

Schedule -B						
Sub:-Erection & labour work of supply, laying, testing & commissioning of 11/22 kv underground XLPE cable (XLPE cable will be supplied by DGVCL) with cable end termination & straight through jointing kit (to be supplied by contractor) on ARC basis under all scheme under CFC under Piplod Division as well as in jurisdiction of Piplod sub division under Piplod Division or within the Jurisdiction all sub Division of Piplod Division and Surat City Circle.						
Sr. No.	Item Code	DETAILS OF WORKS	Qty	Unit	Rate	Amount
1	9925000001	Labour charge for excavation of cable trench of <b>400mm width x 1200mm depth</b> , in any type of soil for laying of cable of size <b>up to 240 mm2</b> (For additional cable 200 mm additional width shall be considered i.e. half trench length is to be considered)		Meter	72	
2	9925000002	Labour charge for excavation of cable trench of <b>600mm width x 1200mm depth</b> , in any type of soil for laying of cable of size <b>up to 240 mm2</b> (For additional cable 200 mm additional width shall be considered i.e. half trench length is to be considered)		Meter	109	
3	9925000003	Labour charge for excavation of cable trench of <b>400mm width x 1500mm depth</b> , in any type of soil for laying of cable of size <b>up to 240 mm2</b> (For additional cable 200 mm additional width shall be considered i.e. half trench length is to be considered)		Meter	91	
4	9925000004	Labour charge for laying of 11kV / 22 kV XLPE Cable of size <b>up to 240 mm2</b> & preparation of sand layer 100mm thick, in the cable trench & covering the cable with 150 mm dia <b>(Inner), thickness 25 mm</b> , 1.0 meter long RCC half round muffs and providing and fixing of 4inch width yellow colour polyethylene tape with printing "CAUTION ELECTRIC CABLE BELOW" at 0.75 m depth from ground surface after laying cable in trench. This will provide indication that electric cable is passing underground so as to protect cable from mechanical injuries, refilling the same, as per Instruction of Engineer in Charge (EIC).		Meter	171	
5	9925000005	Labour charge for horizontal drilling using Auger machine without damage to surface road at max 2.0 mtrs depth & putting of 6.11 kg/cm2 , class-4,Green color, 110mm O.D. , 8.5mm thickness H.D.P.E. pipe confirms to IS 4984-1987(3rd revision) and BIS certification and laying of 11KV/22KV XLPE cable of size up to 300 mm2 in HDPE pipe, as per Site Condition (excluding cost of pipe). The detail map obtained from HDD machine and excell sheet(hard and soft copy) indicating the respective depth and distance from adjacent landmark for each segment for HDD is must required to be submitted. HDD to be carried out at depth 1.5 mtrs to 2.0 mtrs as per site conditions and as per instruction of EIC.		Meter	860	
6	9925000006	Labour charge for horizontal drilling manually without damage to surface road at max 2.0 mtrs depth & putting of 6.11 kg/cm2 , class-4,Green color, 110mm O.D., 8.5mm thickness H.D.P.E. pipe confirms to IS 4984-1987(3rd revision) and BIS certification and laying of 11KV/22KV XLPE cable of size up to 300 mm2 size, as per Site Condition (excluding cost of pipe). The detail map and excell sheet(hard and soft copy) indicating the respective depth and distance from adjacent landmark for each segment of cable to be submitted. Drilling to be carried out at depth Minimum 1.2 mtrs to 2.0 mtrs as per site conditions as per instruction of EIC.		Meter	615	
7	9925000007	Supply of 6.11kg/cm2, class-4,Green color, 110mm O.D., 8.5 mm thickness H.D.P.E. pipe confirms to IS 4984 and BIS certification for laying of underground 11KV / 22KV XLPE cable <b>up to 300 mm²</b> size.		Meter	430	
8	9925000008	Labour work for RCC concreting on disputed location and repairing of damage portion of road crossing for the work carried out for roads crossing as well as <b>concreting &amp; muffing of ploes</b> including all materials (1:2:4)		CMT	3189	
9	9925000009	Providing & fixing concrete stone route marker of <b>300 mm width x 150 mm thick x 650 mm height</b> embedded in earth at least 300 mm below & 350 mm above ground level respectively at distance approx 50 meters along the length of cable. The RCC concreting (1:2:4)(all necessary maaterials will be in bidder's scope) of route marker is to be carried out 300 mm width x 150 mm thick x 300 mm below ground level as per instruction of EIC. The route marker should be with name of company with approved yellow colour-DGVCL. The distance from marker to cable and cable depth with feeder name etc., marked with arrow sign is to be painted on it.The route marker is to be fixed at location near to any fixed permanent location (not necessary to fix exact on top of cable) as per instruction of EIC.		No	446	
10	9925000014	Labour charge for <b>erecting</b> of 11kV / 22 kV XLPE <b>cable</b> of size <b>up to 300 mm² on DP Structure with fixing of 02 Nos polymer cleats on top and middle part</b> . Polymer cleats, nut bolts etc. fixing material to be provided by contractor.		Per Job	591	
