

SCHEDULE-B

BoQ view By	Sub-Division		
Name of Sub-Division	Kosad-A	Estimated BOQ in Cr.	18.91

Supply, Installation, Testing & Commissioning for Conversion of Existing LT Electrical Network into Underground Cable Network with Associated Activities under jurisdiction area of Kosad-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	49	120194.80	5889545.20	49	4577.22	224283.78	6113828.98

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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	88	96594.80	8500342.40	88	4577.22	402795.36	8903137.76
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	8	84794.80	678358.40	8	4577.22	36617.76	714976.16

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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	292	35695.00	10422940.00	292	4577.22	1336548.24	11759488.24
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	439	23895.00	10489905.00	439	4577.22	2009399.58	12499304.58
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	49	24426.00	1196874.00	49	1561.14	76495.86	1273369.86
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	49	21712.00	1063888.00	49	1357.00	66493.00	1130381.00

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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	140	10165.70	1423198.00	140	1180.00	165200.00	1588398.00
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	24.33	1180.00	28709.40	28709.40
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.	32252	16.52	532803.04	32252	8.26	266401.52	799204.56
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.	42704	23.60	1007814.40	42704	11.80	503907.20	1511721.60
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	1460	23.60	34456.00	1460	11.40	16642.25	51098.25
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.	876	4546.54	3982769.04	876	1180.00	1033680.00	5016449.04

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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.	262	6341.32	1661425.84	262	1180.00	309160.00	1970585.84
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 hardwares. (With Isulated Sleeve)	Meter	1705.00	107.38	183082.90	1705	61.36	104618.80	287701.70
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	51435	21.24	1092479.40	1092479.40
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	1114	5.90	6572.60	6572.60
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 & Methodology								
1	1C X 300 Sqmm LT Cable (TC to FSP by saddling)	Meter	696	754.02	524797.92	0	0.00	0.00	524797.92
2	1C X 400 Sqmm LT Cable (TC to FSP by saddling)	Meter	352	972.32	342256.64	0	0.00	0.00	342256.64
3	3.5 C X 300 mm2 Aluminium LT Cable	Meter	1168	2120.46	2475849.10	1168	303.26	354086.38	2829935.47
4	3.5 CX 240 mm2 Aluminium LT Cable	Meter	5839	1713.36	10004651.71	5839	303.26	1770795.79	11775447.50
5	3.5 C X 185 mm2 Aluminium LT Cable	Meter	3270	1355.82	4433531.40	3270	286.74	937639.80	5371171.20
6	3.5 C X 150 mm2 Aluminium LT Cable	Meter	1401	1099.76	1540983.71	1401	286.74	401780.09	1942763.80
7	3.5 C X 120 mm2 Aluminium LT Cable	Meter	843	929.84	784041.09	253	286.74	72545.22	856586.31

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1	1C X 300 Sqmm LT Cable	Nos	64	1469.10	94022.40	64	73.16	4682.24	98704.64
2	1C X 400 Sqmm LT Cable	Nos	704	1739.32	1224481.28	704	73.16	51504.64	1275985.92
3	3.5 C X 300 mm2 Aluminium LT Cable	Nos	146	1469.10	214488.60	146	73.16	10681.36	225169.96
4	3.5 CX 240 mm2 Aluminium LT Cable	Nos	730	1469.10	1072443.00	730	73.16	53406.80	1125849.80
5	3.5 C X 185 mm2 Aluminium LT Cable	Nos	409	1109.20	453662.80	409	73.16	29922.44	483585.24
6	3.5 C X 150 mm2 Aluminium LT Cable	Nos	176	1109.20	195219.20	176	73.16	12876.16	208095.36
7	3.5 C X 120 mm2 Aluminium LT Cable	Nos	140	1049.02	146862.80	140	73.16	10242.40	157105.20
8	4 C X 95 mm2 Aluminium LT Cable	Nos	125	1049.02	131127.50	125	73.16	9145.00	140272.50
9	4 C X 70 mm2 Aluminium LT Cable	Nos	299	1049.02	313656.98	299	73.16	21874.84	335531.82
10	4 C X 50 mm2 Aluminium LT Cable	Nos	322	948.72	305487.84	322	73.16	23557.52	329045.36
11	4 C X 25 mm2 Aluminium LT Cable	Nos	402	948.72	381385.44	402	41.30	16602.60	397988.04
12	4 C X 16 mm2 Aluminium LT Cable	Nos	238	929.84	221301.92	238	41.30	9829.40	231131.32
13	4 C X 10 mm2 Aluminium LT Cable	Nos	1216	929.84	1130685.44	1216	41.30	50220.80	1180906.24
14	2 C X 10 mm2 Aluminium LT Cable	Nos	3840	464.92	1785292.80	3840	20.65	79296.00	1864588.80
15	2 C X 6 mm2 Aluminium LT Cable	Nos	4848	400.61	1942157.28	4848	20.65	100111.20	2042268.48
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	47451	140.00	6643140.00	47451	21.24	1007859.24	7650999.24
2	Green color Hose Pipe of Size 77mm/63mm	Meter	1447	430.00	622210.00	1447	21.24	30734.28	652944.28
3	Green color Hose Pipe of Size 90mm/75mm	Meter	1346	480.00	646080.00	1346	21.24	28589.04	674669.04
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	2044	888.54	1816175.76	1816175.76
2	Removing & Re-fixing Paver block /pre-cast Rubber Dye / steel Dye Inter locking concrete block 60mm thick with grade of concrete M300 pnumatic 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	1363	438.96	598302.48	598302.48

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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	19	7275.88	137368.61	137368.61
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	17667.85	17667.85
3	Dismantaling of LT ABC OF 2*50 SQ MM +1*25 SQ MM+ 35 SQ MM and crediting fitting of all accessories to DGVCL store.	KM	0	0.00	0.00	1	5817.40	6980.88	6980.88
4	Dismantaling & removing of service line from pole & crediting to concern sub-divn offices (1 ph.)	Nos	0	0.00	0.00	4163	130.98	545269.74	545269.74
5	Dismantaling & removing of service line from pole & crediting to concern sub-divn office s(3 ph.)	Nos	0	0.00	0.00	1785	241.90	431791.50	431791.50
6	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	407	800.04	325616.28	325616.28
7	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	24	1077.34	25856.16	25856.16
10	Dismantaling Of LT Distribution Box and Crediting to DGVCL Store	Nos	0	0.00	0.00	131	481.44	63068.64	63068.64
TOTAL of Material Part					133486376.87			52921845.76	186408222.63
2% storage charge					2669727.54				
TOTAL Material cost					136156104.41				
Total Labour Cost					52921845.76				
Total Cost					189077950.17				
			Total cost in Cr.		18.91				