119050.00	Above/ Below/Par

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1	0	1500.00	Day	804.70	1207050.00	AT Par	1207050.00	
	Description:- Hiring of Skilled Labour assistance SE/JE in day to day works i.e. assisting for exact fixing of RFID tags, TCAS units, identifying ECR/ECPR contacts, static and dynamic testing, taking of measurements, nothing of daily work status, carrying the tools & equipments etc watch & ward during the course of execution of work as per the instructions of concerned SE/JE (as per chief labour commissioner letter No.1/131/1/2016-LS-II dt:31.3.16)							
2	0	1500.00	Day	608.00	912000.00	AT Par	912000.00	
	Description:- Hiring of Unskilled Labour assistance SE/JE in day to day works i.e. giving marking of cable route, cable laying, taking of measurements, noting of daily work status, carrying the tools & equipment etc., watch & ward during the course of execution of work as per the instructions of concerned SE/JE (as per chief labour commissioner letter No.1/131/1/2016-LS-II dt:31.3.16)							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 11-SOR-(Schedule-A)-Execution of Out Door Signalling work							19251137.00	Above/ Below/Par
1	0	15.00	Kilometre	92115.00	1381725.00	AT Par	1381725.00	
	Description:- Excavation of trench and clearing of roots of trees, bushes, ballast and reconditioning etc., including bailing out water and disposal of extra soil. All soils including soft rocky area-Depth 1.2 Mtr. & width 0.3 Mtr. Note: This includes guarding of cables, relaying of cables and redoing of cable jointing in case of the thefts or otherwise at contractor's own cost till commissioned. [SOR-2021 for S&T works- Sch 'A' item no. 1(i)(a)]							
2	0	50.00	Kilometre	76590.00	3829500.00	AT Par	3829500.00	
	Description:- Excavation of trench and clearing of roots of trees, bushes, ballast and reconditioning etc., including bailing out water and disposal of extra soil. All soils including soft rocky area-Depth 1.0 Mtr. & width 0.3 Mtr. Note: This includes guarding of cables, relaying of cables and redoing of cable jointing in case of the thefts or otherwise at contractor's own cost till commissioned. [SOR-2021 for S&T works- Sch 'A' item no. 1(i)(b)]							
3	0	3000.00	Metre	115.00	345000.00	AT Par	345000.00	
	Description:- Excavation of trench and clearing of roots of trees, bushes, ballast and reconditioning etc., including bailing out water and disposal of extra soil. Hard rocky area including concreting-Chase cutting and smoothing of inside surface of sizes 0.08 m deep and 0.17 m width at platform and cemented floor area. Note: This includes guarding of cables, relaying of cables and redoing of cable jointing in case of the thefts or otherwise at contractor's own cost till commissioned. [SOR-2021 for S&T works- Sch 'A' item no. 1(ii)(a)]							
4	0	100.00	Kilometre	16740.00	1674000.00	AT Par	1674000.00	
	Description:- Laying of Signalling Cable/Power/Quad cable / PIJF cable in the excavated trench to Drg.No:CON/SK/T/5.Transportation, supply of 'U' clamps and anchoring of cable at every 10 Mtrs with 'U' clamp to Drg.No:CSTE/C/Cable/81 including back filling with excavated earth and ramming of trenches after cable laying. Note: This includes guarding of cables, relaying of cables and redoing of cable jointing in case of the thefts or otherwise at contractor's own cost till commissioned. [SOR-2021 for S&T works-Sch 'A' item no. 2(a)]							
5	0	3000.00	Metre	775.00	2325000.00	AT Par	2325000.00	
	Description:- Laying of RCC pipe including supply of required quantity at site with collars (for jointing pipe) 150 mm nominal dia to Spec.No:IS-458 in excavated trench and laying of Signalling/ Power cable/PIJF cable/ Quad cables/HDPE pipe through RCC pipe. Power cable shall be laid in the same trench alongwith signalling/Quad cables but in a separate pipe RCC pipe at track/pucca road/ Platform crossing/ level crossing gate etc. Note: This includes guarding of cables, relaying of cables and redoing of cable jointing in case of the thefts or otherwise at contractor's own cost till commissioned. [SOR-2021 for S&T works-Sch 'A' item no. 2(d)]							
6	0	60.00	Per Unit	1282.00	76920.00	AT Par	76920.00	
	Description:- Shifting of cables in roll with or without wooden drums from other than nominated consignee depot and meggering before loading and after laying and recording the values in cable insulation register along with representative of Railways. Here per unit denotes Drum/Roll. [SOR-2021 for S&T works-Sch 'A' item no. 3]							
	0	220.00	Numbers	17067.00	3754740.00	AT Par	3754740.00	

