

**SCHEDULE Of work of telecom arrangement in connection with Madurai Division**

Tender Ref. No. : PMD-FI-4.6061-Tender Madurai

**FINANCIAL BID**

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Item Wise Basic Value	GST Amount	Total Amount
		A		B	C= A*B	D	E= C+D
<b>Schedule A-SOR ITEMS</b>							
1	011010	1100.00	Metre				
	Description:- Excavation of cable trench in all kinds of soil except hard rocky areas including clearing of roots of trees, rocks, bushes etc. to a depth of 1.0 Mtrs and to a width of 0.3 Mtrs. Laying of cables is not included in this schedule.						
2	011060	10.00	Metre				
	Description:- Excavation of trench to a depth of 1 Mtr. for track crossing of cables, laying of DWC/ RCC pipes with collar/coupling, refilling of trench by ramming and consolidating it as per the instructions of Railway representative at site. During excavation of trench it has to be ensured that the excavated soil does not mix with the ballast available. The depth of 1m trench shall be from the bottom of sleepers for track crossings. Laying of cables is not included in this schedule.(Supply of DWC/RCC pipes with couplers/ collars is not included in this schedule).						
3	011110	700.00	Metre				
	Description:- Laying of signaling/power/telecommunication cables as per cable plan in cable trenches, masonry ducts, RCC Pipes, DWC pipes, GI Pipes etc.(Supply of cables is not included in this schedule).						
4	011130	1100.00	Metre				
	Description:- Placing of one row of country bricks of size approximately 220mm x 100mm x 60mm breadth wise horizontally above the cables in 0.3m width trench.[Country bricks of size 220mm x 100mm x 60 mm (approximately) shall be supplied by the Contractor].						
5	011150	1100.00	Metre				
	Description:- Refilling of cable trench 1m depth by 0.3m width throughout, with earth after laying of cables, and consolidating the trench by ramming and leveling.						
6	011180	55.00	Numbers				
	Description:- Supply of RCC cable markers as per drawing No.CSTE/CN/OFC/1. The lettering on the cable marker shall be "SIG" / "TELE" / "OFC" as per the instructions of Railway representative at site.						
7	011210	10.00	Metre				
	Description:- Supply of Double walled corrugated pipe - 103.5mm inner dia & 120mm outer dia conforming to specification No. IS 14930(Part 2): 2001 with one coupler for every 6m of pipe as specified in Vol.II of the Tender document.						

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		A		B	C= A*B	D	E= C+D
<b>Schedule B-NON-SOR ITEMS</b>							
1	NS1	600.00	Metre				
	Description:- Supply of 24 FIBRE ARMOURED AS PER RDSO SPECIFICATION NO.IRS:TC-55/2006 REV.1 AND AMENDMENT.3 OR LATEST (Inspection by consignee).						
2	NS2	2000.00	Metre				
	Description:- Cable Jelly filled underground telecom 6 quad, 0.9mm dia Railway signal and telecom copper conductor to Specn. No.IRS.TC/30/2005 Ver.1 with amendment 5 or latest.( Inspection by RDSO).						
3	NS3	600.00	Metre				
	Description:- Supply and laying of permanently solid lubricated HDPE pipes (33 mm inner Dia. 40mm outer dia) as per TEC GR no.G/CDS-08/02 Nov 2004 or latest with accessories (including slip fit/push fit type couplers) per KM. to suite the above HDPE pipe) per KM. HDPE duct coil length shall be in 1000Mtrs only with tolerance as per TEC spec including transportation of HDPE duct to site. Specification No. RDSO/SPN/TC/45/2013 with revision 2 or latest(OEM test report & TEC Spec certificate to be produced) (Inspection by Consignee).						
4	NS4	600.00	Metre				
	Description:- Blowing /Drawing of OFC in permanently solid lubricated HDPE Telecom pipe (33mm inner dia). This work includes necessary duct integrity test for solid lubricated HDPE pipe						

