

"Unprice bid format" cum "Schedule of quantity and rate"

Signalling & Telecommunication (S&T) Modification Works in Stations in Section "Gr 240 Indoor Works" FOR RAILWAY ELECTRIFICATION PROJECT IN BHANDAI-UDI, BIRLANAGAR-ETAWAH AND SHIKOHABAD-FARRUKHABAD INCLUDING MAINPURI-ETAWAH, SECTION OF AGRA, JHANSI AND ALLAHABAD DIVISIONS OF NORTH CENTRAL RAILWAY UNDER RE PROJECT LUCKNOW, TOTAL RKM 386/440TKM.

Tender ref no.T0AVX00075 dated:08.12.2022

SI.No.	Item Description	Unit	Total quantity	Rate in Rs.	Amount in Rs.	Weightage (%)
1	Supply and Fixing of RE Protective Screens on signals	NO's	2			0.5049687%
2	Supply & Installation of Maintenance free earthing and bonding system as per RDSO.	NO's	6			6.9365987%
3	Installation of 48V/200AH VRLA maintenance free battery	NO's	4			2.1456423%
4	Installation,including earthing of 42U 19" covered racks for housing SDH and PD-MUX equipment's, DDF, FMS, MDF, using krone module etc.	NO's	1			0.1901391%
5	Installation testing and commission of 2 MB programmable primary digital drop insert multiplexer	Nos	3			1.4722124%
6	Supply & fixing of PVC channels of size 60x60 mm required by BHEL Engineer in charge. Railway by fixing / clamp to the wall for indoor wiring purposes& drawing of indoor cables.	Mtrs	30			0.1824049%
7	Installation, termination, wiring, testing and commissioning of point machine	Per Machine	2			1.1549831%
8	Painting of MS Flat with one coating of red oxide as primary and two coats of anti-corrosive black.	Mtrs	465			0.3086769%
9	Supply of MS flat of size 40 x 6mm	Mtrs	200			1.4213621%
10	Shifting of S&T Location / Battery boxes (Horizontal re-location)	Per Box	6			1.3257612%
11	Installation of copper tape 3 x 25 mm	Mtrs	150			1.0955875%
12	Supply of copper tape 3 x 25 mm	Mtrs	150			4.0779810%
13	Excavation of square coil pit of size 1mtr X 1.5mtr and depth 1mtr for providing coil at joint locations / location box / points signals, culverts, bridges and at LC gates.	NO's	5			0.0361994%
14	Installation of Junction Box	NO's	1			0.0127833%
15	Supply of Beetel make Push Button telephone with CLI (Model-M51) or similar	NO's	1			0.0307643%
16	Erection & wiring of shunt signal post.	NO's	2			0.3246761%
17	Installation of Independent shunt signals complete with post, surface base, position light shunt signal unit, Anchor bolts, Universal lock with key etc.,	NO's	2			0.0614350%
18	Supply of LED signal unit for junction type route indicator/shunt/calling on	NO's	2			0.5186625%
19	Initial charging of lead acid low maintenance batteries 48V, 200AH VRLA or any other batteries.	NO's	12			0.6746721%

