



मुंबई रेलवे विकास कॉर्पोरेशन लिमिटेड

भारत सरकार, रेल मंत्रालय का एक सार्वजनिक उपक्रम

MUMBAI RAILWAY VIKAS CORPORATION LTD.

(A PSU of Government of India, Ministry of Railways)

CIN: U45203MH1999G01120765

No. MRVC/W/138R/Lot-I

Date: 29/01/2024.

M/s Pravesh Constructions,
D-102, Akurli Industrial Premises Co-Op. Society Ltd,
Akurli Road, Kandivali (E),
Mumbai 400101.
E-mail: praveshconstruction@gmail.com
Contact No.: +9122 28840918

Letter of Acceptance

Contract Title: S&T Infringement removal for construction of new station building, bridges, platforms, track works and other utilities at Saphale station in connection with Quadrupling work between Virar - Dahanu Road section of Mumbai Division of Western Railway.

Project: Mumbai Urban Transport Project -III (MUTP-III).

Ref: Your offer dated 29.12.2023

This is to notify that, your bid dated 29.12.2023 for execution of “**S&T Infringement removal for construction of new station building, bridges, platforms, track works and other utilities at Saphale station in connection with Quadrupling work between Virar - Dahanu Road section of Mumbai Division of Western Railway for LOT-I**” is hereby accepted for the accepted amount of **Rs.6,78,32,034.50/-** (Rupees Six Crore Seventy eight Lakh Thirty Two Thousand thirty four point fifty only), including GST.

1. In terms of Clause No. 13. of SCC, you are requested to furnish Performance security, 10% of contract value, amounting to Rs. 67,84,000/- (Rupees Sixty Seven Lakhs Eighty Four Thousand only) within 28 days of from the receipt of Letter of Acceptance. The performance security shall be valid for 60 days beyond the date of completion of contract including defect liability period, as per the Performance Security Form in Section IX of contract forms.
2. In terms of Clause No. 34 of GCC & PCC, you are requested to furnish Insurance cover.
3. The employer proposes the name of Shri A. K. Mittal, Retired Member Engineering, Railway Board to be appointed as Adjudicator under this contract and the same has been accepted by the contractor.



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4. The rates for the following items are banned for future refence of LAR/estimation: **Sch Item No A4, 5, B65 and B115.**
5. The rates for following items are banned for future reference for estimation/LAR and positive variation at offered rate, however in unavoidable circumstances, negotiation should be conducted based on LARs for variation quantities: **Sch Item No A12,45,46 and B58,105.**
5. The completion period of the work is 6 (Six) calendar months from the effective date described in the Contract Agreement.
6. Accepted Price Schedule- **Annexure -I.**
7. Please acknowledge receipt of this letter and communicate acceptance of LOA.

