

SCHEDULE-B

BoQ view By	Sub-Division		
Name of Sub-Division	Dindoli-A	Estimated BOQ in Cr.	23.90

Supply, Installation, Testing & Commissioning for Conversion of Existing LT Electrical Network into Underground Cable Network with Associated Activities under jurisdiction area of Dindoli-A (Mahanagarpalika/Nagarpalika/Taluka/Town) Sub-Division for all Feeders under Gujarat Wire Free City Mission (GWFCM)-GoG Scheme.

Sr.	Particulars of Item	Supply of Material inclusive of 18% GST				Labor Charge inclusive of only 18% GST			Grand Total in Rs.
		Unit	Supply Qty.	Unit Rate in Rs	Total in Rs	Erection Qty.	Unit Rate in Rs.	Total in Rs	
A	Supply Installation Testing & Commissioning of LT FSP-MSP-BUSBAR & It's Accessories as per attached Technical Specification								
1	FSP (Fuse Section Piller) 800 Amp : Supplying and erecting 120x100x40 cms. Fuse section pillar fabricated from 4 mm thick Thermosetting Plastic(moulded in a single piece) i.e. Glass Reinforced Polyester Sheet Moulding Compound (SMC) with cable clamps to be burried in ground to have appropriate erection on look uniform unit erected with cement concrete foundation and 45 cms high brick masonry internal supported on both side with internal and outer side locking arrangement with lock and keys in duplicate. Incoming switchgear SFU of 800 Amp TPN and outgoing HRC SMC fuse base and kinfe type links 32 Amp to 630 Amp. capacity, fuse base fitted on 630 Amp. current capacity copper Busbar with RYB colour coding and insulated strip with all internal connections and entry for incoming 1 Core 300 Sq.mm 4 Nos. and outgoing 5/6 nos. 3.5 core cables of suitable sizes.(As per Technical specification of FSP)	Nos	4	120194.80	480779.20	4	4577.22	18308.88	499088.08

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2	FSP (Fuse Section Pillar) 630 Amp: Supplying and erecting 120x100x40 cms. Fuse section pillar fabricated from 4 mm thick Thermosetting Plastic(moulded in a single piece) i.e. Glass Reinforced Polyester Sheet Moulding Compound (SMC) with cable clamps to be burried in ground to have appropriate erection on look uniform unit erected with cement concrete foundation and 45 cms high brick masonry internal supported on both side with internal and outer side locking arrangement with lock and keys in duplicate. Incoming switchgear SFU of 630 Amp TPN and outgoing HRC SMC fuse base and kinfe type links 32 Amp to 630 Amp. capacity, fuse base fitted on 630 Amp. current capacity copper Busbar with RYB colour coding and insulated strip with all internal connections and entry for incoming 1 Core 300 Sq.mm 4 Nos. and outgoing 5/6 nos. 3.5 core cables of suitable sizes.(As per Technical specification of FSP)	Nos	28	96594.80	2704654.40	28	4577.22	128162.16	2832816.56
3	MSP (Mini Section Pillar) 400 Amp: Supplying and erecting with rain hood shall be 1370(H) x 735 (W) x 516 (D)mm. Mini section pillar fabricated from 3.15 mm. mm thick Thermosetting Plastic(moulded in a single piece) i.e. Glass Reinforced Polyester Sheet Moulding Compound (SMC) with cable clamps to be burried in ground to have appropriate erection on look uniform unit erected with cement concrete foundation and 45 cms high brick masonry internal supported on both side with internal and outer side locking arrangement with lock and keys in duplicate. Incoming HRC SMC fuse base and kinfe type links 32 Amp to 250 Amp. capacity, fuse base fitted on 250 Amp. current capacity copper Busbar with RYB colour coding and insulated strip with all internal connections and entry for incoming 1 Core 300 Sq.mm 4 Nos. and outgoing 5/6 nos. 3.5 core cables of suitable sizes.(As per Technical specification of MSP)	Nos	484	35695.00	17276380.00	484	4577.22	2215374.48	19491754.48

