

COST SUMMARY for ARM works 2025

Name of Work : “ Annual Repair and Maintenance (ARMO-Electrical) Works of Medical College and Hospital Building , Hostel Buildings ,Type-I to VI Staff Quarters at ESIC Campus, Kalaburagi”

Abstract for ARM Estimate for ESIC Gulbarga.

SI No	Item Head	Amount	Remarks
A	Manpower (A)	2 77 08 013.18	
B	Material of electrical	1 03 30 053.42	
C	Item works of electrical	59 36 483.35	
	Sub Total (B+C)	1 62 66 536.77	
D	Total Amount(A+B)	4 39 74 549.95	
	ESI,EPF, BONUS wherever applicable will be reimbursed on actuals from time to time on submission of Documentary proofs.		
	The Estimated cost is inclusive of Contractor's profit at 15%		

Name of Work : " Annual Repair and Maintenance (ARMO-Electrical) Works of Medical College and Hospital Building , Hostel Buildings ,Type-I to VI Staff Quarters at ESIC Campus, Kalaburagi"								
Details of Service Manpower								
Sl. No.	Type of Manpower	Category	Nos	Total No. of days	Wage per month (incl. all) (Area - B)	No. of months	Amount	Remarks
A	B	C	D	E	E	F=Ex12	G=ExF	
1	Deployment of Supervisor (Fire Safety) for day to day operation of Firefighting / Fire Alarm system equipment etc., complete all as directed by the Dean. (01 No.) (Qualification: Fire safety diploma with 10 years experience in day to day operation of Firefighting / Fire Alarm system equipment) (Highly Skilled)	Highly Skilled	1	26	38,155.11	12.00	4,57,861.33	
2	Deployment of Supervisor for HVAC for day to day operation of HVAC equipment (like Chillers, Cooling Towers, AHU's etc.), complete all as directed by the Dean. (01No) (Qualification: ITI Certificate with 05 years experience in day to day operation of HVAC equipment) (Highly Skilled)	Highly Skilled	1	26	38,155.11	12.00	4,57,861.33	
3	Engaging of of Supervisor for supervising of day to day maintenance of Electrical maintenance and to monitor these services are properly attended and to take care of complaints arised related to fittings / fixtures in the campus such as switches, sockets, switch boards, LT Panels , MCBs, MCB DBs, MCCBs, SFUs, FSUs etc., and all types of fans / light fittings, OH lines, UG cables etc., complete all as directed by the Dean. (01 No's) (Qualification: Diploma in Electrical Engineering with 10 years related experience (supervisory) in maintenance job) (Highly Skilled)	Highly Skilled	1	26	38,155.11	12.00	4,57,861.33	
4	Deployment of 110KV/11KV/415V Substation supervisor for day to day operation of substation equipment and DG Sets etc., complete all as directed by the Dean. (01 Nos.) (Qualification: B.E / B. Tech / Diploma certificate with 5 years' experience in operation of 33KV / 415V Switchyard & Substation and equipment and DG Set) (Highly Skilled)	Highly Skilled	1	26	38,155.11	12.00	4,57,861.33	
5	Deployment of Lift supervisor for supervising day to day operation of Lifts like checking of lifts condition, to carry out minor services to make it in proper working condition etc., complete all as directed by the Dean. (01 Nos.) (Qualification: Trade certificate with 05 years experience in operation and maintenance of lifts) (Skilled)	Highly skilled	1	26	38,155.11	12.00	4,57,861.33	
6	Deployment of 11KV / 415V Substation -1 Attendant Cum DG Operator for day to day operation of substation equipment and DG Sets etc., complete all as directed by the Dean. (05 Nos.) (Qualification: B.E / B. Tech / Diploma certificate with 03 years' experience in operation of 11KV / 415V Switchyard & Substation and equipment and DG Sets) (Skilled)	Skilled	5	130	34,938.84	12.00	20,96,330.42	

7	Deployment of 11KV / 415V Substation-2 Attendant Cum DG Operator for day to day operation of substation equipment and DG Sets etc., complete all as directed by the Dean. (01 Nos.) (Qualification: B.E / B. Tech / Diploma certificate with 03 years' experience in operation of 11KV / 415V Switchyard & Substation and equipment and DG Sets) (Skilled)	Skilled	1	26	34,938.84	12.00	4,19,266.08
8	Deployment of 110KV/11KV Substation Attendant Cum DG Operator for day to day operation of substation equipment and DG Sets etc., complete all as directed by the Dean. (05 Nos.) (Qualification: B.E / B. Tech / Diploma certificate with 03 years' experience in operation of 11KV / 415V Switchyard & Substation and equipment and DG Sets) (Skilled)	Skilled	5	130	34,938.84	12.00	20,96,330.42
9	Deployment of HVAC Attendant Cum Technician for day to day operation of HVAC equipment (like Chillers, Cooling Towers, AHU's etc.), complete all as directed by the Dean. (06No) (Qualification: ITI Certificate with 03 years experience in day to day operation of HVAC equipment) (Highly Skilled)	Skilled	6	156	34,938.84	12.00	25,15,596.50
10	Deployment of Firefighting Technician for day to day operation of Firefighting / Fire Alarm system equipment etc., complete all as directed by the Dean. (05 No's) (Qualification: Fire safety diploma with 03 years experience in day to day operation of Firefighting / Fire Alarm system equipment) (Skilled)	Skilled	5	130	34,938.84	12.00	20,96,330.42
11	Deployment of Lift Operator cum technician for day to day operation of Lifts like checking of lifts condition, to carry out minor services to make it in proper working condition etc., complete all as directed by the Dean. (03 Nos.) (Qualification: Trade certificate with 03 years experience in operation and maintenance of lifts) (Skilled)	Skilled	5	130	34,938.84	12.00	20,96,330.42
12	Deployment of Pump operator for day to day operation of Water transfer pumps Equipment etc., complete all as directed by Dean(04 No's)(Skilled)(Qualification: ITI with 03 years experience in day to day operation and Maintenance of Pumps)	Skilled	4	104	34,938.84	12.00	16,77,064.33
13	Deployment of STP Operator for day to day operation of STP & ETP Equipment etc., complete all as directed by Dean(04 No's)(Skilled)(Qualification: ITI with 03 years experience in day to day operation and Maintenance of STP &ETP)	Skilled	4	104	34,938.84	12.00	16,77,064.33
14	Deployment of R.O Technician for day to day operation of RO Equipment etc., complete all as directed by Dean(02 No's)(Skilled)(Qualification: ITI with 03 years experience in day to day operation and Maintenance of RO)	Skilled	2	52	34,938.84	12.00	8,38,532.17

As per Actual requirement in the site by considering the day to day ESIC MCH & other buildings/service s based on directions of competent authority.

