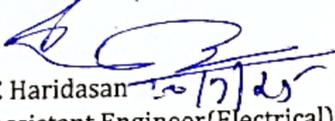
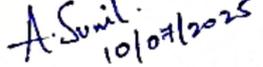


## ABSTRACT ESTIMATE OF ARMO/AMC Electrical works

NAME OF WORK : Annual Repairs, Maintenance and Operation (ARMO) Electrical works and AMC/CAMC of Electromechanical Equipments in ESIC Super Speciality Hospital ,Sanathnagar, Hyderabad, Telangana for the year 2025-26.

S.No.	Description	Amount in Rs.
1	Manpower Estimate for Operation and maintenance of E&M Services	₹ 18,094,763.00
2	Electrical Materials Estimate	₹ 1,928,014.00
3	Electrical Item works estimate	₹ 1,564,423.00
4	CAMC/AMC Services	₹ 3,656,543.20
	Total	₹ 25,243,743.20
	Add Contingency @3%	₹ 757,312.30
	<b>Total Estimate of ARMO Electrical and AMC of Electromechanical Equipments</b>	<b>₹ 26,001,055</b>

  
 C Haridasan  
 Assistant Engineer (Electrical)  
 RO Telangana

  
 A Sunil Kumar  
 Junior Engineer (Electrical)  
 ESIC MCH Sanathnagar

**Manpower Estimate for Operation and maintenance of E&M Services**

Name of Service: **Deployment of Manpower for Day to Day Maintenance of Electrical & Civil Services of ESIC Super Speciality Hospital, Sanathnagar during the period 2025-26 (One Year)**

S.No.	Name of the Profile / Designation	Qty. (in No's)	Category	No. of Working Days in a Month	Duration of Employment (in Months)	Minimum Daily Wage in Rs. (Per Day)	EPF Employer Contribution on maximum ceiling limit of Rs. 15000/- per month (15000*0.1376) (Per Day)	ESI (Employer Contribution (Per Day) (Le E=0.0325))	Bonus (Per Day) (Le. E=0.0833)	Retiver Charges per person (per day)	Leave Wages per day (15CL 8NH/1H)	Sub Total Amount in Rs. (Le Sum of E, F, G, H, I, J) (Per Day)	Service Charges @15% on K (Per Day)	Sub Total Amount in Rs. (Le Sum of K & L) (Per Day)	GST @18% on M (Per Day)	Sub Total Amount in Rs. (Le Sum of M & N) (Per Day)	Sub Total Amount in Rs. (Le C+O) (Per Month)	Sub Total Amount in Rs. (Le D+P) (Per Year Per Person)	Sub Total Amount in Rs. (Le A+Q) Per Year for Required Persons as mentioned as Q9.)
1	Deployment 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 arising related to fittings / fixtures in the campus such as switches, sockets, switch boards, LT Panels, MCCBs, MCBs, MCCBs, MCCBs, SFUs, PSUs etc. and all types of fans / light fittings, OIL lines, TG cables etc. complete all as directed by the Dean. (04 Nos.) (Qualification: Diploma in Electrical Engineering with 10 years related experience (Supervisory in maintenance job) with valid 33KV Supervisor permit / certificate) (Highly Skilled)	4	Highly Skilled	26	12	1065	75.00	0	0.00	177.50	76.51	1396.01	159.75	1555.76	280.04	1835.80	47730.71	572761.46	2291073.04
2	Deployment of 33KV / 11KV / 415V Substation Attendant Cum Dc Operator for day to day operation of substation equipment and Dc Sets etc. complete all as directed by the Dean. (03 Nos.) (Qualification: B.E / B. Tech / Diploma certificate with 03 years' experience in operation of 33KV / 415V Switchyard & Substation and equipment and Dc Sets along with valid 33KV Supervisor permit / certificate) (Highly Skilled)	3	Highly Skilled	26	12	1065.00	75.00	0.00	0.00	177.50	76.51	1396.01	159.75	1555.76	280.04	1835.80	47730.71	572761.46	1718305.30
3	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. (04 Nos.) (Qualification:ITI Certificate with 05 years experience in day to day operation of HVAC equipment) (Highly Skilled)	4	Highly Skilled	26	12	1065.00	75.00	0.00	0.00	177.50	76.51	1396.01	159.75	1555.76	280.04	1835.80	47730.71	572761.46	2291073.04
4	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, MCCBs, MCCBs, SFUs, PSUs etc. and all types of fans / light fittings, OIL lines, TG cables etc. complete all as directed by the Dean. (04 Nos.) (Qualification: ITI Electrician certificate with 3 years related experience along with wiremen permit)	4	Skilled	26	12	981.00	75.00	0.00	0.00	163.50	72.32	1291.82	147.15	1438.97	259.01	1697.98	44147.52	529770.20	2119080.82
5	Deployment of Lin Operator for day to day operation of Lites like checking of Lites condition, to carry out minor services to make it in proper working condition etc. complete all as directed by the Dean. (04 Nos.) (Qualification: Trade certificate with 03 years experience in operation and maintenance of Lites) (Skilled)	4	Skilled	26	12	981.00	75.00	0.00	0.00	163.50	72.32	1291.82	147.15	1438.97	259.01	1697.98	44147.52	529770.20	2119080.82
6	Deployment of Firefighting Technician for day to day operation of Firefighting / Fire Alarm system equipment etc. complete all as directed by the Dean. (04 No's) (Qualification: Fire safety diploma with 03 years experience in day to day operation of Firefighting / Fire Alarm system equipment) (Skilled)	4	Skilled	26	12	981.00	75.00	0.00	0.00	163.50	72.32	1291.82	147.15	1438.97	259.01	1697.98	44147.52	529770.20	2119080.82
7	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. (6 Nos.) (Qualification: Nil) (Unskilled)	6	Un Skilled	26	12	805.00	75.00	26.16	0.00	67.06	59.34	1166.73	147.15	1313.88	231.75	1545.63	39499.84	473998.13	2843980.76
8	Deployment of STP & ETP Technician 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)	4	Skilled	26	12	981.00	75.00	0.00	0.00	163.50	72.32	1291.82	147.15	1438.97	259.01	1697.98	44147.52	529770.20	2119080.82
9	Deployment of unskilled Labour / Helper for helping the Highly Skilled / Skilled workers in day to day operation of STP & ETP complete all as directed by the Dean. (1 Nos.) (Qualification: Nil) (Unskilled)	1	Un Skilled	26	12	805.00	75.00	26.16	0.00	67.06	59.34	1166.73	147.15	1313.88	231.75	1545.63	39499.84	473998.13	2843980.76

N. Sankar

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Total Amount in Rs. (₹)	18094763.21
Grand Total Amount in Rs.	18094763

Revised VDA as per CLC guidelines, wherever applicable will be reimbursed on actual from time to time on submission of documentary proofs. Estimate has been prepared considering minimum wages in accordance with Ministry of Finance, Govt. of India OM dated: 28/03/2025 including CP & OH charges of 15%

  
 C. Manoj  
 Assistant Engineer (Electrical)  
 RO Telangana

  
 A. Sunil  
 (A. Sunil Kumar)  
 Junior PMO (Electrical)  
 PMO Branch

ARM Electrical Material for 2025 - 26 for ESIC Super Speciality Hospital at Sanathnagar, Hyderabad						
S. No	DSR/SSR	Description of Items	Qty	Rate/Unit	Unit	Amount
<b>Supply &amp; fixing on demand with available Site Labour</b>						
<b>Rate/Unit : DSR-2022 Material+ Cost Index-10.28% , CP &amp; OH-15% , LWC-1% , GST-18% = Base Rate* 1.5115</b>						
	DSR-22	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required.				
1	1101.00	3 x 1.5 sq. mm	440	82	Mtr	36080
2	1102.00	3 x 2.5 sq. mm	440	127	Mtr	55880
3	1103.00	3 x 4.0 sq. mm	800	190	Mtr	152000
4	1104.00	3 x 6.0 sq. mm	300	286	Mtr	85800
5	1408.00	Stepped type Modular Fan regulator	30	333	Each	9990
6	1407.00	Modular bell push, ISI marked	20	94	Each	1880
7	1452.00	PVC Batten /Angle Holder	50	33	Each	1650
8	1421.00	Modular base & cover plate for 2 modules	30	63	Each	1890
9	1422.00	Modular base & cover plate for 3 modules	60	85	Each	5100
10	1423.00	Modular base & cover plate for 4 modules	20	92	Each	1840
11	1424.00	Modular base & cover plate for 6 modules	80	119	Each	9520
12	1425.00	Modular base & cover plate for 8 modules	50	153	Each	7650
13	1426.00	Modular base & cover plate for 12 modules	50	222	Each	11100
14	1300.00	Modular GI Box for 2 Module	30	50	Each	1500
15	1301.00	Modular GI Box for 3 Module	60	62	Each	3720
16	1302.00	Modular GI Box for 4 Module	20	73	Each	1460
17	1303.00	Modular GI Box for 6 Module	80	112	Each	8960
18	1304.00	Modular GI Box for 8 Module	50	136	Each	6800
19	1305.00	Modular GI Box for 12 Module	50	172	Each	8600
20	1401.00	Ceiling rose, 3 Pin , 5Amps ISI marked	40	30	Each	1200
21	1402.00	S.P 5/6Amps, One way modular switch, ISI Marked	100	51	Each	5100
22	1403.00	S.P 5/6Amps, Two way modular switch, ISI Marked	25	103	Each	2575
23	1404.00	S.P 15/16 Amps, one way modular switch, ISI Marked	80	112	Each	8960
24	1405.00	3 Pin 5/6Amps socket outlet , ISI marked	100	95	Each	9500
25	1406.00	6 Pin 15/16 Amps socket outlet , ISI marked	200	159	Each	31800
26	1718.00	40A rating 2 pole RCCB, 30mA	15	2905	Each	43575
27	1719.00	63A rating 2 pole RCCB , 30mA	15	2996	Each	44940
28	1721.00	40A rating 4 pole RCCB, 30mA	15	3461	Each	51915
29	1722.00	63A rating 4 pole RCCB , 30mA	15	3102	Each	46530
30	2932.00	250mm x 200mm HT danger notice Plate	5	109	Each	545
31	1738.00	6 Way, SPN, double door, MCB DB	5	2036	Each	10180
32	1739.00	8 Way, SPN, double door, MCB DB	5	2455	Each	12275
33	1740.00	12 Way, SPN, double door, MCB DB	5	2160	Each	10800
34	1754.00	4 way(4+12), TPN, MCB DB, double door, Horizontal type	5	4099	Each	20495
35	1755.00	6 way(4+18), TPN, MCB DB, double door, Horizontal type	3	5106	Each	15318
36	1756.00	8 way(4+24), TPN, MCB DB, double door, Horizontal type	2	6239	Each	12478
37	1761.00	8 way (4+24), TPN Vertical type, MCB DB, Double door	2	11029	Each	22058
38	4400.00	Base Price for 1200mm sweep BLDC ceiling fan with all accessories, fittings, supports	30	2872	Each	86160
39	1706.00	6A to 32A ratings SP MCB C Curve, 10KA breaking capacity	40	204	Each	8160