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4	MSP (Mini Section Pillar) 200 Amp : Supplying and erecting with rain hood shall be 1370(H) x 735 (W) x 516 (D)mm. Mini section pillar fabricated from 3.15 mm. mm thick Thermosetting Plastic(moulded in a single piece) i.e. Glass Reinforced Polyester Sheet Moulding Compound (SMC) with cable clamps to be burried in ground to have appropriate erection on look uniform unit erected with cement concrete foundation and 45 cms high brick masonry internal supported on both side with internal and outer side locking arrangement with lock and keys in duplicate. Incoming HRC SMC fuse base and kinfe type links 32 Amp to 250 Amp. capacity, fuse base fitted on 250 Amp. current capacity copper Busbar with RYB colour coding and insulated strip with all internal connections and entry for incoming 1 Core 300 Sq.mm 4 Nos. and outgoing 5/6 nos. 3.5 core cables of suitable sizes.(As per Technical specification of MSP)	Nos	727	23895.00	17371665.00	727	4577.22	3327638.94	20699303.94
5	SFU: Supply, Instalation, Testing, Commissioning switch fuse unit made by SMC box and capacity of 400 A, Mostaly used in flat area. Installation worked caried out with instruction of EIC. And as per the drawing approved by CA- Minimum 16 Nos. Of Circuit	Nos	3	24426.00	73278.00	3	1561.14	4683.42	77961.42
6	SFU: Supply, Instalation, Testing, Commissioning switch fuse unit made by SMC box and capacity of 200 A, Mostaly used in flat area. Installation worked caried out with instruction of EIC. And as per the drawing approved by CA - Minimum 16 Nos. Of Circuit	Nos	3	21712.00	65136.00	3	1357.00	4071.00	69207.00
7	Supply ,Installation,Testing & Commissioning of Busbar Chamber capacity of 100 Amp.Installation worked caried out with instruction of EIC.	Nos	65	10165.70	660770.50	65	1180.00	76700.00	737470.50
8	Preparing and supply of complete drawing Society/Transformer wise (In soft & Hard Copy) from road centre level including jointing locations etc. for cable laid routes in six sets. The drawing should be geographical indicating all directions (For Turnkey Projects Only)	Per Kilometer	0	0.00	0.00	40.32	1180.00	47577.60	47577.60
9	WARNING TAP: For laying on trench after laying cable on trech to provide indication cable route below land surface in underground trench to protect cable for mechanical injuries.	Mtrs.	43172	16.52	713201.44	43172	8.26	356600.72	1069802.16
10	CABLE TERMINAL FERRULS: The PVC Cable terminal ferruls for identification of phase sequence and feeder/PSS/FSP name of HT/LT cables shall be provided at every termination of all cables stating detail as under. HT Cable :Feeder name/Phase(R/Y/B) LT Cable : TC/FSP name/Phase(R/Y/B/N) -Digital Embosing	Nos.	23772	23.60	561019.20	23772	11.80	280509.60	841528.80

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11	CABLE TAG: The PVC tag for identification of feeder/PSS/FSP/RMU name of HT/LT cables shall be provided at every 10 MTR HT Feeder: Substation/Feeder LT Feeder : PSS/Transformer/FSP	Nos	2419	23.60	57088.40	2419	11.40	27573.70	84662.10
12	EARTHING PIT : Supply, Installation, Testing and commissioning erecting earth pit of minimum bore dia. 150 mm size approved make safe Earthing Electrode consisting Pipe in pipe Technology as per IS 3043-1987 made of corrosion free G.I. Pipes having Outer pipe dia of 48 mm having 80-200 Micron galvanising connections, terminal dia of 12 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation with civil works of earthing chamber. For Electrical installation covering Transformer neutrals, HT & LT switchgears for independent earthing in normal soil, Length of Pipe 2/3 mtrs. Backfilling compound 2 bags of 25 kg each (As per technical specification and drawing) - 2000 MM electrode for FSP & MSP Chemical Type Earthing	No.	1243	4546.54	5651349.22	1243	1180.00	1466740.00	7118089.22
13	EARTHING PIT : Supply, Installation, Testing and commissioning erecting earth pit of minimum bore dia. 150 mm size approved make safe Earthing Electrode consisting Pipe in pipe Technology as per IS 3043-1987 made of corrosion free G.I. Pipes having Outer pipe dia of 48 mm having 80-200 Micron galvanising connections, terminal dia of 12 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation with civil works of earthing chamber. For Electrical installation covering Transformer neutrals, HT & LT switchgears for independent earthing in normal soil, Length of Pipe 2/3 mtrs. Backfilling compound 2 bags of 25 kg each (As per technical specification and drawing) - 3000 MM electrode for CSS/Transformer-Chemical Type Earthing	No.	58	6341.32	367796.56	58	1180.00	68440.00	436236.56
14	Supply, Installation & commissioning of earthing conductor 25 x 3 mm G.I. strip for pole mounted transformer and upto FSP, MSP Etc as well as connection to be made to the earth pit. Rates inclusive of hot dipped hardware. (With Isulated Sleeve)	Meter	1164.25	107.38	125017.17	1164	61.36	71438.38	196455.55
15	LT cable saddling works: Direct cable saddling with and within wall and etc for this work GI type saddle and nail shall be used. (Rate of fixing of clip and nails to be considered with all sundry material).	No.	0	0.00	0.00	59544	21.24	1264714.56	1264714.56

