Supply, Laying, Erection, Testing and Commissioning of 66kV,1CX630 sqmm XLPE Cable with Poly.Al./Aluminum construction on EPC basis Various lines under Navsari Circle			
Erection BOQ			
Tender No: ACE(P&C)/Contract/E-512/UG/66kV/S,L&E			
Sr. No.	**Description**	**Unit**	**Total Erection Qty.**
1	Detailed survey for optimum and most feasible route and preparation of proposal with all detailing	Mtr.	24218
2	Under ground laying / installation of 66 KV (E),1 core 630 sq. mm. XLPE insulated Power Cable for Single circuit (with 3+1 spare , 4 Nos. single core cables) in trefoil formation and FOAC cable. (Two equal lenghts per Circuit) (FOAC cable shall be laid in HDPE pipe-One pipe per FOAC) inclusive of all requisite materials (like sand, pre cast slabs, Aluminium clamps, phase & CKT identification tag, pre warning tape, route marker, HDPE pipe etc.), supervision, testing of installation, pre-commissioning tests etc and associated civil works with open excavation in any type of soil as per specs & approved drawing	Mtr.	0
3	--do-- but for 3+1 cable laying in Road/Nala Crossing with open excavation and laying NP-4 RCC Hume Pipe 1 nos. per circuit and laying of cable in HDPE pipe (min. 0.6 Mpa class) 1 no.s per phase in trefoil formation. FOAC cable (FOAC cable shall be laid in 40 mm dia (min. 0.6 Mpa class) HDPE pipe & in NP4 class RCC hume pipe - One pipe per FOAC cable) as per approved drawing	Mtr.	0
4	--do-- but for 3+1 cable Crossing with Trenchless digging and laying of cable in PVC pipe (min. 0.6 Mpa class) ,FOAC cable (FOAC cable shall be laid in double HDPE pipe (min. 0.6 Mpa class) - One pipe per FOAC cable), 1 nos per phase and trefoil in HDPE pipe (min. 0.6 Mpa class) as per approved drawing	Mtr.	0
5	Under ground laying / installation of 66 KV (E),1 core 630 sq. mm. XLPE insulated Power Cable for Double circuit (with 6+1 spare , 7 Nos. single core cables) in trefoil formation and FOAC cable(Two equal lenghts per Circuit) (FOAC cable shall be laid in HDPE pipe-One pipe per FOAC) inclusive of all requisite materials (like sand, pre cast slabs, Aluminium clamps, phase & CKT identification tag, pre warning tape, route marker, HDPE pipe etc.), supervision, testing of installation, pre-commissioning tests etc and associated civil works with open excavation in any type of soil as per specs & approved drawing	Mtr.	0
6	--do-- but for 6+1 cable laying in Road/Nala Crossing with open excavation and laying NP-4 RCC Hume Pipe 1 nos. per circuit and laying of cable in HDPE pipe (min. 0.6 Mpa class) 1 no.s per phase in trefoil formation. FOAC cable (FOAC cable shall be laid in 40 mm dia (min. 0.6 Mpa class) HDPE pipe & in NP4 class RCC hume pipe - One pipe per FOAC cable) as per approved drawing	Mtr.	0
7	--do-- but for 6+1 cable Crossing with Trenchless digging and laying of cable in PVC pipe (min. 0.6 Mpa class) ,FOAC cable (FOAC cable shall be laid in double HDPE pipe (min. 0.6 Mpa class) - One pipe per FOAC cable), 1 nos per phase and trefoil in HDPE pipe (min. 0.6 Mpa class) as per approved drawing	Mtr.	0
8	Under ground laying / installation of 66 KV (E),1 core 630 sq. mm. XLPE insulated Power Cable for Double circuit (with 2X(3+1) spare , 4 Nos. single core cables) in trefoil formation and FOAC cable.(Two equal lenghts per Circuit) (FOAC cable shall be laid in HDPE pipe-One pipe per FOAC) inclusive of all requisite materials (like sand, pre cast slabs, Aluminium clamps, phase & CKT identification tag, pre warning tape, route marker, HDPE pipe etc.), supervision, testing of installation, pre-commissioning tests etc and associated civil works with open excavation in any type of soil as per specs & approved drawing	Mtr.	15311

Sr. No.	Description	Unit	Total Erection Qty.