40	1708.00	6A to 32A ratings DP MCB C Curve, 10KA breaking capacity	50	661	Each	33050
41	1710.00	6A to 32A ratings TPN MCB C Curve, 10KA breaking capacity	40	1313	Each	52520
42	1730.00	20 amps, SPN industrial type socket outlet, with plug top and metal chained cover in steel sheet enclosure	20	1028	Each	20560
43	1732.00	30 amps, TPN industrial type socket outlet, with plug top and metal chained cover in steel sheet enclosure	15	3238	Each	48570
44	4214.00	Supply of 15mm dia quartzoid bulb type sprinklers of rating 68 degree centigrade with required accessories :	20	254	Each	5080
45	4233.00	Adjustable rosette Plate for 15mm dia(Powder coated)	20	121	Each	2420
<b>Sub Total-I</b>						<b>1018184</b>
Rate/Unit: DSR-2025 Volume -II rates						

A. Sani  
10/07/2025

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46	4234.00	<p>Supplying of Panel light 2x2 ft., of following body material and construction as per IS : 10322 with driver as per the requirement with Driver efficiency &gt;85%, Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short &amp; Open circuit protection, THD &lt; 10% , P. F.≥0.95, IP20, CRI &gt;80, UGR (Unified Glare Rating) &lt; 19, Flicker free, (flicker should be below 5 %), life time (LED,Driver &amp; electrical circuitary), of minimum 50000 Burning Hours with, 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K / 6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) &lt;3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate ( T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing, complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 &lt;120 lm/Watt output . LM79 &amp; LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by</p>	150	1625	Each	243750
47	4270	<p>Supplying of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency &gt;85% , Operating voltage AC 140-270 Volt, freq 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short &amp; Open circuit protection ,THD &lt; 10% , P. F.≥0.95, IP20, CRI &gt;80, Flicker free, (flicker should be below 5 %), life time (LED,Driver &amp; electrical circuitary), of minimum 50000 Burning Hours with , 70% of initial Lumen maintained till life ends, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin), SDCM(Standard Deviation Color Matching) &lt;3, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard and trade mark certificate ( T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing, complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 &lt;120 lm/Watt output . LM79 &amp; LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement</p>	150	334	Each	50100
48	4303	<p>Supplying of Street light LED fixture powder coated pressure die cast aluminium body with driver as per the requirement with Driver efficiency &gt;85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency &gt;85%,THD &lt; 10% as per IEC 61000-3-2 , P. F.≥0.95, IP-66,IK-10, CRI &gt;80, under voltage and over voltage protection, EMI-EMC As per CISPR -15, lenses for beam angle as per IESNA type I/II/III as per the width of the road and the project requirement., suitable to fit in up to 65mm dia pipe, life time (LED,Driver &amp; electrical circuitary) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6000°K/6500°K (As per ANSI Bin),SDCM(Standard Deviation Color Matching) &lt;5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 &lt;120 lm/Watt output . LM79 &amp; LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. Thermal management: heat sink of</p>	20	1200	Each	24000