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16	Providing and applying painted pointed lettering of 2-inch size on FSP, MSP, SFU, etc., at any location as directed by the Engineer-in-Charge, including supply of approved paint, surface preparation, and all labour, materials, tools, and incidental charges, complete.	Ea.	0	0.00	0.00	1314	5.90	7752.60	7752.60
B	LT XLPE CABLE: Supply Installation Testing & Commissioning of XLPE(IS:7098) (I)-88 ISI marked Armoured cable multistrand Aluminium conductor for 1.1 kV to be laid by digging cable trench method (IS:1255) of following size of cables.(Including rate of Half Round Muff Size-1" thick, 6"dia. Having minimum length 12" half round cement pipes -Open Excavation Method-As per attached Technical Specification & Methodolgy								
1	1C X 300 Sqmm LT Cable (TC to FSP by saddling)	Meter	200	754.02	150804.00	0	0.00	0.00	150804.00
2	1C X 400 Sqmm LT Cable (TC to FSP by saddling)	Meter	32	972.32	31114.24	0	0.00	0.00	31114.24
3	3.5 C X 300 mm2 Aluminium LT Cable	Meter	1935	2120.46	4103514.19	1935	303.26	586868.75	4690382.94
4	3.5 CX 240 mm2 Aluminium LT Cable	Meter	9677	1713.36	16579842.05	9677	303.26	2934586.37	19514428.42
5	3.5 C X 185 mm2 Aluminium LT Cable	Meter	5419	1355.82	7346917.42	5419	286.74	1553786.71	8900704.13
6	3.5 C X 150 mm2 Aluminium LT Cable	Meter	2322	1099.76	2553642.72	2322	286.74	665810.28	3219453.00
7	3.5 C X 120 mm2 Aluminium LT Cable	Meter	90	929.84	83313.66	27	286.74	7741.98	91055.64
8	4 C X 95 mm2 Aluminium LT Cable	Meter	77	720.98	55371.26	23	286.74	6595.02	61966.28
9	4 C X 70 mm2 Aluminium LT Cable	Meter	366	538.08	196937.28	110	237.18	26089.80	223027.08
10	4 C X 50 mm2 Aluminium LT Cable	Meter	454	413.00	187336.80	136	237.18	32256.48	219593.28
11	4 C X 25 mm2 Aluminium LT Cable	Meter	902	257.24	232133.38	271	237.18	64275.78	296409.16
12	4 C X 16 mm2 Aluminium LT Cable	Meter	717	181.72	130329.58	215	237.18	50993.70	181323.28
13	4 C X 10 mm2 Aluminium LT Cable	Meter	8265	140.42	1160599.38	2480	237.18	588206.40	1748805.78
14	2C X 10 mm2 Aluminium LT Cable	Meter	30455	70.21	2138259.59	9137	237.18	2167113.66	4305373.25
15	2C X 6 mm2 Aluminium LT Cable	Meter	38066	56.05	2133599.30	11420	237.18	2708595.60	4842194.90
C	LT XLPE CABLE: Supply Installation Testing & Commissioning of XLPE(IS:7098) (I)-88 ISI marked Armoured cable multistrand Aluminium conductor for 1.1 kV to be laid by push through method of following size of cables(Including rate of HDPE Pipe-Size of HDPE Pipe ia attached)-Push Through Digging Method-As per attached Technical Specification								
1	1C X 300 Sqmm LT Cable	Meter	300	754.02	226206.00	0	0.00	0.00	226206.00
2	1C X 400 Sqmm LT Cable	Meter	48	972.32	46671.36	0	0.00	0.00	46671.36
3	3.5 C X 300 mm2 Aluminium LT Cable	Meter	2903	2120.46	6155271.29	2903	1593.00	4624160.40	10779431.69
4	3.5 CX 240 mm2 Aluminium LT Cable	Meter	14515	1713.36	24869763.07	14515	1593.00	23122713.60	47992476.67
5	3.5 C X 185 mm2 Aluminium LT Cable	Meter	8128	1355.82	11020376.12	8128	1593.00	12948222.60	23968598.72
6	3.5 C X 150 mm2 Aluminium LT Cable	Meter	3483	1099.76	3830464.08	3483	848.42	2955046.86	6785510.94