11	9925000015	Providing & fixing of <b>6.11kg/cm2, class-4,Green color, 110mm O.D., 8.5mm thickness H.D.P.E. pipe confirms to IS 4984 and BIS certification on the erected DP structure</b> for the mechanical protection of cable by inserting the cable inside HDPE pipe. The HDPE pipe shall be erected in such a way that 300mm shall be below the ground level and the rest 2700 mm shall be supported on the DP Structure with 01 No Polymer cleat. All materials including polymer cleat and Nut bolt to be provided by		Per Job	1461	
12	9925000016	Providing and fixing of <b>pipe type earthing</b> from 80 mm dia class-B GI pipe with pit to be filled with salt & coke and construction of chamber as per DGVCL Drg. No. dg /100 for DP and cable. The earthing pit should be joined with cable by G.I. strip of size 1" width & 2 mm thick. All material GI pipe, Coke, Salt etc will be supplied by bidder.		No	3635	
13	9925000017	<b>Supply &amp; fixing of heat shrink type end terminations (outdoor) for upto 11kV 3C x 185 mm² size</b> XLPE cable as per DGVCL technical specification.		No	3635	
14	9925000018	Supply & fixing of heat & shrinkable <b>end terminations (outdoor) for upto 22 kV 3C x 185 mm² size</b> XLPE cable as per DGVCL technical specification.		No	6231	
15	9925000019	Supply & fixing of heat shrink type <b>end terminations (indoor) for upto 11kV 3C x 185 mm² size</b> XLPE cable as per DGVCL technical specification.		No	3635	
16	9925000020	Supply & fixing of heat & shrinkable <b>end terminations (indoor) for upto 22 kV 3C x 185 mm² size</b> XLPE cable as per DGVCL technical specification.		No	6231	
17	9925000021	Supply & fixing of heat shrinkable <b>straight through joint for upto 11kV 3C x 185 mm² size</b> XLPE cableas per DGVCL technical specification.		No	6774	
18	9925000022	Supply & fixing of heat shrinkable <b>straight through joint type for upto 22kV 3C x 185 mm² size</b> XLPE cable as per DGVCL technical specification.		No	11590	
19	9925000023	Labour charge for excavation of 2100mm long x 1200mm wide x 1200 mm deep <b>joint pits</b> for installation of 11KV/22kv <b>Straight through Joints</b> as per instruction of engineer-in-charge & covering the cable with 150 mm dia <b>(Outer), thickness 25 mm</b> , 1.0 meter long RCC half round muffs & refilling same as per instruction of EIC .		No	399	
20	9925000024	Providing and fixing of insulating <b>bus bar</b> , made from 11KV/22KV XLPE cable after removal of semi conducting layer and applying of PVC heat shrinkable anti-tracking core insulating tubing (1.1kV), on both end terminal using Aluminium long barrel heavy duty <b>up to 240 sq mm</b> lugs, Aluminium bus connector. Taping with PG- clamp for bus conductor as per drawing and as per instruction of EIC. The Alluminium lugs and PG clamp shall be covered with 11KV/22KV HT insulating tapes.(11KV/22KV XLPE cable will be in scope of DGVCL while all other materials will be in bidder's scope)		No	1661	
21	9925000025	<b>Testing of cable</b> at various points and commissioning the feeder as per instruction of engineer-in-charge. Test result shall be submitted by contractor with bill.		No	2125	
22	9925000026	Preparation and submission of <b>6 (six) copies</b> , of complete <b>layout drawings with GIS mapping</b> as per actual cable routing showing road crossing, HDPE pipe sleeving, jointing locations, markers etc.		Set	2338	
23	9925000027	Providing and fixing of Sign Board at junction point Made out of 2 mm aluminium sheet size 750x300 mm (2.5 x 1ft) rectangle, as per design, pre treated with phosphate process and acid etching coated with one coat of epoxy primer and two coats of best quality paints, reflectorised with Hi-Intensity retro – reflective sheeting as per the latest and frame fabricated from suitable size iron angle. The Sign Board is to be fixed on the base prepared from channel and bracing angles which is grouted by means of cement concreting of 1:2:4 for size of 300 mm dia x 800 mm height (500 mm to be grouted in ground). The details to be displayed on sign board will be given by In-charge Engineer. (a) Hi intensity Micro prismatic Grade		No	10023	
24	9925000028	Providing and fixing of Sign Board (Danger Board) on Distribution Transformer Centers Made out of 2mm aluminium sheet size 300x300mm (1x1ft) as per design, pre treated with phosphate process and acid etching coated with one coat of epoxy primer and two coats of best quality paints, reflectorised with Hi-Intensity retro-reflective sheeting as per the latest and frame fabricated from suitable size iron angle. The Sign Board (Danger Board is to be fixed at the location as per instruction of In-charge Engineer. (a) Hi intensity Micro prismatic Grade		No	2805	
