

## SCHEDULE - B

**Name of Work :- Shifting of TPL's HT/LT poles & transformers obstructing the construction of proposed flyover bridge at Ranjnoli & Mankoli Junction on NH-3 at Bhivandi.**

Sr. No.	Particular	Qty.	Rate in (Rs.)		Unit	Amount in (Rs.)
			In Figure	In Word		
1	ITEM NO.(1): Supplying & erecting 3 x 400 sq mm 22 KV, XLPE(E) round armoured cable on wall / ceiling or laid in provided trench / pipe in an approved manner as per specification No. CB-HT.	2000.00	4134.60	Four Thousand One Hundred Thirty Four Point Sixty Only.	Mtr.	8269200.00
2	ITEM NO.(2): Providing and erecting Heat shrinkable outdoor termination kit for 22 KV (E) XLPE HT cable 3x240 to 400 sq. mm. with necessary material as per specification No. CB-JT/HT.	7.00	26609.00	Twenty Six Thousand Six Hundred Nine Only.	Each	186263.00
3	ITEM NO. (3): Providing and erecting Heat shrinkable Straight through joint kit for 22 KV (E) XLPE HT cable 3x300 to 400 sq. mm with necessary material as per specification No.CB-JT/HT.	5.00	52863.00	Fifty Two Thousand Eight Hundred Sixty Three Only.	Each	264315.00
4	ITEM NO. (4): Providing wooden clamps as per the approved sample for HT cable support on pole.	21.00	240.00	Two Hundred Forty Thousand Only.	Each	5040.00

5	ITEM NO. (5): Providing RCC tiles for laying above the HT cable as per the approved sample.	1500.00	21.00	Twenty One Only.	Each	31500.00
6	ITEM NO. (6) : Supplying & laying (including excavation) 25 cm dia RCC Hume pipe of standard thickness at required depth up to 90 cms. Below road/ground surface, for covering provided cable & necessary back filling with light ramming to make the road/ground surface as it was (Except bitumen carpet).	150.00	751.00	Seven Hundred Fifty One Only.	Mtr.	112650.00
7	ITEM NO. (7) : Supplying & laying (including excavation) 15 cm Dia half RCC Hume pipe of standard thickness at required depth upto 90 cms. Below road/ground surface, for enclosing provided cable & necessary back filling with light ramming to make the road/ground surface as it was (Except bitumen carpet).	100.00	472.00	Four Hundred Seventy Two Only.	Mtr.	47200.00
8	ITEM NO. (8) : Supplying and erecting Rolled steel Joist (Girder) pole 152 x 152 mm (37kg/m) with provided base plate in provided foundation as per specification No. OH-PL/RSJ.	66.00	2220.00	Two Thousand Two Hundred Twenty Only.	Mtr.	146520.00

9	ITEM NO. (9) : Providing cement concrete foundation including excavation for the poles 60 cms. x 60 cms. x 1.5 mtr. deep in 1:3:6 cement concrete (20 x 25 mm. stone metal) and 45 cm x 45 cm x 45 cm /45 cm. dia. x 45 cm. height plinth duly plastered and with necessary curing and finishing in an approved manner. (for above 9 m poles)	6.00	3270.00	Three Thousand Two Hundred Seventy Only.	Each	19620.00
10	ITEM NO. (10) : Supplying and erecting ACSR conductor of size – Panther (0.2 Sq. inch) complete. as per specification No. OH-CON/ACSR.	0.20	240000.00	Two Lakh Forty Thousand Only.	Km	48000.00
11	ITEM NO. (11) : Supplying and erecting G.I. stay set for poles, including loop insulators at inaccessible height complete with anchor plate 300 x 300 x 6 mm., straining screws, G.I. stay wire 7/8 SWG, G.I. stay rod 20 mm x 1.8 m length and pole clamps duly erected in provided cement concrete foundation.	4.00	1664.00	One Thousand Six Hundred Sixty Four Only.	Each	6656.00
12	ITEM NO. (12) : Supplying and erecting pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials as per specification No. EAEP.	6.00	1536.00	One Thousand Five Hundred Thirty Six Only.	Each	9216.00