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7	3.5 C X 120 mm2 Aluminium LT Cable	Meter	134	929.84	124970.50	13	848.42	11029.46	135999.96
8	4 C X 95 mm2 Aluminium LT Cable	Meter	115	720.98	83056.90	12	848.42	10181.04	93237.94
9	4 C X 70 mm2 Aluminium LT Cable	Meter	549	538.08	295405.92	55	479.08	26349.40	321755.32
10	4 C X 50 mm2 Aluminium LT Cable	Meter	680	413.00	281005.20	68	479.08	32577.44	313582.64
11	4 C X 25 mm2 Aluminium LT Cable	Meter	1354	257.24	348200.06	135	479.08	64675.80	412875.86
12	4 C X 16 mm2 Aluminium LT Cable	Meter	1076	181.72	195494.38	108	479.08	51740.64	247235.02
13	4 C X 10 mm2 Aluminium LT Cable	Meter	12398	140.42	1740899.08	1240	479.08	594059.20	2334958.28
14	2C X 10 mm2 Aluminium LT Cable	Meter	45683	70.21	3207389.39	4568	479.08	2188437.44	5395826.83
15	2C X 6 mm2 Aluminium LT Cable	Meter	57099	56.05	3200398.95	5710	479.08	2735546.80	5935945.75
D	LT Cable Termination: Supply Installation Testing & Commissioning of Cable Termination and erection on LT Pole, FSP, MSP, LT Distribution Trasformer Box of pole mounted trasformer/transformer center LT side of LT cable grade as specified below. LT CABLE including cutting,stripping of cable,insulations,providing compression type terminals,suitable cable glands,crimping lugs with necessary connections.Work carried out up to consumer premises with meter shifting, and provide load side cable as per site conditions and as per EIC. All the accessories in the scope of bidders.								
1	1C X 400 Sqmm LT Cable	Nos	224	1739.32	389607.68	224	73.16	16387.84	405995.52
2	3.5 C X 300 mm2 Aluminium LT Cable	Nos	243	1469.10	356991.30	243	73.16	17777.88	374769.18
3	3.5 CX 240 mm2 Aluminium LT Cable	Nos	1210	1469.10	1777611.00	1210	73.16	88523.60	1866134.60
4	3.5 C X 185 mm2 Aluminium LT Cable	Nos	678	1109.20	752037.60	678	73.16	49602.48	801640.08
5	3.5 C X 150 mm2 Aluminium LT Cable	Nos	289	1109.20	320558.80	289	73.16	21143.24	341702.04
6	3.5 C X 120 mm2 Aluminium LT Cable	Nos	16	1049.02	16784.32	16	73.16	1170.56	17954.88
7	4 C X 95 mm2 Aluminium LT Cable	Nos	13	1049.02	13637.26	13	73.16	951.08	14588.34
8	4 C X 70 mm2 Aluminium LT Cable	Nos	61	1049.02	63990.22	61	73.16	4462.76	68452.98
9	4 C X 50 mm2 Aluminium LT Cable	Nos	76	948.72	72102.72	76	73.16	5560.16	77662.88
10	4 C X 25 mm2 Aluminium LT Cable	Nos	151	948.72	143256.72	151	41.30	6236.30	149493.02
11	4 C X 16 mm2 Aluminium LT Cable	Nos	119	929.84	110650.96	119	41.30	4914.70	115565.66
12	4 C X 10 mm2 Aluminium LT Cable	Nos	1378	929.84	1281319.52	1378	41.30	56911.40	1338230.92
13	2 C X 10 mm2 Aluminium LT Cable	Nos	5076	464.92	2359933.92	5076	20.65	104819.40	2464753.32
14	2 C X 6 mm2 Aluminium LT Cable	Nos	6345	400.61	2541870.45	6345	20.65	131024.25	2672894.70
E	Providing, supplying, laying, fixing and commissioning of Green color Hose Pipe for LT armored service cable protection/saddling work in consumer premises where digging is not possible up to energy meter location, including all accessories such as saddles, clamps, clips, bends, fastening materials etc. complete in all respect as per technical specification.(Saddleing with and within wall and etc, for this work GI type saddle and nail shall be used)								
1	Green color Hose Pipe of Size 40mm/32mm	Meter	58805	140.00	8232700.00	58805	21.24	1249018.20	9481718.20