25	9925000029	Providing & fixing of aluminium tag of size 250 mm (L) x 75 mm (W) from 3 mm aluminium sheet along with 1.0 mm dia aluminium binding wire for fixing of aluminium tag near end termination joint at DP structure for identifying the cable. The details of feeder i.e. 11 / 22 KV with feeder name should be punched on the tag by letter punch of size 16 mm as per instruction of In-charge Engineer.		No	83	
26	9925000030	Supply & fixing of heat shrink type end terminations (outdoor) for 11kV 3C x 240 mm2 size XLPE cable as per DGVCL technical specification.		Nos	4427	
27	9925000031	Supply & fixing of heat & shrinkable end terminations (outdoor) for 22 kV 3C x 240 mm2 size XLPE cable as per DGVCL technical specification.		Nos	6231	
28	9925000032	Supply & fixing of heat shrink type end terminations (indoor) for 11kV 3C x 240 mm2 size XLPE cable as per DGVCL technical specification.		Nos	4338	
29	9925000033	Supply & fixing of heat & shrinkable end terminations (indoor) for 22 kV 3C x 240 mm2 size XLPE cable as per DGVCL technical specification.		Nos	6231	
30	9925000034	Supply & fixing of heat shrinkable straight through joint for 11kV 3C x 240 mm2 size XLPE cableas per DGVCL technical specification.		Nos	6829	
31	9925000035	Supply & fixing of heat shrinkable straight through joint type for 22kV 3C x 240 mm2 size XLPE cable as per DGVCL technical specification.		Nos	11590	
32	9925000047	Laying of any size of 11/ 22 KV XLPE /PILC Cable in redaymade trench or in open space		per cable per mtr	27	
33	9925000060	Labour charges for Lying of O/H XLPE cable pole to pole		KM	70320	
34	9925000064	Supply of 150 mm dia (Inner), thickness 25 mm, 1.0 meter long RCC half round pipe		NO.	135	
35	9925000010	Erection of D.P. (double pole) structure using 9 / 11 Mtr. RSJ pole with cable connection arrangement along with fitting of necessary fabrication for 11KV cable including excavation of pit & refilling of earth as per instruction of EIC. (Exclusive of concreting & muffing of poles)		NO.	2026	
36	9925000011	Erection of Single pole structure using 9 / 11 Mtr RSJ pole with cable connection arrangement along with fitting ofnecessary fabrication for 11KV/22 KV cable including excavation of pit & refilling of earth as per instruction of EIC. (Exclusive of concreting & muffing of poles)		NO.	1047	
37	9925000012	Erection of D.P. (double pole) structure using 8.0 Mtr. PSC pole with cable connection arrangement along with fitting of necessary fabrication for 11KV cable including excavation of pit & refilling of earth as per instruction of EIC. (Exclusive of concreting & muffing of poles)		NO.	1416	
39	9925000013	Erection of Single pole structure using 8.0 Mtr PSC pole with cable connection arrangement along with fitting ofnecessary fabrication for 11KV/22 KV cable including excavation of pit & refilling of earth as per instruction of EIC. (Exclusive of concreting & muffing of poles)		NO.	613	
40		Laying (including installation, testing and commissioning) of various size of Single circuit 11 KV 300 sq mm XLPE insulated Aluminium armoured Cable in ground 1200 mm deep and 300 mm wide trench, providing sand cushioning below (75 mm thick layer of sand) and above (75 mm thick layer of sand) of the cable and covering it with RCC half round hume pipe (150 mm inner diameter with thickness of 30 mm and One meter in length) before refilling pre-bonding tap/warning tap should provide below 700		mtr	335	as per rate derived by UGVCL letter no ugvc/r&c/ug/Cost Data-2022-23/816 Date:-27-01-2023
41		Laying (including installation, testing and commissioning) of various size of Double circuit 11 KV 300 sq mm XLPE insulated Aluminium armoured Cable in ground 1200 mm deep and 500 mm wide trench, providing sand cushioning below (75 mm thick layer of sand) and above (75 mm thick layer of sand) of the cable and covering it with RCC half round hume pipe (150 mm inner diameter with thickness of 30 mm and One meter in length) before refilling pre-bonding tap/warning tap should provide below 700 mm from the ground level and back filling the same to make ground level as per original. As per specification and drawing of DGVCL. (RCC half round pipe should be provide throughout on cable without gap).		mtr	468	as per rate derived by UGVCL letter no ugvc/r&c/ug/Cost Data-2022-23/816 Date:-27-01-2023
42		<b>Supply &amp; fixing of heat shrink type end terminations (indoor) for 11kV 3C x 300 mm² size</b> XLPE cable as per technical specification.		No	5549	as per rate derived by UGVCL letter no ugvc/r&c/ug/Cost Data-2022-23/816 Date:-27-01-2023
43		<b>Supply &amp; fixing of heat shrink type end terminations (outdoor) for upto 11kV 3C x 300 mm2 size</b> XLPE cable as per technical specification.		No	6676	as per rate derived by UGVCL letter no ugvc/r&c/ug/Cost Data-2022-23/816 Date:-27-01-2023
44		Supply & fixing of heat shrinkable <b>straight through joint for 11kV 3C x 300 mm² size</b> XLPE cables per L technical specification.		No	8040	as per rate derived by UGVCL letter no ugvc/r&c/ug/Cost Data-2022-23/816 Date:-27-01-2023
		<b>Rate as per SOR</b>				<b>50,00,000/-</b>