15	Deployment of Laundry Boiler operators for day to day operation of Laundry Equipment etc., complete all as directed by Dean(02 No's)(Skilled)(Qualification: ITI with 03 years experience in day to day operation and Maintenance of Laundry)	Skilled	2	52	34,938.84	12.00	8,38,532.17	
16	Deployment of EPABX Technician for day to day operation of EPABX Equipment etc., complete all as directed by Dean(02 No's)(Skilled)(Qualification: ITI with 03 years experience in day to day operation and Maintenance of EPABX/CCTV)	Skilled	2	52	34,938.84	12.00	8,38,532.17	
17	Deployment of Gas Manifold operator for day to day operation of MGPS/Manifold Equipment etc., complete all as directed by Dean(04 No's)(Skilled)(Qualification: ITI with 03 years experience in day to day operation and Maintenance of Manifold)	Skilled	4	104	34,938.84	12.00	16,77,064.33	
			50					
Total Amount for Operating Manpower (A)							2,11,56,280.42	

Details of Operating Manpower

Sl. No.	Type of Manpower	Category	Nos	Nos Per Month (26 days per month)	Wage per day (incl. all) (Area - B)	Total Qty in Man days	Amount	Remarks
A	B	C	D	E	F	G=Ex12	H=FxG	
1	Deployment of Electrician for day to day maintenance of Electrical services like internal and external electric supply by replacing the damaged fittings / fixtures , the unserviceable fittings / fixtures such as switches, sockets, switch boards, LT Panels , MCBs, MCB DBs, MCCBs, SFUs, FSUs etc., and all types of fans / light fittings, OH lines, UG cables etc., complete all as directed by the Dean. (08 Nos.) (Qualification: ITI Electrician certificate with 3 years related experience along with wiremen permit)	Skilled	8	208	34,938.84	12.00	33,54,128.67	As per Actual requirement in the site by considering the day to day ESIC MCH & other buildings/service s based on directions of competent authority.
2	Deployment of unskilled Labour / Helper for helping the Highly Skilled / Skilled workers in day to day operation of Electromechanical equipments complete all as directed by the Dean (9 Nos.) (Qualification: Nil) (Unskilled)	Un Skilled	9	234	29,607.45	12.00	31,97,604.10	
			17		67.00			
Total Amount (B)							65,51,732.76	

Total of Manpower (A+B)							2,77,08,013.18	
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Name of Work : " Annual Repair and Maintenance (ARMO-Electrical) Works of Medical College and Hospital Building , Hostel Buildings ,Type-I to VI Staff Quarters at ESIC Campus, Kalaburagi"

Electrical Material Supply:

Sr. No.	DSR(E&M) 2022	Details of Items	Unit	Quantity	Rate	Amount	Add CPOH @ 15 %	Rate Incl of CPOH	Add GST@18%	Rate Inclusive of GST	Final Rate	Final Amount
1	1101	1.5 sq. mm ISI marked, FR PVC insulated, single core copper conductor cable	meter	1500.00	18.00	27000.00	2.70	20.70	3.73	24.43	24.43	36645.00
2	1102	2.5 sq. mm ISI marked, FR PVC insulated, single core copper conductor cable	meter	1000.00	28.00	28000.00	4.20	32.20	5.80	38.00	38.00	38000.00
3	1103	4.0 sq. mm ISI marked, FR PVC insulated, single core copper conductor cable	meter	500.00	42.00	21000.00	6.30	48.30	8.69	56.99	56.99	28495.00
4	1104	6.0 sq. mm ISI marked, FR PVC insulated, single core copper conductor cable	meter	250.00	63.00	15750.00	9.45	72.45	13.04	85.49	85.49	21372.50
5	1105	10 sq. mm ISI marked, FR PVC insulated, single core copper conductor cable	meter	250.00	106.00	26500.00	15.90	121.90	21.94	143.84	143.84	35960.00
6	1106	16 sq. mm ISI marked, FR PVC insulated, single core copper conductor cable	meter	100.00	164.00	16400.00	24.60	188.60	33.95	222.55	222.55	22255.00
7	1114	Co-axial TV cable RG-6 grade, 0.7 mm solid copperconductor PE insulated, shielded with fine tinnedcopper braid protected with PVC sheath	Mtr	100.00	20.00	2000.00	3.00	23.00	4.14	27.14	27.14	2714.00
8	1218	20 MM Iron Staples/Saddles/Screw	each	100.00	8.00	800.00	1.20	9.20	1.66	10.86	10.86	1086.00
9	1219	25 MM Iron Staples/Saddles/Screw	each	100.00	10.00	1000.00	1.50	11.50	2.07	13.57	13.57	1357.00
10	1220	32 mm iron staples/ saddles/ screws	each	100.00	16.00	1600.00	2.40	18.40	3.31	21.71	21.71	2171.00
11	1221	40 mm iron staples/ saddles/ screws	each	100.00	19.00	1900.00	2.85	21.85	3.93	25.78	25.78	2578.00
12	1224	20 mm dia. ISI marked, PVC conduit	meter	500.00	21.00	10500.00	3.15	24.15	4.35	28.50	28.50	14250.00
13	1225	25 mm dia. ISI marked, PVC conduit	meter	500.00	29.00	14500.00	4.35	33.35	6.00	39.35	39.35	19675.00
14	1226	32 mm dia. ISI marked, PVC conduit	meter	500.00	46.00	23000.00	6.90	52.90	9.52	62.42	62.42	31210.00
15	1229	20 mm PVC bends	each	100.00	8.00	800.00	1.20	9.20	1.66	10.86	10.86	1086.00
16	1230	25 mm PVC bends	each	100.00	11.00	1100.00	1.65	12.65	2.28	14.93	14.93	1493.00
17	1231	32 mm PVC bends	each	100.00	18.00	1800.00	2.70	20.70	3.73	24.43	24.43	2443.00
18	1234	20 MM PVC coupler	each	100.00	6.00	600.00	0.90	6.90	1.24	8.14	8.14	814.00
19	1235	25 MM PVC coupler	each	100.00	7.00	700.00	1.05	8.05	1.45	9.50	9.50	950.00
20	1236	32 MM PVC coupler	each	100.00	11.00	1100.00	1.65	12.65	2.28	14.93	14.93	1493.00
21	1239	20 mm PVC junction box, one way each	each	50.00	18.00	900.00	2.70	20.70	3.73	24.43	24.43	1221.50
22	1240	20 mm PVC junction box, two way each	each	50.00	19.00	950.00	2.85	21.85	3.93	25.78	25.78	1289.00
23	1300	Modular GI box for 2 module	each	300.00	33.00	9900.00	4.95	37.95	6.83	44.78	44.78	13434.00
24	1301	Modular GI box for 3 module	each	300.00	41.00	12300.00	6.15	47.15	8.49	55.64	55.64	16692.00
25	1302	Modular GI box for 4 module	each	500.00	48.00	24000.00	7.20	55.20	9.94	65.14	65.14	32570.00
26	1303	Modular GI box for 6 module	each	1000.00	74.00	74000.00	11.10	85.10	15.32	100.42	100.42	100420.00
27	1304	Modular GI box for 8 module	each	1000.00	90.00	90000.00	13.50	103.50	18.63	122.13	122.13	122130.00
28	1305	Modular GI box for 12 module	each	1000.00	114.00	114000.00	17.10	131.10	23.60	154.70	154.70	154700.00
29	1401	Ceiling rose, 3 pin, 5 amps ISI marked	each	200.00	20.00	4000.00	3.00	23.00	4.14	27.14	27.14	5428.00
30	1402	S.P. 5/6 amps, one-way modular switch, ISI marked	each	1000.00	34.00	34000.00	5.10	39.10	7.04	46.14	46.14	46140.00
31	1403	S.P. 5/6 amps, two-way modular switch, ISI marked	each	100.00	68.00	6800.00	10.20	78.20	14.08	92.28	92.28	9228.00
32	1404	S.P. 15/16 amps, one-way modular switch, ISI marked	each	1000.00	74.00	74000.00	11.10	85.10	15.32	100.42	100.42	100420.00
33	1405	3 pin 5/6 amps' modular socket outlet, ISI marked	each	1500.00	63.00	94500.00	9.45	72.45	13.04	85.49	85.49	128235.00
34	1406	6 pin 15/16 amps' modular socket outlet, ISI marked	each	500.00	105.00	52500.00	15.75	120.75	21.74	142.49	142.49	71245.00
35	1407	Modular bell push, ISI marked	each	100.00	62.00	6200.00	9.30	71.30	12.83	84.13	84.13	8413.00
36	1408	Stepped type Modular Fan regulator	each	400.00	22.00	8800.00	3.30	25.30	45.54	298.54	298.54	119416.00
37	1409	Telephone Socket outlet modular type	each	20.00	68.00	1360.00	10.20	78.20	14.08	92.28	92.28	1845.60
38	1410	T.V. Socket outlet modular type	each	50.00	68.00	3400.00	10.20	78.20	14.08	92.28	92.28	4614.00
39	1411	Modular blanking plate	each	200.00	16.00	3200.00	2.40	18.40	3.31	21.71	21.71	4342.00
40	1412	6 pin 25 amp modular type socket ISI Marked	each	200.00	125.00	25000.00	18.75	143.75	25.88	169.63	169.63	33926.00
41	1421	Modular base & cover plate for 2 modules	each	300.00	42.00	12600.00	6.30	48.30	8.69	56.99	56.99	17097.00
42	1422	Modular base & cover plate for 3 modules	each	300.00	56.00	16800.00	8.40	64.40	11.59	75.99	75.99	22797.00
43	1423	Modular base & cover plate for 4 modules	each	500.00	61.00	30500.00	9.15	70.15	12.63	82.78	82.78	41390.00
44	1424	Modular base & cover plate for 6 modules	each	1000.00	79.00	79000.00	11.85	90.85	16.35	107.20	107.20	107200.00
45	1425	Modular base & cover plate for 8 modules	each	1000.00	101.00	101000.00	15.15	116.15	20.91	137.06	137.06	137060.00
46	1426	Modular base & cover plate for 12 modules	each	1000.00	147.00	147000.00	22.05	169.05	30.43	199.48	199.48	199480.00
47	1431	SP 5/6 A, One way switch, piano type ISI Marked	each	30.00	10.00	300.00	1.50	11.50	2.07	13.57	13.57	407.10
48	1433	SP 15/16 A, One way switch, piano type ISI Marked	each	30.00	48.00	1440.00	7.20	55.20	9.94	65.14	65.14	1954.20
49	1442	Brass batten/ angle holder	each	300.00	38.00	11400.00	5.70	43.70	7.87	51.57	51.57	15471.00
50	1444	Call bell/ buzzer, single phase	each	300.00	44.00	13200.00	6.60	50.60	9.11	59.71	59.71	17913.00
51	1451	UTP 4 Pair CAT 6 LAN Cable	Metre	1000.00	28.00	28000.00	4.20	32.20	5.80	38.00	38.00	38000.00
52	1452	PVC Batten/ Angle Holder	each	50.00	22.00	1100.00	3.30	25.30	4.55	29.85	29.85	1492.50
53	1501	200 amps. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	Metre	5.00	5056.00	25280.00	758.40	5814.40	1046.59	6860.99	6860.99	34304.95
54	1502	300 amps. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	Metre	1.00	5286.00	5286.00	792.90	6078.90	1094.20	7173.10	7173.10	7173.10
55	1503	400 amps. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	Metre	1.00	6550.00	6550.00	982.50	7532.50	1355.85	8888.35	8888.35	8888.35
56	1504	600 amps. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	Metre	1.00	7355.00	7355.00	1103.25	8458.25	1522.49	9980.74	9980.74	9980.74
57	1505	800 amps. TPN, rising mains in metal enclosure with aluminium busbar including fixing clamp	Metre	1.00	8906.00	8906.00	1335.90	10241.90	1843.54	12085.44	12085.44	12085.44
58	1511	16 amps. TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	10.00	9029.00	90290.00	1354.35	10383.35	1869.00	12252.35	12252.35	122523.50
59	1512	16 amps. TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	5.00	20357.00	101785.00	3053.55	23410.55	4213.90	27624.45	27624.45	138122.25
60	1513	16 amps. TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	28894.00	28894.00	4334.10	33228.10	5981.06	39209.16	39209.16	39209.16
61	1514	16 amps. TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	40057.00	40057.00	6008.55	46065.55	8291.80	54357.35	54357.35	54357.35
62	1515	32 amps. TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	11164.00	11164.00	1674.60	12838.60	2310.95	15149.55	15149.55	15149.55
63	1516	32 amps. TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	22984.00	22984.00	3447.60	26431.60	4757.69	31189.29	31189.29	31189.29
64	1517	32 amps. TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	30206.00	30206.00	4530.90	34736.90	6252.64	40989.54	40989.54	40989.54
65	1518	32 amps. TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	42026.00	42026.00	6303.90	48329.90	8699.38	57029.28	57029.28	57029.28
66	1519	63 amps. TPN, 2 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	12739.00	12739.00	1910.85	14649.85	2636.97	17286.82	17286.82	17286.82
67	1520	63 amps. TPN, 4 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	21670.00	21670.00	3250.50	24920.50	4485.69	29406.19	29406.19	29406.19
68	1521	63 amps. TPN, 6 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	23377.00	23377.00	3506.55	26883.55	4839.04	31722.59	31722.59	31722.59
69	1522	63 amps. TPN, 8 way, distribution tap off box with ISI marked HRC fuses for rising mains	each	1.00	40320.00	40320.00	6048.00	46368.00	8346.24	54714.24	54714.24	54714.24
70	1610	3 pole MCCB, 100A, 16KA	each	1.00	2644.00	2644.00	396.60	3040.60	547.31	3587.91	3587.91	3587.91
71	1611	3 pole MCCB, 125A, 16KA	each	1.00	3403.00	3403.00	510.45	3913.45	704.42	4617.87	4617.87	4617.87
72	1612	3 pole MCCB, 150A, 16KA	each	1.00	4287.00	4287.00	643.05	4930.05	887.41	5817.46	5817.46	5817.46
73	1613	3 pole MCCB, 200A, 16KA	each	1.00	5541.00	5541.00	831.15	6372.15	1146.99	7519.14	7519.14	7519.14
74	1622	4 pole MCCB, 100A, 30KA	each	1.00	5623.00	5623.00	843.45	6466.45	1163.96	7630.41	7630.41	7630.41