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7	Description:- The excavation of pit, casting of concrete foundation including surrounding earthwork along the foundation, erection, installation and wiring of steel apparatus case, fixing of terminals, fuse blocks, signal transformer, current transformer, filament switching unit, track battery chargers, adjustable/fixed resistances, choke coils, Fuses, Relays, E type locks , termination of cables, cable insertion, wiring to draw 110V AC therefore in the new apparatus case as required, testing, commissioning including subsequent alterations (if required), bunching of cables, earthing of cable, armours etc. Painting of the apparatus case inside and outside after clearing the surface thoroughly and first coating of anti -corrosive paint and subsequent two coatings of Aluminum paint outside and Red Oxide inside and lettering. 18 mm Hylum sheet for location box shelf and 12 mm for cable termination in location box. Steel apparatus case (Large) to Drg. No. CON/SK/T/8 with 4 Nos. of foundation bolts 20mm x 460mm to Drg. No. SA-112 A/M or latest.NOTE: - Payment can be released in a part for the above said work after completion of- (i) Foundation- 30%,(ii) Erection - 15% , (iii) Wiring, testing, painting, sand filling, plastering, earthing & writings etc - 45% ,(iv) Commissioning - 10% of the rate.[SOR-2021 for S&T works-Sch 'A' item no. 4(a)]							
8	0	442.00	Numbers	1941.00	857922.00	AT Par	857922.00	
	Description:- Excavation of earth pit, transportation, placing and fixing of earth electrode with construction of cement enclosure to Drg. No. CON/SK/T/9 and CON/SK/T/9A and drawl of GI wire wrapped on MS strip (35 x 6 mm) from earth electrode to all signalling equipments, including fixing and soldering of lugs at both end of the wire.[SOR-2021 for S&T works-Sch 'A' item no. 8]							
9	0	200.00	Hour	603.00	120600.00	AT Par	120600.00	
	Description:- Deployment of Procline/ Hydra operation at site for exposing the burried cables or relocation the Location Box/ Signal Post with foundation as per the advice of Railway site engineer. [SOR-2021 for S&T works- Sch 'A' item no. 28]							
10	0	1500.00	Numbers	415.00	622500.00	AT Par	622500.00	
	Description:- Fixing of concrete cable route marker at 30-40 meter and at diversion point including supply & transportation of cable route marker at site. Detail size & fixing of cable route marker should be followed as per drawing no. SDO/Cable laying/020.[SOR-2021 for S&T works-Sch 'A' item no. 32]]							
11	0	1000.00	Metre	241.00	241000.00	AT Par	241000.00	
	Description:- Physical tracing and opening/locating of existing working cables by precession digging for diversion of cables in connection with cable clearance for engineering earth work without interfering the circuits as per the advice of Railway site engineer. [SOR-2021 for S&T works- Sch 'A' item no. 30]							
12	0	60.00	Kilometre	32603.00	1956180.00	AT Par	1956180.00	
	Description:- Laying of second class bricks including supply of required quantity at site on single/multiple cable laid in the trench (Approx 9 bricks per mtr).NOTE : This includes guarding of cables, relaying of cables and redoing of cable jointing in case of the thefts or otherwise at contractor's own cost till commissioned.[SOR-2021 for S&T works- Sch 'A' item no. 2(g)]							
13	0	25000.00	MT-Km	38.00	950000.00	AT Par	950000.00	
	Description:- Collecting, stacking with deployment of Man power, Hydra etc for Loading/ Unloading and Transportation of Materials (Fresh/Released/ Unused) from (i) work site to GSD/Raipur, (ii) work site to the store of SSE(SIG)/CON,(iii) any store depot to any other store depot over Indian railways as decided by Railway Administration by suitable Trucks and stacking properly.[SOR-2021 for S&T works- Sch 'A' item no. 17]							
14	0	442.00	Sqm	2525.00	1116050.00	AT Par	1116050.00	
	Description:- Supply, Transportation, fabrication and fixing of Hylum sheet of 12 mm thickness as per site requirement.[SOR-2021 for S&T works-Sch 'A' item no.37]							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 12-SOR-(Schedule-A1)-Execution of Indoor Signalling work							20206325.00	Above/ Below/Par
1	0	250.00	Numbers	48363.00	12090750.00	AT Par	12090750.00	
	Description:- Q-series/Composite Relay Racks and cable termination racks (New).NOTE: Payment can be released in a part for the above said work after completion of- (i) Erection- 15%,(ii) Wiring, testing, painting, earthing & writings etc - 75% ,(iii)Commissioning of Relay rack/Composite rack/CTR- 10% of Schedule rate.[SOR-2021 for S&T works-Sch 'A1' item no. 1(a)]							
2	0	405.00	Numbers	19785.00	8012925.00	AT Par	8012925.00	
	Description:- Alteration of existing Q-series/Composite Relay Racks and cable termination racks. [SOR-2021 for S&T works-Sch 'A1' item no. 1(b)]							
3	0	170.00	Each	310.00	52700.00	AT Par	52700.00	
	Description:- Charging and installation of secondary cell 2 V (lead acid type), and preparation of electrolyte for lead acid cells. If power is not available at site of work, charging may be done at nearby location as per convenience of the Railway. Initial Charging to be done in presence of Rlys representative from executive agency as well as maintenance org, with uninterrupted supply.(i) 2 Volt 40AH/80AH/120AH/200AH/300AH. [SOR-2021 for S&T works- Sch 'A1' item no. 4]							
	0	50.00	Numbers	999.00	49950.00	AT Par	49950.00	

