

BILL OF QUANTITY

ARM work (Electrical Side) of 82 Staff Quarters at Digha ESI Colony for the year – 2011-12

Estimated cost – Rs. 3,93,911.00

Est.	Description of items in brief	Qty	Unit	Rate in figure & word	Amount
1.	Supplying PVC insulated & PVC sheathed XLPE power cable of 1.1KV graded 10sq.mm 3.5 core cable of aluminum for garden light	90 mt.	Mt.		
2.	Laying of above cable in ground without sand cover including excavation & refilling the trench, connection etc as require	90m.	Mt.		
3.	Supply & fitting SON Tube/ Bulb 70 w for garden light of Philips/Bajaj make	15Nos.	No.		
4.	Supply & fitting Son chok 70W make Phillips	14Nos.	No.		
5.	Son Ignitor for 70 w Phillips	15 Nos.	No.		
6.	Supply & fitting Condensor 12 mfd for 70W bulb for garden light	15 Nos.	No.		
7.	Removing and fitting of garden light accessories of item No. 3 to 6 & mounting on the post testing & comissoing of garden light	19 Nos.	No.		
8.	Supplying fitting conical cover for post top lantern of garden light	1 Nos.	No.		
9.	Wiring for circuit sub-main wiring along with earth wire with the following sizes of PVC insulated copper conductor, single core cable in surface/recessed PVC conduit as required 2x4sq.mm +1.4sq.mm earth wire (In B2 & B4 block)	80m..	M.		
10.	Rewiring for light point/fan point/exhaust point with 1.5 sq.mm F.R PVC insulated copper conductor single core cable an 1.5 sq.mm F.R. PVC insulated copper conductor single core cable as earth wire in existing surface/recessed steel/pvc conduit including dismantling as require a. Group "A" b. Group "B"	12 Point	Point		

		4Point	Point		
11.	<p>Supplying and drawing following size F.R PVC insulated copper conductor single core cable in the existing surface / recessed steel/PVC conduit as required</p> <p>a. 2x1.5 sq. mm b. 3x1.5 sq. mm c. 2x2.5sq.mm d. 2x4sq.mm e. 2x6sq.mm</p>	60m. 50m. 60m. 60m. 60m.	M. M. M. M. M.		
12.	<p>Supplying and fixing of following size of PVC conduit along with accessories in surface/recessed including cutting the wall and making good the same</p> <p>a. 20mm. b. 25mm.</p>	50 m. 80m.	M. M.		
13.	<p>Supplying & fixing metal box of following size on surface or in recess with suitable size phenolic laminated sheet cover in front including painting etc. as required</p> <p>a. 150mmx150mmx60mm deep(garden light) b. 180mmx100mmx60mm deep (for street light)</p>	6 Nos. 11 Nos.	No. No.		
14.	<p>Supplying and fixing following piano type switch/socket on the existing switch box/cover including connection as required</p> <p>a. 5/6 A switch b. 2 way 5/6A switch c. 15/16A switch d. 5/6 socket outlet(3pin) e. 6 pin 15/16A socket outlet</p>	80 Nos. 12Nos. 72Nos. 36Nos. 72Nos	No. No. No. No. No.		
15.	<p>Supplying and fixing metal box of 150x75x60mm deep(nominal size) on surface or recess with suitable size of phenolic laminated sheet cover in front including providing & fixing 3 pin 5/6A socket outlet & 5/6A piano</p>	3 Nos.	No.		

	type switch, connection, painting etc as required				
16.	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box /wooden block including connection etc as required	50 Nos.	No.		
17.	Supplying & fixing brass holder batten/ angle holder including connection etc as required	50 Nos.	No.		
18.	Erection of wall bracket/ceiling fitting of all sizes and shape containing up two G.L.S lamps per fitting complete with all accessories including connection etc.	20 Nos.	No.		
19.	Providing & fixing plain 16/0.20mm twin twisted flexible F.R PVC insulated copper cable in plytheneslleve, or conduit of suitable size on the floor/wall etc. as required for convenience Hall etc.	60 m.	M.		
20.	Installation, testing and commissioning of prewired fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc including supplying & fixing ball & socket arrangement 2 No. down rods of 20mm dia.x 1.6 mm thick steel conduit upto 30 cm length, painting and wiring the down rods and connection with 1.5 sq mm F.R. PVC insulated copper conductor single core cable & earthing etc as required in convenience Hall	6 Nos.	No.		
21.	Supply & fixing of starter for 36W/40W FTL for convenience Hall	28 Nos.	No.		
22.	Supply & fixing of FTL chock 36W/40W	28 Nos.	No.		
23.	Supply & fixing of 36W/40W Tube for Convenience Hall	28 Nos.	No.		
24.	Supply & fixing of CFL 23W T3/T4 spiral make Bajaj/Philips	10 Nos.	No.		
25.	Supply & fixing of CFL 15W T3 linier make Bajaj/Philips	3 Nos.	No.		
26.	Supply of ventilation(exhaust) fan 230mm. ventil Air DS branded make metal type with mounting ring for bathroom & kitchen for convenience Hall	4 Nos.	No.		
27.	Installation of exhaust fan upto	4 Nos.	No.		