Sr. No.	DSR(E&M) 2022	Details of Items	Unit	Quantity	Rate	Amount	Add CPOH @ 15 %	Rate Incl of CPOH	Add GST@18%	Rate Inclusive of GST	Final Rate	Final Amount
157	3070	Thermal insulated flexible duct- 200 mm dia Fire dampers in supply air duct/main branch and return air path with inbuilt mechanism of spring return action	sq m	15.00	388.22	5823.30	58.23	446.45	80.36	526.81	526.81	7902.15
158	3071	Fire damper	sq m	15.00	7318.98	109784.70	1097.85	8416.83	1515.03	9931.86	9931.86	148977.90
159	3076	Duly laminated aluminum foil of mat finish closed cell Nitrile rubber (class 'O') insulation for use on existing duct - 19mmthickness	sq m	50.00	451.53	22576.50	67.73	519.26	93.47	612.73	612.73	30636.50
159	4016	Nitrile rubber (closed cell elastometric nitrile rubber of class 'O') Insulation -19 mm thickness	sq m	50.00	370.68	18534.00	55.60	426.28	76.73	503.01	503.01	25150.50
160	4073	Resin bonded fiber glass insulation of thickness 65 mm on existing pipe	sq m	20.00	1238.68	24773.60	185.80	1424.48	256.41	1680.89	1680.89	33617.80
161	4101	Heat Detectors of electronic Rate of Rise cum fixed temperature (Dual Thermistor) type with mounting base complete with all connection etc.	Each	20.00	750.00	15000.00	112.50	862.50	155.25	1017.75	1017.75	20355.00
161	4102	Smoke Detector with built in LED, mounting base complete with all connection etc.	Each	10.00	812.50	8125.00	121.88	934.38	168.19	1102.57	1102.57	11025.70
162	4103	Manual call boxes of MS Type in surface/recess with stainless steel chain & hammer assembly complete with glass and push button etc.	Each	20.00	300.00	6000.00	45.00	345.00	62.10	407.10	407.10	8142.00
163	4104	Manual call boxes of ABS Type in surface/recess with stainless steel chain & hammer assembly complete with glass and push button etc.	Each	20.00	250.00	5000.00	37.50	287.50	51.75	339.25	339.25	6785.00
164	4105	Response indicator on surface/recessed MS Box having two LED's metallic covers complete with all connections etc.	Each	100.00	90.00	9000.00	13.50	103.50	18.63	122.13	122.13	12213.00
164	4107	Fire alarm sounders (electronic) with facility to make announcement, mounted in A.B.S. Box with hinged cover plate & suitable for operation with amplifier i/c line matching transformer etc.	Each	20.00	312.50	6250.00	46.88	359.38	64.69	424.07	424.07	8481.40
165	4128	Cost of manual call point	Each	150.00	2745.50	411825.00	411.83	3157.33	568.32	3725.65	3725.65	558847.50
166	4131	Cost of fire fighter telephone handset	Each	15.00	4275.00	64125.00	641.25	4916.25	884.93	5801.18	5801.18	87017.70
167	4133	Cost of fire fighter phone jack	Each	5.00	1149.50	5747.50	172.43	1321.93	237.95	1559.88	1559.88	7799.40
167	4135	Cost of 1.5/3/6W Ceiling Speaker	Each	10.00	670.00	6700.00	100.50	770.50	138.69	909.19	909.19	9091.90
168	4137	Cost of wall mounted loud speaker, 3/1.5 Watt in ABS enclosure	Each	10.00	1775.00	17750.00	266.25	2041.25	367.43	2408.68	2408.68	24086.80
169	4144	Cost of Fire Survival armoured cable,Fibre glass tape wrapped, ZH inner, outer sheath 2x1.5 Sq. mm cable.	Metre	100.00	196.20	19620.00	29.43	225.63	40.61	266.24	266.24	26624.00
170	4145	Cost of Fire alarm armoured FRLS cable 2 x 1.5 sqmm	Mtr	100.00	58.20	5820.00	8.73	66.93	12.05	78.98	78.98	7898.00
170	4146	Cost of single pair 2-core 48/0.2 mm, speaker cable	Mtr	200.00	24.64	4928.00	3.70	28.34	5.10	33.44	33.44	6688.00
171	4147	Cost of 25 mm dia MS flexible pipe with PVC coating along with all ancillaries & accessories like coupler etc.	Mtr	100.00	25.00	2500.00	3.75	28.75	5.18	33.93	33.93	3393.00
172	4148	Two pair 0.5 Sq. mm copper twisted cable for talk back system.	Mtr	500.00	8.16	4080.00	1.22	9.38	1.69	11.07	11.07	5535.00
173	4150	Cost of two pair 2-core 48/0.2 mm for PA System(wastage 5%)	Mtr	200.00	49.28	9856.00	7.39	56.67	10.20	66.87	66.87	13374.00
173	4151	Cost of three pair 2-core 48/0.2 mm Speaker Cablefor PA System.(wastage 5%)	Mtr	200.00	73.92	14784.00	11.09	85.01	15.30	100.31	100.31	20062.00
174		DSR For WetRiser and sprinkler System			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
175	4201	Fire Hydrant single outlet gunmetal NB inlet brass spindle 63mm female instantaneous/outlet with PVC blank cap and GI chain as per IS:5290 (ISI Marked).Single head gunmetal hydrant valve	Each	5.00	4685.00	23425.00	702.75	5387.75	969.80	6357.55	6357.55	31787.75
176	4202	Short stainless steel branch pipe 63mm male instantaneous inlet male threaded outlet fitted with 15mm bore nose as per IS:903 (ISI Marked).Single Head Stainless Steel Hydrant Valve	Each	5.00	3547.00	17735.00	532.05	4079.05	734.23	4813.28	4813.28	24066.40
176	4203	Short gunmetal pipe 63mm male instantaneous inlet male threaded outlet fitted with 15mm bore nozzle as per IS:903 (ISI Marked).Gunmetal short branch pipe	Each	5.00	1758.00	8790.00	263.70	2021.70	363.91	2385.61	2385.61	11928.05
177	4209	Synthetic fibre circular woven jacketed rubber lined fire hose delivery having 38Kg. Per Cm. Sq. burst pressure, 28Kg. Per Cm. proof pressure, 14Kg. Per Cm. working pressure as per IS:636 (ISI Marked) Type A in 15 Meters length, 63mm dia dully copper via bounded two coupling pair of male female parts any dully instantaneous use, 63mm size as per IS:903 (ISI Marked).RRL Hose with male female stainless steel coupling	Each	5.00	3292.00	16460.00	493.80	3785.80	681.44	4467.24	4467.24	22336.20
178	4210	Swinging type hose reel complete with 19mm x 30 Mtrs. Thermoplastic hose Type-II	Each	5.00	2043.00	10215.00	306.45	2349.45	422.90	2772.35	2772.35	13861.75
179	4212	Hose reel drum	Each	5.00	2350.00	11750.00	352.50	2702.50	486.45	3188.95	3188.95	15944.75
179	4213	25mm dia gun metal globe valve & nozzle.	Each	5.00	691.00	3455.00	103.65	794.65	143.04	937.69	937.69	4688.45
180	4214	Sprinkler operating at 680 centigrade standard response, standard coverage 15mm BPST, K56 UL listed and FM approved.680 centigrade Pendant Sprinkler	Each	30.00	168.00	5040.00	25.20	193.20	34.78	227.98	227.98	6839.40
181	4329	Cost of 4 Nos. Nuts bolts and washers	Each	30.00	50.00	1500.00	7.50	57.50	10.35	67.85	67.85	2035.50
182	4330	Cost of 1 No. 3 mm thick rubber gasket	Each	30.00	70.00	2100.00	10.50	80.50	14.49	94.99	94.99	2849.70
182	5359	Cost of teflon tape	Each	20.00	20.00	400.00	3.00	23.00	4.14	27.14	27.14	542.80
183	4363	Cost of Packing gaskets	LS	20.00	50.00	1000.00	7.50	57.50	10.35	67.85	67.85	1357.00
184	4364	Cost of 4 Nos. Nut Bolt fastner & packing gaskets	LS	20	90.00	1800.00	13.50	103.50	18.63	122.13	122.13	2442.60
Total												5452686.85
Karnataka PWD Items 2023												
1	1.9	Supplying PVC flexible conduit pipe ... mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300 mm using NF screws and on either end of the pipe terminated completely										
	1.9.1	20 mm	metre	500	19.00	9500.00					19.00	9500.00
	1.9.2	25mm	Metre	500	20.00	10000.00					20.00	10000.00
2	3.8	Supplying 4mm thick plastic sheet with necessary niches for fixing switches, regulators etc, and fixing on existing wooden or metal box using N.F. screws.	Sqcm	50000.00	0.41	20500.00					0.41	20500.00
3	3.9	Supplying and fixing hylum plastic sheet 3mm thick with necessary niches for fixing switches, regulators etc., and fixing on existing wood or metal box using N. F. screws.	Sqm	50000.00	0.35	17500.00					0.35	17500.00

