

**Estimate for Electrical works for setting up New Emergency Ward at ESI Hospital, Nacharam**

S.No	DSR/ SSR/ MR	Items	Qty	Unit	Rate	Amount
1	DSR 1.10.2	Wiring for light/fan/exhaust fan/call bell point with 1.5 sq.mm pvc insulated copper conductor ..... medium gauge PVC conduit with modular switch.....	36	Pt	1182	42552.00
2	DSR 1.11	Wiring for twin control light/ fan point with 1.5 sq.mm pvc insulated copper conductor ..... medium gauge PVC conduit with modular switch.....	5	Pt	1562	7810.00
3	DSR 1.12	Wiring for power plug point with 2x4 sqmm FRLs copper wire with 1 No. 4 sq.mm earth wire in heavy PVC conduit surface/recess.....	210	Mtr	334	70140.00
4	DSR 1.13	Wiring for power plug point with 4x4 sqmm FRLs copper wire with 2 Nos. 4 sq.mm earth wire in heavy PVC conduit surface/recess.....	90	Mtr	537	48330.00
	DSR 1.14	Wiring for circuit/ submain wiring with FRLS copper wire of following size along with earth wire arthing in Medium class PVC conduit				
5	DSR 1.14.2	2 x 2.5 sq.mm +1 x 2.5 sq.mm earth wire	390	Mtr	275	107250.00
6	DSR 1.14.3	2 x 4.0 sq.mm +1 x 4.0 sq.mm earth wire	90	Mtr	334	30060.00
7	DSR 1.14.4	2 x 6.0 sq.mm +1 x 6.0 sq.mm earth wire	30	Mtr	439	13170.00
	DSR 1.17	UPS wiring - Supply and drawing following size FRLS copper wires in the existing steel/PVC conduit				
8	DSR 1.17.3	3 x 1.5 Sq.mm	250	Mtr	95	23750.00
	DSR 1.21	Suppling and fixing of medium class PVC conduit on surface/recess				
9	DSR 1.21.1	20mm	330	Mtr	125	41250.00
10	DSR 1.21.2	25 mm	90	Mtr	145	13050.00
11	DSR 1.21.3	32 mm	60	Mtr	184	11040.00

	DSR 1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
12	DSR 1.24.1	5/6 A switch	64	Each	103	6592.00
13	DSR 1.24.3	15/16 A switch	25	Each	156	3900.00
14	DSR 1.24.4	3 pin 5/6 A socket out let	25	Each	122	3050.00
15	DSR 1.24.5	6 pin 15/16 A socket out let	25	Each	197	4925.00
16	DSR 1.24.7	Bell push	2	Each	140	280.00
17	DSR 1.25	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	20	Each	369	7380.00
18	DSR 1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	100	Each	40	4000.00
	DSR 1.27	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.				
19	DSR 1.27.1	1 or 2 Module (75mmX75mm)	25	Each	298	7450.00
20	DSR 1.27.2	3 Module (100mmX75mm)	5	Each	327	1635.00
21	DSR 1.27.3	4 Module (125mmX75mm)	5	Each	343	1715.00
22	DSR 1.27.4	6 Module (200mmX75mm)	25	Each	402	10050.00
23	DSR 1.27.5	8 Module (125mmX125mm)	5	Each	454	2270.00
24	DSR 1.27.6	12 Module (200mmX150mm)	5	Each	547	2735.00
25	DSR 1.33	Supplying and fixing 3 pin 5 A ceiling rose on the existing junction box including connections	39	Each	87	3393.00

26	DSR 1.41	Installation, testing and commissioning of LED fitting of all types, complete with all accessories etc. directly on ceiling/ wall, including connections with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required.	25	Each	206	5150.00
27	DSR 1.44	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc. as required.	10	Each	213	2130.00
28	DSR 1.50.1/ 1.51	Installation of exhaust fan up to 450 mm sweep in the existing opening including connections including fixing louvers /shutters for the exhaust fan including frame	4	Each	657	2628.00
	DSR 1.53	Supplying and drawing UTP 4 pair CAT 6 LAN cable in the existing conduit				
29	DSR 1.53.1	1 run of cable	250	Mtr	57	14250.00
30	DSR 1.53.2	2 run of cable	100	Mtr	96	9600.00
	DSR 2.3	Supplying and fixing the following SPN MCB distribution board on surface/recess complete with tinned copper bus bar, neutral bus bar, earth bar, din bar interconnections as required (without RCCB/ MCBs/ isolator) for UPS				
31	DSR 2.3.3	12 way double door	2	Each	2315	4630.00
	DSR 2.4	Supplying and fixing the following horizontal type powder coated TPN distribution board on surface/recess complete with tinned copper bus bar, neutral bus bar, earth bar, din bar interconnections as required (without RCCB/MCBs)				
32	DSR 2.4.1	4 way (4+12), double door	2	Each	4091	8182.00
33	DSR 2.4.2	6 way (4+18), double door	3	Each	4974	14922.00

