

Scope of work

Name of the work: Repairing of fountain lights and indoor lights in different areas of IACS, jadavpur, Kolkata.

Sl.No.	Description of Items.	Quantity	Unit	Rate	Amount
1	Supplying of following size PVC sheathed/XLPE insulated armoured aluminium power cable of 1.1 KV grade as per IS : 7098 (part-1) 1988 etc. as required.				
a)	3 core X 4 sq.mm.aluminium cable	105	Metre		
b)	3.5 core X 95 sq.mm.aluminium cable	115	Metre		
c)	3.5 core X 25 sq.mm.aluminium cable	10	Metre		
	Make: Polycab/Gloster/KEI/Havells				
2	Wiring for circuit / submain wiring along with earth wire with the following size of FRLS PVC insulated Copper conductor, single core cable in surface /recess with medium class PVC conduit, as required				
a)	2 x 1.5 Sq.mm + 1 x 1.5 Sq.mm earth wire	145	Metre		
	Make : Finolex, Polycab, Gloster, KEI.				
3	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
a)	Upto 35 sq.mm.	10	Metre		
b)	95 Sq.mm (clamped with 25 X3) flat clamp	90	Metre		
4	Laying of one number PVC insulated and PVC sheathed power cable of 1.1 KV grade of following sizes direct in ground including excavation and refilling the trench etc. as required,but excluding of sand cushioning & protective covering.				
a)	95 Sq.mm	25	Metre		
5	Supplying and making end termination with brass compression gland and Aluminium lugs for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable of 1.1 KV grade as required.				
a)	3.5 X 25 Sq.mm	12	Nos.		
b)	3.5 X 95 Sq.mm	2	Nos.		
6	Supplying and laying of following size DWC HDPE pipe ISI marked along with all accessories like socket,bend,coupler etc.confirming to IS 14930,Part II complete with fitting and cutting, jointing etc. in the existing trench,complete as required.				
a)	63 mm (OD-63 mm and ID-51 mm nominal)	25	Metre		
7	Providing & fixing 4 mm dia bare copper wire on surface or in recess for loop earthing alongwith existing surface/recess conduit/submain wiring, as required.	20	meter		

Sl.No.	Description of Items.	Quantity	Unit	Rate	Amount
8	Supplying and fixing 8 SWG dia GI wire on surface or recess for loop earthing along with the existing surface /recessed conduit/submain wiring /cable as required	500	meter		
9	Supplying & fixing of following ways surface /recess mounting vertical type, 415V,TPN MCB distribution board of sheet steel, dust protected,duly powder painted, inclusive of 160 A tinned copper bus bar, common neutral link,earth bar,din bar, for mounting MCBs (but without MCBs and incomer)complete	1	No.		
a)	12 Way (4+36) Double door.				
	Make: Legrand,ABB,L&T, Hager				
10	Supplying & fixing of following ways single pole and neutral, sheet steel MCB distribution board 240V on surface or recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc., as required. (without MCB/MCCB/isolator)				
a)	12 way double door	2	Nos.		
	Make: Legrand,ABB,L&T, Hager				
11	Supplying & fixing of following rating 240/415 V, 10KA, 'C' curve MCB suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	6A single pole	18	Nos.		
b)	10A single pole	4	Nos.		
c)	16A single pole	18	Nos.		
d)	40 A Single pole.	6	Nos.		
e)	32 A Double pole.	2	Nos.		
f)	32 A Triple pole.	7	Nos.		
g)	63A four pole MCB	1	No.		
	Make: Legrand,ABB,L&T, Hager				
12	Supplying and fixing of 18W submersible LED (RGB) based decorative fountain light with colour changing facility, made out of die cast stainless steel (304gr), emitter type power LEDs with all-in-one optical lense of efficiency 85%, step tempered glass of 8 mm thickness with protection class of IP-68, including connection and waterproof jointing etc., as required.	14	Nos.		
	Make: K-lite/omron/phillips/meanwell/Fountainers/dimond or other similar make				
13	Supplying & Fixing of fountain LED light controller assembly consists of 24V constant voltage driver, 10A DMX controller with SMPS and power contactor, including the control circuit wiring with 1.5 sq.mm FRLS PVC insulated flexible copper wire, MCBs etc., as required.	1	set		
	Make: Meanwell/dimond/EST/Grotech or other similar make				

Sl.No.	Description of Items.	Quantity	Unit	Rate	Amount
14	Earthing with GI earth pipe 4.5mm long, 40 mm dia including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with supplying of salt, charcoal etc., as required.	4	Set		
15	Supplying and laying of 25X5 mm GI strip at 0.50 meter below ground as strip earth electrode including connection/termination with GI nut bolt and spring washer etc., as required	50	Meter		
16	Supplying and fixing of 16 SWG stainless steel box having dimension 10 inch X 10 inch X 5 inch, which consists of 16A 4 pole channel fixing KUT-6 type connector (4 Nos.), 6A to 16A SP MCB (1 No.) complete, as required.	15	Each		
17	Supplying & fixing of surface / recess mounting outdoor 6 way double door SPNDB (IP-54) consists of single phase modular 25A, AC-3 category power contactor with coil voltage: 220V (1 No.), analog chronological "daily time switch" (1 No) along with 6 A to 32 A (3 Nos.) MCBs, connectors (4 Nos) & control circuit wiring with 4 Sq.mm FRLS PVC flexible copper wire, complete as required. Make: L&T/Hagar/ABB/Legrand.	7	set		
18	Fabrication of metal light fixing bracket with flange dia 10 inch with 8 mm thick baseplate welded with a 40 mm dia GI pipe of thickness 3 mm and length 300mm.	6	Nos.		
19	Supplying and fixing of 12W LED lamp with B22 holder base, polycarbonate diffuser and aluminium heat sink Make: Crompton/Phillips/bajaj/Havells/Panasonic/wipro	12	Nos.		
20	Supplying and fixing of indoor type recess mounted LED down light with die cast aluminium housing, heat sink, anti glare polycarbonate/acrylic diffuser and integrated energy efficient electronic driver. With colour temperature 4000K.				
a)	15W circular shaped with diameter 145mm	10	Nos.		
b)	36W Square shaped 2 X 2 feet.	12	Nos.		
c)	20W LED batten tubelight	25	Nos.		
	Make: Crompton/Phillips/bajaj/Havells/Panasonic/wipro				
			Total		
Rupees.....only					
NOTE: The quoted rate shall be inclusive of all taxes & duties, levies, cess etc i/c GST also. Nothing extra will be paid to the Contractor except the accepted rate.					
	GST No:				
	SAC code:				
	<u>CGST@.....6....% considered in the above BOQ</u>				
	<u>SGST@.....6....% Considered in the above BOQ</u>				