

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

Tender No: 73-SNT-Proj-Tender-2024

Closing Date/Time: 14/06/2024 12:00

Dy.CSTE/Project-II/Bilaspur acting for and on behalf of The President of India invites E-Tenders against Tender No **73-SNT-Proj-Tender-2024** Closing Date/Time 14/06/2024 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	Design, Planning, Supply, installation, fixing, configuration, integration and commissioning of IP-MPLS (Internet Protocol- MultiProtocol label Switching) routers and associated equipments at Bilaspur, Raipur and Nagpur division of South East Central Railway.		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Two Packet System
Tender Closing Date Time	14/06/2024 12:00	Date Time Of Uploading Tender	02/05/2024 13:54
Pre-Bid Conference Required	Yes	Pre-Bid Conference Date Time	20/05/2024 11:00
Advertised Value	345518687.94	Tendering Section	PROJECT II
Bidding Style	Single Rate for Each Schedule	Bidding Unit	
Earnest Money (Rs.)	1877600.00	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	31/05/2024	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-SOR-(Schedule-C)-Execution of Telecom work							2041470.00	Above/ Below/Par
1	0	5.00	Kilometre	77389.00	386945.00	AT Par	386945.00	
	Description:- Excavation of trenches of following depth and width at the bottom of the trench including clearing of roots bushes etc. for all types of soils including morrum, hard soil mixed with boulders etc. This work include back filling the trench, ramming, consolidation of soil as well as disposal of extra soil after cable is placed in the trench. After mansoon the route is to be attended for back filling the rain cuts, wash out of soils where ever found - Depth 1.0 Mtr. & Width 0.3 Mtr.[SOR-2021 for S&T works- Sch 'C' item no.2(a)(ii)]							
2	0	0.50	Kilometre	336450.00	168225.00	AT Par	168225.00	
	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	500.00	Metre	1062.00	531000.00	AT Par	531000.00	
	Description:- Track crossing, Road Crossing by pushing method (HDD method) at culverts/ Railway track / pucca road/Kuchha road at a depth not less than 1 meter with reference to bottom of rail/road surface including supply of GI/HDPE pipe -HDPE pipe/DWC pipe(4 inch dia).[SOR-2021 for S&T works- Sch 'C' item no.5(a)]							
4	0	10.00	Kilometre	16479.00	164790.00	AT Par	164790.00	
	Description:- Laying of Quad Cable, PIJF cable of different sizes, power cable of different size in the excavated trench, inside GI, RCC and HDPE pipes. This includes loading/unloading & transportation of cables from the stores of railway as per the availability. Wherever several cables of different categories have to be laid in the same trench/path, the provision of separation of various cable should be as advised by the site incharge of the Railway. Empty cable drums to be returned by the contractor. The cable drums with unused cable at site to be returned by the contractor from site to Stores depot Bilaspur.[SOR-2021 for S&T works- Sch 'C' item no.8]							
5	0	5.00	Kilometre	7762.00	38810.00	AT Par	38810.00	
	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]							
	0	5.00	Kilometre	14419.00	72095.00	AT Par	72095.00	