34	DSR 2.4.3	8 way (4+24), double door	1	Each	5967	5967.00
	DSR 2.10	Supplying and fixing <b>5 A to 32 A</b> rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
35	DSR 2.10.1	Single Pole	48	Each	256	12288.00
36	DSR 2.10.2	Single Pole and neutral	10	Each	599	5990.00
37	DSR 2.10.3	Double pole	10	Each	656	6560.00
38	DSR 2.10.5	Tripple pole and Neutral	6	Each	1228	7368.00
39	DSR 2.11	Supply and fixing single pole blanking plate in the existing MCB DB complete as required.	40	Each	13	520.00
	DSR 2.13	Supplying and fixing following four pole (three phase and neutral) <b>415 V, isolator</b> in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
40	DSR 2.13.1	40 A	2	Each	970	1940.00
41	DSR 2.13.2	63 A	4	Each	1034	4136.00
42	DSR 2.13.3	100 A	1	Each	1227	1227.00
	DSR 2.14	Supplying and fixing double pole (single phase and neutral) <b>240 V</b> , residual current circuit breaker having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
43	DSR 2.14.2	40 A	3	Each	2642	7926.00
	DSR 2.15	Supplying and fixing following four pole (three phase and neutral) <b>415 V</b> , residual current circuit breaker having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				

44	DSR 2.15.3	63 A	3	Each	3872	11616.00
45	DSR 2.16	Supplying and fixing DP sheet steel enclosure on surface/ recess along with 25/32 A 240 V "C" curve DP MCB complete with connections, testing and commissioning etc. as required for split AC.	5	Each	1169	5845.00
46	DSR 2.17	Supplying and fixing TP sheet steel enclosure on surface/recess along with 15/25/32 A, 415 V, "C" curve TP MCB complete with connections, testing and commissioning etc. as required for cassette AC.	4	Each	1592	6368.00
47	DSR 2.21	Providing and fixing MV danger notice plate 200 x 150 mm, 2 mm thick mils steel	6	Each	269	1614.00
48	DSR 2.23.4	Supplying and fixing Cable End Box (Loose Wire Box) suitable for following single pole and neutral, sheet steel, MCB distribution board, 240 Volts, on surface/ recess, complete with testing and commissioning etc. as required. For 14 way, Double door SPN MCBDB	2	Each	902	1804.00
	DSR 2.24	Supplying and fixing Cable End Box (Loose Wire Box) suitable for following triple pole and neutral, sheet steel, MCB distribution board, 415 Volts, on surface/ recess, complete with testing and commissioning etc.as required.				
49	DSR 2.24.1	For 4 way, Double door TPN MCBDB	2	Each	1080	2160.00
50	DSR 2.24.2	For 6 way, Double door TPN MCBDB	3	Each	1124	3372.00
51	DSR 2.24.3	For 8 way, Double door TPN MCBDB	1	Each	1340	1340.00
	DSR 4.1	Supplying and installing following size of perforated painted with powder coating M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.				

52	DSR 4.1.2	150 mm width X 50 mm depth X 1.6 mm thickness	50	Mtr	604	30200.00
53	DSR 4.1.4	300 mm width X 50 mm depth X 1.6 mm thickness	30	Mtr	777	23310.00
	DRS 4.2	Supplying and installing following size of perforated painted with powder coating M.S. cable trays bends with perforation not more than 17.5%, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.				
54	DSR 4.2.2	150 mm width X 50 mm depth X 1.6 mm thickness	10	Each	1018	10180.00
55	DSR 4.2.4	300 mm width X 50 mm depth X 1.6 mm thickness	5	Each	1438	7190.00
56	DSR 5.2	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	2	Set	6855	13710.00
57	DSR 5.11	Providing and fixing 25 mm X 5 mm G.I. strip in 40 mm dia G.I pipe from earth electrode including connection with G.I.nut, bolt, spring, washer excavation and re-filling etc. as equired.	10	Mtr	706	7060.00
58	DSR 5.15	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	10	Mtr	244	2440.00
	DSR 7.6	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing masonry open duct as required.				
59	DSR 7.6.1	Up tp 35 sq.mm	100	Mtr	28	2800.00
	DSR 7.7	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following on surface as required.				
60	DSR 7.7.1	Up tp 35 sq.mm (clamped with 1mm thick saddles)	320	Mtr	55	17600.00

