

**SCHEDULE-B**

<u>BoQ view By</u>		Sub-Division							
Name of Sub-Division		Udhna Rural-A		Estimated BOQ in Cr. 25.02					
Supply, Installation, Testing & Commissioning for Conversion of Existing LT Electrical Network into Underground Cable Network with Associated Activities under jurisdiction area of Udhna Rural-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	46	120194.80	5528960.80	46	4577.22	210552.12	5739512.92

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2	<b>FSP (Fuse Section Pillar) 630 Amp:</b> 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	394	96594.80	38058351.20	394	4577.22	1803424.68	39861775.88
3	<b>FSP (Fuse Section Pillar) 400 Amp:</b> 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	48	84794.80	4070150.40	48	4577.22	219706.56	4289856.96

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4	<b>MSP (Mini Section Pillar) 400 Amp:</b> Supplying and erecting <b>with rain hood shall be 1370(H) x 735 (W) x 516 (D)mm.</b> Mini section pillar fabricated from <b>3.15 mm.</b> 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	324	35695.00	11565180.00	324	4577.22	1483019.28	13048199.28
5	<b>MSP (Mini Section Pillar) 200 Amp :</b> Supplying and erecting <b>with rain hood shall be 1370(H) x 735 (W) x 516 (D)mm.</b> Mini section pillar fabricated from <b>3.15 mm.</b> 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	485	23895.00	11589075.00	485	4577.22	2219951.70	13809026.70
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	145	24426.00	3541770.00	145	1561.14	226365.30	3768135.30
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	145	21712.00	3148240.00	145	1357.00	196765.00	3345005.00

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8	Supply ,Installation,Testing & Commissioning of <b>Busbar Chamber</b> capacity of 100 Amp.Installation worked caried out with instruction of EIC.	Nos	156	10165.70	1585849.20	156	1180.00	184080.00	1769929.20
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	26.89	1180.00	31730.20	31730.20
10	<b>WARNING TAP:</b> 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.	27563	16.52	455340.76	27563	8.26	227670.38	683011.14
11	<b>CABLE TERMINAL FERRULS:</b> 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.	29292	23.60	691291.20	29292	11.80	345645.60	1036936.80
12	<b>CABLE TAG:</b> 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	1614	23.60	38090.40	1614	11.40	18397.66	56488.06
13	<b>EARTHING PIT :</b> 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) - <b>2000 MM electrode for FSP &amp; MSP Chemical Type Earthing</b>	No.	1297	4546.54	5896862.38	1297	1180.00	1530460.00	7427322.38

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14	<b>EARTHING PIT :</b> 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) - <b>3000 MM electrode for CSS/Transformer-Chemical Type Earthing</b>	No.	884	6341.32	5605726.88	884	1180.00	1043120.00	6648846.88
15	Supply, Installation & commissioning of earthing conductor <b>25 x 3 mm G.I. strip</b> 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. <b>(With Isulated Sleeve)</b>	Meter	4508.75	107.38	484149.58	4509	61.36	276656.90	760806.48
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	36634	21.24	778106.16	778106.16
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	1742	5.90	10277.80	10277.80
<b>B</b>	<b>LT XLPE CABLE:</b> 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 - <b>Open Excavation Method</b> -As per attached Technical Specification & Methodology								
1	1C X 300 Sqmm LT Cable (TC to FSP by saddling)	Meter	3208	754.02	2418896.16	0	0.00	0.00	2418896.16
2	1C X 400 Sqmm LT Cable (TC to FSP by saddling)	Meter	328	972.32	318920.96	0	0.00	0.00	318920.96
3	3.5 C X 300 mm2 Aluminium LT Cable	Meter	1291	2120.46	2737937.95	1291	303.26	391569.31	3129507.26
4	3.5 CX 240 mm2 Aluminium LT Cable	Meter	6454	1713.36	11058025.44	6454	303.26	1957240.04	13015265.48
5	3.5 C X 185 mm2 Aluminium LT Cable	Meter	3614	1355.82	4899391.15	3614	286.74	1036163.66	5935554.82
6	3.5 C X 150 mm2 Aluminium LT Cable	Meter	1549	1099.76	1703748.19	1549	286.74	444217.61	2147965.80
7	3.5 C X 120 mm2 Aluminium LT Cable	Meter	609	929.84	566086.59	183	286.74	52473.42	618560.01