	450mm. sweep in the existing opening including making the hole to suit the size of the above fan, making good the damage, connection, testing, commissioning etc. as required				
28.	Installation, testing & commissioning of ceiling fan including wiring the down rods of standard length upto(30cm.) with 1.5sq.mm F.R PVC insulated copper conductor single core cable including providing & fixing phenilic laminated sheet cover on the fan box etc. as required	80 Nos.	No.		
29.	Insulation, testing & commissioning of resistance type ceiling fan regulator in existing switch box including connection with 1.5 sq.mm F.R.PVC insulated conductor single core cable earthing the regulator etc. as required	80 nos.	No.		
30.	Extra for cutting and threading G.I. pipe heavy gauge down rod for ceiling fan etc.	80 Nos.	No.		
31.	Carriage of ceiling fan & regulator/exhaust fan from store to site as required	80 Nos.	No.		
32.	Numbering of ceiling fan/exhaust fan fluorescent fitting as required	135 Nos.	No.		
33.	Extra for fixing the lowers/shutters complete with frame for exhaust fan of all sizes	4 Nos.	No.		
34.	Supply & fixing disconnector fuse 63A TPN L&T make in the main panel of pump house	1 Nos.	No.		
35.	Supply & fixing Kit-Kat fuse 200A with Bus-bar link for Block panels	12 Nos.	No.		
36.	Supply & fixing Kit- Kat fuse 32A for quarters	12 Nos.	No.		
37.	Supply & fixing Kit-kat fuse 63A for convenience Hall	3 Nos.	No.		
38.	Supply & fixing Kit-kat fuse 15/16A for street light & garden light	15 Nos.	No.		
39.	R/M of existing Hp SV lamp including removing and fixing of street light a. Change of bulb 250W S/V b. Change of condensor 250 / 300W. c. Change of choke d. Change of Ignitor e. Change of holder	4 Nos. 4 Nos. 4 Nos. 4 Nos.	No. No. No. No.		

		3 Nos.	No.		
40.	Supply & fixing of street light of west side of rode of colony 250W HPSV with all accessories Bajaj make BJ MSD-04250 SV complete	2 nos.	No.		
41.	Supply & fixing of 20mm dia. G.I Pipe for bracket (Street light water tight) including bending to shape, 40 mm.x3mm. flat iron clamps & wiring with 1.5 sq.mm WP/PVC wire & painting the flat iron with primer & finish paint etc. as required	2 Nos.	No.		
42.	Supply & fitting of clamps, bolts, nuts etc. for fitting of box in tubular pole of street light	11 Set	Set		
43.	Making 2 nos. hole in tubular pole for laying inside the PVC wire of street light (1 nos. in top portition & 1 Nos in bottom)	22 Nos.	No.		
44.	Supply & installing , testing & commissioning of TPN of following capacity on existing rising mains & complete with HRC fuse links interconnection, earthing etc. as required a. 63A TPN b. 200A TPN	1 Nos. 2 Nos.	No. No.		
45.	Supply & fixing following way single pole & natural prewired sheet steel MCB distribution board 240V on surface/recess, complete with lose wire box, terminal blocks, tinned copper bus-bar, natural link, earth bar, din bar, detachable gland plate, inter connection including powder coat painting, earthing etc as required (But without MCB/RCCB/isolator) for convenience Hall a. 4 way single door b. 8 way single door	2 Nos. 2 Nos.	No. No.		
46.	Supplying and fixing 5A – 32 A rating 240 v ‘B’ series M.C.B suitable for lighting & other load of following poles in the existing M.C.B DB complete with connection testing & commissioning etc as required for convenience Hall a. Single pole	20 Nos.	No.		

	b. Single pole & Neutral	4 Nos.	No.		
47.	Supplying and fixing following double pole 240V isolator in the existing MCB DB complete with connection testing & commissioning etc. as required 40 amps(For quarters)	12 Nos.	No.		
48.	Earthing with G.I earth pipe 4.5m. Long 40 mm. dia. Including accessories providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal salt as required (LT lines near DSS)	3 Set	Set		
49.	Extra for using salt charcoal for pipe earth electrode as required	3 Set	Set		
50.	Supplying & laying 6 S.W.G. copper wire at 0.5 m. below ground level for conductor earth electrode including soldering etc. as required (Qty.-30 m.=6Kg.apr.)	6 Kg.	Kg.		
51.	Supply of TC fuse wire of different size	2 Kg.	Kg.		
52.	Supply of rubber hand gloves 11 KV branded	1 Pair	Pair		
53.	Supply of insulated cutting plier 8 inch "Taparia"	1 Nos.	No.		
54.	Supply of wire man/Electrician grade 1 From 01.06.11 to 31.03.12	304 days	Day		
55.	Supply of Khalasi from 1.6.11 to 31.3.12	304 days	Days		
56.	Supply of cotton waste cleaning cloth etc	2 Kg.	Kg.		

Dated

Signature of contractor