SI.No.	Item Description	Unit	Total quantity	Rate in Rs.	Amount in Rs.	Weightage (%)
20	installation of SMPS battery chargers for telecom use 48V, 25 Amps in N+1 configuration using 3 modules of 25 Amps (FR/BC) suitable for 200 AH LM Batteries with lightning and surge protection with automatic switching between the modules.	NO's	3			0.8679128%
21	Fixing of 10 pair CT box and termination of cable at the station/LC gates, TSS, PS, SSP, Quarters, Service buildings etc.	NO's	2			0.1914335%
22	Excavation of trench 0.35m width 1.2m deep in all categories of soil such as black cotton / hard soil / murrum / soft rock mixed with boulders etc., as per cable route plan. Back filling the trench with earth to the level of surrounding ground after laying cables.	KM's	2.2			10.7896686%
23	Laying of signaling / power / cables of various sizes.	KM's	20.264			4.0111492%
24	Excavation of PIT, casting of concrete foundation for Location Box-Single case, erection of location box, Lamp holder 2 pin with switch, wiring material, wiring, testing and commissioning.	Per Box	10			2.0776287%
25	Installation of Location Box - Full case complete with E Type Lock, Hylem Sheet, Universal Lock with Key	NO's	5			0.3779199%
26	Installation of Location Box - Half case complete with E Type Lock, Hylem Sheet, Universal Lock with Key	NO's	5			0.3053138%
27	Drawing of PVC sheathed cable in PVC conduit pipe/casing. PVC conduit pipe of 32 / 20 mm (External dia.), thickness 1.5 mm, medium density fit for electrical purposes	Mtrs	36			0.0482584%
28	Excavation of cable pit without damaging existing working cables, laying& insertion of new extra cables.	Per Box	1			0.0427721%
29	Release of complete indoor and outdoor S&T equipment from stations / LC gates, and transportation of released material to the S&T depot by contractor.	Per Station	4			12.7169645%
30	Testing of OFC cable including supply of joint protection and splicing activity.	KM's	5			0.5980621%
31	Testing Quad cable	KM's	1.5			0.1792793%
32	Installation of rack mounted FMS fibre parts no.1U 24 Fs 24FP Raychem make including 24 Nos 0.2 db FC/PC Adaptors and 24 Nos 900 MICRON 1.5 meter FCPC pigtails with RDSO specification No.RDSO/SPN/TC- 037-2000 (ver3) or latest.	No.	1			0.0732419%
33	Supply and Installation of DWC pipe with one snap fit coupler and 'O' ring conforming to RDSO/SPN/204/2011 Ver. 1.1or latest RDSO specification , Non-metallic, corrugated, multiwalled, normal duty, pliable, without protection against chemical attack and Non flame propagating in 6 meter length of size 120 mm outer dia& 102 mm inner dia.(Permitted tolerance in dia = +/- 2 mm).	Mtr	60			0.4390824%

Sl.No.	Item Description	Unit	Total quantity	Rate in Rs.	Amount in Rs.	Weightage (%)
34	Provision of of new TLD box, GI pipe, 2X2.5 Sq mm cable and wire rope with accessories as per dwg no. RVNL/S&T/SG-017/2005, termination of cable in TLD boxes and connection/bonding to track as per railway practice.	Nos	5			1.2767511%
35	Supply and installation of Bonding with GI Wire 4mm dia (8 SWG) for track jumper & fish plate joints(S & T "Z" Bond) bonds.This wil include Drilling of 7.0/7.1/7.2 mm dia holes in rails (4nos.) and provision of two jumpers for each bond, clipping of bonds etc with contractrors own tools as per Instruction of Engineer at site.	Nos	30			0.1749287%
36	Installation of Adjustable Track feed Resistance.	No.	6			0.0176153%
37	Installation of fuse Holder 20 Amp capacity to IRS Spec S 78/92(or IRS.S 78/Tentative) or latest./Fuse links 20 / Amp capacity to IRS Spec S 78/92 or latest.	No.	10			0.0077430%
38	Laying of indoor Signaling cable on ladder, dressing, and terminating the same on Old and New CT rack, wherever required, to patch the Old Outdoor Signaling cable in new installation.	per Stn	3			2.7332101%
39	Supply of Multistrand flexible Cable Red, green yellow for signal wiring size 2.5 sq mm dia.	Mtrs	1000			2.2777072%
40	Fabrication, supply, fixing of RCC cable marker is to be done as per drg. No. CORE/S&T/ALD/SK/600/2013. The lettering on the cable marker shall be "TELE", "OFC" as per the instruction of the incharge supervisor at site office.	No.	10			0.0911742%
41	Provision of precast RCC Joint Chamber as per drawings OR Excavation for Jointing pit and preparing RCC joint chamber of 1.2 mtr dia of 60 cm height with 2 piece cover on top and bottom cover with holes for drainage (reinforcement drawing will be as per technical specification) .This includes water cooling of chamber, backfilling and ramming of trench after laying and consolidated of soil as well as disposal of soil as per plan as advised by site engineer.	No.	5			0.7204155%
42	Installation of `B' type choke.	No's	27			0.1989854%
43	Installation of TF Charger.	No's	22			0.4317004%
44	Installation of LM Secondary cell 80 AH or equivalent.	No's	26			0.2098623%
45	Installation of VF transformer (1120:470) 6 Quad for Block Equipment & EC sockets	NO's	15			0.4519964%
46	Placing and positioning width wise , of second- class country made Bricks above the screened earth after laying the cable. (placing of bricks @ eight to nine bricks to cater one meter length)(cost of brick not included)	km	1.5			1.2699060%
47	Installation of Rack Type STM-1 ADM unit with STM-1 aggregate interface, 21 E1s and 4 nos. of 10/100 base-T Ethernet port order wire, power supply unit, sub rack installation material and necessary material etc.	No's	2			1.6161477%