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1	1C X 300 Sqmm LT Cable	Nos	384	1469.10	564134.40	384	73.16	28093.44	592227.84
2	1C X 400 Sqmm LT Cable	Nos	3152	1739.32	5482336.64	3152	73.16	230600.32	5712936.96
3	3.5 C X 300 mm2 Aluminium LT Cable	Nos	161	1469.10	236525.10	161	73.16	11778.76	248303.86
4	3.5 CX 240 mm2 Aluminium LT Cable	Nos	808	1469.10	1187032.80	808	73.16	59113.28	1246146.08
5	3.5 C X 185 mm2 Aluminium LT Cable	Nos	452	1109.20	501358.40	452	73.16	33068.32	534426.72
6	3.5 C X 150 mm2 Aluminium LT Cable	Nos	194	1109.20	215184.80	194	73.16	14193.04	229377.84
7	3.5 C X 120 mm2 Aluminium LT Cable	Nos	102	1049.02	107000.04	102	73.16	7462.32	114462.36
8	4 C X 95 mm2 Aluminium LT Cable	Nos	91	1049.02	95460.82	91	73.16	6657.56	102118.38
9	4 C X 70 mm2 Aluminium LT Cable	Nos	295	1049.02	309460.90	295	73.16	21582.20	331043.10
10	4 C X 50 mm2 Aluminium LT Cable	Nos	347	948.72	329205.84	347	73.16	25386.52	354592.36
11	4 C X 25 mm2 Aluminium LT Cable	Nos	721	948.72	684027.12	721	41.30	29777.30	713804.42
12	4 C X 16 mm2 Aluminium LT Cable	Nos	399	929.84	371006.16	399	41.30	16478.70	387484.86
13	4 C X 10 mm2 Aluminium LT Cable	Nos	1034	929.84	961454.56	1034	41.30	42704.20	1004158.76
14	2 C X 10 mm2 Aluminium LT Cable	Nos	2292	464.92	1065596.64	2292	20.65	47329.80	1112926.44
15	2 C X 6 mm2 Aluminium LT Cable	Nos	2864	400.61	1147347.04	2864	20.65	59141.60	1206488.64
<b>E</b>	<b>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)</b>								
1	Green color Hose Pipe of Size 40mm/32mm	Meter	32885	140.00	4603900.00	32885	21.24	698477.40	5302377.40
2	Green color Hose Pipe of Size 77mm/63mm	Meter	1566	430.00	673380.00	1566	21.24	33261.84	706641.84
3	Green color Hose Pipe of Size 90mm/75mm	Meter	1323	480.00	635040.00	1323	21.24	28100.52	663140.52
<b>F</b>	<b>Backfilling and Restoration Work including removing / demolition of existing .</b>								
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	2260	888.54	2008100.40	2008100.40
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	1506	438.96	661073.76	661073.76



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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	25	7275.88	184079.76	184079.76
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	9	4157.14	36873.83	36873.83
3	Dismantaling of bare Conductor and crediting to DGVCL Store	ONE COND PER KM	0	0.00	0.00	5	2709.28	12923.27	12923.27
4	Dismantaling & removing of service line from pole & crediting to concern sub-divn offices (1 ph.)	Nos	0	0.00	0.00	3180	130.98	416516.40	416516.40
5	Dismantaling & removing of service line from pole & crediting to concern sub-divn office s(3 ph.)	Nos	0	0.00	0.00	1365	241.90	330193.50	330193.50
6	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	2630	800.04	2104105.20	2104105.20
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	1169	1077.34	1259410.46	1259410.46
10	Dismantaling Of LT Distribution Box and Crediting to DGVCL Store	Nos	0	0.00	0.00	442	481.44	212796.48	212796.48
TOTAL of Material Part					187051425.77			59433999.24	246485425.01
2% storage charge					3741028.52				
TOTAL Material cost					190792454.28				
Total Labour Cost					59433999.24				
Total Cost					250226453.52				
			Total cost in Cr.		25.02				