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4	Description:- Installation, cable termination, wiring, testing of magneto telephones.[SOR-2021 for S&T works Sch 'A1' item no. 13]							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 13-SOR-(Schedule-B)-SUPPLY OF FERROUS MATERIALS							6385666.00	Above/ Below/Par
1	0	230.00	Numbers	9386.00	2158780.00	AT Par	2158780.00	
	Description:- Relay Rack for 'Q' Series Relay as per Drg. No: SK/DRG/OL/SER/192 SH 2/2. The relay racks must be powder coated of stone grey colour. Inspection by Rep. of Railway Engineer.[SOR-2021 for S&T works-Sch 'B' item no. 17]							
2	0	20.00	Numbers	10935.00	218700.00	AT Par	218700.00	
	Description:- Composite Relay Rack as per drg.No.SK/DRG/OL/SER/192- SH1/2.The relay racks must be powder coated of stone grey colour. Inspection by Rep. of Railway Engineer.[SOR-2021 for S&T works-Sch 'B' item no. 18]							
3	0	442.00	Numbers	1213.00	536146.00	AT Par	536146.00	
	Description:- Earth Electrodes to Drg. No: Con/SK/8/3/84. Inspection by RITES. [SOR-2021 for S&T works-Sch 'B' item no. 25]							
4	0	220.00	Numbers	15782.00	3472040.00	AT Par	3472040.00	
	Description:- Steel Apparatus Case(Large) as per Drg.No.Con/SK/1/1/86 , with E type lock on both side having ward No.32.Inspection by RITES.[SOR-2021 for S&T works-Sch 'B' item no. 14]							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 14-SOR-(Schedule-B1)-Supply of Signalling Battery (Secondary cell)							947580.00	Above/ Below/Par
1	0	170.00	Numbers	5574.00	947580.00	AT Par	947580.00	
	Description:- Low maintenance lead acid stationary secondary cells for S&T installations made of hard rubber container and with initial charging of nominal voltage 2 volts as per Specn.No.IRS-S-88/2004 with latest amd. Inspection by RDSO. - 200 AH. [SOR-2021 for S&T works- Sch 'B1' item no. 1(a)(iii)]							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 15-SOR-(Schedule-B2)-Supply of Signalling materials							16453602.00	Above/ Below/Par
1	0	30.00	Kilometre	122245.00	3667350.00	AT Par	3667350.00	
	Description:- Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest amendment. Inspection by Rep. of Railway Engineer. Multi strand ISI copper cable (16 Sq.mm) (Red-45%, Black-45% & Green-10%).[SOR-2021 for S&T works- Sch 'B2' item no.1(ii)(e)]							
2	0	50.00	Kilometre	116166.00	5808300.00	AT Par	5808300.00	
	Description:- Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest amendment. Inspection by Rep. of Railway Engineer. Multi strand ISI copper cable (10 Sq.mm) (Red-50%, Black-50%).[SOR-2021 for S&T works-Sch 'B2' item no. 1(ii)(d)]							
3	0	400.00	Kilometre	10784.00	4313600.00	AT Par	4313600.00	
	Description:- Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest amendment. Inspection by RDSO. 16/0.2 mm dia. (50% grey, 30% black & 20% yellow). [SOR-2021 for S&T works-Sch 'B2' item no. 1(i)(c)]							
4	0	12.00	Kilometre	147469.00	1769628.00	AT Par	1769628.00	
	Description:- Cable PVC insulated single core unsheathed with plain annealed copper conductor as per the colour coding scheme of Railways. Spec. no: IRS-S-76/89 with latest amendment. Inspection by RDSO. Indoor cable as per IRS-S-76/89 with latest amendment. 60x0.6 mm dia, [SOR-2021 for S&T works- Sch 'B2' item no.1(i)(e)]							
5	0	884.00	Numbers	361.00	319124.00	AT Par	319124.00	
	Description:- ARA terminal for Signalling Installation with PBT materials. Inspection by RDSO.6 Way (ARA terminal) Drg No.SA-23756 Alt3, Specn No. IRS-S-75/2006 (Rev.-2) with latest amd. [SOR-2021 for S&T works-Sch 'B2' item no. 5]							
6	0	20.00	Numbers	14375.00	287500.00	AT Par	287500.00	
	Description:- Supply of the following furniture for SM / relay room. Inspection by Rep. of Railway Engineer. Table of Godrej make. Model No. WT 718 + ERU or latest. [SOR-2021 for S&T works- Sch 'B2' item no. 12(b)]							