Sr. No.	DSR(E&M) 2022	Details of Items	Unit	Quantity	Rate	Amount	Add CPOH @ 15 %	Rate Incl of CPOH	Add GST@18%	Rate Inclusive of GST		Final Rate	Final Amount	
4	5.1	Supplying push button operated direct online starter with an antiweld silver cadmium oxide contactor with replaceable fixed and moving contacts and bimetallic thermal overload relay help in anticorrosion treated sheet steel or iron clad enclosure and fixing the same to suitable capacity wires for 230/440 V 1/3 phase motor upto 5 HP.	Each	10.00	1924.00	19240.00						1924.00	19240.00	
5	5.2	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 V 3 phase and wired after fixing to the existing wooden board for motor												
	5.2.1	upto 12 HP	Each	10.00	7455.00	74550.00						7455.00	74550.00	
6	6.1	Supplying exhaust fan of 1440 RPM of 300 mm (12") size with bracket blades complete for light duty suitable to operate on 230V 50Hz, AC Supply.	Each	20.00	1492.00	29840.00						1492.00	29840.00	
7	6.2	Supplying of 1440rpm heavy duty exhaust fan with bracket blades suitable to operate on 230V 50Hz, AC Supply complete.												
	6.2.1	12" Sweep (300 mm)	Each	20.00	2969.00	59380.00						2969.00	59380.00	
8	6.4	Supplying of Ceiling Fan with Capacitor rating As per guideline of BEE 5 star rating and IS:374/19 and also comply with IS: 1709/1984 with latest amendment, Rated voltage 220 V/50 Hz, Rated power upto 35 W +/- 10 %, Rated current As per IS:374/19, Rated power factor 0.9 lagging(min), Rated speed 350 +/- 10% RPM, Rated air delivery 210 +/- 10% Cubic Meter Minimum, Rated service value 6.2 CMM / W, Three Blades of blade leaf 1.05 mm thick Aluminium Alloy sheet, Class B motor insulation, Bearing Two ball bearings, Top 6202, Bottom 6201, as per IS specification, Motor winding, Temp rise Shall not exceed 75 deg C over and ambient of 40 OC by resistance method at 245 V, Insulation resistance Shall not be less than Two Mega Ohms (2M Ohms), Leakage current Should not exceed 210 Micro Amp, Power input, W& current, Air Delivery & Fan Speed as per IS:374/2019 with latest amendment, 2year manufacturer Warranty. (BLDC fans)												
	6.4.1	48" Sweep 5 Star (1200 mm)	Each	100.00	2677.00	267700.00						2677.00	267700.00	
9	6.5	Supplying wall mounting fan suitable to operate at single-phase 230v AC. Supply												
	6.5.1	300mm	Each	100.00	2492.00	249200.00						2492.00	249200.00	
10	7.1	Supplying.....litres capacity vertical/horizontal type wall mounting Electrical water heater with 22 SWG copper/SS sheet metal inner Container tinned inside and anticorrosive paint outside and 20 SWG M.S. sheet metal outer cover filled with glass wool between inner and outer container for thermal insulation complete. The inlet and outlet pipes so arranged that water flow inside results in water to flow out from the inner container without turbulence. The Inner container shall have direct immersion type copper tube nickel plate. 2kW capacity element with a neon indicator fitted with 20A capacity 25 to 85 degree Centigrade range thermostat. The water heater shall completely be wired with 40/0.0076 inch 3 core copper flexible wire of 1.5 meters length and the outer container provided with heavy gauge brackets for wall mounting												
	7.1.1	10L	Each	10.00	7564.00	75640.00						7564.00	75640.00	
11		Supplying offeet -PVC Batten with integrated LED tube W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80.Power Input: 220-240V@ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition.												
12	11.11	Supplying & fixing of retrofit type - LED bulb W with OPAL acrylic diffuser comprising of LED source with CCT 6500 degree K, CRI> 70%, efficacy >80 lumen per W, life> 25000 burning hours and compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver integrated in the system, with PF > 0.95, power loss should < 5% of lamp Wage, short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 V. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition.												
	11.11.4	9W, 6500K	Each	2000.00	154.00	308000.00						154.00	308000.00	
13	11.3.2	LED light fitting 1 x 4' - 20/22 W	Each	1000.00	690.00	690000.00						690.00	690000.00	
14	11.5	Supply of round/square recess/surface mounted rolling type LED Down light with W GU 10 LED Lamp Rib Fabricated from diecast aluminium with white powder coated prewired to mains connector & has swivelling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring, with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80.Power Input: 220-240V @50/60Hz & Power factor >0.9 along with CE approved. 2years Warranty against any manufacturing defect working under standard electrical condition												
	11.5.2	LED square or round down light 10-12W	Each	200.00	885.00	177000.00						885.00	177000.00	