13	ITEM NO. (13) : Dismantling the existing pole above 6 m height with brackets, clamps, insulators, stay from the cement concrete foundation and making the site clear by refilling the pits with excavated materials and bringing it to the ground level.	17.00	615.00	Six Hundred Fifteen Only.	Each	10455.00
14	ITEM NO. (14) : Dismantling the existing overhead line including G.I. wires of all sizes without damaging & making the coils in suitable sizes.	6.00	816.00	Eight Hundred Sixteen Only.	Km	4896.00
15	ITEM NO. (15) : Dismantling the existing tower with brackets, clamps, insulators, stay from the cement concrete foundation and making the site clear by refilling the pits with excavated materials and bringing it to the ground level.	2.00	15506.00	Fifteen Thousand Five Hundred Six Only.	Each	31012.00
16	ITEM NO. (16) : Supplying and erecting porcelain post type insulator suitable for 22KV line, complete as per specification No. OH-INS/PN.	6.00	1121.00	One Thousand One Hundred Twenty One Only.	Each	6726.00
17	ITEM NO. (17) : Supplying and erecting porcelain disc type insulator suitable for 11KV line, complete as per specification No. OH-INS/DI.	36.00	1221.00	One Thousand Two Hundred Twenty One Only.	Each	43956.00
18	ITEM NO. (18) : Supplying and erecting tension hardware required for overhead lines.	24.00	650.00	Six Hundred Fifty Only.	Nos.	15600.00

19	ITEM NO. (19): Supplying and erecting 100 x 50 mm with 4.7 mm thick web and 7.5 mm thick flange channel iron cross arm for 3 mtr. DP, complete as per specification No. OH-PL/BKT. (6 nos. of 10 feet & 52 nos. of 5 feet.	27.00	2284.00	Two Thousand Two Hundred Eighty Four Only.	Each	61668.00
20	ITEM NO. (20) : Supplying and erecting Vee cross arm for erecting Insulators with channel length of 45mm for base of insulator & vertical member of suitable length to maintain clearance of 1530 mm horizontally between two insulators with angle of 60 degree to horizontal and the total vertical height of V cross arm as 460mm, welded with MS flat of 80x10mm at centre of cross arm & MS clamp of 80x10 mm at bottom with clamps, nut bolts, washers complete as per specification No. OH-PL/VCA.	1.00	2291.00	Two Thousand Two Hundred Ninety One Only.	Each	2291.00
21	ITEM NO. (21) : Excavating Hard Murum/metal road (B.T.) by chiselling for preparing pit for poles stay or earth plates or for laying cables, pipes & clearing the site by removing debris & making the site good.	150.00	167.00	One Hundred Sixty Seven Only.	Cum	25050.00
22	ITEM NO. (22): Providing inspection chamber for HT cable with suitable MS cover and sand filling etc. as per MSEDCL's requirement.	8.00	12500.00	Twelve Thousand Five Hundred Only.	Each	100000.00

23	ITEM NO. (23): Horizontal drilling of 150 mm dia bore for laying the cable.	320.00	6000.00	Six Thousand Only.	Rmt	1920000.00
24	ITEM NO. (24) : Preperation of layout drawing – 2 sets, bringing necessary permission from Electrical inspector for converting HT line to underground Cabling, arranging visit of electrical inspector, getting approval of MSEDCL for charging the line after shifting the work at Ranjnoli Junction. All permission as per I.E. rules & MSEDCL requirement. Actual fees required to be paid to electrical inspector for shifting & charging H.T. line shall be borne by the Department which is not inclusive in above job.	1.00	25000.00	Twenty Five Thousand Only.	Job	25000.00
<b>Total of Sub (Work - I) Rs.</b>						<b>11392834.00</b>
<b>SUB WORK - II</b>						
1	ITEM NO. (1) : Supplying & erecting PVC armoured cable 3-1/2 core 400 sq mm aluminium conductor with continuous 12.97 sq mm (8 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL.	10.00	2052.00	Two Thousand Fifty Two Only.	Mtr.	20520.00

