

**SCHEDULE-B**

<u>BoQ view By</u>	Sub-Division			
Name of Sub-Division	Kosad-B		Estimated BOQ in Cr.	34.65

**Supply, Installation, Testing & Commissioning for Conversion of Existing LT Electrical Network into Underground Cable Network with Associated Activities under jurisdiction area of Kosad-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	33	120194.80	3966428.40	33	4577.22	151048.26	4117476.66

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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	85	96594.80	8210558.00	85	4577.22	389063.70	8599621.70
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	8	84794.80	678358.40	8	4577.22	36617.76	714976.16

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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	508	35695.00	18133060.00	508	4577.22	2325227.76	20458287.76
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	761	23895.00	18184095.00	761	4577.22	3483264.42	21667359.42
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	153	24426.00	3737178.00	153	1561.14	238854.42	3976032.42
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	153	21712.00	3321936.00	153	1357.00	207621.00	3529557.00

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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	126	10165.70	1280878.20	126	1180.00	148680.00	1429558.20
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	42.26	1180.00	49866.80	49866.80
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.	80881	16.52	1336154.12	80881	8.26	668077.06	2004231.18
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.	108808	23.60	2567868.80	108808	11.80	1283934.40	3851803.20
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	2536	23.60	59849.60	2536	11.40	28907.36	88756.96
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.	1395	4546.54	6342423.30	1395	1180.00	1646100.00	7988523.30

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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.	226	6341.32	1433138.32	226	1180.00	266680.00	1699818.32
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	1950.25	107.38	209417.85	1950	61.36	119667.34	329085.19
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	151487	21.24	3217583.88	3217583.88
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	1827	5.90	10779.30	10779.30
<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	672	754.02	506701.44	0	0.00	0.00	506701.44
2	1C X 400 Sqmm LT Cable (TC to FSP by saddling)	Meter	232	972.32	225578.24	0	0.00	0.00	225578.24
3	3.5 C X 300 mm2 Aluminium LT Cable	Meter	2029	2120.46	4301989.25	2029	303.26	615253.89	4917243.14
4	3.5 CX 240 mm2 Aluminium LT Cable	Meter	10142	1713.36	17377582.46	10142	303.26	3075784.22	20453366.69
5	3.5 C X 185 mm2 Aluminium LT Cable	Meter	5680	1355.82	7701057.60	5680	286.74	1628683.20	9329740.80
6	3.5 C X 150 mm2 Aluminium LT Cable	Meter	2435	1099.76	2677695.65	2435	286.74	698154.55	3375850.20
7	3.5 C X 120 mm2 Aluminium LT Cable	Meter	170	929.84	157700.86	51	286.74	14623.74	172324.60

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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	680	1739.32	1182737.60	680	73.16	49748.80	1232486.40
3	3.5 C X 300 mm2 Aluminium LT Cable	Nos	254	1469.10	373151.40	254	73.16	18582.64	391734.04
4	3.5 CX 240 mm2 Aluminium LT Cable	Nos	1269	1469.10	1864287.90	1269	73.16	92840.04	1957127.94
5	3.5 C X 185 mm2 Aluminium LT Cable	Nos	710	1109.20	787532.00	710	73.16	51943.60	839475.60
6	3.5 C X 150 mm2 Aluminium LT Cable	Nos	305	1109.20	338306.00	305	73.16	22313.80	360619.80
7	3.5 C X 120 mm2 Aluminium LT Cable	Nos	27	1049.02	28323.54	27	73.16	1975.32	30298.86
8	4 C X 95 mm2 Aluminium LT Cable	Nos	25	1049.02	26225.50	25	73.16	1829.00	28054.50
9	4 C X 70 mm2 Aluminium LT Cable	Nos	147	1049.02	154205.94	147	73.16	10754.52	164960.46
10	4 C X 50 mm2 Aluminium LT Cable	Nos	200	948.72	189744.00	200	73.16	14632.00	204376.00
11	4 C X 25 mm2 Aluminium LT Cable	Nos	357	948.72	338693.04	357	41.30	14744.10	353437.14
12	4 C X 16 mm2 Aluminium LT Cable	Nos	324	929.84	301268.16	324	41.30	13381.20	314649.36
13	4 C X 10 mm2 Aluminium LT Cable	Nos	3486	929.84	3241422.24	3486	41.30	143971.80	3385394.04
14	2 C X 10 mm2 Aluminium LT Cable	Nos	12932	464.92	6012345.44	12932	20.65	267045.80	6279391.24
15	2 C X 6 mm2 Aluminium LT Cable	Nos	16167	400.61	6476661.87	16167	20.65	333848.55	6810510.42
<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	149687	140.00	20956180.00	149687	21.24	3179351.88	24135531.88
2	Green color Hose Pipe of Size 77mm/63mm	Meter	896	430.00	385280.00	896	21.24	19031.04	404311.04
3	Green color Hose Pipe of Size 90mm/75mm	Meter	664	480.00	318720.00	664	21.24	14103.36	332823.36
<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	3550	888.54	3154317.00	3154317.00
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	2365	438.96	1038140.40	1038140.40



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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	33	7275.88	239885.76	239885.76
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	4	4157.14	14549.99	14549.99
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	4	5817.40	22047.95	22047.95
4	Dismantaling & removing of service line from pole & crediting to concern sub-divn offices (1 ph.)	Nos	0	0.00	0.00	12334	130.98	1615507.32	1615507.32
5	Dismantaling & removing of service line from pole & crediting to concern sub-divn office s(3 ph.)	Nos	0	0.00	0.00	5288	241.90	1279167.20	1279167.20
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	928	800.04	742437.12	742437.12
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	40	1077.34	43093.60	43093.60
10	Dismantaling Of LT Distribution Box and Crediting to DGVCL Store	Nos	0	0.00	0.00	113	481.44	54402.72	54402.72
TOTAL of Material Part					234407923.94			107411794.01	341819717.95
2% storage charge					4688158.48				
TOTAL Material cost					239096082.41				
Total Labour Cost					107411794.01				
Total Cost					346507876.43				
			Total cost in Cr.		34.65				