Ghanshyam Verma

Dy. CSTE (Project) – I

E. Mail: (dycste@mrvc.gov.in)

Copy/-

CSTE/MRVC

Manager/Signal/MRVC

Dy. FA&CAO

Price SCHEDULE for MRVC/138R/LOT-I							
Name of Work	S&T Infringement removal for construction of new station building,bridges,platforms, track works and other utilities at Saphale station in connection with Quadrupling workbetween Virar - Dahanu Road section of Mumbai Division of Western Railway .						
LOA No. MRVC/W/138R/ LOT- I Dtd. 24/01/2024							
Sr. No	Description	Unit	Code	Qty.	Rate	Amount	Remarks
1	Supply of Q series Neutral line A.C Immune (QNA1-K) (for cutting in provision) (Inspection by RDSO)	No	A1	40	4122.00	1,64,880.00	
2	Supply of wire 16/0.2 (Blue, Red, Grey, yellow, Brown, Black, White as per site engineer instruction) finolex/polycab/delton make. IRS S-76/89 (Amd.3), BS: 4808 Part-2. Wire to be procured from RDSO approved vender.(Inspection by Consignee)	km	A2	4	8643.00	34,572.00	
3	Supply of D type fuse block non indicating type low voltage non detorating fuse base suitable for fuse link of capacity 2A/6A/10A as per specification IRS:S-80/92 or latest . Quantituy break up of each type of fuse block will be specified by Engineer in-charge. (Inspection by RDSO)	Nos	A3	20	147.00	2,940.00	
4	Supply of D type fuse link non indicating type low voltage non detonating, capacity 2A/6A/10A as per specification IRS:S-80/92 or latest. Quantity break up of each type of fuse block will be specified by Engineer in-charge.(Inspection by RDSO)	Nos	A4	50	93.00	4,650.00	Rates are banned for future reference
5	Supply of Single core multi-strand wire 0.5 sq.mm. (16 conductor each dia. 0.2mm), as per IRS 76/89 (Amd3).(Inspection by Consignee)	KM	A5	2	8644.00	17,288.00	Rates are banned for future reference
6	Supply of Colour light signal post tubular 140 mm dia complete, IRS Specn. No.:S-6-81 or latest.(Inspection by RITES)	No.	A6	4	23936.00	95,744.00	
7	Supply of Two aspect Colour light signal unit non metallic (FRP) complete to RDSO Specification , RDSO/SPN/194/2006 or latest.(Inspection by RITES)	No.	A.7	2	20611.00	41,222.00	
8	Supply of Four aspect Colour light signal unit non metallic (FRP) complete to RDSO Specification, RDSO/SPN/194/2006 or latest. (Inspection by RITES)	No.	A.8	2	26595.00	53,190.00	
9	Supply of Junction type Route Indicator 1 way as per Drg. No SA 23401(Inspection by RITES)	No.	A.9	1	17287.00	17,287.00	
10	Supply of Assign / AG sign Signal , illuminated LED Type RDSO Drg No SA 23461/23460 (Inspection by RITES)	No.	A.10	2	3324.00	6,648.00	
11	Supply of Calling-On Signal Unit in FRP as per RDSO Specn RDSO/SPN/194/2006 or latest. (Inspection by RITES)	No.	A.11	1	3324.00	3,324.00	
12	Supply of Pad locks (Inspection by Consignee)	Nos.	A.12	60	599.00	35,940.00	Positive variation at offered rate and Rates are banned for future reference
13	Supply of independent Position light shunt signal unit complete in FRP body asper RDSO Specn. No RDSO/SPN/194/2006 or latest.(Inspection by RITES)	No	A.13	2	9973.00	19,946.00	
14	Supply of dependent type LED based postiiion light shunt signal unit complete in FRP body as per RDSO specn No RDSO/SPN/194/2006 or latest with offset bracket 31/2 inch. (Inspection by RITES)	No	A.14	1	7979.00	7,979.00	
15	Supply of LED Signal lighting base Unit for main Signal (Green) RDSO Specn No RDSO/SPN/153/2004 (Rev.3) or latest.(Inspection by RDSO)	No	A.15	2	6383.00	12,766.00	
16	Supply of LED Signal lighting Unit for main Signal (Yellow) RDSO Specn No RDSO/SPN/153/2004 (Rev.3) or latest. (Inspection by RDSO)	No	A.16	6	5718.00	34,308.00	
17	Supply of LED Signal lighting Unit for main Signal (RED) RDSO Specn No RDSO/SPN/153/2004 (Rev.3) or latest. (Inspection by RDSO)	No	A.17	4	5718.00	22,872.00	
18	Supply of LED Signal lighting Unit for ROUTE Indicator RDSO Specn No RDSO/SPN/153/2004 (Rev.3) or latest. (Inspection by RDSO)	No	A.18	5	4388.00	21,940.00	

Sr. No	Description	Unit	Code	Qty.	Rate	Amount	Remarks
19	Supply of Calling ON Signal Lghitning unit RDSO Specn No RDSO/SPN/153/2004 (Rev.3) or latest. (Inspection by RDSO)	No	A.19	1	5053.00	5,053.00	
20	Supply of LED Signal lighting Unit for SHUNT Signal RDSO Specn No RDSO/SPN/153/2004 (Rev.3) or latest. (Inspection by RDSO)	No	A.20	6	4388.00	26,328.00	
21	Supply of LED Signal Lighting unit for A sign RDSO Specn No RDSO/SPN/153/2004 (Rev.3) or latest. (Inspection by RDSO)	No.	A.21	2	5053.00	10,106.00	
22	Supply of 12 Core1.5 sqmm u/g Signalling cable for Typical 4 Line Station with out siding. (Inspection by RDSO)	Km.	A.22	120	224855.00	2,69,82,600.00	
23	Supply of 6 Core1.5 sqmm u/g Signalling cable (Inspection by RDSO)	Km.	A.23	2	142425.00	2,84,850.00	
24	Supply of 6 quad 0.9 mm jelly filled Telecom cable u/g (Inspection by RDSO)	Km.	A.24	30	315003.00	94,50,090.00	
25	Supply of 24 fibre Armoured fibre Optical Fibre Cable as per RDSO specification No. IRS:TC-55/2006 (Rev-1.1 or latest. (Inspection by RDSO)	Km.	A.25	6	72693.00	4,36,158.00	
26	Supply of 48 fibre Armoured fibre Optical Fibre Cable as per RDSO specification No. RDSO/SPN/TC/110/2020 Revision-0 or latest. (Inspection by RDSO)	Km.	A.26	6	84809.00	5,08,854.00	
27	Supply of HDPE Telecom duct 50mm O/D & 42 mm I/D permanently lubricated Anti rodent and non flammable propagating hdpe pipe as per specifiication IS 14930 Part - II of REX POLYEXTRUSION make or Similar (Inspection by RITES)	km	A.27	6	89093.00	5,34,558.00	
28	Supply of straight join for 48-fiber (four trays each accomodating 12 fibrers) with enclousers Raychem make or similar suitable for item 1 above complete with all accessories. (Inspection by Consignee)	NO	A.28	10	3324.00	33,240.00	
29	Supply of RCC pipes half round of size 300mm dia outer and 250 mm dia internal 1 mtr long matching to IS No. 458/2003 amendment-1 with Rev.4. (Inspection by RDSO)	Nos.	A.29	500	246.00	1,23,000.00	
30	Supply of RCC pipes half round of size 150mm dia outer and 100 mm dia internal 1 mtr long matching to IS No. 458/2003 amendment-1 with Rev.4. (Inspection by RITES)	Nos.	A.30	500	146.00	73,000.00	
31	Supply of Double walled corrugated HDPE Pipes of size 120 mm x 103 mm (Inspection by RITES)	mtr	A.31	500	133.00	66,500.00	
32	Supply of B' class GI pipes to ISI Specn 100 mm dia (Inspection by Consignee)	mtr	A.32	200	1463.00	2,92,600.00	
33	Supply & Instalaltion of RCC cabel route marker (Inspection by Consignee)	No.	A.33	75	798.00	59,850.00	
34	Supply of Relays AC immunized Neutral Track 9 ohms (QTA2) Supply of QTA2 relays AC immunised plug in type DC 9 Ohm neutral track relay miniature tractive armature with 2F/1B contacts (Inspection by RDSO)	No.	A.34	18	2992.00	53,856.00	
35	Supply of QBAT track Relay, AC immunised, 2F-2B contacts, 9 ohms. complete with plug board, retaining clip & connectors (Inspection by RDSO)	No	A.35	2	6649.00	13,298.00	
36	Supply of Track feed battery chargers, 110V AC input 2, 4 to 6 V DC Output (Inspection by RDSO)	No.	A.36	20	4255.00	85,100.00	
37	Supply of adjustable Track Feed Resistance disc type 7.5/15/30 ohms (Inspection by RDSO)	No.	A.37	20	465.00	9,300.00	
38	Supply of B type choke (Inspection by RDSO)	No.	A.38	20	2061.00	41,220.00	
39	Supply of Track Lead Juction Boxes as per W.Rly practice made from fiber glass alongwith terminal blocks (Inspection by Consignee)	No	A.39	60	920.00	55,200.00	
40	Supply of low maintenance Lead Acid Secondary Cells 2V 80 AH (Inspection by RDSO)	No	A.40	40	2394.00	95,760.00	

Sr. No	Description	Unit	Code	Qty.	Rate	Amount	Remarks
41	Supply of PVC jacketed wire rope for Track Lead connections. PVC jacketed wire rope should be of Galvanised steel wire rope 6 mm dia (6x19 stranded wire with steel core of 6 mm dia) sheathed with PVC 2mm wall thickness, overall thickness being 10 mm. PVC sheath should be made of type 6 compound.(Inspection by Consignee)	MTR	A.41	2000	48.00	96,000.00	
42	Supply of Drill bits 7.2 mm (Inspection by Consignee)	No.	A.42	5	160.00	800.00	
43	Supply of Channel Pins single groove, galvanised, 7 mm suitable for 4mm dia bonding wire. (Inspection by Consignee)	No.	A.43	500	5.00	2,500.00	
44	Supply of Fuse block 2 Amp (Inspection by RDSO)	No.	A.44	80	93.00	7,440.00	
45	Supply of Polythene insulated Polythene sheathed jelly filled 50Pair x 0.5mm dia PIJF Telephone cable with polyal moisture as per RDSO Spec no. IRS -TC:41/97 with amendment no.2 or latest (Inspection by Consignee)	km	A.45	2	470389.00	9,40,778.00	Positive variation at offered rate and Rates are banned for future reference
46	Supply of Polythene insulated Polythene sheathed jelly filled 20Pair x 0.5mm dia PIJF Telephone cable with polyal moisture as per RDSO Spec no. IRS -TC:41/97 with amendment no.1 to 3 (Inspection by Consignee)	km	A.46	2	212021.00	4,24,042.00	Positive variation at offered rate and Rates are banned for future reference
47	Supply of Apparatus. Case SINGLE without E type lock SS type (Inspection by RITES)	No	A.47	25	57179.00	14,29,475.00	
48	Supply of Apparatus. Case HALF without E type lock-SS LOCATION (Inspection by RITES)	No	A.48	10	39228.00	3,92,280.00	
49	Supply of E type lock (Inspection by RITES)	No	A.49	35	1130.00	39,550.00	
50	Supply of Offset bracket for main signal (5-1/2") (Inspection by Consignee)	Nos.	A.50	1	4521.00	4,521.00	
51	Supply of ARA Terminal blocks with links made of PBT Spec No.IRS/75/2006(Rev - 2) with latest amendments and RDSO Drg.No.SA-23741A Alt.4. (Inspection by RDSO)	Nos	A.51	9000	57.00	5,13,000.00	
52	Supply of Multirex Channel width (INT/EXT) 240mm/340mm Height (int/Ext) 155mm/230mm Weight per MT/PC(Including bottom and Top Cover)8KG (min) length per piece per Mtr . 1000mm (Aprx.). Fire protection class K-1 in accordance with DIN 53438 part-II breaking load (minimum) > 15KN (Inspection by RITES)	Mtrs	A.52	3500	1765.00	61,77,500.00	
53	Supply of Phenolic laminated Sheet, grade P3 in standard size of 1220 X 1220 x 10 mm as per spec. No IS 2036 of 1995 or latest. Test report of manufacture to be supplied. (Inspection by Consignee)	Nos.	A.53	30	3457.00	1,03,710.00	
54	Supply of Thermo heat shrink jointing kit for 4/6 quad cable (Inspection by Consignee)	No.	A.54	20	2925.00	58,500.00	
55	Supply of Radio detection precision pipe and cable locator/route tracer model RD8200G or higher (Inspection by Consignee)	No	A.55	1	477725.00	4,77,725.00	
56	Non-detracting type fuse 2 Amp (Inspection by RDSO)	No.	A.56	80	34.00	2,720.00	
57	Fixing of Q series relay base plate/metal to metal relay mini group and major group base plate, laying, bunching, lacing, dressing & packeting of 60/40 core PVC indoor cable/flexible wire and termination of 60/40 core cable/flexible wire on tag block/base plate & base plates & soldering. This includes fuse wiring, bus bar looping etc. required for keeping installation ready for circuit wiring work & panel throughing work. The work shall be done as per approved plan, extant practice on WR & the instruction of Rly. Engineer at site. Note:-Q-series relay wiring should be also done in apparatus cases with suitable fixing frame.	Nos	B.57	40	542.00	21,680.00	