2	ITEM NO. (2) : Supplying and erecting Rolled steel Joist (Girder) pole 152 x 152 mm (37kg/m) with provided base plate in provided foundation as per specification No. OH-PL/RSJ. 2 nos.X 11 m.	22.00	2220.00	Two Thousand Two Hundred Twenty Only.	Mtr.	48840.00
3	ITEM NO. (3): Supplying and erecting approved make 22 KV outdoor type gang operated air break, triple pole switch 200A, capacity with 3 post pin type insulator per phase, mounted in horizontal or vertical position with necessary channels on provided cross arm with adequate length of "C" class G.I. pipe for operating handle erected on extended square shaft. The operating handle provided with lock and key at suitable height from ground level with necessary clamp.	1.00	25521.00	Twenty Five Thousand Five Hundred Twenty One Only.	Set	25521.00
4	ITEM NO. (4): Supplying and erecting approved make, 22 KV outdoor type drop out fuse with insulator complete with fuse holders, fuse barrel with metal fitting, fuse element mounted on M.S. channel with working current of 15 Amps capacity complete erected on provided cross arm.	0.00	16541.00	Sixteen Thousand Five Hundred Forty One Only.	Each	0.00
5	ITEM NO. (5): Supplying and erecting 100 x 50 mm with 4.7 mm thick web and 7.5 mm thick flange channel iron cross arm for 3 mtr. DP, complete as per specification No. OH-PL/BKT. (6 nos. of 10 feet).	6.00	2284.00	Two Thousand Two Hundred Eighty Four Only.	Each	13704.00

6	ITEM NO. (6) : Supplying and erecting Distribution class, 22 KV thyrite type lightening arresters, on provided cross arm as per specification No. OH-INS/LA.	3.00	2063.00	Two Thousand Sixty Three Only.	Each	6189.00
7	ITEM NO. (7) : Supplying and erecting pole clamp made from 50 x 10 mm MS flat for pole or pipe, post complete erected with 15 mm bolts and nuts, complete duly painted with one coat of red oxide and two coats of aluminium paint.	25.00	259.00	Two Hundred Fifty Nine Only.	Each	6475.00
8	ITEM NO. (8) Supplying and erecting G.I. strip of required size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with bituminous paint in an approved manner with joint required. as per specification No (EA-EP).	222.00	158.00	One Hundred Fifty Eight Only.	Kg	35076.00
9	ITEM NO. (9) : Providing cement concrete foundation including excavation for the poles 60 cms. x 60 cms. x 1.5 mtr. deep in 1:3:6 cement concrete (20 x 25 mm. stone metal) and 45 cm x 45 cm x 45 cm /45 cm. dia. x 45 cm. height plinth duly plastered and with necessary curing and finishing in an approved manner. (for above 9 m poles).	2.00	3270.00	Three Thousand Two Hundred Seventy Only.	Each	6540.00



10	ITEM NO. (10): Supplying and erecting mini feeder pillar triple pole with 300A FPMCCB as incomer and 3 outgoing circuits with HRC Fuse base and Cartridge of 100A consists of aluminium, bus bar 500V 300A complete erected in 14 gauge CRCA sheet box with supporting angles, self locks, gasket and slanting top to be erected on provided foundation as per per specification No. SW-SWR/MFP (Fuse section pillar as per TPL specifications).	1.00	48487.00	Forty Eight Thousand Four Hundred Eighty Seven Only.	Each	48487.00
11	ITEM NO. (11) Providing & erecting 3 Pole MCCB of 600/630 A. capacity with MCB link 630 Amp S C rating of 50 KA, thermal and magnetic setting with provided leads on iron frame as per specification No. SW-SWR/MCCB.	1.00	34499.00	Thirty Four Thousand Four Hundred Ninety Nine Only.	Each	34499.00
12	ITEM NO. (12) : Supplying and erecting Galvanised cast iron earth plate size 60 x 60 x 0.6 cms. with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials, testing & recording the results as per specification No.	4.00	5234.00	Five Thousand Two Hundred Thirty Four Only.	Each	20936.00
13	ITEM NO. (13) : Supplying and erecting porcelain post type insulator suitable for 22KV line, complete as per specification No. OH-INS/PN.	6.00	1121.00	One Thousand One Hundred Twenty One Only.	Each	6726.00