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49	4351	<p>Supplying of Flood Light, powder coated pressure die cast aluminium body with built in or separate driver as per the requirement with Driver efficiency &gt;85%, Input voltage: 140-270 Volt AC, freq 50/60 hz, Operating temp range -15 deg to 50 deg centigrade, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency &gt;85%, THD &lt; 10% as per IEC 61000-3-2 , P. F.≥0.95, IP-66, IK-10, CRI &gt;80 , under voltage and over voltage protection, EMI-EMC as per CISPR -15 , lenses for beam angle 30 deg-120deg as per the application and the project requirement deg. , suitable tilt able fitting, life time (LED, Driver &amp; electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K / 6000°K/6500°K (As per ANSI Bin) , SDCM (Standard Deviation Color Matching) &lt;5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy 105 &lt;120 lm/Watt output . LM79 &amp; LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C).- 150W</p>	20	2100	Each	42000
50	4204	<p>Supplying of LED Recessed/ surface Down lighter (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency &gt;85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short &amp; Open circuit protection , THD &lt; 10% , P. F.≥0.95, IP20, CRI &gt;80 , UGR (Unified Glare Rating) &lt; 19, Flicker free (flicker should be below 5%), life time (LED, Driver &amp; electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends , CCT 3000°K / 4000°K / 5700°K / 6000°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) &lt;3, Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 and &lt;120 lm/Watt output . LM79 &amp; LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C) --- 15W</p>	50	434	Each	21700
51	4203	<p>Supplying of LED Recessed/ surface Down lighter (Round/ square/ Rectangular) SMD type of following body material with PMMA and prismatic diffuser and construction as per IS : 10322 with driver as per the requirement with Driver efficiency &gt;85%, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -15 deg to 40 deg centigrade, internal surge protection of 2.5 KV with Short &amp; Open circuit protection , THD &lt; 10% , P. F.≥0.95, IP20, CRI &gt;80 , UGR (Unified Glare Rating) &lt; 19, Flicker free (flicker should be below 5%), life time (LED, Driver &amp; electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends , CCT 3000°K / 4000°K / 5700°K / 6000°K / 6500°K (As per ANSI Bin), SDCM (Standard Deviation Color Matching) &lt;3, Maximum power consumption should not more than the specified rating and Fixture shall be confirming to relevant BIS standards and trade mark certificate (T.C.). Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing Complete in all respect i/c connections with 1.5 sq mm FRLS, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy ≥105 and &lt;120 lm/Watt output . LM79 &amp; LM80 Test report from NABL lab for all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C) --- 15W</p>	100	299	Each	29900
<b>SubTotal- II</b>						<b>411450</b>