Sr. No	Description	Unit	Code	Qty.	Rate	Amount	Remarks
58	Fixing of ARA Terminals /Screw less connectors and fuse blocks on phenolic laminated sheets and fixing by stainless steel/brass nuts & bolts. This includes provision of two additional holes on the board on either side for cable conductor entry.	No.	B.58	20	27.00	540.00	Positive variation at offered rate and Rates are banned for future reference
59	Casting of CC foundation for signal post	No.	B.59	4	11820.00	47,280.00	
60	Installation of CLS unit, 2/3/4 aspect	No.	B.60	3	3300.00	9,900.00	
61	Installation of CLS unit, 2/3/4 aspect with off set with route indicator	No.	B.61	1	3300.00	3,300.00	
62	Fixing of Calling on / A sign / AG sign signal on main post	Nos.	B.62	3	492.00	1,476.00	
63	Fabrication & Fixing of P/C/A/AG marker	Nos.	B.63	2	492.00	984.00	
64	Casting of CC foundation for position light shunt signal	No	B.64	2	3324.00	6,648.00	
65	Erection of Independent position light shunt signal unit/SPI	No	B.65	2	1330.00	2,660.00	Rates are banned for future reference
66	Fixing of Dependent type Shunt Signal unit with offset bracket.	No	B.66	1	665.00	665.00	
67	Laying of HDPE duct in trench and its protective work as per direction of site engineer.	km	B.67	6	5910.00	35,460.00	
68	Splicing of optic fiber cable and making the splice joint with contractor's own splicing machine and tools.	No.	B.68	10	5418.00	54,180.00	
69	Casting of CC foundation for SINGLE apparatus cases	No.	B.69	25	8865.00	2,21,625.00	
70	Casting of CC foundation for HALF/SS apparatus cases	No.	B.70	10	6895.00	68,950.00	
71	Installation of SINGLE apparatus cases	No.	B.71	25	665.00	16,625.00	
72	Installation of HALF/SS apparatus cases	No.	B.72	10	665.00	6,650.00	
73	Installation of Eqpt. (Relays, resistance, chargers batteries etc.as applicable) & wiring of the same in apparatus Cases as per location diagrams & circuit diagrams, as per Instruction of site incharge and practice. Writing works inside A/C single LB;	No.	B.73	25	2955.00	73,875.00	
74	Installation of Eqpt. (Relays, resistance, chargers batteries etc.as applicable) & wiring of the same in apparatus Cases as per location diagrams & circuit diagrams, as per Instruction of site incharge and practice. Writing works inside A/C HALF LB;	No.	B.74	10	2463.00	24,630.00	
75	Cement concrete work for miscellaneous items	CUM	B.75	20	6403.00	1,28,060.00	
76	Providing brick masonry in ratio 1:6 cement and mortar	CUM	B.76	10	6403.00	64,030.00	
77	Fixing of ARA/ Wago screwless terminals and fuse block with provision of holes on hylum sheet and fixing by galvanised nuts & bolts	Nos.	B.77	9000	10.00	90,000.00	
78	Fabrication of Hylum sheet on MS angle/slotted angle in loc box Single apparatus case.	No	B.78	25	2394.00	59,850.00	
79	Fabrication of Hylum sheet on MS angle/slotted angle in loc box Half apparatus case.	No.	B.79	10	1995.00	19,950.00	
80	Digging of 1 M deep and 0.3M wide in all type of soil	Cu.m	B.80	2500	345.00	8,62,500.00	
81	Digging of cable tranch 0.3 mtr Deep,0.3 mtr wide on asphalted platform / road	Cum	B.81	100	2463.00	2,46,300.00	
82	Track Crossing 1 mte deep x 0.3 mtr wide	Cum	B.82	100	1478.00	1,47,800.00	
83	Horizontal direction drilling without damage to surface road manual or using Auger Machine of diamension 100mm to 150 mm.	Mtrs	B.83	500	739.00	3,69,500.00	
84	Laying of S&T Cables of various cores/ pairs/ quads in trenches/ GI pipes/ RCC pipes/ DWC pipes/ Trunking/PVC cable channel. This also includes laying of cables in track crossings & road crossings. .(Cables will be maggered before and after its laying by contractor under supervision of Railway Representative and he will submit the maggering report of each testing). Length of the cable laid includes the length of the cable coiled for termination purposes.	RM	B.84	164000	8.00	13,12,000.00	
85	Laying of trunking / half round RCC pipes in trenchings	RM	B.85	3500	47.00	1,64,500.00	
86	Laying of capping on cable laid in trunking / directly of cables	RM	B.86	4500	27.00	1,21,500.00	
87	Transportation and Placing of DWC/GI/ RCCpipe in trench	RM	B.87	3200	7.00	22,400.00	

Sr. No	Description	Unit	Code	Qty.	Rate	Amount	Remarks
88	Termination of outdoor cables	No	B.88	9000	15.00	1,35,000.00	
89	Removal of rails	Nos.	B.89	50	200.00	10,000.00	
90	Removal of sleepers	Nos.	B.90	300	200.00	60,000.00	
91	Conventional earth electrode	Nos.	B.91	50	1970.00	98,500.00	
92	Installation of Conventional earth electrode	Nos.	B.92	50	1478.00	73,900.00	
93	Preparation & supply of various diagrams on gateway tracing paper duly prepared on Auto CAD in A-3 size. Proportionate payment shall be made for A-1/A-2/A-4 sizes. Below and supplied with CD back up the basis of draft diagrams supplied by the Railways. Proportionate payment will be made for other size of drawings. The following scope of work.....	Nos.	B.93	500	197.00	98,500.00	
94	Transferring of S&T cables from existing location box to new location box. The work includes breaking dismantling of existing foundation of location, excavating and removing/segregating coils of cables which may be about 10 mts in length. These cables are to be disconnected and removed from the existing location one by one as per the instruction and under the supervision of railway engineer present at site. The cable is then to be inserted and terminated in new location box. The item includes dressing of cable, making of wiring tree. The material required for lacing/dressing shall be arranged by contractor. The work is required to be done systematically with due precaution during the block or disconnection within the time that is allowed. The excavation work to be done carefully without damaging the cable to avoid any failure. (Termination charge will be given separately). Note: Proportionate payment will be made if cable of other length One No. unit-One cable of 10 m length.	Nos	B.94	50	665.00	33,250.00	
95	Shifting of existing Full Location Boxes coming in the alignment of doubling. The work includes losing & removal of soil around location boxes by excavating soil around foundation, making of pit for shifting of location box horizontally opposite to railway track up to 0.5 to 1.0 mtr. This includes losing of existing cable coils without any damage. The excavated soil shall be back filled after shifting of Location Boxes. Location box along with its foundation shall be shifted by push method with the help of jacks or by crane by contractors own expenditure under instructions of engineer in-charge at site. Any minor repairs in foundation due to patching shall also be carried out by contractor as per instruction of Engineer incharge. The work may affect train working hence the work shall be done as per margin only or during traffic block only.	Per Loc Box	B.95	6	5910.00	35,460.00	
96	Shifting of existing Half Location Boxes coming in the alignment of doubling. The work includes losing & removal of soil around location boxes by excavating soil around foundation, making of pit for shifting of location box horizontally opposite to railway track up to 0.5 to 1.0 mtr. This includes losing of existing cable coils without any damage. The excavated soil shall be back filled after shifting of Location Boxes. Location box along with its foundation shall be shifted by push method with the help of jacks or by crane by contractors own expenditure under instructions of engineer in-charge at site. Any minor repairs in foundation due to patching shall also be carried out by contractor as per instruction of Engineer incharge. The work may affect train working hence the work shall be done as per margin only or during traffic block only.	No.	B.96	5	4925.00	24,625.00	

