

SCHEDULE-B

<u>BoQ view By</u>		Sub-Division							
Name of Sub-Division		Amroli-B		Estimated BOQ in Cr. 25.41					
Supply, Installation, Testing & Commissioning for Conversion of Existing LT Electrical Network into Underground Cable Network with Associated Activities under jurisdiction area of Amroli-B (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 Pillar) 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	24	120194.80	2884675.20	24	4577.22	109853.28	2994528.48

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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	65	96594.80	6278662.00	65	4577.22	297519.30	6576181.30
3	FSP (Fuse Section Pillar) 400 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 400 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	10	84794.80	847948.00	10	4577.22	45772.20	893720.20

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4	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	440	35695.00	15705800.00	440	4577.22	2013976.80	17719776.80
5	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	659	23895.00	15746805.00	659	4577.22	3016387.98	18763192.98
6	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	5	24426.00	122130.00	5	1561.14	7805.70	129935.70
7	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	5	21712.00	108560.00	5	1357.00	6785.00	115345.00

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8	Supply ,Installation,Testing & Commissioning of Busbar Chamber capacity of 100 Amp.Installation worked caried out with instruction of EIC.	Nos	107	10165.70	1087729.90	107	1180.00	126260.00	1213989.90
9	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	36.63	1180.00	43223.40	43223.40
10	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.	51788	16.52	855537.76	51788	8.26	427768.88	1283306.64
11	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.	54368	23.60	1283084.80	54368	11.80	641542.40	1924627.20
12	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	2198	23.60	51872.80	2198	11.40	25054.56	76927.36
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) - 2000 MM electrode for FSP & MSP Chemical Type Earthing	No.	1198	4546.54	5446754.92	1198	1180.00	1413640.00	6860394.92

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14	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.	182	6341.32	1154120.24	182	1180.00	214760.00	1368880.24
15	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 Insulated Sleeve)	Meter	1626.50	107.38	174653.57	1627	61.36	99802.04	274455.61
16	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	85516	21.24	1816359.84	1816359.84
17	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	1315	5.90	7758.50	7758.50
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 & Methodology								
1	1C X 300 Sqmm LT Cable (TC to FSP by saddling)	Meter	552	754.02	416219.04	0	0.00	0.00	416219.04
2	1C X 400 Sqmm LT Cable (TC to FSP by saddling)	Meter	176	972.32	171128.32	0	0.00	0.00	171128.32
3	3.5 C X 300 mm2 Aluminium LT Cable	Meter	1758	2120.46	3728616.86	1758	303.26	533252.38	4261869.25
4	3.5 CX 240 mm2 Aluminium LT Cable	Meter	8791	1713.36	15062490.43	8791	303.26	2666019.31	17728509.74
5	3.5 C X 185 mm2 Aluminium LT Cable	Meter	4923	1355.82	6674973.02	4923	286.74	1411678.37	8086651.39
6	3.5 C X 150 mm2 Aluminium LT Cable	Meter	2110	1099.76	2320053.70	2110	286.74	604906.70	2924960.40
7	3.5 C X 120 mm2 Aluminium LT Cable	Meter	93	929.84	86661.09	28	286.74	8028.72	94689.81

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1	1C X 300 Sqmm LT Cable	Nos	80	1469.10	117528.00	80	73.16	5852.80	123380.80
2	1C X 400 Sqmm LT Cable	Nos	520	1739.32	904446.40	520	73.16	38043.20	942489.60
3	3.5 C X 300 mm2 Aluminium LT Cable	Nos	220	1469.10	323202.00	220	73.16	16095.20	339297.20
4	3.5 CX 240 mm2 Aluminium LT Cable	Nos	1098	1469.10	1613071.80	1098	73.16	80329.68	1693401.48
5	3.5 C X 185 mm2 Aluminium LT Cable	Nos	617	1109.20	684376.40	617	73.16	45139.72	729516.12
6	3.5 C X 150 mm2 Aluminium LT Cable	Nos	264	1109.20	292828.80	264	73.16	19314.24	312143.04
7	3.5 C X 120 mm2 Aluminium LT Cable	Nos	15	1049.02	15735.30	15	73.16	1097.40	16832.70
8	4 C X 95 mm2 Aluminium LT Cable	Nos	14	1049.02	14686.28	14	73.16	1024.24	15710.52
9	4 C X 70 mm2 Aluminium LT Cable	Nos	53	1049.02	55598.06	53	73.16	3877.48	59475.54
10	4 C X 50 mm2 Aluminium LT Cable	Nos	75	948.72	71154.00	75	73.16	5487.00	76641.00
11	4 C X 25 mm2 Aluminium LT Cable	Nos	249	948.72	236231.28	249	41.30	10283.70	246514.98
12	4 C X 16 mm2 Aluminium LT Cable	Nos	199	929.84	185038.16	199	41.30	8218.70	193256.86
13	4 C X 10 mm2 Aluminium LT Cable	Nos	2010	929.84	1868978.40	2010	41.30	83013.00	1951991.40
14	2 C X 10 mm2 Aluminium LT Cable	Nos	7284	464.92	3386477.28	7284	20.65	150414.60	3536891.88
15	2 C X 6 mm2 Aluminium LT Cable	Nos	9105	400.61	3647554.05	9105	20.65	188018.25	3835572.30
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	84813	140.00	11873820.00	84813	21.24	1801428.12	13675248.12
2	Green color Hose Pipe of Size 77mm/63mm	Meter	334	430.00	143620.00	334	21.24	7094.16	150714.16
3	Green color Hose Pipe of Size 90mm/75mm	Meter	234	480.00	112320.00	234	21.24	4970.16	117290.16
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 mmnominal size) and curing complete excluding cost of formwork (For 0.15m thick concrete)	Rmt.	0	0.00	0.00	3077	888.54	2734037.58	2734037.58
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 guidlines of IRC: SP 63-2018 etc. Complete in true line and level as directed by EIC.	Rmt.	0	0.00	0.00	2052	438.96	900745.92	900745.92

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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	37	7275.88	266515.48	266515.48
2	Dismantaling & removing of service line from pole & crediting to concern sub-divn offices (1 ph.)	Nos	0	0.00	0.00	6644	130.98	870231.12	870231.12
3	Dismantaling & removing of service line from pole & crediting to concern sub-divn office s(3 ph.)	Nos	0	0.00	0.00	2849	241.90	689173.10	689173.10
4	Dismentalling of 8 Mtr PSC Pole including all components (Old fabication,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	617	800.04	493624.68	493624.68
5	Dismantaling Of Rsj (9/11 Meter) Pole including all components (Old fabication,guy set,pin/Disc Insulator,Nut-Bolt etc.)And Crediting to DGVCL Store	Nos	0	0.00	0.00	155	1077.34	166987.70	166987.70
10	Dismantaling Of LT Distribution Box and Crediting to DGVCL Store	Nos	0	0.00	0.00	91	481.44	43811.04	43811.04
TOTAL of Material Part					170544272.07			80141762.59	250686034.66
2% storage charge					3410885.44				
TOTAL Material cost					173955157.51				
Total Labour Cost					80141762.59				
Total Cost					254096920.10				
			Total cost in Cr.		25.41				