9	--do-- but for 2X(3+1) cable laying in Road/Nala Crossing with open excavation and laying NP-4 RCC Hume Pipe 1 nos. per circuit and laying of cable in HDPE pipe (min. 0.6 Mpa class) 1 no.s per phase in trefoil formation. FOAC cable(FOAC cable shall be laid in 40 mm dia (min. 0.6 Mpa class) HDPE pipe & in NP4 class RCC hume pipe - One pipe per FOAC cable) as per approved drawing	Mtr.	1414
10	--do-- but for 2X(3+1) cable Crossing with Trenchless digging and laying of cable in PVC pipe (min. 0.6 Mpa class) ,FOAC cable (FOAC cable shall be laid in double HDPE pipe (min. 0.6 Mpa class) - One pipe per FOAC cable), 1 nos per phase and trefoil in HDPE pipe (min. 0.6 Mpa class) as per approved drawing	Mtr.	7396
11	Laying/dressing of 66 kV (E) 1 core 630 sq. mm. XLPE insulated Power Cable for Double circuit (each with 3 +1 Nos. single core cables) inclusive of all requisite materials (like adequate capacity ladder,cable protection cover at tower base, Aluminum clamps , phase identification tag etc.), supervision, testing of installation, pre-commissioning tests etc and associated civil/mechanical works on Tower including required fabrication work for mounting of Surge Arrester and End Termination.Scope also includes cable protection arrangement at tower base, jumpering works on tower with supply of required clamps & connectors and connectors and reqiured maintainance free earth pit with GI earthing strip for LA (total 3 nos, 3 nos/ckt) & providing tower earthing as per GETCO standard practice.	Job	0
12	Laying/dressing of 66 kV (E) 1 core 630 sq. mm. XLPE insulated Power Cable for Double circuit (each with 6 +1 Nos. single core cables) inclusive of all requisite materials (like adequate capacity ladder,cable protection cover at tower base, Aluminum clamps , phase identification tag etc.), supervision, testing of installation, pre-commissioning tests etc and associated civil/mechanical works on Tower including required fabrication work for mounting of Surge Arrester and End Termination.Scope also includes cable protection arrangement at tower base, jumpering works on tower with supply of required clamps & connectors and connectors and reqiured maintainance free earth pit with GI earthing strip for LA (total 6 nos, 3 nos/ckt) & providing tower earthing as per GETCO standard practice.	Job	0
13	Laying/dressing of 66 kV (E) 1 core 630 sq. mm. XLPE insulated Power Cable for Double circuit (each with 2X(3 +1) Nos. single core cables) inclusive of all requisite materials (like adequate capacity ladder,cable protection cover at tower base, Aluminum clamps , phase identification tag etc.), supervision, testing of installation, pre-commissioning tests etc and associated civil/mechanical works on H Frame/ Tower including required fabrication work for mounting of Surge Arrester and End Termination.Scope also includes cable protection arrangement at tower base, jumpering works on tower with supply of required clamps & connectors and connectors and reqiured maintainance free earth pit with GI earthing strip for LA (total 6 nos, 3 nos/ckt) & providing tower earthing as per GETCO standard practice.	Job	18
14	Supply & Installation of Joint suitable for Midpoint bonding system/ Cross bonding of screen (required for sheath voltage control) (3+1) for power cable complete in all respect including required civil works .	No.	0
15	Supply & Installation of Joint suitable for Midpoint bonding system/ Cross bonding of screen (required for sheath voltage control) (6+1) for power cable complete in all respect including required civil works.	No.	0
16	Supply & Installation of Joint suitable for Midpoint bonding system/ Cross bonding of screen (required for sheath voltage control) 2X(3+1) for power cable complete in all respect including required civil works.	No.	19

Sr. No.	Description	Unit	Total Erection Qty.
17	Supply & Installation of straight through joint for 630 Sqmm power cable complete in all respect including required civil works considering 1 no. per phase.	No.	158
18	Supply & Installation of End Termination for 1CX630 Sqmm power cable complete in all respect.	No.	141
19	Supply & Installation of Three phase earth Link Box with SVL for each circuit with supply & installation of maintainance free earthing pit per ckt & required GI earthing strip including required fabrication of structure, civil work if any.	No.	28
20	Supply & Installation of Three phase earth Link Box without SVL for each circuit with supply & erection of maintainance free earthing pit per ckt & required GI earthing strip including required fabrication of structure, civil work if any.	No.	30
21	Supply & Installation of Single phase link box with SVL for spare core with supply & installation of GI earthing strip & to be connected with maintenance free earthing pit of 3 phase link box with SVL including required fabrication of structure, civil work if any.	No.	28
22	Supply & Installation of Single phase link box without SVL for spare core with supply & installation of GI earthing strip & to be connected with maintenance free earthing pit of 3 phase link box without SVL including required fabrication of structure, civil work if any.	No.	30
23	66KV PS/MS/NBS type Tower Erection incl. stub setting, template, fixing anticlimbing device, fixing of DP/NP/PP/CIP/incl. supply of plates, G.I. bolt nuts and tack welding, tack welding of nuts upto 10 Mtr. Height , erection of super structure etc. incl. tree cutting, fixing of tower acc.	No.	8
24	Casting of foundation for **PS/MS/NBS** type tower incl. excavation, reinforcement, concreting and grounding of tower incl. supply of all required materials for normal soil	No.	8
25	Casting of foundation for **PS/MS/NBS** type tower incl. excavation, reinforcement, concreting and grounding of tower incl. supply of all required materials for black cotton soil	No.	8
26	Casting of foundation for **PS/MS/NBS** type tower incl. excavation, reinforcement, concreting and grounding of tower incl. supply of all required materials for normal partially submerged **Normal** soil	No.	8
27	Casting of foundation for **PS/MS/NBS** type tower incl. excavation, reinforcement, concreting and grounding of tower incl. supply of all required materials for black cotton partially submerged soil	No.	8
28	Casting of foundation for **PS/MS/NBS** type tower incl. excavation, reinforcement, concreting and grounding of tower incl. supply of all required materials for soft rock soil	No.	8
29	Casting of foundation for **PS/MS/NBS** type tower incl. excavation, reinforcement, concreting and grounding of tower incl. supply of all required materials for hard rock soil	No.	8