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6	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)]						
	0	5.00	Kilometre	21869.00	109345.00	AT Par	109345.00
7	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)]						
	0	3000.00	Metre	43.00	129000.00	AT Par	129000.00
8	Description:- Supply and fixing of PVC casing capping 25mm x 25mm size for indoor wiring. This includes drawl of wires in the casing capping and termination of wire at end point. The work should be carried out as per the instruction of Railway site Engineer.[SOR-2021 for S&T works- Sch 'C' item no. 24]						
	0	10.00	Station	44126.00	441260.00	AT Par	441260.00
9	Description:- Transportation, Installation & commissioning of SDH ADM, Primary D/I MUX with all accessories and power supply, racks, runway ladder etc. in cable huts including wiring of all the equipments up to C.T. Box install for Outdoor/ Derivation cables as per the requirement at each station. Note:- The work involves fixing of 19" rack, Installation & wiring of equipment connecting to 48 V. bus bar including supply of all wires and connectors. The equipment shall be mounted in shelves of standard 19" racks. All 21 E1 streams shall be suitably terminated on Digital Distribution Frame. All the wiring shall be done in accordance with wiring instructions given in as per Annexure-D.[SOR-2021 for S&T works- Sch 'C' item no.21]						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 2-Non-SOR-Supply of Telecom Material							304519017.70	Above/ Below/Par
	0	240.00	Set	752765.26	180663662.40	AT Par	180663662.40	
1	Description:- Design, Fabrication & Supply of rack mountable modular intelligent service IPMPLS aggregator router with minimum switching speed of 160 Gbps or higher expandable up to 260 Gbps, unit to support L2VPN, L3 VPN, MPLS-TE, unit to be capable to support 8x10GbE, 48x1GbE, 32xE1, 4xSTM 1 ports or 1x STM4 or 2x8 port WDM, support multiple routing functions such as OSPF V3, ISIS, BGP & MP-BGP and support LDP and RSVP - TE to dynamically establish MPLS tunnels & PW service. It should support dual main control card redundancy design supporting 1:1 hot back up. The router should have console and SNMP interface, FAN Module, redundant control card module and Redundant 48V DC power supply modules including connection cable and fixing accessories etc., from day one. The Router should support required interface slots to accommodate 4x10(optical) ports (distributed) 8x1GbE (optical) ports (distributed), 4x1GbE (Copper) ports, 16 E1s and 4xStm-1 or WDM interface modules from day one. The router should support all the software features, environmental standards and security features as mentioned in RDSO technical document no STT/TAN/IP-MPLS/2020 Ver2.0 or latest for the LER Router. Design, Fabrication of item should be done as per the instruction of site Engineer. Note: Distributed slots required for LER control (2 nos.) / STM (2 nos.) /10G uplink (2 nos.)/1GbE optical (2 nos.) / 1GbE copper (2 nos.) / E1 or STM or WDM (1 nos.) and two additional for future expansion minimum 12 slots or more. (Inspection Authority: RDSO)							
	0	260.00	Numbers	18496.26	4809027.60	AT Par	4809027.60	
2	Description:- Supply of 4 port x 10G SFP module card (2 x 10 G two modules) suitable for the IP-MPLS router in S.No.1. and should support all the software features, environmental standards and security features as mentioned in RDSO technical document no STT/TAN/IP-MPLS/2020 Ver 2.0 or latest. (Inspection Authority: RDSO)							
	0	300.00	Numbers	22195.51	6658653.00	AT Par	6658653.00	
3	Description:- Supply of 8 port x 1GbE (4 nos. of optical ports and 4 nos. of electrical ports) module card suitable for the IP-MPLS router in S. No.1 and should support all the software features, environmental standards and security features as mentioned in RDSO technical document no STT/TAN/IP-MPLS/2020 Ver2.0 or latest. (Inspection Authority: RDSO)							
	0	2000.00	Numbers	6242.48	12484960.00	AT Par	12484960.00	
4	Description:- Supply of SFPs for 1GbE (optical)/RJ 45 ports as per the site requirement. (Inspection Authority: RDSO)							
	0	1000.00	Numbers	22657.91	22657910.00	AT Par	22657910.00	
5	Description:- Supply of SFP + 10G (40 Km) SMF, 1550 nm for 40KM transmission working on single or dual fiber as per site requirement and should support all the software features, environmental standards and security features as mentioned in RDSO technical document no STT/TAN/IP-MPLS/2020 Ver2.0 or latest. (Inspection Authority: RDSO)							
	0	240.00	Numbers	94793.33	22750399.20	AT Par	22750399.20	