	DSR 9.1	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.				
61	DSR 9.1.2	2 x 10 Sq.mm (19mm)	4	Each	241	964.00
62	DSR 9.1.32	4 x 10 sq.mm (25mm)	4	Each	269	1076.00
63	DSR 9.1.33	4 core x 16 sq.mm (28mm)	4	Each	309	1236.00
64	DSR 9.1.20	3.5 core x 25 sq.mm (25mm)	4	Each	313	1252.00
65	DSR 17.5.4	Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.	20	Metre	50	1000.00
<b>Subtotal DSR E&amp;M "A"</b>						<b>737328.00</b>
66	SSR 24-25 ELEC 3.3.16	Supply and transportation of 22W +/- 10% , >/ 2300 lumens, 1200 mm (+/- 10%) length LED light housing made with alluminium anodised body, wide operating voltage with PF≥0.9, Surge protection: > 2KV, THD<10%, with inbuilt driver and frosted cover CCT: 3000K - 6500K as desired by the department as per IS, minimum CRI≥80 etc., complete with 5 years warranty with BIS Certification with BIS Certification. LUMINAIRE MAKE : Phillips / OSRAM / Wipro / Crompton / Bajaj / Havells / Jaquar/ Panasonic / Halonix / HPL / Eveready / Surya / Keselec / Arraystorm / GM /Goldmedal / Goldwyn / Fortune Arrt / Lighting Technologies LED MAKE : PHILIPS LUMILEDS / CREE / NICHIA / OSRAM / SAMSUNG / LG LEDs.	25	Each	615	15375.00

	SSR 24-25 ELEC 4.1.1	Supply of the following XLPE insulated, 1100V grade armoured aluminium cable with ISI mark as per specification confirming to IS:7098 (Part - I) Makes : Torrent / Unicab / Universal / Polycab / Havells / Gloster / KEI / Finolex / Payal / RR kable / Beljin / Ollvin / Finecab / RPG / V - Guard / Orbit / Fortune Arrt / Gemscab / Bonton / SPM / Unistar / Windsor/ Avocab / Pawancab / Nakoda / Suncab				
67	4.1.1.c	10 Sqmm 2 Core	80	Mtr	230	18400.00
68	4.1.1.e	10 Sqmm 4 Core	160	Mtr	250	40000.00
69	4.1.1.f	16 Sqmm 4 Core	100	Mtr	280	28000.00
70	4.1.1.g	25 Sqmm 3.5 Core	80	Mtr	360	28800.00
71	SSR ELEC-5.1.1	Supply, Transportation of energy efficient fan, 1200 mm sweep, aluminium body, consuming 28 W, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLDC) motor, class of insulation: B, 3 no's blades, 30 cm long down rod, 2 no's canopies, shackle'kit, copper winding, Power Factor greater than 0.90, Service Value (CMMAV) greater than 8.0, Air delivery minimum 235 CMM, 350 RPM( tolerance as per IS:374-2019), THD less than 10%. with remote or compatible to electronic step type regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75°C(max), insulation resistance more than 2 mega ohm, suitable for 230V, 50 HZ, single phase AC supply, earthing etc., including all standard accessories etc., complete. Makes : Atomberg (Efficio ) / Havells / Orient / Halonix / Crompton	10	Each	3085	30850.00
72	SSR ELEC-5.1.16.b	Supply of 12" (300 mm) 900 RPM Heavy duty exhaust fan with metallic blades. Makes : Crompton / Almonard / Havells Turbo Force SP.	4	Each	3410	13640.00



73	SSR ELEC- 5.1.17.b	Supply and fixing of GI louver shutter including GI mesh to avoid birds entry with necessary materials suitable for 12" Exhaust fan.	4	Nos	180	720.00
74	SSR ELEC- 5.1.18.b	Providing recessing 12" thickness brick wall suitable for erection of exhaust fan up to 450mm sweep completed with grouting, nuts, bolts, plastering and colour wash to match the the colour of wall .	4	Nos	485	1940.00
<b>Subtotal SSR Electrical "B"</b>						<b>177725.00</b>
<b>Summary</b>						
DSR E&M "A"						737328.00
Add Cost Index @10.28%						75797.32
Subtotal						813125.32
Difference of GST 18%-12% on work items						51470.83
Total A1						864596.15
SSR Electrical "B"						177725.00
Add Over Heads & profit @15%						26658.75
Subtotal						204383.75
add GST @18%						36789.08
Total B1						241172.83
Total A1 + B1						1105768.98
add Labour Cess @1%						11057.69
<b>Grand total</b>						<b>1116827.00</b>