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7	0	20.00	Numbers	14405.00	288100.00	AT Par	288100.00	
	Description:- Supply of the following furniture for SM / relay room. Inspection by Rep. of Railway Engineer. Chair. Model PCH-5001T(Revolving) or latest. Make: Godrej .[SOR-2021 for S&T works- Sch 'B2' item no. 12(a)]							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 16-SOR-(Schedule-B3)-Supply of Electrical & Electronics materials							69564215.00	Above/ Below/Par
1	0	77.00	Numbers	20052.00	1544004.00	AT Par	1544004.00	
	Description:- Installation, Wiring, Testing and commissioning of Remote terminal unit with 64 digital & 16 analog inputs with modem as per RDSO spec. no - IRS-S- 99/2006 or latest.[SOR-2021 for S&T works-Sch 'B3' item no. 13(i)(b)]							
2	0	150.00	Set	9469.00	1420350.00	AT Par	1420350.00	
	Description:- Transportation, installation, testing & commissioning of fuse indication cum monitoring and automatic changeover system as mentioned above.[SOR-2021 for S&T works-Sch 'B3' item no. 24(b)]							
3	0	350.00	Numbers	5882.00	2058700.00	AT Par	2058700.00	
	Description:- Installation, testing and commissioning of Permanent and Maintenance Free Earth pits. Installation charges : Earth pit (1 Set) It includes, Civil works related to earth pit digging, PMF earth pit installation, backfilling and chamber making. Materials for chamber including Chamber Cover. [SOR-2021 for S&T works- Sch 'B3' item no. 7(B)]							
4	0	8000.00	Numbers	3821.00	30568000.00	AT Par	30568000.00	
	Description:- Relay, Non-AC Immune, plug-in type, Style "QN1", Neutral line, 24V DC 12F/4B contacts, front and back contacts metal to carbon with plug board, retaining clip & connectors conforming to BRS:930, IRS:S 34 & IRS:S 23. The interlocking code for this unit shall be ABCDE. Inspection by RDSO. [SOR-2021 for S&T works- Sch 'B3' item no.1(a)]							
5	0	100.00	Numbers	4032.00	403200.00	AT Par	403200.00	
	Description:- Relay, AC Immune, plug-in type, Style "QNAI", Neutral line, 24V DC 12F.4B contacts, front and back contacts metal to carbon with plug board, retaining clip & connectors conforming to BRS:931A, IRS:S 60, IRS:S 34 & IRS:S 23. The interlocking code for this unit shall be ABDFH . Inspection by RDSO.[SOR-2021 for S&T works- Sch-B3-1(c)]							
6	0	8.00	Numbers	497388.00	3979104.00	AT Par	3979104.00	
	Description:- Supply of datalogger system for Railway S&T installation as per RDSO specification no. IRS:S-99/2006 (amendment - 3) or latest with -Digital Input 512, Analog Input 64. Inspection by RDSO. [SOR-2021 for S&T works-Sch 'B3' item no. 5(a)(i)]							
8	0	350.00	Numbers	23526.00	8234100.00	AT Par	8234100.00	
	Description:- Earthing and bonding system as per RDSO Spec. No. RDSO/SPN/197/2008 , RDSO Drg. No. SDO/RDSO/E&B/001 dt. 19.09.08 and RDSO Drg. No. SDO/RDSO/E&B/002 dt. 19.09.08. Earthing and bonding system for Relay Room, IPS Room, SPD Box, Operator panel in SM's room, signalling equipments in Station building, Block circuit, SSDAC, etc. Inspection by Representative of Railway Engineer. Supply of "Permanent and Maintenance Free Earth pits materials". 1 Set PMF earth pit consisting of:17 mm diameter and minimum 3 m long Copper Bonded Steel Rod - 1No, GEM- 25 lb - 3 Bags, 25*6*150 mm Cu Bus Bar- 2 No, Cu lugs and nut bolt 2 nos, Supply for Connection between Earth pits and MEBB It includes 35 sq mm multi-strand pvc insulated single core Cu cable (15 mtr Lump Sum). Supply for Internal connection from MEBB To SEBB and to other equipments. (50 mtr Lump Sum).It includes 16 sq mm and 10 sq mm multi strand pvc insulated single core Cu cable. [SOR-2021 for S&T works- Sch 'B3' item no. 7(A)]							
9	0	150.00	Set	37882.00	5682300.00	AT Par	5682300.00	
	Description:- Supply of fuse indication cum monitoring and automatic changeover system as per RDSO specification no. RDSO/SPN/209/2012 Rev. 0 or latest. The system shall be supplied along with all standby fuses placed in the system. In addition to it, spare quantity of 100% fuses of each type shall also be supplied along with the system. Inspection by RDSO. For 32 fuses per set (Upto 4Amps). [SOR-2021 for S&T works-Sch 'B3' item no. 24(a)]							
10	0	77.00	Numbers	200509.00	15439193.00	AT Par	15439193.00	
	Description:- Supply of Remote terminal unit with 64 digital & 16 analog inputs with modem as per RDSO spec. no - IRS-S- 99/2006 or latest. Inspection by RDSO.[SOR-2021 for S&T works-Sch 'B3' item no. 13(i)(a)]							
11	0	8.00	Numbers	29408.00	235264.00	AT Par	235264.00	
	Description:- Installation, wiring, testing and commissioning of Digital Input 512, Analog Input 64 datalogger system as per RDSO specification no. IRS:S-99/2006 (ammedent - 3) or latest including networking and central monitoring along with installation of remote monitoring software and hardware. The contractor is also required to list out the no. of analog & digital inputs for wiring & operation of the datalogger by taking approval of the Rly. for those inputs. This includes training to 4 staffs at site.[SOR-2021 for S&T works-Sch 'B3' item no. 5(b)(i)]							

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Schedule 17-SOR-(Schedule-C)-Execution of Telecom work							5941930.00	Above/ Below/Par
1	0	10.00	Kilometre	336450.00	3364500.00	AT Par	3364500.00	
	Description:- Excavation of trenches including clearing of roots of trees etc. in hard/rocky soil by chiseling up to a depth of minimum 0.6 Mtr. and width 0.3 Mtr. at the bottom, supply and placing RCC hume pipe section as per drawing on sieved soil of 30mm over cable / HDPE pipe and concreting through - out the length upto a layer of 75mm. Then back filling the trench and then ramming of soil. [SOR-2021 for S&T works- Sch 'C' item no.2(b)]							
2	0	60.00	Kilometre	18672.00	1120320.00	AT Par	1120320.00	
	Description:- Transportation, loading/unloading of OFC from the stores of railway to the work site with care, pushing/pulling OFC through the HDPE pipes, sealing of the duct by sealling /caps plugs. The cable is to be laid by mechanised means. At inaccessible places where mechanised laying is not possible, the cable is to be laid manually. This also includes testing of cable drums in the store premises before transportation and submissions of results thereof. Empty cable drums to be returned by the contractor. The cable drums with unused cable at site to be returned by the contractor to the stores depot of SSE/Tele-Works/BSP.[SOR-2021 for S&T works- Sch 'C' item no. 7]							
3	0	60.00	Route Kilo Meter (RKM)	950.00	57000.00	AT Par	57000.00	
	Description:- Location survey of cable route and preparation of tentative and final cable route plan as per approved format in the section including supply of final route plan after the cables are laid and commissioned indicating clearly the exact position of the cable, joints and other critical items with reference to OHE mast & other fixed point, etc. in 12(twelve) Nos. hard bound copies on white bond paper of maximum A-3 size (well documented and bound with plastic covers)..[SOR-2021 for S&T works- Sch 'C' item no.1]							
4	0	60.00	Kilometre	7762.00	465720.00	AT Par	465720.00	
	Description:- Transportation including loading/unloading of HDPE pipe from the stores of railway to the work site, laying of the same in excavated trench/already laid GI/RCC pipes/tubes, jointing, levelling and end sealing the pipes. [SOR-2021 for S&T works- Sch 'C' item no. 6]							
5	0	50.00	Numbers	1385.00	69250.00	AT Par	69250.00	
	Description:- Execution of straight through joint on Quad cable/10-20-50 pairs PIJF cable using thermoshrink jointing kit. This includes jointing kit, transformers, excavation of cable joint pit of size 1.2m x 1.2m x 1.0m for jointing of cables, back filling and ramming after jointing.[SOR-2021 for S&T works- Sch 'C' item no.12(b)]							
6	0	60.00	Kilometre	14419.00	865140.00	AT Par	865140.00	
	Description:- Supply and placing of warning tape Orange colour of 100 mm wide printed in black as "CAUTION OFC CABLE" at every 1 mtr. interval (minimum) and to be laid in the trench in station area and as directed by the representative of Railway. [SOR-2021 for S&T works-Sch 'C' item no. 9(a)]							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 18-SOR-(Schedule-D)-Supply of Telecom materials							104080.00	Above/ Below/Par
2	0	10.00	Numbers	3483.00	34830.00	AT Par	34830.00	
	Description:- Supply of Optical fibre joint closure for straight through joint with modification for 24 fibre OFC as per Specification. No. RDSO/SPN/TC/68/2013 (with latest amendment) complete with all accessories (sealing with mechanical clamp facility) make Raychem or similar. Inspection by Rep. of Railway Engineer.[SOR-2021 for S&T works- Sch 'D' item no. 1]							
2	0	50.00	Numbers	1385.00	69250.00	AT Par	69250.00	
	Description:- Transportation & Execution of following kinds of joints on Quad Cable using thermoshrink jointing kit. This also includes excavation of cable joint pit of size 1.2m x 1.2m x 1.0m in all types of soil for jointing of copper cables, back filling and ramming after jointing- straight through joint on Quad cable/10-20-50 pairs PIJF Cable [SOR-2021 for S&T works- Sch 'D' item no. 12(b)]							

3. ITEM BREAKUP

Schedule	Schedule 3-Supply of Signalling & Telecom materials						
Item- 22	Non-deteriorating type low voltage electric fuse for Railway signalling, rated voltage 240 V AC/DC fuse with cylindrical cap without indication size :14x 51 mm. Spec. no: IRS-S-78/92 with latest amendment if any. Inspection by RDSO.						
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount	

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1	1	Fuse links 2 Amps.	Numbers	4420.00	78.00	344760.00
2	2	Fuse links 6 Amps	Numbers	4420.00	71.00	313820.00
3	3	Fuse holder 20 A capacity	Numbers	4420.00	26.00	114920.00
					Total	773500.00

4. ELIGIBILITY CONDITIONS

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

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 crores of Rupees, N=Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-VIB of GCC-2022, 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)
2	Bid Capacity: The tender/technical bid will be evaluated based on bid capacity formula detailed as Annexure-VI of GCC 2022 with latest correction slips.	No	No	Allowed (Mandatory)
3	Joint Venture: - Clause no. 17 of GCC-2022 with their qualifying criteria will be applicable in case of Joint Venture (JV) with latest correction slips.	No	No	Allowed (Mandatory)
4	Partnership firm: - Clause no. 18 of GCC-2022 with their qualifying criteria will be applicable in case of partnership firm with latest correction slips.	No	No	Allowed (Mandatory)

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	<p>The tenderer must have successfully completed or substantially completed any one of the following categories of work(s) during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: (i) Three similar works each costing not less than the amount equal to 30% of advertised value of the tender, or Two similar works each costing not less than the amount equal to 40% of advertised value of the tender, or One similar work each costing not less than the amount equal to 60% of advertised value of the tender. Similar work means: Supply, Installation, Testing & Commissioning of i) KAVACH/TCAS OR ii) RRI/PI/EI OR iii) Yard remodeling/IBS/ABS involving alteration to Electronic Interlocking OR iv) Centralized Traffic Control System/Train Management System OR v) Automatic Train Protection System OR vi) Automatic Block Signaling OR vii) Intermediate Block Signalling [as standalone or as apart of composite signaling work for Sr. no.- vi) & vii)]. Note(i): The successful bidder shall submit an undertaking from RDSO approved Kavach OEM, before the supply of material to confirm compliance with extant RDSO guidelines and to meet contract specific requirements. NOTE(ii) a. Unconditionally approved vendor or unconditionally approved developmental vendor of KAVACH equipment as per RDSO specification RDSO/SPN/196/2020 Version 4.0 or latest, appearing in RDSO vendor directory as on tender closing date shall be exempted from fulfilment of technical eligibility criteria as mentioned in above Clause 10.1 of General Conditions of Contract (GCC). For clarity, bidder evaluation criterion against Clause 10.1 and Clause 17.15.1 of GCC shall be as follows: 1. Bidder: Unconditionally approved RDSO Vendor or unconditionally approved RDSO developmental vendor. Evaluation: The bidder shall be exempted from fulfilling the technical eligibility criteria as mentioned in clause 10.1 of GCC. 2. Bidder: Joint Venture, as defined in relevant clauses of GCC having unconditionally approved RDSO Vendor or unconditionally approved RDSO developmental vendor as a member of Joint Venture. Evaluation: Such RDSO vendor shall be exempted from fulfilling the technical eligibility criteria as mentioned in clause 10.1 of GCC, for fulfilment of requirement mentioned in clause 17.15.1 of GCC(For Joint Venture bidders, the exemption from fulfilling the technical eligibility criteria as mentioned in Clause 10.1 of GCC shall be applicable only for unconditionally approved RDSO vendor or unconditionally approved RDSO developmental vendor as a member of the Joint Venture. Other members of the Joint Venture or the Joint Venture in its own name and style will have to fulfil the technical eligibility criteria as mentioned in Clause 10.1 of GCC, for fulfilment of requirement mentioned in Clause 17.15.1 of GCC). 3. Bidder: Other than those mentioned at Sl. No. 1 & 2 above. Evaluation:The bidder is required to fulfil the technical eligibility criteria of clause 10.1 of GCC.</p>	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.

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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.