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6	Description:- Supply of Channelized STM1/4(4 Port STM-1 or 01 port STM-4) card or 2 Nos of 4/8 port X 10Gbps WDM interface module card suitable for the above in S.No.1&8 along with 2nos of SFP's (1.2gbps or 2.5gbps) as per the site requirement and should support all the software features, environmental standards and security features as mentioned in RDSO technical document no STT/TAN/IP-MPLS/2020 Ver2.0 or latest (Inspection Authority: RDSO)						
7	0	260.00	Numbers	46980.50	12214930.00	AT Par	12214930.00
	Description:- Supply of 16 port channelized E1 interface card suitable for the IP- MPLS router in S.No.1. and should support all the software features, environmental standards and security features as mentioned in RDSO technical document no STT/TAN/IP- MPLS/2020 Ver2.0 or latest. (Inspection Authority: RDSO)						
8	0	30.00	Set	554887.80	16646634.00	AT Par	16646634.00
	Description:- Design, Fabrication & Supply of rack mountable modular intelligent service IP MPLS aggregator router with minimum switching speed of 200 Gbps, unit to support L2VPN, L3 VPN, MPLS-TE, unit to be capable to support 8x10G (optical) ports distributed in two cards and possible to upgrade 16x10G (optical) this should also support multiple routing functions such as OSPF, ISIS, BGP & MP-BGP and support LDP and RSVP - TE to dynamically establish MPLS tunnels & PW service. It should support dual main control card redundancy design supporting 1:1 hot back up. The router should have console and SNMP interface, FAN Module, Redundant control card modules and Redundant 48V DC power supply modules including connection cable and fixing accessories etc. The Router should have required interface slots to accommodate 8x10G interface (optical) ports distributed in minimum two cards, is also capable to upgrade to 16 x 10G (optical) modules from day one. The router should support all the software features, environmental standards and security features as mentioned in RDSO technical document no. STT/TAN/IP-MPLS/2020 Ver 2.0 or latest for the LSR Router. The unit should be capable to support 25G /100G module for aggregation purpose. (Inspection Authority: RDSO)						
9	0	32.00	Numbers	46980.50	1503376.00	AT Par	1503376.00
	Description:- Supply of 8x10Gbps (4 x 10G two modules) SFP module card suitable for the IP- MPLS router in S.No.8 and the router should support all the software features, environmental standards and security features as mentioned in RDSO technical document no. STT/TAN/IP-MPLS/2020 Ver 2.0 or latest. (Inspection Authority: RDSO)						
10	0	240.00	Numbers	22657.92	5437900.80	AT Par	5437900.80
	Description:- Supply of SFP + 10G (40 Km) SMF, 1550 nm for 40 KM transmission working on single or dual fiber as per site requirement and the router should support all the software features, environmental standards and security features as mentioned in RDSO technical document no. STT/TAN/IP- MPLS/2020 Ver 2.0 or latest. (Inspection Authority: RDSO)						
11	0	3.00	Set	1294738.20	3884214.60	AT Par	3884214.60
	Description:- Supply & Installation of NMS as per RDSO specification no STT/TAN/IP-MPLS/2020 Ver 2.0 or latest including server as per clause 6.4, standby system hardware and 5 KVA on line UPS with 1 hr backup (min 42AH Battery). (APC/Numeric/Tata libert make or equivalent). This includes Supply of 5 Nos portable monitoring terminal loaded with NMS for client for the sectional maintenance. (Technical Specification as per Annexure C). Note: The EMS to be of same OEM of LSR/LER to being supply as per features and functional requirement clause G as mentioned in RDSO technical document no. STT/TAN/IP-MPLS/2020 Ver 2.0 or latest. (Inspection Authority: RDSO)						
12	0	240.00	Numbers	44627.77	10710664.80	AT Par	10710664.80
	Description:- Supply of covered 19'' Racks of size 2200 mm X 600 mm X 600 mm (WQ/Vero President/Rittal/APC/Netrack make or similar) complete with all fittings including DC Fans (48 V) -2 Nos, separator sheet/plate to keep testing equipments - 1 No and AC Power distribution panel (horizontal fitting) with power sockets and fuse/MCB protection (minimum 6 Nos of 230V- 15A/5A. combined) and other accessories. Rack should have compatibility with all equipment conforming to DIN 41494 or equivalent EIA/ISO/EN standard, Manufacture must certify that products are complied with DIN41494 or equivalent EIA/IISO/EN/CEA/UL standards. (Specification as per Annexure B) (Inspection Authority: RITES)						
13	0	240.00	Numbers	3090.90	741816.00	AT Par	741816.00
	Description:- Supply of DC Power distribution panel to cater DC power requirements of IPMPLS/ STM Multiplexers/ PD Mux/ EOW / FANS to be fixed in 19" rack. (Minimum 8 Nos of DC distribution arrangement with MCB's of suitable rating for -ve. (Connecting copper strip for +ve), material should be of reputed make. (Inspection Authority: Representative of Railway Engineer).						
14	0	2000.00	Numbers	95.34	190680.00	AT Par	190680.00
	Description:- Supply of optical patch cords with FC PC/SC PC to SC PC/LC PC connectors (10 mts long) as per RDSO specification No. RDSO/SPN/TC/69/2007 Rev.0 or latest, so as to suit the OFC terminations and the IPMPLS equipment supplied. (Inspection Authority: Representative of Railway Engineer).						
15	0	240.00	Numbers	2473.11	593546.40	AT Par	593546.40
	Description:- Supply of DDF (120 Ohms) for terminating 16 E1s of wrapping type and mountable on 19" rack. (Maximum width 2U size) of reputed make. (Inspection Authority: Representative of Railway Engineer).						
	0	500.00	Metre	49.38	24690.00	AT Par	24690.00