14	ITEM NO. (14) : Providing transformer plinth 1.5 x 1.5 x 1.5 m in size with necessary excavation in ground at the bottom with 150 mm. thick 1:2:4 cement concrete raft at the bottom and top and 225 mm. thick wall constructed in stone masanory and remaining hallow portion shall be filled in by 1:5:10 cement concrete, duly plastered 20 mm thick outside including watering etc. complete.	0.00	13250.00	Thirteen Thousand Two Hundred Fifty Only.	Each	0.00
15	ITEM NO. (15) : Shifting of transformer complete with dismantling and re erection, transportation, providing jumpers and connections etc complete.	0.00	25000.00	Twenty Five Thousand Only.	Job	0.00
16	ITEM NO. (16) : Providing C.C. foundation including excavation for stay 60 cm x 60 cm x 1.5 m deep in 1:3:6 cement concrete (20x25mm.stone metal) with necessary curing and finishing in an approved manner.	5.00	3374.00	Three Thousand Three Hundred Seventy Four Only.	Cum	16870.00
<b>Total of Sub (Work - II) Rs.</b>						<b>290383.00</b>
<b>SUB WORK - III</b>						
1	ITEM NO.(1): Supplying & erecting 3 x 400 sq mm 22 KV, XLPE(E) round armoured cable on wall / ceiling or laid in provided trench / pipe in an approved manner as per specification No. CB-HT.	450.00	4134.60	Four Thousand One Hundred Thirty Four Point Sixty Only.	Mtr.	1860570.00

2	ITEM NO.(2): Providing and erecting Heat shrinkable indoor termination kit for 22 KV ( E ) XLPE HT cable 3x240 to 400 sq. mm. with necessary material as per specification No. CB-JT/HT.	6.00	15618.00	Fifteen Thousand Six Hundred Eighteen Only.	Each	93708.00
3	ITEM NO. (3): Providing and erecting Heat shrinkable Straight through joint kit for 22 KV (E) XLPE HT cable 3x300 to 400 sq. mm with necessary material as per specification No.CB-JT/HT.	1.00	52863.00	Fifty Two Thousand Eight Hundred Sixty Three Only.	Each	52863.00
4	ITEM NO. (4): Providing wooden clamps as per the approved sample for HT cable support on pole.	18.00	240.00	Two Hundred Forty Only.	Each	4320.00
5	ITEM NO. (5): Providing RCC tiles for laying above the HT cable as per the approved sample.	3600.00	21.00	Twenty One Only.	Each	75600.00
6	ITEM NO. (6) : Supplying & laying (including excavation) 25 cm dia RCC Hume pipe of standard thickness at required depth up to 90 cms. Below road/ground surface, for covering provided cable & necessary back filling with light ramming to make the road/ground surface as it was (Except bitumen carpet).	50.00	751.00	Seven Hundred Fifty One Only.	Mtr.	37550.00