Check Lst

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Credentials in support of fulfillment of eligibility criteria. (Without these documents the offer is liable to be rejected.)	No	No	Not Allowed
2	Tenderers have to submit Tender Form sheet (Annexure-I)	No	No	Not Allowed
3	Uploading of Declaration regarding Employment of Retired Engineer/Retired Railway Officer as per clause no.16 of Part-I of IRSGCC.	No	No	Not Allowed
4	SUBMISSION OF Bid Security: The Bid Security shall be deposited either in cash through e-payment gateway or submitted as Bank Guarantee bond from a scheduled commercial bank of India. If the contractor submits the BG against Bid Security in prescribed format as per GCC Apr 2022 (Acting through CSTE/Project/S.E.C. Railway, Bilaspur & Beneficiary: FA&CAO/Con/S.E.C. Railway, Bilaspur). The original Bank Guarantee should be delivered in person to Dispatch & Receipt section of the Office of CSTE/Project/SECR/Bilaspur, New Construction Building, Opposite to Little Bunny SECRWWO School, Bilaspur-495004 (Chhattisgarh).	No	No	Not Allowed
5	The above check list is not exhaustive. The tenderer must go through carefully the entire booklet and submit the tender complying with all conditions/provisions/instructions mentioned therein irrespective of the fact that they have been highlighted in the checklist or not.	No	No	Not Allowed

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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1	General conditions, special conditions of tender/contract, Instructions to tenderers, standard specifications for works and materials are laid down in Indian Railways Standard General Condition of Contract Apr-2022, Indian Railways Unified Standard Specification (Works & materials) 2010-Volume I & II (with latest amendment), "Conditions of Tender" "General Conditions of Contract" "Instructions to Tenderers" for S&T works of S.E. Railway/S.E.C. Railway all corrected up to date which will be binding on the tenderers/Contractors, can be seen at the office of Chief Signal & Telecom Engineer (Project), S.E.C. Railway, Bilaspur.	No	No	Not Allowed
2	E-Tender forms are not transferable and the same is to be submitted with digital signature by the Tenderer already registered with the site.	No	No	Not Allowed
3	Tender with any special conditions may not be considered.	No	No	Not Allowed
4	The submitted e-tender forms will be considered as digitally signed by the tenderer as a confirmation from the tenderer that the tenderer has read, agreed and accepted all the conditions and laid down documents, as well as Schedule of Tender, General and Special Conditions.	No	No	Not Allowed
5	All documents uploaded or information furnished in the website should be digitally signed by the competent authority.	No	No	Not Allowed
6	The tender offer complete in all respect and with all documents is to be submitted online by e-tendering process through the website www.ireps.gov.in before the closing time/date of this tender as mentioned in the NIT (Notice Inviting Tender). No manual offers shall be accepted.	No	No	Not Allowed
7	Tenderer must look out for NIT as soon as it is available in IREPS website and upload their offer well in advance without waiting for closing date & time, to avoid last minute hassles in their own computer system or communication line. In case of any problem with the portal is faced while filling the e-tender, Tenderers are advised to contact with the Helpdesk of IREPS portal who will render all help and assistance related with the website and portal except that related with the details of the tender. Railway will not take any responsibility for non-participation in the e-tender online for the reasons related to the website and portal or server etc. beyond the control of Railways.	No	No	Not Allowed
8	This document is the Standard Tender Document which consists of the Instruction to the Tenderers, NIT (Notice Inviting Tender), General Conditions of the Tender, Special conditions of the tender, Tender schedules, Specifications of the works & various Annexures, drawings etc. All the above mentioned documents taken together shall constitute the complete tender document hereafter referred to as "Tender Document" & have to be read together & acted upon accordingly. No part of the tender document can be relied upon or acted upon in isolation.	No	No	Not Allowed
9	All details and drawings pertaining to the works as are available can be seen in the office of Chief Signal & Telecom Engineer (Project) S.E.C. Railway, Bilaspur.	No	No	Not Allowed
10	The Railway may, of its own or in response to any clarification requested/suggested by any person including that from the tenderer, may modify this tender document at its sole discretion at least 15 days before the due date of closing of the tender as corrigendum.	No	No	Not Allowed
11	Corrigendum as required may be issued at least 15 days prior to the closing of the tender. These corrigenda of this tender, if any, as issued time to time will be available on website at least 15 days in advance of closing of tender. The tenderers are requested to check the website before submitting their offer whether any such corrigendum to the tender has been issued or not and revise the offer if required accordingly failure on the part of tender on this aspect will be solely tenderers responsibility.	No	No	Not Allowed

