

Name of Work: **RESTORATION OF ROAD LIGHTS IN GDA TOWNS.**

Estimated Cost: Rs.20,000,000/-

Earnest Money: Rs.400,000/-

Time Limit: 05 Months.

BILL OF QUANTITY.

S.#	Description	Quantaty	Unit	Rate
1	Excavation in foundation of building, bridges etc complete : in shingle/gravel	1	M3	
2	Providing and Laying cut, joint, test, disinfect PVC pipe line BSS Class 'D' working pressure : 1.5" i/d	1	M	
3	Providing and Laying cut, joint, test, disinfect PVC pipe line BSS Class 'D' working pressure : 2" i/d	1	M	
4	Providing and Laying cut, joint, test, disinfect PVC pipe line BSS Class 'D' working pressure : 2.5" i/d	1	M	
5	Providing and Laying cut, joint, test, disinfect PVC pipe line BSS Class 'D' working pressure : 3" i/d	1	M	
6	Structural backfill using Common Material available at site.	1	M3	
7	Plain Cement Concrete including placing, compacting,finishing & curing (Ratio 1:2:4)	1	M3	
8	Plain Cement Concrete including placing, compacting, finishing & curing (Ratio 1:4:8)	1	M3	
9	Dismantling : Plain Cement Concrete 1:4:8	1	M3	
10	Dismantling : Plain Cement Concrete 1:2:4	1	M3	
11	Supply and Fixing GI tubular street light pole, 8' of 5" dia, 7' 4" dia, 5' of 3" dia, Single arm of 5' of 1.5" dia	1	No	
12	Supply and Fixing GI tubular street light pole, 8' of 5" dia, 7' 4" dia, 5' of 3" dia, Double arm of 5' of 1.5" dia	1	No	
13	Supply and Fixing GI tubular street light pole, 8' of 4" dia, 7' 3" dia, 5' of 2" dia, Single arm of 5' of 1.5" dia	1	No	
14	Supply and Fixing GI tubular street light pole, 8' of 4" dia, 7' 3" dia, 5' of 2" dia, Double arm of 5' of 1.5" dia	1	No	

15	Providing & installation of pole including cost of 1:2:4 concrete, steel work, excavation, 25mm dia 1000mm long electroplated galvanized J-bolts with threads, 02 Nos nut bolts, washers, 2" PVC pipe, backfilling complete	1	Job	
16	Providing & installation of GI pole Brackets 2" dia with 3 No clamps, iron for PC pole H.T/L.T nut bolt, PVC pipe 1/2" dia complete	1	Job	
17	Supply and Fixing reflective sheet on MS/aluminium road signs etc including lettering : High intensity grade upto 4-00 feet around the pole as per instruction of engineer incharge.	1	M2	
18	Supply and Erection single core PVC insulated copper conductor 250/440 V grade cable : 7/0.029" For lighting and earthing of pole	1	M	
19	Supply and Erection twin core PVC insulated & sheathed copper conductor 250/440 V grade cable : 7/0.036"	1	M	
20	Supply and Erection Single core PVC insulated and sheathed copper conductor 250/440 V grade cable : 7/0.064" for Main Line Starting from DB covering all poles from start pole to end pole all 3 phases	1	M	
21	Supply and Erection single core PVC insulated copper conductor 250/440 V grade cable : 7/0.044" For main neutral	1	M	
22	S/ Fixing Gi wire #6 for street light at wapda Poles	1	M	
23	Supply and Erection 2'x2'x1/8" copper plate including rivetting to copper tape & placing in mixture of salt and charcol etc	1	Each	
24	Earthing of iron clad/aluminium switches etc with GI wire #8 SWG in GI pipe 0.5" dia	1	Job	
25	Supply and Erection shackle/pin insulator, medium size	1	Nos	
26	Scraping, brushing and removing old paint, from metal surface	1	M2	
27	Painting Old Surfaces: Guard Bars, Grating, Railing and Similar work: First coat and Subsequent Coat	1	M2	

28	S And F LED Road light fixtures (120-130 Watts) Having IP 65, LED Efficiency min 100 Lumens/Watt five year warranty with the following Specifications as per instructions of Engineer Incharge complete in all respect. Specified Manufacturers should be PHILIPS, LG KOREA, OSRAM, LUXRON, UNILUMIN, GE(General Electric) or EQUIVALENT	1	No	
29	S And F LED Road light fixtures (90 Watts) Having IP 65, LED Efficiency min 100 Lumens/Watt five year warranty with the following Specification as per instructions of Engineer Incharge complete in all respect. Specified Manufacturers should be PHILIPS, LG KOREA, OSRAM, LUXRON, UNILUMIN, GE(General Electric) or EQUIVALENT	1	No	
30	S And F LED Road light fixtures (60 Watts) Having IP 65, LED Efficiency min 100 Lumens/Watt five year warranty with the following Specification as per instructions of Engineer Incharge complete in all respect. Specified Manufacturers should be PHILIPS, LG KOREA, OSRAM, LUXRON, UNILUMIN, GE(General Electric) or EQUIVALENT	1	No	
31	S And F LED Road light fixtures (30 Watts) Having IP 65, LED Efficiency min 100 Lumens/Watt five year warranty with the following Specification as per instructions of Engineer Incharge complete in all respect. Specified Manufacturers should be PHILIPS, LG KOREA, OSRAM, LUXRON, UNILUMIN, GE(General Electric) or EQUIVALENT	1	No	
32	Supply, Fixing or Installation, Testing and Commissioning of new Retrofit for Existing lights Led Power: 30watt Led light efficiency: 120lm/w Led Driver: Bridgelux USA or EQUIVALENT Driver: Meanwell or EQUIVALENT IK:08 CRI> 80 Color:2700k-6500k Warranty: 02 year, Existing Road Light Fixtures Along with Polishing and Cleaning of Existing Road Light Fixtures as approved and as per instructions of Engineer Incharge.	1	No	
33	Cutting, Jointing, Welding and resizing of damage poles due to road construction and to 11KV Overhead Transmission Line for safety purposes and maintenance as per instruction of engineer incharge complete in all respect	1	Job	

34	Energizing whole system and Repairing Existing Distribution Boards, Painting BDs and supplying power to BDs with 4 core cu/PVC/PV cable as per instruction of engineer incharge complete in all respect	1	Job	
35	Earthing for street light / road lights poles of Distribution Boards etc using 25 mm ² dia steel-clad copper rods to give an earth resistance of not more than 1 ohm complete with CC inspection chamber clamps spd earth rods etc including connection to poles distribution boards with 25 sq mm insulated earthing leads in 40mm GI pipe as required and as approved.	1	job	
36	1 set of breaker 10 Amp with complete 16 SWG box and assembly to protect LED as per instructions of engineer incharge	1	No	
Total Rs.				

Note: Any item of work not reflected in the BOQ and necessarily required to be executed at the site will be paid as per approved provision according to Market rates approved by engineer incharge and duly covered in the Technical Sanction.

SIGNATURE & STAMP OF THE CONTRACTOR: