

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

Tender No: 78-SNT-Proj-Tender-2024

Closing Date/Time: 13/12/2024 12:30

Dy.CSTE/Project-II/Bilaspur acting for and on behalf of The President of India invites E-Tenders against Tender No **78-SNT-Proj-Tender-2024** Closing Date/Time 13/12/2024 12:30 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, transportation, trenching, laying, backfilling, Horizontal directional drilling, HDPE pipe insertion, blowing, jointing & termination of Optical Fiber Cable for provision of 4x48(F) Optical Fibre Cable backbone in Nagpur-Raipur section of SECR.		
Bidding type	Two Stage Reverse Auction		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	13/12/2024 12:30	Date Time Of Uploading Tender	12/11/2024 18:20
Pre-Bid Conference Required	Yes	Pre-Bid Conference Date Time	22/11/2024 12:00
Advertised Value	865131673.00	Tendering Section	PROJECT II
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	4475700.00	Validity of Offer (Days)	90
Tender Doc. Cost (Rs.)	0.00	Period of Completion	15 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	29/11/2024	Are Joint Venture (JV) firms allowed to bid	Yes
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)
Auto Elimination rules applicable	Yes	Minimum Decrement (%)	.3
Initial Cooling Off Period (HH:MM)	04:00	Subsequent Cooling Off Period (HH:MM)	00:30

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 1-SOR-(Schedule-A)-Execution of Out Door Signalling work							38447600.00	Above/ Below/Par
1	0	100.00	Kilometre	92115.00	9211500.00	AT Par	9211500.00	
	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	150.00	Kilometre	76590.00	11488500.00	AT Par	11488500.00	
	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	4000.00	Metre	115.00	460000.00	AT Par	460000.00	
	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 smoothening 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)]							
	0	25.00	Kilometre	16740.00	418500.00	AT Par	418500.00	

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4	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	4000.00	Metre	775.00	3100000.00	AT Par	3100000.00	
	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	2000.00	cum	2943.00	5886000.00	AT Par	5886000.00	
	Description:- Cement Concrete of proportion 1:3:6 with graded aggregate of size 25mm. and below. [SOR-2021 for S&T works-Sch 'A' item no. 7]							
7	0	200.00	Hour	603.00	120600.00	AT Par	120600.00	
	Description:- Deployment of Prokline/ 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 worksSch 'A' item no. 28]							
8	0	2000.00	Metre	241.00	482000.00	AT Par	482000.00	
	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]							
9	0	16500.00	Numbers	401.00	6616500.00	AT Par	6616500.00	
	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)]							
10	0	5000.00	MT-Km	38.00	190000.00	AT Par	190000.00	
	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]							
11	0	3000.00	Metre	158.00	474000.00	AT Par	474000.00	
	Description:- Laying of Double Walled Corrugated Pipe length 6 meter, 120mm outer dia ,103.5mm inner dia with couplers as per specification no. BSEN 50086-2-4 for under ground power/communication /signal cable protection and used for track/pucca road/ Platform crossing/ level crossing gate etc. [SOR-2021 for S&T works- Sch 'A' item no. 2(e)]							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 2-SOR-(Schedule-C)-Execution of Telecom work							74845460.00	Above/ Below/Par
1	0	602.00	Route Kilo Meter (RKM)	950.00	571900.00	AT Par	571900.00	
	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]							
2	0	50.00	Kilometre	336450.00	16822500.00	AT Par	16822500.00	
	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)]							
3	0	30000.00	Metre	540.00	16200000.00	AT Par	16200000.00	
	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. [SOR-2021 for S&T worksSch 'C' item no. 2(c)]							