7	ITEM NO. (7) : Supplying & laying (including excavation) 15cm Dia half RCC Hume pipe of standard thickness at required depth upto 90 cms. Below road/ground surface, for enclosing provided cable & necessary back filling with light ramming to make the road/ground surface as it was (Except bitumen carpet).	100.00	472.00	Four Hundred Seventy Two Only.	Mtr.	47200.00
8	ITEM NO. (8) : Supplying and erecting pipe type earthing with 40mm. dia. G.I. pipe or 20 mm dia. G.I. Rod complete with all materials as per specification No. EAEP.	2.00	1536.00	One Thousand Five Hundred Thirty Six Only.	Each	3072.00
9	ITEM NO. (9) : Dismantling the existing pole above 6 m height with brackets, clamps, insulators, stay from the cement concrete foundation and making the site clear by refilling the pits with excavated materials and bringing it to the ground level.	2.00	615.00	Six Hundred Fifteen Only.	Each	1230.00
10	ITEM NO. (10): Supplying and erecting 100 x 50 mm with 4.7 mm thick web and 7.5 mm thick flange channel iron cross arm for 3 mtr. DP, complete as per specification No. OH-PL/BKT. (18 nos. of 10 feet).	18.00	2284.00	Two Thousand Two Hundred Eighty Four Only.	Each	41112.00
11	ITEM NO. (11): Excavating Hard Murum/metal road (B.T.) by chiselling for preparing pit for poles stay or earth plates or for laying cables, pipes & clearing the site by removing debris & making the site good.	100.00	167.00	One Hundred Sixty Seven Only.	Cum	16700.00

12	ITEM NO. (12): Providing inspection chamber for HT cable with suitable MS cover and sand filling etc. as per MSEDCL's requirement.	4.00	12500.00	Twelve Thousand Five Hundred Only.	Each	50000.00
13	ITEM NO. (13): Horizontal drilling of 150 mm dia bore for laying the cable.	160.00	6000.00	Six Thousand Only.	Rmt	960000.00
14	ITEM NO. (14) : Preperation of layout drawing – 2 sets, bringing necessary permission from Electrical inspector for converting HT line to underground Cabling, arranging visit of electrical inspector, getting approval of MSEDCL for charging the line after shifting the work at Mankoli Junction. All permission as per I.E. rules & MSEDCL requirement. Actual fees required to be paid to electrical inspector for shifting & charging H.T. line shall be bourne by the Department which is not inclusive in above job.	1.00	5950.00	Five Thousand Nine Hundred Fifty Only.	Nos.	5950.00
15	ITEM NO.(15): Supplying & erecting PVC armoured cable 3-1/2 core 70 sq mm aluminium conductor with continuous 12.97 sq mm (8 SWG) G.I. earth wire complete erected with glands & lugs, on wall/trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL.	116.00	516.00	Five Hundred Sixteen Only.	Mtr.	59856.00

16	ITEM NO.(16): Supplying & erecting PVC armoured cable 3-1/2 core 300 sq mm aluminium conductor with continuous 12.97 sq mm (8 SWG) G.I. earth wire complete erected with glands & lugs, on wall/trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL.	20.00	1627.00	One Thousand Six Hundred Twenty Seven Only.	Mtr.	32540.00
17	ITEM NO. (17) : Supplying and erecting pole clamp made from 50 x 10 mm MS flat for pole or pipe, post complete erected with 15 mm bolts and nuts, complete duly painted with one coat of red oxide and two coats of aluminium paint.	20.00	259.00	Two Hundred Fifty Nine Only.	Each	5180.00
18	ITEM NO. (18): Supplying and erecting mini feeder pillar triple pole with 200A FPMCCB as incomer and 3 outgoing circuits with HRC Fuse base and Cartridge of 100A consists of aluminium,bus bar 500V 300A complete erected in 14 gauge CRCA sheet box with supporting angles, self locks, gasket and slanting top to be erected on provided foundation as per per specification No. SW-SWR/MFP (Fuse section pillar as per TPL specifications.)	1.00	34752.00	Thirty Four Thousand Seven Hundred Fifty Two Only.	Each	34752.00

19	ITEM NO. (19) : Supplying and erecting Galvanised cast iron earth plate size 60 x 60 x 0.6 cms. with funnel with a wire mesh for watering and brick masonry block C.I. cover complete with all materials, testing & recording the results as per specification No. EA-EP.	2.00	5234.00	Five Thousand Two Hundred Thirty Four Only.	Each	10468.00
<b>Total of Sub (Work - III) Rs.</b>						<b>3392671.00</b>
<b>Grand Total of Sub Work (I+II+III) Rs.</b>						<b>15075888.00</b>

**(Rupees One Crore Fifty Lakhs Seventy Five Thousand Eight Hundred Eighty Eight Only).**