Sr. No	Description	Unit	Code	Qty.	Rate	Amount	Remarks
97	Removal of excavated/slip earth/ debris/ malba from the site of works to any other place outside Railway land/premises, including all excavations, handling, re-handling, loading, unloading and leading, etc. all labour and material as a complete job. Removal of Earth (all kinds of soils)/ROCKS, BOULDERS including mud/slush, slipped earth in catch water drains, side drains, over berms in cutting, water way of bridges, over coping of toe/breast/retaining walls etc. including crossing of nallah, railway tracks, making/repairing approach roads if required, all lead, lift, ascent, descents, or any other obstruction. Earth spoils to be dumped outside the cutting or railway embankments as per direction of Engineer in charge	Cu.M	B.97	40	296.00	11,840.00	
98	Releasing of cables from old location boxes and taking it into new location boxes. This includes excavating the earth to release the cables from old location box for taking it into new location. This also includes releasing the old location box and bringing it to nearest station / central cabin. Location (old) will be released only after ensuring all working cables have been shifted in New location.	Per location	B.98	10	3990.00	39,900.00	
99	Fixing of "C" Channel Clamps on Girders. Along with proper coupling of GI/DWC pipes. The work will be executed as per instruction of site incharge and site incharge may take decision as per site condition. All the fixtures, nut bolts, tolls required to fix the channel will be provided by contractor. Proper safety equipment like Helmet, Retereflective Jacket and whistle, flag is to be made available during execution of work.	Nos	B.99	20	1034.00	20,680.00	
100	Making an entrance for new cable in old existing location, Casting concreting and curing of foundation and restoring it to old position by perfect masonry/concreting work. Contractor will ensure that cable entered in Location Box is properly protected.	Nos	B.100	5	1329.00	6,645.00	
101	Patching work in old location box consisting 1) Digging of pit, cleaning of earth from all sides, breaking of seal of location boxes removal sand from location, marking of new cable holes 2) insertion of cable from ground 3) making place for cable termination in old location, shifting ARA, fuse etc after removal and termination including fixing of ARA. 4) Termination of cable in old location 5) Filling of sand and plastering to all sides upto 50mm below ground level.	No	B.101	5	5319.00	26,595.00	
102	Lettering / Numbering of Signals, Point Machine, Track Lead Junction Boxes, Block Joints, Apparatus Cases etc. (each item to be taken as One Unit) This work will be carried out as per the standard practice being followed in Central Railway.	No.	B.102	50	665.00	33,250.00	
103	Transportation of signaling material/equipments including loading and unloading in 10MT vehicle, anywhere to anywhere (One consignee to another consignee or from another division), and stacking at destination as per instructions of SSE in-charge as per inventory. For carrying heavy materials like cable drums, DG set, Electrical Lifting barrier pedestal, IPS, Batteries, Point machine etc.	Per Ton/ Per KM	B.103	5000	20.00	1,00,000.00	

Sr. No	Description	Unit	Code	Qty.	Rate	Amount	Remarks
104	Construction of Concrete platform around Location box foundation including steps, wherever required. The work includes Preparatory work like removing muck from surroundings of location box, disposal of muck away from embankment of tracks, surface leveling for construction of concrete plat form. Preparation of wooden frame along with required wooden planks for the concrete work, supply and transportation of all required materials, viz. cement, sand, gravel, water, concrete mixing tools etc. by deploying labours from station to site shall also inclusive. The work shall be carried out with smooth finishing on platform flooring and standard curing of concreting shall be done as per standard practice. Note: The Location box work sites are between the stations, Borivali to Virar Section. Location box sites are not road accessible. Transportation of work materials to site shall be done by deploying labours from nearest station. Arranging all required materials, transportation and concrete platform construction, flooring finishing and debris removal from work site shall be carried out by the contractor.	Per location box.	B.104	15	3990.00	59,850.00	
105	Providing Scorpio/Xylo/Ertiga vehicle on hire up to 1500 Km. each including driver for 26 days a month for use of MRVC officials and transporting material as required. The rate includes petrol/diesel, vehicle maintenance, overtime allowances and taxes as applicable.	Per Month	B.105	6	78800.00	4,72,800.00	Positive variation at offered rate and Rates are banned for future reference
106	Skilled man power to be provided by contrator for Engg JCBs working to provide marking & supervisory work for the S&T cables during digging work by JCBs and repairing /restoring/jointing of cables, if damaged. Cables & Joints Material will be provided by railway. White Chuna marking will be done by his/her. Chuna will provided by contrator. Information for deputing skilled man power for above work will be provided by Railway Engineer incharge before 24 hours from commencement of digging by JCBs. They will check cables route by Cable ruote tracer and will do chuna marking and will show the cables (on rough sketch) available in a small length approximate 50-100 meters of digging. Note:- Minimum two man will be provided at a time including Cable jointer. they will stay whole time during JCB digging work. (The CV to be got approved by Railway).	Man-Days	B.106	500	1034.00	5,17,000.00	
107	Preparation of drawings by the contractor's draftsman by manual or through computer software such as AutoCad etc. The work includes preparation of drawings for temporary work, modification in the existing drawings, general drawings or any other drawings as directed by the Engineer. Note:- - The person deployed should be well conversant with working on computers and software like AutoCad OR similar software. - Payment will be made for carrying out above activities in shifts of 10.00 hours each on all working days.	Per Month	B.107	6	29550.00	1,77,300.00	
108	Providing following machine on hire basis speeding of the work during block/ non- interlocking railway work as directed by engineer in charge at site with all contractors machinery, fuel, operator, crew, assisting labour complete. The rate of hiring the machinery will be per machine per shift per block. One shift means working of 8 hrs or part thoroof. The item will be operated during block or Non-interlocking only for the purpose of speeding up the work, for early completion of the work during the block and is intended to be onerated to provide additional resources over and above normal resources. The requirement of any machinery for executing a particular item during or prior to block is covered in the rate of relevant items only. The item will be operated at the sole discration of the engineer.JCB	Shift	B.108	20	7880.00	1,57,600.00	