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2	Green color Hose Pipe of Size 77mm/63mm	Meter	340	430.00	146200.00	340	21.24	7221.60	153421.60
3	Green color Hose Pipe of Size 90mm/75mm	Meter	275	480.00	132000.00	275	21.24	5841.00	137841.00
F	Backfilling and Restoration Work including removing / demolition of existing .								
1	Demolition & Providing and laying cement concrete 1:2:4 (1-Cement: 2- coarse sand: 4- hand broken stone aggregates 40 mm nominal size) and curing complete excluding cost of formwork (For 0.15m thick concrete)	Rmt.	0	0.00	0.00	3387	888.54	3009484.98	3009484.98
2	Removing & Re-fixing Paver block /pre-cast Rubber Dye / steel Dye Inter locking concrete block 60mm thick with grade of concrete M300 pneumatic compressed/vibrated mechanically and as per approved design Confirming to IS 15658: 2006 including 35 mm Sand layer for levelling and filling the joint with sand in proper line and level as per guidelines of IRC: SP 63-2018 etc. Complete in true line and level as directed by EIC.	Rmt.	0	0.00	0.00	2259	438.96	991610.64	991610.64
G	DISMENTALLING WORK:								
1	Dismantaling of LT ABC OF 3*50 SQ MM +1*25 SQ MM+1*35 SQ MM and crediting fitting of all accessories to departmental store.	KM	0	0.00	0.00	36	7275.88	264987.55	264987.55
2	Dismantaling of LT ABC OF 1*35 SQ MM + 1*25 SQ MM and crediting fitting of all accessories to departmental store.	KM	0	0.00	0.00	4	4157.14	16212.85	16212.85
3	Dismantaling & removing of service line from pole & crediting to concern sub-divn offices (1 ph.)	Nos	0	0.00	0.00	6625	130.98	867742.50	867742.50
4	Dismantaling & removing of service line from pole & crediting to concern sub-divn office s(3 ph.)	Nos	0	0.00	0.00	2839	241.90	686754.10	686754.10
5	Dismantalling of 8 Mtr PSC Pole including all components (Old fabrication,guy set,pin/Disc Insulator,Nut-Bolt etc.) with crediting of fabrication at store & stacking of pole safely on road side or crediting to DGVCL store	Nos	0	0.00	0.00	645	800.04	516025.80	516025.80
6	Dismantaling Of Rsj (9/11 Meter) Pole including all components (Old fabrication,guy set,pin/Disc Insulator,Nut-Bolt etc.)And Crediting to DGVCL Store	Nos	0	0.00	0.00	26	1077.34	28010.84	28010.84
10	Dismantaling Of LT Distribution Box and Crediting to DGVCL Store	Nos	0	0.00	0.00	29	481.44	13961.76	13961.76
TOTAL of Material Part					157528674.71				78290304.71
2% storage charge					3150573.49				
TOTAL Material cost					160679248.20				
Total Labour Cost					78290304.71				

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Total Cost				238969552.91					
			Total cost in Cr.		23.90				