A. Sunit

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Rate/Unit: Base SSR Rate +CP & OH -15% + 1% Labour cess+ GST-18% = Base Rate* 1.37						
52	ELEC-1.2.5.c	Supply of 32 x 16 mm width and height Casing and Caping with all accessories such as Ts, Bends, Elbows etc., complete for finished item of work. Makes : Modi with ISI or its equivalent make as approved by the department	250	63	Each	15750
53	ELEC-1.2.5.b	Supply of 25 x 12 mm width and height Casing and Caping with all accessories such as Ts, Bends, Elbows etc., complete for finished item of work. Makes : Modi with ISI or its equivalent make as approved by the department	100	66	Each	6600
54	ELEC-1.6.3	Supply of 3 Core 4.0 Sqmm Flat Copper cable as per IS 694:1990 for Submersible Motors. Makes : Finolex / RR Kabel / Havells / Nakoda	250	254	Each	63500
55	ELEC-1.2.1.b	Supply of ISI 25mm-outer dia medium grade with IS:9537 part 3 rigid PVC pipe. Makes : Sudhakar / Finolex / Modi / VIP / Precision / Universal / Million Plast / DEC / Beljin	600	62	meter	37200
56	ELEC-1.2.8.b	Supply of 25mm dia Medium grade PVC Bends. Makes : Sudhakar / Finolex / Modi / VIP / Precision / DEC / Beljin	300	16	Each	4800
57	ELEC-1.2.6.b	Supply of 25mm PVC Junction Boxes Normal. Makes : Sudhakar / Finolex / Modi / VIP / Precision DEC / Beljin	150	48	Each	7200
58	ELEC 1.1.11.b	Supply of 25mm Saddles with Base.	300	4	Each	1200
59	ELEC-10.1.15	PVC / Cotton Insulation tape Role ( 10 Mtrs)	150	36	Each	5400
60	ELEC-10.1.33	11 KV Hand Gloves	2	1150	Each	2300
61	ELEC-10.2.7	Shock instruction chart in English / Hindi / Telugu duly framed with front glass.	10	940	Each	9400
62	ELEC-1.2.3.b	Supply of 25 mm SWR reinforced Flexible Conduit Pipe.Make: Precision or its equivalent	100	30	Mtr	3000
	ELEC-4.1.1	Supply of following size 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 / Olivin / Finecab / RPG / V - Guard / Orbit / Fortune Arrt / Gemscab / Bonton / SPM / Unistar / Windsor/ Avocab / Pawancab / Nakoda / Suncab				
63	4.1.1.e	10 Sqmm 4 Core	50	343	Mtr	17150
64	4.1.1.f	16 sq mm 4 core	100	384	Mtr	38400
65	4.1.1.i	50sqmm 3.5core	100	781	Mtr	78100
66	ELEC 10.1.25	Cable route Indicators of size 152mm round / 102mm x 102mm / 152mm x 152mm	20	170	Each	3400
67	ELEC 10.1.26	40 mm x 40 mm x 6 mm angle iron with 1 bolt.	20	477	Each	9540
68	ELEC 10.1.32	First Aid box 18" x 12" x 8"	5	2072	Each	10360
69	ELEC-9.1.5.a	Supply of Cat 6 RJ-45 information outlets including Dual face Plate. Makes : D Link / AMP / Molex / Legrand / Krone.	15	535	Each	8025
70	ELEC-10.4.8	Supply of 6mm thick MS Chekered plate	45	133	Kg	5985
71	ELEC-2.13.1.i	Supply of 63A, 10 kA, C/D Curve ISI Mark.Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / LK (L&T) Exora / Crabtree / Indo Asian / BCH- Four Pole	15	4317	Each	64755
72	ELEC-2.13.1.i	Supply of 63A, 10 kA, C/D Curve ISI Mark.Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / LK (L&T) Exora / Crabtree / Indo Asian / BCH -- Three Pole	5	3255	Each	16275
	ELEC-1.7.1	Supply of following rating Plug top including Connections Complete as required Make: GM G Home/Gold Medal Olive/ Million Zoom/ Great white Omega/HPL/Vimal/CPL				
73	f	3 pin 6 A Plugtop	50	55	Each	2750
74	k	3 pin 16 A Plugtop	50	77	Each	3850
75	ELEC-5.1.16	Supply of 12", 900 RPM Heavy duty exhaust fan with metallic blades. Makes : Crompton / Almonard / Havells Turbo Force SP	20	3922	Each	78440

		Sub Total-III				493380
76	LS	Sundry Items of cotton, jute, cleaning cloths, sand paper etc as required	1	5000.00	Lot	5000
		SubTotal -I + Sub Total-II+Sub Total-III + Sl.No-76				1928014
		Total Estimated amount				1928014

*A. Sunil 10/02/2025*  
A Sunil Kumar  
Junior Engineer(Electrical)  
ESIC MC&H Sanathnagar

*C Handasan 10/02/2025*  
C Handasan  
Assistant Engineer(Electrical)  
RO Telangana