Sr. No.	DSR(E&M) 2022	Details of Items	Unit	Quantity	Rate	Amount	Add CPOH @ 15 %	Rate Incl of CPOH	Add GST@18%	Rate Inclusive of GST		Final Rate	Final Amount
15	11.8	Supply of LED streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture withW System Power consumption. LED Efficiency>1301m/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facilities certified by ISO 9001:2000, ISO 14001:2004, ISO 45001:2018.											
	11.8.4	LED Streetlight 90 W	Each	100.00	8860	886000.00						8860.00	886000.00
16	11.9	Supply of LED floodlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate/clear glass material, delivering superior light output Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mauling with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100 V to 270V 50/60Hz application. Compliance to IS 10322/ IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency> 1301m/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL / CPRI & any Government certified agency & Design & Development facilities.											
	11.9.2	LED Floodlight 100W	Each	30.00	9486.00	284580.00						9486.00	284580.00
Total (a)													3178630.00
B= Area Weightage @5% on A													158931.50
Total (C)													3337561.50
ADD GST @ 18%													600761.07
Final Total (E = C+D)													3938322.57
Market Rate Analysis													
Sr. No.	MR	Details of Items	Unit	Quantity	Rate	Amount	Add CPOH @ 15%	Rate Incl of GST	Add GST @ 18%			Final Rate	Final Amount
1	MR	Supplying retrofit type-PL- LED Lamp . 10 W LED linear source with CCT 6500 degree K, CRI> 70% efficacy >80 lumen per W, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The LED are driven by HF electronic driver integrated in the system, with PF > 0.95, power loss should < 5% of lamp Wage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%. Life as per LM 79. The operating input voltage should be between 130 to275 V. Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition.	Each	2000.00	346.00	692000.00	51.90	397.90	71.62			469.52	939044.00
		Total				692000.00							939044.00
Abstract for Supplying of Electrical Items													
Total DSR Items												5452686.85	
Total Amount of KPWD - SR Items												3938322.57	
Total Amount MR Items												939044.00	
TOTAL(DSR+KPWD) - (A)												10330053.42	
GRAND TOTAL												10330053.42	