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16	Description:- Supply of switch board cable 0.5 mm/10 pair as per Specification No GR/WIR-06/03 Mar2002 or latest of Accepted make: Finolex/Havells/ Delton or similar. (Inspection Authority: Representative of Railway Engineer).						
	0	2000.00	Metre	232.60	465200.00	AT Par	465200.00
17	Description:- Supply of switch board cable 0.5 mm / 50 pair as per Specification No GR/WIR-06/03 Mar2002 or latest of Accepted make: Finolex/Havells/ Delton or similar. (Inspection Authority: Representative of Railway Engineer).						
	0	30.00	Numbers	5583.59	167507.70	AT Par	167507.70
18	Description:- Supply of 10/100/1000 Base-T Copper Ethernet Transceiver SFP Module with all accessories. (Inspection Authority: Representative of Railway Engineer).						
	0	7000.00	Metre	37.00	259000.00	AT Par	259000.00
19	Description:- Supply of UTP CAT 6 cable (roll in 305 Mtrs.). Make:- AMP or Molex. Material Inspection Representative of Railway Engineer.						
	0	5000.00	Metre	27.00	135000.00	AT Par	135000.00
20	Description:- Supply of 6 Fiber Armoured OFC Cable Single Mode OFC for laying over the Platform Shed as per latest TEC/BSNL Specification. Inspection Representative of Railway Engineer.						
	0	5000.00	Metre	13.15	65750.00	AT Par	65750.00
21	Description:- Supply of PVC insulated armoured 3 core 2.5 sq.mm., Multistrand, 14 AWG, 1.1 KV Grade outdoor strengthen copper for UPS power supply distributions as per BIS/ISI standards and all accessories required for installation. Conforming to IS:1554 Part-I, Make: Delton/Finolex or similar, Inspection Representative of Railway Engineer.						
	0	15.00	Numbers	18488.92	277333.80	AT Par	277333.80
22	Description:- Supply of Tool Kit consisting of Optical power meter (Fiber shot 9990V), Multimeter (Fluke 101), Ethernet Crimping Tool (Standard Make), Console cable (Cisco=RJ45-DB9), Wrist ripper (Standard Make), Universal Spanner Set (Taparia), Screw Driver Set (Taparia- 7 Pieces set), Cutting plier (Taparia), Wire Stripper, Industrial grade USB to Serial cable with all accessories or Similar. (Inspection Authority: Representative of Railway Engineer).						
	0	10.00	Numbers	9625.35	96253.50	AT Par	96253.50
23	Description:- VJ Interior 915 mm x 460mm, Executive Computer Table (VJ-B145-B5) or latest. Inspection by Rep. of Railway Engineer.						
	0	20.00	Numbers	7162.62	143252.40	AT Par	143252.40
24	Description:- CHAIR of Godrej make. Model No. OXBO VISITOR CHAIR or latest. Inspection by Rep. of Railway Engineer.						
	0	5.00	Numbers	25616.10	128080.50	AT Par	128080.50
25	Description:- Plain Storage Almirah, Model no.-STSTW000 (Large) or latest. Make: Godrej. Inspection by Rep. of Railway.						
	0	10.00	Numbers	41300.00	413000.00	AT Par	413000.00
26	Description:- Supply of ALL-in-One PC model no. HP-AIO-22-dd0401 IN or similar with internal memory of 1TB HDD storage 7200 rpm SATA HDD and processor AMD Ryzen 3, 2 Super Speed USB Type-A 5Gbps signaling rate; 2 USB 2.0 Type-A; 1 headphone/microphone combo. Material Inspection by Representative of Railway Engineer						
	0	5.00	Kilometre	79115.00	395575.00	AT Par	395575.00
27	Description:- Supply of 40 mm dia permanently lubricated HDPE telecom: ducts (with chord) as per RDSO SPEC. No. RDSO/SPN/TC/45/2013 Rev. 2.0 with latest amendments or Latest in length of 1000 mtrs/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 /push fit 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 10km (i) Rotary duct cutter - 1no. (ii) C spanner - 1no. (iii) Chamfering tool - 1no. Inspection by Rep. of Railway Engineer.						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule 3-Non-SOR-Execution of Telecom Execution							38958200.24	Above/ Below/Par
	0	238.00	Numbers	21825.58	5194488.04	AT Par	5194488.04	
1								