ARM Electrical Items for 2025 - 26 for ESIC Super Speciality Hospital at Sanathnagar, Hyderabad						
S. No	DSR/SSR	Description of Items	Qty	Rate/Unit	Unit	Amount
Rate Unit: Basic SSR rate + CP&OH-15%+ 1% Labour-cess+ GST 18% = Base SSR Rate * 1.37						
1	ELEC-5.13.3	Repair and rewinding of ceiling fan / exhaust fan / Wall Mounted fan/ Cabin fan/Pedestal fan including minor repair, Lubrication of ball bearing, bush bearing and replacing of condenser, screws, etc., testing of fan for original speed as complete as required	100	1014	Each	101400
2	ELEC-11.6.3	Refilling of Fire extinguisher of 6Kg ABC type by dismantling from site to work shop for refilling includes removing of existing powder and cleaning the cylinder, delivery pipe, nozzle internally and refilling new powder complete with reinstalling properly at site with necessary certificate including transportation and labour charges -6kg	45	308	each	83160
3	ELEC-11.6.4	Refilling of Fire extinguisher of 4.5Kg CO2 type by dismantling from site to work shop for refilling includes removing of existing powder and cleaning the cylinder, delivery pipe, nozzle internally and refilling new powder complete with reinstalling properly at site with necessary certificate including transportation and labour charges- 4.5Kg	4	240	kg	4320
4	ELEC-11.6.4	Refilling of Fire extinguisher of 9Kg CO2 type by dismantling from site to work shop for refilling includes removing of existing powder and cleaning the cylinder, delivery pipe, nozzle internally and refilling new powder complete with reinstalling properly at site with necessary certificate including transportation and labour charges- 9Kg	10	240	kg	21600
5	ELEC-11.6.3	Refilling of Fire extinguisher of 9 Kg ABC type by dismantling from site to work shop for refilling includes removing of existing powder and cleaning the cylinder, delivery pipe, nozzle internally and refilling new powder complete with reinstalling properly at site with necessary certificate including transportation and labour charges -9kg	37	308	kg	102564
6	ELEC-8.14.1.a	Supply and erection of 0-500V Digital Voltmeter on existing panel board including connections etc., complete. MAKES : CONZERVE / ELMEASURE / LK (L&T) / SEIMENS	15	3324	each	49860
7	ELEC-8.14.2.a	Supply and erection of 0-100 / 200 / 400 / 600 / 1000 Digital Ammeter of size 96x96mm on existing panel board including connections etc., complete. MAKES : CONZERVE / ELMEASURE / LK (L&T) / SEIMENS	15	3324	each	49860
8	ELEC-8.14.4	Supply and erection of Digital power factor meter, 3 phase, 4 wire balanced or unbalanced load 5A, 415V of size 96 x 96mm on existing panel board including connections etc., complete. MAKES : CONZERVE / ELMEASURE / LK (L&T) / SEIMENS	10	4153	each	41530
9	ELEC-8.14.6.b	Supply and erection of LED indication lamps on the existing panel board. Makes : LK (L&T) / C&S / SALZAR / HPL / Siemens	60	226	each	13560
	ELEC-5.4.1	Supply & Fixing of D O L Starter 250V, Single phase, 50Hz. With Sheet Steel enclosure comprising of contactor with bi-metallic relay with neceSheet Steellary push buttons, etc., complete suitable ---- - Makes Siemens / LK (L&T) / BCH				
10	a	Upto 3HP	3	3289		9867
11	b	upto 7.5Hp	2	3975		7950
12	ELEC-5.7.1	Supply, Transportation and Installation of 1 HP Single phase open well ISI submersible motor pumpset. Makes. Texmo / CRI / KSB / Aryenvarsha /Lubi/ Falcon	1	23300	Each	23300