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4	0	1350.00	Kilometre	7762.00	10478700.00	AT Par	10478700.00	
	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	1400.00	Kilometre	18672.00	26140800.00	AT Par	26140800.00	
	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]							
6	0	120.00	Kilometre	14419.00	1730280.00	AT Par	1730280.00	
	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)]							
7	0	120.00	Kilometre	21869.00	2624280.00	AT Par	2624280.00	
	Description:- Supply, transportation, placing and positioning breadth-wise of standard second class bricks in excavated trench on the laid cable at the rate of 9 bricks per metre in the stations (Home signal to Home Signal) and colony area and at the locations as advised by site incharge of Railway. [SOR-2021 for S&T works- Sch 'C' item no.9(b)]							
8	0	200.00	Numbers	1385.00	277000.00	AT Par	277000.00	
	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)]							
S.No. Item Code Item Qty Qty Unit Unit Rate Basic Value Escl. (%) Amount Bidding Unit								
Schedule 3-SOR-Schedule-Supply of S&T Materials							4465900.00	Above/ Below/Par
1	0	200.00	Numbers	3425.00	685000.00	AT Par	685000.00	
	Description:- Supply of Universal Thermoshrink jointing kit for derivation/transformer joint for Jelly filled Six quad cable conforming to RDSO Spec. No.: IRS-TC-77/2006 (Rev.-1) (with latest amendment). Inspection by Rep. of Railway Engineer.[SOR-2021 for S&T works- Sch 'D' item no. 3]							
2	0	5.00	Kilometre	99200.00	496000.00	AT Par	496000.00	
	Description:- Supply of permanently lubricated HDPE pipe with outer dia 50mm, inner dia - 42mm thickness -4mm with suitable couplers, plugs, end caps etc. as per technical specification No. G/CDS-08/01 Dec. 1999. Supply to be made in length of 500 mtrs with + /-10% tolerance. Inspection by RITES. [SOR-2021 for S&T works Sch 'D' item no. 6]							
3	0	100.00	Numbers	32849.00	3284900.00	AT Par	3284900.00	
	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 4-Non-SOR-II (Supply of Telecom Cable)							167844420.00	Above/ Below/Par
1	0	1400.00	Kilometre	118000.00	165200000.00	AT Par	165200000.00	
	Description:- Supply of 48 Fibre armoured OFC as per spec No. IRS/TC-55/2006 rev 1 with amndt No. 1.1 or latest. Inspection by RDSO.							
2	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 amend. 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-Non-SOR-I (Supply of Telecom Materials)							159928815.00	Above/ Below/Par
	0	1350.00	Kilometre	76811.00	103694850.00	AT Par	103694850.00	

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1	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	16500.00	Numbers	1133.00	18694500.00	AT Par	18694500.00
	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 Representative of Railway Engineer.						
3	0	5.00	Numbers	230544.00	1152720.00	AT Par	1152720.00
	Description:- Handheld OTDR of Model -930XC-20C or similar make with SC connector. Specifications as per tender document. Product supply should comprise as detailed in agreement. Representative of Railway Engineer.						
4	0	3.00	Numbers	251160.00	753480.00	AT Par	753480.00
	Description:- Supply of Make: Fujikura Fusion Splicing Machine, Model No. 88s fully automatic (Latest). Inspection by Representative of Railway Engineer.						
5	0	5.00	Numbers	21147.00	105735.00	AT Par	105735.00
	Description:- Optical power meter having following specification and accessories: Specification : Wave length 800- 1600nm, Range 45 to +10dBm , Auto offset nulling, Automatic wavelength recognition, Tone detection- 270 Hz, 1 KHz & 2 KHz, OFC connector type-ST, Battery- 9V Rechargeable with AC adapter, Warranty-as per IRS term and condition or as per OEM whichever is more. Accessories : ST Adapter for connection of two OFC cables, Fiber optic connector cleaner box. Calibration certificate traceable to NABL or OEM standard. Test certificate, User Guide. Inspection by Representative of Railway Engineer.						
6	0	2.00	Numbers	139001.00	278002.00	AT Par	278002.00
	Description:- Smart Class Lab items with all accessories as per Annexure-IV. Make model- 1)DLP projector- BENQ or similar make model no. MX-560 P 2) 4 in 1 Speaker set make- INTEX or similar. (Warranty Period : Upto 30 months from the date of supply). Inspection by representative of Railway Engineer.						
7	0	2.00	Numbers	225562.00	451124.00	AT Par	451124.00
	Description:- Supply Installation Testing & Commissioning of Fixed video call application with DCC crystal UHD signage Large Format Display Diagonal Size-75" Resolution-UHD SAMSUNG QB75 or similar Orientation-Land spec/Portrait Contrast Ratio-4000:1 Led Type- VA USB/HDMI/LAN-1 port or more in-built Signage software Inbuilt office 365 application Operation hr-16/9 Warranty-3yr on site with All Accessories & programming Charges for Integration with Telepresence systems. Make/Brand: - SAMSUNG QB 75 or similar (Warranty Period: Upto 36 months from the date of supply). Inspection by representative of Railway Engineer.						
8	0	4.00	Numbers	1820500.00	7282000.00	AT Par	7282000.00
	Description:- A Remote Terminal Unit for monitoring the dark fibre comprising of 2 to 8 port optical switch and capable of monitoring 2 to 8 fibers at a time respectively and covering a monitoring distance of minimum 75 Km OFC network per optical Port. Equipment must be of 32 dB or more dynamic range with 2 to 8 port optical switch output. Powered from both DC 48V and AC 230V, 50Hz. RTU must be able to be fitted in existing 19" Rack. It should able to generate wavelength of 1310nm or 1550nm or 1625nm for monitoring of fibers. Insertion loss must not be more than 1.5db and MTBF must be better than 6 million cycles. It shall also be operated in temperature range of 0 deg C to 50 deg C. Inspection by RITES.						
9	0	2.00	Numbers	2920550.00	5841100.00	AT Par	5841100.00
	Description:- FMS (Fiber Monitoring Software / Application software for monitoring optical fiber network) server application with Google Conduit a) Basic Fault Management Module for detecting the fault in the optical fibre under surveillance and provide the optical distance and corresponding surface distance of the fault identified. b) Map Integration Module displaying fibre route in GIS / Google map and display the visual indication of the faults on the map c) Network Analysis Module for analysis of the optical fibres under surveillance and provide trend analysis d) Report Generation Module for customizable report generation e) Modem Interface for sms based alarm escalation for escalation of alarms through sms to registered users as defined by admin f) Fibre Database Designer Module g) As Built Drawing / GIS Integrator Module h) Configuration Module i) Fault restoration Updating Module for tracking of restoration and updating of the restored fibres j) Interface with customer NOC for Trouble Ticketing k) Integration with Field Mobile Application Module						
	0	2.00	Numbers	828800.00	1657600.00	AT Par	1657600.00

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10	Description:- Server -RAID architecture + Database Server + Online UPS -1x Intel Xeon E5-4607 (2.2 GHz / 6 Core / 12MB / 95W) processor / 8GB memory / 5SFF Drive Cage/ No Standard HDD / HP Smart Array P420 / 1GW FBWC Controller Raid / 1200W CS Platinum Hot Power Supply should support operating systems: Microsoft Windows server 2003/2008/2008 /2012 R2, - Support Ipv4 / Ipv6 - Database: MS SQL standard edition with 5 CAL - Antivirus should be installed and regular updates/ signature and support shall be provided up to warranty period - Must be supplied with online UPS + Battery for backup for 4 hours. Inspection by RITES.							
11	0	2.00	Numbers	218300.00	436600.00	AT Par	436600.00	
	Description:- Workstation Industrial grade Desktop computer for Control office - Processor Intel Core,10Ghz,4GB RAM, 1 TB hard disk, DVD Drive - Operating System: Windows 7 or 8.1 or above - MS office included, licensed antivirus - Enhanced USB Keyboard, Optical Mouse - Must be supplied with colour inkjet printer - Suitable UPS for 30 minutes backup - Items shall be equivalent or superior to the specifications. Inspection by representative of Railway Engineer.							
12	0	2.00	Numbers	17700.00	35400.00	AT Par	35400.00	
	Description:- GSM Modem + SIM with 1 years- GSM modem with RS232 cable and antenna - Supports AT command - Powered by 12V adapter. Inspection by representative of railway.							
13	0	5000.00	Metre	3214.00	16070000.00	AT Par	16070000.00	
	Description:- Supply of channel (Injection-molded cable of size width int/ext) 240/340mm, height (int/ext) 155/230mm, length 1 meter (+/- 10 mm), weight per meter 8 KG (Top and Bottom) Material Polyolefin Engineering Plastic with fire protection class K-1, following DIN-53438 part I, for laying Signalling/Telecom Cables. Kg (Top As per Technical Specification STS/Cable- Laying practices Vol. IV Dt. 09.05.2018 & DIN54348 parts -II RDSO (Inspection by RITES).							
14	0	2.00	Numbers	58500.00	117000.00	AT Par	117000.00	
	Description:- 19" 42 U Rack (suitable for RTU fitting) with Accessories - Rack colour should be light gray / black / offwhite powder coated. Each equipped with AC 230V fan for ventilation. Inspection by representative of railway.							
15	0	4.00	Numbers	57927.00	231708.00	AT Par	231708.00	
	Description:- Supply of smart 55 " display as per Annexure-V. Inspection by representative of Railway Engineer.							
16	0	4.00	Numbers	69609.00	278436.00	AT Par	278436.00	
	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-VI). Inspection by representative of Railway Engineer.							
17	0	2.00	Numbers	1424280.00	2848560.00	AT Par	2848560.00	
	Description:- Supply of GNSS based cable route tracer kit with receiver with built in mount for GNSS receiver, 12W or higher power transmitter with >= 130V Voltage boost, suitable for detecting & mapping underground cables with accuracy up to 2 5 cm, with current direction up/down arrows. Supply shall include locating receiver with RTK receiver powered by locator receiver, transmitter, compatible dual Bluetooth android phone, mobile application pre-installed in android device with 5 years subscription & PC database software access for direct map generation & download including depth data, 3 years subscription for GNSS correction service & standard accessories, per specification attached. Make/Model: Rycom Pathfinder PLDL Route locator with Trimble DA2 GNSS receiver or similar [Detailed specification as per Annexure-II]. Inspection by representative of Railway Engineer.							
S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl. (%)	Amount	Bidding Unit
Schedule 6-Non-SOR-III (Execution of Telecom Materials)							419599478.00	Above/ Below/Par
1	0	450.00	Numbers	17782.00	8001900.00	AT Par	8001900.00	
	Description:- Supply and Installation of OFC joint enclosure and splicing of Optic fiber cable (48 fibres) and testing as per technical Specification No. GROJC- 2/02 sept 2003. Supply of splice enclosure (48 fiber) shall be as per Boards specification of TEC. All materials including fusion splicing machine used for fiber splicing and OTDR for testing and other testing materials if any shall be arranged by the contractor.							
2	0	800.00	Numbers	34500.00	27600000.00	AT Par	27600000.00	
	Description:- Supply and installation of rack mounted 48F FMS fiber of Bestnet Make or similar of suitable connectors as per site requirement.							
	0	450.00	Numbers	8662.00	3897900.00	AT Par	3897900.00	