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1									Description:- Installation of IP MPLS Routers and switches, with power distribution panel and all accessories in the Rack, DDF, Aluminum runway ladder, patch cord etc. and their testing and commissioning. This includes termination of all E1's on DDF, connection of pigtailed, optical patch cords and 48 V bus to the IP MPLS equipment including supply of wires and connectors. It also includes transportation, installation of 19" rack, provision of Aluminum runway ladder, casing and capping and conduit pipe as per requirement at each station as per the instruction of site Engineer. (Conduit pipe/ casing and capping, aluminum runway ladder and all other miscellaneous materials should be supplied by the contractor). Installation as per the Annexure "A"
2	0	3.00	Job	150249.52	450748.56	AT Par	450748.56		Description:- Integration, Testing and Final commissioning of equipments at each station for all the equipments as per the instruction of site Engineer and confirming with the approved system design including end to end testing for realization of optical fiber system. This also includes supply of all as made documents for the entire section (six copies) plus technical, maintenance and installation manuals for IP MPLS, NMS, Charger and Power Supply unit.
3	0	5000.00	Metre	35.14	175700.00	AT Par	175700.00		Description:- Laying of STP/OFC/Power Cable/Switch board (10 pair/ 20 pair/50 pair) Cables in 1 " PVC conduit/case capping and clamping on the wall/ Wall/Roof tops/ Shelters with suitable clamping and hose to be provided where ever bends/ curves, as per the instruction of site Engineer. (PVC conduit/ Case capping and other accessories to be supplied by the contractor)
4	0	60.00	Man-Week	16369.19	982151.40	AT Par	982151.40		Description:- Training of Railway staff at the factory premises of manufacturer of IP-MPLS equipment (or) at a reputed training institution as approved by railway executive in charge as per RDSO technical document no. STT/TAN/IP-MPLS/2020 Ver 2.0 or latest.
5	0	20.00	Numbers	31923.62	638472.40	AT Par	638472.40		Description:- Supply, Installation, Testing and Commissioning of 24 port (fully loaded with 12 optical and 12 electrical SFP's) manageable Layer 2 switch as per spec. No: RDSO/SPN/TC/65/2021 Ver 6.0 or latest. (Inspection Authority: RDSO)
6	0	220.00	Numbers	128351.70	28237374.00	AT Par	28237374.00		Description:- Supply, Installation, Testing and Commissioning of 24 port manageable Layer 3 switch with 4 Nos of 10G SFP port (fully loaded) and 24 Nos of GE port (fully loaded with 12 optical and 12 electrical SFP's) with all accessories as per Spec. No : RDSO/SPN/ TC/ 83/2020 Ver 2.0 or latest. (Inspection Authority: RDSO)
7	0	6.00	Numbers	79061.09	474366.54	AT Par	474366.54		Description:- Supply and installation 55 inch UHD monitor 4K with minimum specification are as under: Display Size: 55 inch, Screen Type: LED, Smart TV: YES, Resolution Standard: 4K, Resolution (pixels): 3840x2160, No of HDMI Port: 2 or more, No of USB Port: 2 latest or more,. Built in Wi-Fi: YES, Ethernet (RJ45): 1 or more, Analog Audio Input: YES, Speaker Output RMS: 20 W or higher, Remote: YES Android App support, Operating System Present: Android,. Screen Mirroring: YES, Supported Video Formats: MPEG1/ MPEG2TS/ AVCHD/MP4/AVI/WMV/ LPCM/ MP3/WMA/JPEG or any other Accepted Make: LG/Samsung/Sony or similar. (Inspection Representative of Railway Engineer).
8	0	10.00	Numbers	100964.43	1009644.30	AT Par	1009644.30		Description:- Supply & installation of PC Workstation/ Maintenance Console and it shall comply with Para no. H of RDSO Document No. STT/TAN/IP-MPLS/2020 Ver 2.0 or latest. (Inspection Authority: RDSO)
9	0	2000.00	Metre	43.32	86640.00	AT Par	86640.00		Description:- Supply and fixing of PVC Conduit Pipe minimum 35 mm Dia. ISI Mark. Installation of PVC Pipe, clamping of the same on Wall, Pole etc. including with required clamps & and all the installation materials required. (Inspection Authority: Representative of Railway Engineer)
10	0	5000.00	Metre	4.67	23350.00	AT Par	23350.00		Description:- Blowing / drawing of OFC 24F/12F/6F Power Cable and CAT Cable (including crimping) through Duct, DWC, PVC Conduit/Casing Capping, Trough already installed.
11	0	3000.00	CORE	36.94	110820.00	AT Par	110820.00		Description:- Splicing/Dropping/Termination of each Fiber / Pigtail in the LIU/FDMS/Termination Joints through fusion Splicing of the termination of OFC Cables. [Detailed Specification in Technical Document].
12	0	150.00	Numbers	10496.30	1574445.00	AT Par	1574445.00		Description:- Supply and Termination at Wall/Rack Mountable 12 Fiber FDMS 12 SC Type FDMS loaded with SC '0' DB & Adaptor SC SM Pigtail 1.5 meters all accessories required for installation suitable for splicing and front patching of 12 fiber cable with all accessories and terminating the optical fiber with splicing and front patching in the equipment room or places as required by the Railway representative (OFC patch cord for and all other materials required for the splicing are to be supplied by the contractor.[Detailed Specification in Technical Document] Inspection : RITES