Sr. No	Description	Unit	Code	Qty.	Rate	Amount	Remarks
109	Providing following machine on hire basis speeding of the work during block/ non- interlocking railway work as directed by engineer in charge at site with all contractors machinery, fuel, operator, crew, assisting labour complete. The rate of hiring the machinery will be per machine per shift per block. One shift means working of 8 hrs or part thoroof. The item will be operated during block or Non-interlocking only for the purpose of speeding up the work, for early completion of the work during the block and is intended to be operated to provide additional resources over and above normal resources. The requirement of any machinery for executing a particular item during or prior to block is covered in the rate of relevant items only. The item will be operated at the sole discretion of the engineer. Hydra crane of 8 to 10 tonne capacity	Shift	B.109	20	7880.00	1,57,600.00	
110	Dismantling of Out door signalling gears	Gear	B.110	10	2660.00	26,600.00	
111	Releasing of existing Relay Room and Axle counter room materials, includes indoor items complete	L.S.	B.111	1	33244.00	33,244.00	
112	Charging of Secondary cell 2 V 80 AH as per specifications mentioned in chapter-VII of volume-II	No	B.112	40	394.00	15,760.00	
113	Installation of DC track circuits as per specifications mentioned in chapter-VII of volume-II	TC	B.113	20	2463.00	49,260.00	
114	Fixing and wiring of DC track circuit equipments as per specifications mentioned in chapter-VII of volume-II	TC	B.114	20	2463.00	49,260.00	
115	Instalaltion of TU/TLJB foundation with track connections as per specifications mentioned in chapter-VII of volume-II	Nos.	B.115	60	2463.00	1,47,780.00	Rates are banned for future reference
116	Locate the existing working S&T cable by cross trench across the exiting cable route at repeated locations along the expected cable path, Identification of the S&T cable, Mark the cable route physically, Excavate the cable trench along the identified cable path to expose complete working cable route cautiously to avoid any damage and subsequent failure of working signalling function. Protect the exposed working cable and keep watchman till the cable is shifted to clear the infringement. Further excavate second cable trench away from the infringement to shift the said exposed cable. Shift the working cable manually to new trench from the old route to clear the infringement, carefully without any damage and failure. The working cable may be one or two or a bunch of cable. if needed shall lay new cable in the new infringement free trench to use for transferring the signal function thereafter. this work is to be done in utmost priority condition to clear the infringement to enable Civil Engineering work. Contractor needs to provide proper resources at site. Transportation, Loading/Unloading of cable and laying of extra cable if required at the site shall be excluded in this item.	Per Route Mtr	B.116	500	197.00	98,500.00	
117	Total Signal & Telecom					5,74,84,775.00	
118	GST @ 18%					1,03,47,259.50	
119	Total Cost with GST					6,78,32,034.50	

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