

**SCHEDULE-B**

<b>BoQ view By</b>	<b>Sub-Division</b>		
<b>Name of Sub-Division</b>	<b>Althan-A</b>	<b>Estimated BOQ in Cr.</b>	<b>36.48</b>

**Supply, Installation, Testing & Commissioning for Conversion of Existing LT Electrical Network into Underground Cable Network with Associated Activities under jurisdiction area of Althan-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	200	120194.80	24038960.00	200	4577.22	915444.00	24954404.00

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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	178	96594.80	17193874.40	178	4577.22	814745.16	18008619.56
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	79	84794.80	6698789.20	79	4577.22	361600.38	7060389.58

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4	<b>MSP (Mini Section Piller) 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	453	35695.00	16169835.00	453	4577.22	2073480.66	18243315.66
5	<b>MSP (Mini Section Piller) 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	679	23895.00	16224705.00	679	4577.22	3107932.38	19332637.38
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	9	24426.00	219834.00	9	1561.14	14050.26	233884.26
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	9	21712.00	195408.00	9	1357.00	12213.00	207621.00

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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	162	10165.70	1646843.40	162	1180.00	191160.00	1838003.40
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	37.73	1180.00	44521.40	44521.40
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.	66868	16.52	1104659.36	66868	8.26	552329.68	1656989.04
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.	123616	23.60	2917337.60	123616	11.80	1458668.80	4376006.40
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	2265	23.60	53454.00	2265	11.40	25818.28	79272.28
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.	1589	4546.54	7224452.06	1589	1180.00	1875020.00	9099472.06

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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.	830	6341.32	5263295.60	830	1180.00	979400.00	6242695.60
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 Insulated Sleeve)</b>	Meter	4511.75	107.38	484471.72	4512	61.36	276840.98	761312.70
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	121895	21.24	2589049.80	2589049.80
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	1769	5.90	10437.10	10437.10
<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	1864	754.02	1405493.28	0	0.00	0.00	1405493.28
2	1C X 400 Sqmm LT Cable (TC to FSP by saddling)	Meter	1456	972.32	1415697.92	0	0.00	0.00	1415697.92
3	3.5 C X 300 mm2 Aluminium LT Cable	Meter	1811	2120.46	3839728.97	1811	303.26	549143.21	4388872.18
4	3.5 CX 240 mm2 Aluminium LT Cable	Meter	9055	1713.36	15514817.47	9055	303.26	2746079.95	18260897.42
5	3.5 C X 185 mm2 Aluminium LT Cable	Meter	5071	1355.82	6875634.38	5071	286.74	1454115.89	8329750.27
6	3.5 C X 150 mm2 Aluminium LT Cable	Meter	2173	1099.76	2389998.43	2173	286.74	623143.37	3013141.80
7	3.5 C X 120 mm2 Aluminium LT Cable	Meter	242	929.84	225393.22	73	286.74	20932.02	246325.24

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1	1C X 300 Sqmm LT Cable	Nos	632	1469.10	928471.20	632	73.16	46237.12	974708.32
2	1C X 400 Sqmm LT Cable	Nos	1424	1739.32	2476791.68	1424	73.16	104179.84	2580971.52
3	3.5 C X 300 mm2 Aluminium LT Cable	Nos	226	1469.10	332016.60	226	73.16	16534.16	348550.76
4	3.5 CX 240 mm2 Aluminium LT Cable	Nos	1131	1469.10	1661552.10	1131	73.16	82743.96	1744296.06
5	3.5 C X 185 mm2 Aluminium LT Cable	Nos	634	1109.20	703232.80	634	73.16	46383.44	749616.24
6	3.5 C X 150 mm2 Aluminium LT Cable	Nos	273	1109.20	302811.60	273	73.16	19972.68	322784.28
7	3.5 C X 120 mm2 Aluminium LT Cable	Nos	40	1049.02	41960.80	40	73.16	2926.40	44887.20
8	4 C X 95 mm2 Aluminium LT Cable	Nos	36	1049.02	37764.72	36	73.16	2633.76	40398.48
9	4 C X 70 mm2 Aluminium LT Cable	Nos	143	1049.02	150009.86	143	73.16	10461.88	160471.74
10	4 C X 50 mm2 Aluminium LT Cable	Nos	369	948.72	350077.68	369	73.16	26996.04	377073.72
11	4 C X 25 mm2 Aluminium LT Cable	Nos	2484	948.72	2356620.48	2484	41.30	102589.20	2459209.68
12	4 C X 16 mm2 Aluminium LT Cable	Nos	2508	929.84	2332038.72	2508	41.30	103580.40	2435619.12
13	4 C X 10 mm2 Aluminium LT Cable	Nos	4132	929.84	3842098.88	4132	41.30	170651.60	4012750.48
14	2 C X 10 mm2 Aluminium LT Cable	Nos	7723	464.92	3590577.16	7723	20.65	159479.95	3750057.11
15	2 C X 6 mm2 Aluminium LT Cable	Nos	9653	400.61	3867088.33	9653	20.65	199334.45	4066422.78
<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	119246	140.00	16694440.00	119246	21.24	2532785.04	19227225.04
2	Green color Hose Pipe of Size 77mm/63mm	Meter	1661	430.00	714230.00	1661	21.24	35279.64	749509.64
3	Green color Hose Pipe of Size 90mm/75mm	Meter	644	480.00	309120.00	644	21.24	13678.56	322798.56
<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	3169	888.54	2815783.26	2815783.26
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	2113	438.96	927522.48	927522.48



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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	38	7275.88	274518.95	274518.95
2	Dismantaling & removing of service line from pole & crediting to concern sub-divn offices (1 ph.)	Nos	0	0.00	0.00	8049	130.98	1054258.02	1054258.02
3	Dismantaling & removing of service line from pole & crediting to concern sub-divn office s(3 ph.)	Nos	0	0.00	0.00	3451	241.90	834796.90	834796.90
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	367	800.04	293614.68	293614.68
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	140	1077.34	150827.60	150827.60
10	Dismantaling Of LT Distribution Box and Crediting to DGVCL Store	Nos	0	0.00	0.00	415	481.44	199797.60	199797.60
TOTAL of Material Part					264500749.48			95026667.89	359527417.36
2% storage charge					5290014.99				
TOTAL Material cost					269790764.46				
Total Labour Cost					95026667.89				
Total Cost					364817432.35				
			Total cost in Cr.		36.48				