Name of Work : " Annual Repair and Maintenance (ARMO-Electrical) Works of Medical College and Hospital Building , Hostel Buildings ,Type-I to VI Staff Quarters at ESIC Campus, Kalaburagi"

Electrical Item Works:

Sl No	DSR (E&M) 2022	Description	Unit	Qty	Rate Rs.	Amount Rs.	Rate	Final Amount	Remarks
1	1.53	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed Steel/ PVC conduit as required							
	1.53.1	1 run of cable	Metre	100.00	57.00	5700.00	57.00	5700.00	
	1.53.2	2 run of cable	Metre	100.00	96.00	9600.00	96.00	9600.00	
	1.53.3	3 run of cable	Metre	100.00	134.00	13400.00	134.00	13400.00	
2	2.1	Providing and fixing following capacity TP&N disconnector fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc. as required							
	2.1.2	63 A TP&N	each	2.00	3144.00	6288.00	3144.00	6288.00	
	2.1.4	125 A TP&N	each	2.00	7189.00	14378.00	7189.00	14378.00	
	2.1.6	200 A TP&N	each	2.00	9689.00	19378.00	9689.00	19378.00	
3	2.2	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required							
	2.2.2	125 A, 16 KA,TPMCCB	each	5.00	4821.00	24105.00	4821.00	24105.00	
4	5.4	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required	Set	5.00	7472.00	37360.00	7472.00	37360.00	
5	5.6	Earthing with copper earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required	Set	5.00	13838.00	69190.00	13838.00	69190.00	
6	5.9	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required.(Joining shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Mtr	50.00	144.00	7200.00	144.00	7200.00	
7	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 required	Mtr	20.00	706.00	14120.00	706.00	14120.00	
		FIRE DETECTION AND ALARM SYSTEM							
8	16.4	Supplying, laying/ fixing, testing and commissioning of followingthickness resin bonded fiber glass pipe section insulation havingdensity 80 kg/cum or mineral wool (non combustible) havingdensity of 144 Kg/ cu m duly covered with a layer of 120gm/sqm polythene sheet (vapour barrier) on existing pipe andfinally applying 0.63mm aluminium sheet cladding completewith type3 , grade 1 roofing feltstrip(as per IS:1322 as amendedup to date) at joints etc. as per specifications and as required							
	16.4.1	75mm	sqm	5.00	2997.00	14985.00	2997.00	14985.00	
	16.4.2	65 MM	sqm	5.00	2402.00	12010.00	2402.00	12010.00	
	16.4.3	50mm	sq m	5.00	2639.00	13195.00	2639.00	13195.00	
	16.4.4	40mm	sq m	5.00	2422.00	12110.00	2422.00	12110.00	

9	16.5	Supplying, laying, fixing, testing and commissioning of following thickness closed cell elastometric nitrile rubber of class 'O' applied by suitable adhesive, as per specifications and as required complete in all respect.							
	16.5.1	32mm	sqmm	5.00	1120.00	5600.00	1120.00	5600.00	
10	17.1.5	Supplying, installation, testing & commissioning response indicator on surface/recess MS box having two LEDs metallic cover complete with all connections etc. as required.	Each	72.00	196.00	14112.00	196.00	14112.00	
11	14	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required							
	14.3	65mm dia	Each	5.00	6274.00	31370.00	6274.00	31370.00	
	14.4	80mm dia	Each	5.00	7539.00	37695.00	7539.00	37695.00	
	14.5	100mm dia	Each	5.00	10836.00	54180.00	10836.00	54180.00	
12	15	Providing, installation, testing and commissioning of stainless steel Y-strainer fabricated out of 1.6 mm thick stainless steel, Grade 304, sheet with 3 mm dia holes with stainless steel flange.	Each						
	15.1	80 mm dia	Each	5.00	4573.00	22865.00	4573.00	22865.00	
	15.2	100mm dia	Each	5.00	6450.00	32250.00	6450.00	32250.00	
13	16	Supplying and fixing 63 mm dia, 15 m long RRL hose pipe with 63 mm dia male and female couplings duly bound with GI wire, rivets etc. conforming to IS 636 (type-A) as required :							
		Gun Metal	Set	5.00	5188.00	25940.00	5188.00	25940.00	
14	18	Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required :							
	18.1	Gun metal	Set	10.00	2402.00	24020.00	2402.00	24020.00	
		TOTAL				521051.00		521051.00	
KPWD Schedule Rates 2023-24 (BANGALORE CIRCILE)									
Sl No	Ref No.	Description	Unit	Qty	Rate Rs.	Amount Rs.	Rate	Final Amount	
1	2.3	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:2010							
	2.3.2	1.5 sqmm	mtr	1000.00	26.00	26000.00	26.00	26000.00	
	2.3.3	2.5 Sqmm	mtr	1000	42	42000.00	42.00	42000.00	
	2.3.4	4 Sqmm	mtr	1000.00	63.00	63000.00	63.00	63000.00	
2	SR/P5.1	Supplying push button operated direct online starter with an antiweld silver cadmium oxide contactor with replaceable fixed and moving contacts and bimetallic thermal overload relay help in anticorrosion treated sheet steel or iron clad enclosure and fixing the same to suitable capacity wires for 230/440 volts 1/3 phase motor upto 5 HP.	Each	10.00	1927.00	19270.00	1927.00	19270.00	
3	SR/P5.3	Supplying and fixing single phase preventer using necessary wires over an existing panel board suitable for motor up to 20 HP capacities.	Each	35.00	904.20	31647.00	904.20	31647.00	
4	SR/P5.11	Supplying of on load change over switches 4 poles, AC23A Duty, 415V, 50Hz, AC Supply. (Open Execution)	Each						
	5.11.1	Up to 63Amps	Each	2.00	5480.00	10960.00	5480.00	10960.00	
	5.11.2	100Amps	Each	2.00	7090.00	14180.00	7090.00	14180.00	
	5.11.3	125Amps	Each	2.00	10326.00	20652.00	10326.00	20652.00	