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3	Description:- Excavation of jointing pit without damaging the fiber and provision of joint chamber of 1.2 mtr dia, 60 cm height and 50mm 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.						
4	0	10000.00	Metre	2108.00	21080000.00	AT Par	21080000.00
	Description:- Supply, placing & covering of RCC duct from Home to Home as per para 6.4, 6.5 & 7.1 and Annexure 9 of RDSO guidelines for cable laying detailed in technical specification. This includes trenching of 1.0 Mtr. depth and backfilling. Notes mentioned in Annexure 9 are to be complied necessarily.						
5	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.						
6	0	8000.00	Metre	1246.00	9968000.00	AT Par	9968000.00
	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.						
7	0	520000.00	Metre	616.00	320320000.00	AT Par	320320000.00
	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 two nos. of DWC/HDPE(40 mm dia.)/GI pipe is laid in the bore.						
8	0	5000.00	Metre	1083.00	5415000.00	AT Par	5415000.00
	Description:- Horizontal Boring/Manual moling without damage to surface road/track for laying/insertion of DWC/GI/HDPE 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 two nos. of DWC/HDPE(40 mm dia.)/GI pipe is laid in the bore.						
9	0	2000.00	Day	954.00	1908000.00	AT Par	1908000.00
	Description:- Hiring of Skilled Labour assistance SE/JE in day to day works i.e. assisting for supervising cable laying work, noting 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 (c)						
10	0	2620.00	Day	655.00	1716100.00	AT Par	1716100.00
	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 (Chief Labour Commissioner(C) New Delhi Dated:e:25/09 / 2024)						
14	0	3000.00	Metre	1894.00	5682000.00	AT Par	5682000.00
	Description:- Track crossing by horizontal boring method as advised by the Engineer at site includes the supply and insertion (pushing) of GI pipe (80 mm) conforming to IS:1239 heavy class in the bore drilled with coupler between two pipes, All the joints of casing pipes should be tight and leak proof.						
15	0	170.00	Numbers	10827.00	1840590.00	AT Par	1840590.00
	Description:- Supply and Installation of 19" 9U Rack Wall/Pole Mount, with all accessories Like Electrical fitting, Fan Tray, Patch Panel, Cable Manager, PDU. Inspection: Representative of Railway Engineer.						
16	0	44.00	Numbers	28643.00	1260292.00	AT Par	1260292.00
	Description:- Supply and Installation of 19 inch 42U 600mm Depth Telecom Rack with Standard Accessories (Closed type) Front Door Glass type, all doors should be removable type [Detailed Specification as per Annexure-I]. Inspection: Representative of Railway Engineer.						
17	0	600.00	Kilometre	10500.00	6300000.00	AT Par	6300000.00