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13	ELEC-6.7.15	Split AC servicing Complete servicing of 1.0 - 2.0 TR AC unit with cleaning the condenser cooling Coil etc., by blower and oiling the Fan Motor and Cleaning all parts and putting the machine in working condition. ( 26 Nos AC x 2 times in a year = 52)	52	754	Each	39208
15	ELEC-6.7.21	Gas Charging of Split AC. Flushing the line, leak testing, leak stopping, vacuuming, dehydrating and charging the gas in the refrigeration system for 1.5 / 2.0 Ton Split A.C. Unit	26	3235	Each	84110
16	ELEC-6.7.13	Air filter suitable for 1.0 to 2.0 Ton Split A.C. Unit P.V.C. / NYLON	26	658		17108
17	ELEC 6.10.14	Supply and fixing of trap door for AHU / FCU in existing false ceiling duly made from 12 mm thick laminated board, hinged with wooden frame of cheed wood size 50mm x 80 mm, frame suspended with MS strip of 25 x 6 mm with anchor fastener minimum 8 supports from ceiling, hinges, locking arrangements etc., as required.	25	7100	SQM	177500
18	ELEC 8.15.18	Powerquality Analysis: Carrying out power quality analysis of the existing load at point of supply/ or as directed with the use of necessary equipment ( At 10 points) and recording voltage, current, frequency, KW, KVA, KVAR, PF, THDV, THDI, Load imbalance, preparation and submission of detailed analysis report with remedial measure. Note 1: Above job is carriedout irrespective of measurements at various electrical panels/ load centers (Upto 10 pts) Note 2: For estimating, one day shall be considered number of hours of one normal working day and it should be actual time required for measurement at site.	1	43214	Day	43214
<b>Subtotal-I</b>						<b>870111</b>
Rate/unit: DSR-22 Basic item rate + MF for GST(0.0633) + 1% Labour cess+ Cost Index-10.28% = Basic rate*1.184						
16.5		Removing, 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 (The Old insulation removed shall be stacked properly and shall be taken away from Campus is included in this item)				
19	16.5.1	32 mm	30	1326.00	sq.m	39780
20	16.5.2	19 mm	25	788.00	sq.m	19700
21	18.16.2	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-Stainless Steel Grade 304	10	5266	each	52660
22	7.7.1	Laying of XLPE insulated, 1100V grade armoured aluminium cable up to 35 Sq MM size clamped with 1 mm thick saddles	100	88.8	Mtr	8880
23	16.23.1	Supplying and fixing of 19 mm thickness duly laminated aluminum foil of mat finish closed cell Nitrile rubber (class "O") insulation on existing duct after applying two coats of cold setting adhesive (CPRX compound). The joints shall sealed with 50 mm wide and 3 mm thick self adhesive nitrile rubber tape insulation complete as per specifications and as required (The Old insulation removed shall be stacked properly and shall be taken away from Campus is included in this item)	25	1027	Sq.M	25675
<b>Subtotal-II</b>						<b>146695</b>
24	RA	Removing & lowering Repair & Rewinding and reinstallation of 3H P/5 H P Submersible water pumps including replacement of bushes, grinding of Shaft, replacement of bearings, Oil seals, Impellers, flange connections, nut bolts etc., required for making pump into Operational Complete as required.	2	11617.00	Each	23234

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25	RA	Removing from the bore well & lowering to bore well, Repair & Rewinding and reinstallation of up to 5 H P Bore well water pumps including replacement of bushes grinding of Shaft, replacement of bearings, Oil seals, impellers, flange connections, nut bolts etc., required for making pump into Operational Complete as required.	2	17088.00	each	34176
26	RA	Removing from the bore well & lowering to bore well, Repair & Rewinding and reinstallation of above 5 H P to 25 Bore well water pumps including replacement of bushes, grinding of Shaft, replacement of bearings, Oil seals, impellers, flange connections, nut bolts etc., required for making pump into Operational Complete as required.	2	18212.00	each	36424
27	RA	Supply and Transportation, erection, testing and commissioning of star rated Three phase ISI submersible motor pumpset suitable for 6" Bore well. Makes: Texmo / CRI / KSB / Aryenvarsha / Lubi / Falcon of following capacity				
		7.50 HP 12-16 /20-25 Stage	3	88777.00		266331
	RA	Dismantling, Supplying and fixing of following capacity dry type lead acid (SMF) sealed maintenance free battery for lifts in fully charged condition at various locations of ESIC MCH campus complete with warranty for 24 months i/c testing, Commissioning etc., and credit buy-back of Old Batteries as required				
28		12 Volts 160 AH Battery (DG Set)	6	20138.00	Each	120828
29		12 Volts 7 AH Battery (lift ARD)	36	900.00	Each	32400
30	RA	Refilling of Fire extinguisher of 9 Litre water type by dismantling from site to work shop for refilling includes removing of existing water and cleaning the cylinder, delivery pipe, nozzle internally and refilling new water with reinstalling properly at site with necessary certificate including transportation and labour charges	35	1052.00	each	36820
31	RA	Refilling of Fire extinguisher of 9 Kg Foam type by dismantling from site to work shop for refilling includes removing of existing foam and cleaning the cylinder, delivery pipe, nozzle internally and refilling new powder complete with reinstalling properly at site with necessary certificate including transportation and labour charges.	4	1246.00	each	4984
Subtotal-III						555197
Subtotal-I+Subtotal-II+Subtotal-III						1572003
Credit Items						
32	ELEC 16.1.1 j	Credit for buy back of Old Ceiling fan including dismantling of existing ceiling fan including blades etc., other accessories complete as required.	10	237.00	Each	2370
33	ELEC 16.1.1.k	Credit for buy back of Old light fittings including dismantling of existing fittings and accessories complete as required	40	33.00	Each	1320
34	ELEC 16.1.1.p	Credit for buy back of Old All types of water pumpsets including dismantling of existing fittings and accessories complete as required.	5	538	HP	2690
35	ELEC 16.1.1.h	All types of Ammeter/Voltmeter / any meter	30	40	each	1200
Total						1564423
Total Estimated amount						1564423