3. ITEM BREAKUP

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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 Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
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: Any work of supply, installation, testing & commissioning of optical fibre based IPMPLS system including networking OR Any work of supply, installation, testing & commissioning of optical fibre based WAN system OR Any work of supply, Installation, testing & commissioning of Optical fibre based SDH system including Internet Protocol based networking. NOTE: Work experience certificate from private individual shall not be considered. However, in addition to work experience certificates issued by any Govt. Organisation, work experience certificate issued by Public listed company having average annual turnover of 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)

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)

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	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)

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	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)

Special Financial Criteria

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

Tender No: 73-SNT-Proj-Tender-2024

Closing Date/Time: 14/06/2024 12:00

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	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)

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

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

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

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

5. COMPLIANCE

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

Check Lst

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Supporting documents against fulfillment of technical & financial eligibility criteria. (Without these documents the offer is summarily 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

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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 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/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
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

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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
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

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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
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	Mandatory_Special_Conditions_Documents.pdf	Mandatory Documents
2	PRE_BID_CONFERENCE.pdf	Pre Bid Conference
3	GCCCorrectionSlip-ItoVI.pdf	GCC Correction Slips
4	DetailedspecificationofscheduleitemsAnnexure.pdf	Detailed Specification Annexures
5	TechnicalConditionofTender_1.pdf	Technical Requirement of Tender
6	GCC-Apr-2022.pdf	GCC 2022
7	ScopeofWorkIPMPLS.pdf	Scope of Work
8	SCC.pdf	Special Condition of Contract
9	Format-I.pdf	PROFORMA FOR OEMs AUTHORIZATION
10	TentativeDivisionwisebreakupofscheduleitem.pdf	Divisionwise Tentative Breakup

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Induswww 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