

SCHEDULE-B

<u>BoQ view By</u>	Sub-Division			
Name of Sub-Division	Pal		Estimated BOQ in Cr.	23.47

Supply, Installation, Testing & Commissioning for Conversion of Existing LT Electrical Network into Underground Cable Network with Associated Activities under jurisdiction area of Pal (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	28	120194.80	3365454.40	28	4577.22	128162.16	3493616.56

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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	89	96594.80	8596937.20	89	4577.22	407372.58	9004309.78
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	17	84794.80	1441511.60	17	4577.22	77812.74	1519324.34

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		Unit	Supply Qty.	Unit Rate in Rs	Total in Rs	Erection Qty.	Unit Rate in Rs.	Total in Rs	
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	294	35695.00	10494330.00	294	4577.22	1345702.68	11840032.68
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	12	24426.00	293112.00	12	1561.14	18733.68	311845.68
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	12	21712.00	260544.00	12	1357.00	16284.00	276828.00

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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	243	10165.70	2470265.10	243	1180.00	286740.00	2757005.10
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	24.46	1180.00	28862.80	28862.80
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.	53560	16.52	884811.20	53560	8.26	442405.60	1327216.80
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.	47004	23.60	1109294.40	47004	11.80	554647.20	1663941.60
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	1467	23.60	34621.20	1467	11.40	16722.04	51343.24
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.	867	4546.54	3941850.18	867	1180.00	1023060.00	4964910.18

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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.	250	6341.32	1585330.00	250	1180.00	295000.00	1880330.00
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	1650.25	107.38	177203.85	1650	61.36	101259.34	278463.19
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	104546	21.24	2220557.04	2220557.04
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	1134	5.90	6690.60	6690.60
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	784	754.02	591151.68	0	0.00	0.00	591151.68
2	1C X 400 Sqmm LT Cable (TC to FSP by saddling)	Meter	216	972.32	210021.12	0	0.00	0.00	210021.12
3	3.5 C X 300 mm2 Aluminium LT Cable	Meter	1174	2120.46	2488571.86	1174	303.26	355905.94	2844477.79
4	3.5 CX 240 mm2 Aluminium LT Cable	Meter	5870	1713.36	10058108.54	5870	303.26	1780257.50	11838366.05
5	3.5 C X 185 mm2 Aluminium LT Cable	Meter	3288	1355.82	4457936.16	3288	286.74	942801.12	5400737.28
6	3.5 C X 150 mm2 Aluminium LT Cable	Meter	1409	1099.76	1549781.79	1409	286.74	404074.01	1953855.80
7	3.5 C X 120 mm2 Aluminium LT Cable	Meter	439	929.84	408013.79	132	286.74	37849.68	445863.47

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1	1C X 300 Sqmm LT Cable	Nos	136	1469.10	199797.60	136	73.16	9949.76	209747.36
2	1C X 400 Sqmm LT Cable	Nos	712	1739.32	1238395.84	712	73.16	52089.92	1290485.76
3	3.5 C X 300 mm2 Aluminium LT Cable	Nos	147	1469.10	215957.70	147	73.16	10754.52	226712.22
4	3.5 CX 240 mm2 Aluminium LT Cable	Nos	733	1469.10	1076850.30	733	73.16	53626.28	1130476.58
5	3.5 C X 185 mm2 Aluminium LT Cable	Nos	412	1109.20	456990.40	412	73.16	30141.92	487132.32
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	74	1049.02	77627.48	74	73.16	5413.84	83041.32
8	4 C X 95 mm2 Aluminium LT Cable	Nos	64	1049.02	67137.28	64	73.16	4682.24	71819.52
9	4 C X 70 mm2 Aluminium LT Cable	Nos	259	1049.02	271696.18	259	73.16	18948.44	290644.62
10	4 C X 50 mm2 Aluminium LT Cable	Nos	487	948.72	462026.64	487	73.16	35628.92	497655.56
11	4 C X 25 mm2 Aluminium LT Cable	Nos	1359	948.72	1289310.48	1359	41.30	56126.70	1345437.18
12	4 C X 16 mm2 Aluminium LT Cable	Nos	1290	929.84	1199493.60	1290	41.30	53277.00	1252770.60
13	4 C X 10 mm2 Aluminium LT Cable	Nos	2979	929.84	2769993.36	2979	41.30	123032.70	2893026.06
14	2 C X 10 mm2 Aluminium LT Cable	Nos	7471	464.92	3473417.32	7471	20.65	154276.15	3627693.47
15	2 C X 6 mm2 Aluminium LT Cable	Nos	9250	400.61	3705642.50	9250	20.65	191012.50	3896655.00
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	100571	140.00	14079940.00	100571	21.24	2136128.04	16216068.04
2	Green color Hose Pipe of Size 77mm/63mm	Meter	2191	430.00	942130.00	2191	21.24	46536.84	988666.84
3	Green color Hose Pipe of Size 90mm/75mm	Meter	1167	480.00	560160.00	1167	21.24	24787.08	584947.08
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	2055	888.54	1825949.70	1825949.70
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	1369	438.96	600936.24	600936.24

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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	24	7275.88	177968.02	177968.02
2	Dismantaling & removing of service line from pole & crediting to concern sub-divn offices (1 ph.)	Nos	0	0.00	0.00	12955	130.98	1696845.90	1696845.90
3	Dismantaling & removing of service line from pole & crediting to concern sub-divn office s(3 ph.)	Nos	0	0.00	0.00	5554	241.90	1343512.60	1343512.60
4	Dismantalling 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	437	800.04	349617.48	349617.48
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	108	1077.34	116352.72	116352.72
10	Dismantaling Of LT Distribution Box and Crediting to DGVCL Store	Nos	0	0.00	0.00	125	481.44	60180.00	60180.00
TOTAL of Material Part					163328570.05			68129028.56	231457598.60
2% storage charge					3266571.40				
TOTAL Material cost					166595141.45				
Total Labour Cost					68129028.56				
Total Cost					234724170.00				
			Total cost in Cr.		23.47				