5	5.14	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.	Each						
	5.14.2	32 Amps	Each	10.00	4090.00	40900.00	4090.00	40900.00	
	5.14.5	65A	Each	10.00	10141.00	101410.00	10141.00	101410.00	
	5.14.8	120Amp	Each	10.00	22579.00	225790.00	22579.00	225790.00	
6	5.15	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts, necessary phase separators, handle and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS13947. (Icu=lcs)							
		THREE POLE	Each						
	5.15.1	100Amps 25kA	Each	5.00	6086.00	30430.00	6086.00	30430.00	
	5.15.2	125Amps 25kA.	Each	5.00	8598.00	42990.00	8598.00	42990.00	
		FOUR POLE	Each						
	5.15.9	100Amps 25kA	Each	5.00	8487.00	42435.00	8487.00	42435.00	
	5.15.10	125Amps 25kA	Each	5.00	10341.00	51705.00	10341.00	51705.00	
7	5.21	Supplying, fixing and wiring earth leakage relay with core balanced current transformer suitable for single phase 50 Hz AC with latest microcontroller based, digital readout of percentage leakage current, programmable delay/auto/ manual reset facility suitable to mount on DIN rail/ flush mounting on panel board.	Each	5.00	9255.00	46275.00	9255.00	46275.00	
8	5.25	Supplying, fixing and wiring 0 to 100 amps Direct Reading AC analog type Ammeter	Each	10.00	524.00	5240.00	524.00	5240.00	
9	5.26	Supplying, fixing and wiring 0 to 1500amps CT operated AC analog type Ammeter without CT	Each	10.00	480.00	4800.00	480.00	4800.00	
10	5.29	Supplying, fixing and wiring 3 Phase Digital Ammeter / Voltmeter	Each	20.00	1425.00	28500.00	1425.00	28500.00	
11	5.32	Supplying and fixing digital frequency meter with latest micro controller technology, ultra bright 4 digit LED display, from 30-500V AC and optional or relay output for high/low frequency and wiring complete.	Each	10.00	975.00	9750.00	975.00	9750.00	
12	5.33	Supplying of multi function digital meter with three line back light LCD type display for voltage, Current, frequency, Power, power factor, KVA, KWH, KVAR suitable for 3 phase, 4 wire LT network with IP 54 degree of protection and completely wired as required with communication Port and Class 0.5s accuracy	Each	5.00	9315.00	46575.00	9315.00	46575.00	
13	5.34	Supplying, fixing and wiring 50/5 to 400/5Amps 5VA burden Current Transformer Class 0.5 accuracy with Tape Wound.	Each	50.00	562.00	28100.00	562.00	28100.00	
14	5.38	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 230/440VAC. 50 Hz 12/24V D.C.	Each	20.00	515.00	10300.00	515.00	10300.00	
	12.4	Rewinding a ... mm ceiling fan/after using necessary gauge annealed and insulated copper wire with necessary insulating, separators vibration arresting shellac, etc including replacement of bearings if any transportation to and from the spot to workshop inclusive of releasing the refixing							
	12.4.3	1200mm	Each	1000.00	765.00	765000.00	765.00	765000.00	
	13	Rewinding of submersible pumpset with finolex winding wires of appropriate Gauge, as per specifications and / or directions of the departmental officials, including all materials, labour, equipment and testing. for all types of submersible pumpsets etc. for							
	13.1.1	For all types of submersible pumpsets upto 3.0 H.P.	Each	20.00	2710	54200.00	2710.00	54200.00	

13.1.3	For all types of submersible pumpsets above 5.0 HP and upto 5.5H.P.	Each	20.00	3116	62320.00	3116.00	62320.00	
13.1.7	For all types of submersible pumpsets above 7.0 HP and upto 7.5H.P.	Each	30	3839	115170.00	3839.00	115170.00	
13.1.13	For all types of submersible pumpsets above 10 HP and upto 11 H.P.	Each	30	5157	154710.00	5157.00	154710.00	
11.6	Supplying of recess mounting non integral type LED w luminaire comprising of pressure decast/extruded aluminium housing, with spring loaded false ceiling clamps, Power LEDs with CCT 6500 degree K, CRI> 70%. efficacy > 100 lumen per W, 120degree beam spread, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The lamp compartment is enclosed with anti glare opal diffuser which enhances the lighting level LEDs are driven by HF electronic driver integrated in a separate control gear assembly., with PF > 0.95, power loss should< 5% of lamp Wage., short circuit & open circuit protection to be integrated in the circuit, HD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 V. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition.	Each						
11.6.3	LED modular down light 2'x2' 36 W	Each	500.00	4553.00	2276500.00	4553.00	2276500.00	
	Total -B						4370809.00	
	Area weightage @5%						218540.45	
	Total						4589349.45	
	Gst @18%						826082.90	
	Total						5415432.35	
	GRAND TOTAL -(A+B)						5936483.35	