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		A		B	C= A*B	D	E= C+D
5	NS5	3.00	Numbers				
	Description:- Supply and Installation of wall mountable 24 F Fiber management system (FMS) conforming to RDSO/SPN/TC-37/2000 (rev-4) or latest similar to RPG make or better ,suitable for splicing and front patching 24F cable with all accessories and terminating the optical fiber cable with splicing and front patching in FMS in the equipment room. (OFC Pigtail patch chords of suitable length and all other materials required for splicing are to be supplied by contractor) (Inspection by Consignee)						
6	NS6	6.00	Numbers				
	Description:- Supply of 3 Mtrs length SC-SC/SC-LC/LC-LC/FCSC/FC-FC (as per Site requirement) connectors OFC patch chord (inspection by consignee)						
7	NS7	6.00	Numbers				
	Description:- Excavation of OFC cable joint pit and provision of RCC joint chambers of 1.2m dia, 60cm height and 50mm thickness with 2 pieces top and bottom cover with holes for drainages (Reinforcement as per DRG No.OFC/2009/17). This includes filling up of sand complete in the joint chamber after cable laying, back filling and consolidation of soil around the chamber, disposal of excess soil as per plan or as advised by railway engineer at site as well as transportation of joint chamber to site at every KM in the section (Inspection by Consignee).						
8	NS8	3.00	Numbers				
	Description:- Supply and installation of joint closure for armoured optical fibre cable conforming to RDSO spec No. SPN/TC/68/2014 Rev1.0 with latest amendment and splicing of optical fibre cable (24F). Testing of fibres for 1310 & 1550 nm shall be carried out at every joint location as instructed by Railway engineer in charge at site (Inspection by Consignee).						
9	NS9	4.00	Numbers				
	Description:- Supply and installation, wiring, testing and commissioning of high power public address amplifier 250 watts, 230V and 24V DC operation similar to ahuja SSA-250M. Inspection by Consignee. (Inspection by Consignee).						
10	NS10	8.00	Numbers				
	Description:- Supply and provision of 25W horn speaker in open areas for public address system of ABS plastic with 100 volt line matching transformers with multiple taps/impedance easily selectable by rotating switch. It should meet EN-60065 standard. This works includes supply, fabrication and erection of poles, angles, fastenings and rain hood as per the instruction of Railway representative at site. (Each pole should be provided with 2 speakers on either direction, GI pipe should be of 4.5 mm thick 100 mm dia and should meet ISI standards). (Inspection by Consignee)						
11	NS11	5.00	Numbers				
	Description:- Supply, installation and testing of heavy duty paging microphone (Goose Neck) with stand similar to Model no .ACM66 of Ahuja make or better. (Inspection by Consignee)						
12	NS12	1600.00	Metre				
	Description:- Supply and fixing of PVC capping and casing / PVC pipes of 25mm size of IS standards on wall/floor etc. All necessary items like screws/nails required to be supplied by contractor.(PVC pipe inspection by Consignee)						
13	NS13	1600.00	Metre				
	Description:- Laying / drawing of various type of cables on PVC pipe / capping casing as instructed by Railway engineer at site.						
14	NS14	1000.00	Metre				
	Description:- Cutting of trench across/on the platform for a depth of 10cm with marble cutting machine and refilling with plaster.						
15	NS15	1600.00	Metre				
	Description:- Supply of Duplex shielded annealed tinned copper conductor Multi stranded cable (2 Core X 0.5 Sqmm) for providing public address system similar to unique make.( Inspection by consignee).						
16	NS16	30.00	Numbers	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
	Description:- Supply of 2MB ETHERNET CARD (TME) OF PUNCOM MUX MODEL NO VMUX 100 AS PER RDSO SPEC NO IRS TC 68/12 REV 0 WITH AMENDMENT NO 1 OR LATEST. Accepted Make/Brand - "PUNCOM" (Punjab Communications Limited) (Inspection by RDSO)						
17	NS17	30.00	Numbers	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
	Description:- Supply of POWER SUPPLY CARD SUITABLE TO PUNCOM MAKE MUX MODEL NO VMUX 100 AS PER RDSO SPEC NO IRS TC 68/12 WITH AMENDMENT NO 1 OR LATEST. Accepted Make/Brand - "PUNCOM" (Punjab Communications Limited) (Inspection by RDSO)						

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		A		B	C= A*B	D	E= C+D
18	NS18	15.00	Numbers	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
	Description:- Supply of FXS Card (PUNCOM MAKE). Accepted Make/Brand - "PUNCOM" (Punjab Communications Limited) (Inspection by RDSO)						
19	NS19	60.00	Numbers				
	Description:- Supply of Double side Digital Clock suitable for platform area with GPS Synchronization in standalone mode as per Clause 5 of RDSO SPN TC 62/2008, (Rev 3.0) Amnd. 2 or latest with all required accessories (Inspection by RDSO)						
20	NS20	100.00	Numbers				
	Description:- Supply of 4 wire DTMF equipment as per RDSO Spec IRS-TC@45<47@93 or latest along with 4 wires control phone. (Inspection by RDSO)						
21	NS21	70.00	Numbers				
	Description:- Supply of 12 V power supply unit for telecom installations at way side stations RE/Non RE area as per IRS-TC 72-97 or latest.(Inspection by Consignee)						
22	NS22	3050.00	Metre				
	Description:- Supply of UTP CAT 6/6A cable consist of each drum/box of 305m. (Inspection by Consignee)						
23	NS23	9.00	Numbers	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
	Description:- Supply of FXO card suitable for PUNCOM VMUX100(Puncom make) ( Inspection by Consignee)						
24	NS24	2.00	Numbers				
	Description:- Supply and installation of 5 KVA on line UPS with isolation transformer suitable for single phase AC input and single phase AC output , floor mounted type with 20 nos of 65 AH battery providing minimum 240 mins backup.(Inspection by Consignee)						
25	NS25	1.00	Set				
	Description:- Supply of high availability single section Digital axle counters with dual sensor system as per RDSO/SPN/177/2012 ver.3 or latest this includes the supply of high frequency web mounting type Tx coil/Rx coil,VR/PR box duly wired, vital relays , PR relays, clamp with deflector plates and hardware, dual display reset box with auto resetting facility, surge voltage protection devices and filter card to be mounted on dip rail etc as per OEM for complete installation and testing and commissioning of (HASSDAC) system . Note one set of HASSDAC system will include equipment required to monitor one UP line or one DN line of a full block section between two stations. (Inspection by RDSO)						
26	NS26	50.00	Numbers				
	Description:- Supply of dual band GSM fixed wireless FCT phone with VOLTE facilities and battery and expandable battery charger with 230V AC to 3.8V DC adaptor. Make/Brand:- Beitel F34G or similar. (Inspection by consignee)						

TOTAL( In Figures) \_\_\_\_\_

TOTAL( In Words) \_\_\_\_\_

Note:

- \* All rates to be inclusive of GST/applicable taxes.
- \*\*SGST and CGST if contractor is from Punjab
- \*\*\* IGST if contractor from state other than Punjab

(SEAL & SIGNATURE OF COTRACTOR/FIRM)