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

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	Description:- Route Survey works (Survey of Railway Fiber Route using DGPS and Electronic Route Marker, capturing Geo and Fiber Data at every meter, manhole, splice points, LSCs and Other Termination points) for GIS mapping as per Annexure-III							
18	0	4.00	Numbers	69500.00	278000.00	AT Par	278000.00	
	Description:- Installation & Commissioning (RTUs, FMS Server Application, Software loading in Server Machine, Mobile client units and EMS							
19	0	1.00	Numbers	75800.00	75800.00	AT Par	75800.00	
	Description:- Onsite Training of "Monitoring of OFC equipment" and other subsystems at different locations. (Training Period 100 Mandays)							
20	0	48.00	Month	31027.00	1489296.00	AT Par	1489296.00	
	Description:- Provision of vehicle for Transportation of light materials/men with tools, documents from central location to the work spot and back (Per month).							
21	0	5000.00	Metre	546.00	2730000.00	AT Par	2730000.00	
	Description:- Laying of Polyolefin cable channels of all sizes by digging of the trench of the required size that top of the channel is not less than 0.3 Meter below earth/ground level and at the concrete surface to be laid with suitable fasteners with Contractor.							

3. ITEM BREAKUP

No item break up added

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

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1	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: (i) Trenching, laying, jointing of 4Q/6Q/PIJF cables/ OFC (OR) (ii) Installation and commissioning of OFC involving OFC outdoor work. NOTE: Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organization, work experience certificate issued by Public listed company having average annual turnover of Rs500 crore and above in last 3 financial years excluding the current financial year, listed on National Stock Exchange or Bombay Stock Exchange, incorporated/registered at least 5 years 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. 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)
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Bidders shall confirm and certify on the behalf of the tenderer including its constituents as under:

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

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

S.No.	Description
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**PROJ-BSP-S AND T/SOUTH EAST CENTRAL RLY
TENDER DOCUMENT**

Tender No: 78-SNT-Prod-Tender-2024

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

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

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	Details of technical personnel with qualification and experience employed by the firm.	No	No	Not Allowed
5	Details of supervisors and skilled and unskilled staff with qualifications and experience for field supervision and execution.	No	No	Not Allowed
6	Details of special equipments, tools and plants and machinery, vehicle etc. available with the firm for execution of contract works.	No	No	Not Allowed
7	Bar Chart/PERT Chart with time schedule for supply of materials and execution of works.	No	No	Not Allowed
8	Uploading of Statement Showing the particulars of Works on Hand Works Completed as per the format attached to the tender document.	No	No	Not Allowed
9	Full and clear postal address including telephone/fax numbers to be submitted.	No	No	Not Allowed
10	Uploading of NEFT FORM.	No	No	Not Allowed
11	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 Chief Signal & Telecom Engineer/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/S.E.C. Railway, Bilaspur, Near Jagmal Chowk, Bilaspur-495004 (C.G.)	No	No	Not Allowed
12	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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**PROJ-BSP-S AND T/SOUTH EAST CENTRAL RLY
TENDER DOCUMENT**

Tender No: 78-SNT-Proj-Tender-2024

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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**

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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**

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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	GCC-Apr-2022.pdf	GCC 2022
2	GCCCorrectionSlipsUpto7.pdf	GCC Correction Slips
3	SpecialConditionsofContract-OFCWork.pdf	Special Condition of Contract
4	ScopeofWorkandAnnexures.pdf	Scope of Work and Annexures
5	SORSECRST.pdf	SOR SECR
6	PreBidQuery_1.pdf	Pre Bid Conference

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