Sl.No.	Item Description	Unit	Total quantity	Rate in Rs.	Amount in Rs.	Weightage (%)
48	Fixing of 20 pair CT box and termination of cable at the station/LC gates, TSS, PS, SSP, Quarters, Service buildings etc.	NO's	2			0.2729451%
49	Installtion of DC-DC Convertors	Nos	5			0.8335107%
50	Installation of Cable Termination Panel	No's	24			0.5894783%
51	Installation of 12 U Rack	No's	6			0.1210273%
52	Installation and Commissioning of NMS along with other S&T equipment at Head Quarter	No's	1			3.2935080%
53	Supply and fitting of E type lock with all accessories for Relay Room/ Equipment Room/ Battery Room	No's	2			0.0534254%
54	Provision of crank handles locking arrangement on point machine to suit ward group and KLCR.	Set	2			0.1257125%
55	Supply and Installation of RCC Enclosure for Earth Pit	Nos	100			3.2045460%
56	Supply and Installation of RCC Enclosure cover for Earth Pit	Nos	100			1.6022730%
57	Installation of Conventional earth pit including earth connection to S&T installation by suitable means(Ms flat/copper wire) as required. (Earth pipe supplied by BHEL)	Nos	50			3.8008866%
58	Wiring in existing Full Location Boxes	Nos	5			1.2240675%
59	Wiring in existing Half Location Boxes	Nos	5			1.0043631%
60	Supply and installation of ladder in OFC hut	meter	140			5.4179113%
61	Supply of all consumables, charging, wiring and in new Full Location Boxes	Nos	5			1.3496129%
62	Supply of all consumables, charging, wiring and in new Half Location Boxes	Nos	5			1.2240675%
63	Installation along with stand for Telephone [Telephone will be a separate line item].	Nos	1			0.0329557%
64	25 mm PVC Pipe	meter	30			0.1054581%
65	40 mm PVC Pipe	meter	44			0.2347699%
66	100 mm PVC Pipe	meter	70			0.8238916%
67	40 mm GI Pipe	meter	20			0.2385362%
68	25mm Flexible conduit Pipe	meter	70			0.1757635%
69	Insulator for Earthing	Nos	30			0.1087537%
70	50x6 mm copper strip for BUS BAR	meter	2			0.0564954%
71	25x6 mm copper strip for BUS BAR	meter	22			0.5178747%
72	63 Amp MCB	Nos	6			0.4651457%
73	16 Amp MCB	Nos	2			0.0740718%
74	Change over panel	Nos	2			0.1424940%
75	18 mm Cu wire	meter	545			3.8487508%
76	Extra Splicing, supply of OFC Joint enclosure and Termination of OFC Cable (by other party)	Nos	10			2.1342716%
77	Supply of wires, insulator, paint and consumables for Relay room wiring	Nos	2			0.2510908%
	Total amount in Rs. (Excl. Taxes)				No need to quote here	100.00%
	Bidder to confirm having quoted their price in BHEL NIC portal (https://eprocurebhel.co.in) in the manner described in Note: (a) below, by writing "QUOTED" here					

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Note						
a	Bidders should quote only the total amount excluding GST in the specified place in BHEL NIC Portal . They should not fill/quote/write anything in col. of Rates and Amount. These rates & amount will be derived from the Total amount quoted and weightage factor assigned against respective items indicated in weightage . (Bidder to quote the total price in BHEL NIC portal https://eprocurebhel.co.in)					
b	The rate and amount are inclusive of all applicable taxes, except for the GST. For details of taxes, refer chapter-XIII of SCC.					
c	Evaluation Shall be based on total amount quoted by bidder.					