**PROJ-BSP-S AND T/SOUTH EAST CENTRAL RLY
TENDER DOCUMENT**

Tender No: 85-SNT-Proj-Tender-2024

Closing Date/Time: 10/02/2025 12:00

12	The Railway and the website will have no responsibility for incorrect evaluation of cost and thereby incorrect cost of work and ranking of tenderers, if the schedule is not filled incorrectly and unambiguously for each item. No claim or clarification of a tenderer regarding applicability, inclusion or exclusion of any element of tax or duty or any other change in the offer subsequently (after closing of the tender) will be entertained. For this the tenderers are advised to read the Instructions, General Conditions, Special Conditions and other Instructions carefully before submission of tender.	No	No	Not Allowed
13	Railway and the IREPS website will not take the responsibility for any online payment made by the tenderer and debited from his/their account towards the tender cost or Earnest Money due to wrong or mis-manipulation of the menus or any reasons related with the IT or found unsuitable for the tender etc. Railway and IREPS website will not entertain any claim in this regard or refund the paid amount.	No	No	Not Allowed
14	The e-tenders will be opened online using the IREPS portal. No representative is required to be present for opening of tender and details of rates quoted and ranking of all the bidders etc shall be available to the bidders in the website after the opening of the tender.	No	No	Not Allowed
15	In case the date of closing mentioned in the Notice Inviting Tender 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 any convenient day after the closing date/time of tenders.	No	No	Not Allowed
16	This is a time bound project and shall be executed as per time schedule. The tenderers are advised to survey the site at their own cost before submitting a tender, the tenderer will be deemed to have satisfied himself by actual inspection of the site and locality of the works, that all conditions liable to be encountered during the execution of the works are taken into account and that the rates he enters in the tender forms are adequate for the completion of works to the entire satisfaction of the Engineer.	No	No	Not Allowed
17	The cancellation of any documents such as power of attorney, partnership deeds etc., forthwith shall be communicated by the Contractor to the Railway in writing, failing which the Railway shall have no responsibility or liability for any action on the strength of said documents.	No	No	Not Allowed
18	The Contractor will be permitted to make use of the service roads already existing in Railway possession. If additional service roads are required within Railway premises the Contractor may be allowed to make them at his own cost with the prior approval of the Railway's Engineer. All service roads required outside Railway boundary shall be constructed by the Contractor at his own risk and cost. These roads shall be maintained by the Contractor at his own cost. The Railway reserves the right to make use of the service roads as and when necessary without any payment to the Contractor.	No	No	Not Allowed
19	All the bidders/tenderers should ensure that they are GST compliant and their quoted tax structure/rates are as per GST Law.	No	No	Not Allowed
20	When the tender is received by the Railway administration, it will be understood that the tenderer/s has/have gone through carefully in details all the instructions, conditions, general and special, of the contract and all general and special instructions for execution of the work and that the tenderer/s has / have got himself/ themselves clarified on all points and doubts and interpretations by the proper authorities of the Railway administration.	No	No	Not Allowed
21	After opening of the tender, any document pertaining to the constitution of Sole Proprietorship Firm / Partnership Firm / Registered Company/ Registered Trust / Registered Society etc. shall be neither asked nor considered, if submitted.	No	No	Not Allowed

**PROJ-BSP-S AND T/SOUTH EAST CENTRAL RLY
TENDER DOCUMENT**

Tender No: 85-SNT-Proj-Tender-2024

Closing Date/Time: 10/02/2025 12:00

22	The terms "Correction slip" as referred to in this tender document includes the following terms also : (i) Addendum slip. (ii) Corrigendum slip. (iii) Addendum slip and Corrigendum slips which are issued in consecutive serials.	No	No	Not Allowed
23	Indian Railway General Condition of Contract -Apr-2022 Correction Slip issued till opening of tender.	No	No	Not Allowed
24	The authority for the acceptance of the tender will rest with the Railway. It shall not be obligatory on the said authority to accept the lowest tender or any other tender, and tenderer(s) shall neither demand any explanation for the cause of rejection of his/ their tender nor the Railway to assign reasons for declining to consider or reject any particular tender or tenders.	No	No	Not Allowed
25	If there is any contradiction between schedule description and SOR then SOR will prevail.	No	No	Not Allowed

Undertakings

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

6. Documents attached with tender

S.No.	Document Name	Document Description
1	ApprovedSIPNagpur-JharsugudaSection.pdf	Approved SIP Link
2	ScopeOfWork.pdf	Scope of Work
3	PreBidConference.pdf	Pre Bid Conference
4	Annexure1.pdf	Annexure
5	SteelItem-Procurement-o.pdf	Steel Item Procurement
6	GCCApril-2022AdvanceCorrectionSlipNo_8ACS-8.pdf	GCCCorrectionSlipupto8
7	SpecialConditionOfContract_2.pdf	Special Condition of Contract
8	GCCCorrectionSlipsUpto7.pdf	GCC Correction Slips
9	GCC-Apr-2022.pdf	GCC 2022
10	SORSECRST.pdf	SOR SECR

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: DHARMENDRA SINGH DANGI

Designation : Dy.CSTEP-II/BSP