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20/7/23

## AMC/CAMC of Electromechanical Equipments in ESIC Super Speciality Hospital(SSH) Sanathnagar Hyderabad

C1: Estimate for CAMC of WTP & RO at ESIC SSH Sanathnagar Hyderabad					
S.No	Description	Monthly Charges in Rs.	Quantity (Months)	Amount in Rs. (Annual CAMC Charges)	Remarks
1	Comprehensive Maintenance of Reverse Osmosis plants 2X 400LPH , for Dialysis 1000 LPH - 1 Nos, and Kent ultra UV water purifier with level monitoring systems 60 LPH - 9 Nos and 120LPH - 2 Nos /c all mechanical and electrical plants equipments and plant maintenance i/c test reports, chemicals complete as required all Electrical & Mechanical Equipments related to WTP & RO Plant installed at ESIC Super Specility Hospital (SSH) Sanath Nagar Hyderabad including replacement of spares, furnishing of test reports monthly from Govt Approved LAB/PCB, supply of chemicals required for Proper Maintenance of WTP/RO Plant complete as required.	28572	12	360007	CPWD CAMC Tender rates for 2024-25 is considered for the CAMC rate ( Considering 5 percent increment)
C1: Total Amount for CAMC of WTP & RO				360007	
C2: Estimate for CAMC of STP & ETP at ESIC SSH Sanathnagar Hyderabad					
S.No	Description	Monthly Charges in Rs.	Quantity (Months)	Amount in Rs. (Annual CAMC Charges)	Remarks
1	Comprehensive Maintenance of all Electrical & Mechanical Equipments related to 80 KLD STP & 20 KLD ETP installed at ESIC Super Specility Hospital (SSH) Sanath Nagar, Hyderabad including replacement of spares, furnishing of test reports monthly from Govt Approved LAB/PCB, supply of chemicals required for Proper Maintenance of STP/ETP complete as required.	115457	12	1454758	CPWD CAMC Tender rates for 2024-25 is considered for the CAMC rate ( Considering 5 percent increment)
C2: Total Amount for CAMC				1454758	
C3: Estimate for CAMC of Solar Water Heating at ESIC SSH Sanathnagar Hyderabad					
S.No	Description	Monthly Charges in Rs.	Quantity (Months)	Amount in Rs. (Annual CAMC Charges)	Remarks
1	Comprehensive Annual Maintenance of 3 Nos 5000 Ltr Solar Water Heating System installed at ESIC Super Speciality Hospital Sanath Nagar, Hyderabad including replacement of spares & every month visit & Servicing as per Conditions attached complete as Required.	39304	12	495230.40	CPWD CAMC Tender rates for 2024-25 is considered for the CAMC rate ( Considering 5 percent increment)
C3: Total Amount for CAMC of Solar Water Heating System				495230.00	
C4: Estimate for AMC/CAMC of Fire Fighting system at ESIC SSH Sanathnagar Hyderabad					
S.No	Description	Monthly Charges in Rs.	Quantity (Months)	Amount in Rs. (Annual CAMC Charges)	Remarks
1	Comprehensive maintenance of Fire Alarm System & PA System including all fire alarm panel , repeater panel, module, isolator, smoke detector, heat detector and Other accessories installed at ESIC Super Specility Hospital (SSH) as per list enclosed including routine, preventive and breakdown maintenance and service, all type of Supply of spares, Periodic Replacement & Repair of worn-out / breakdown / damaged items with minimum downtime and warranty & guarantee of repaired / replaced items complete with all accessories as per terms & conditions enclosed (This item includes Conducting of fire mock drills in consultation with Fire Department as per Schedule).	40928	12	515692.8	CPWD CAMC Tender rates for 2024-25 is considered for the CAMC rate ( Considering 5 percent increment)
2	Annual maintenance and servicing of Wet riser/Down comer System, Sprinkler System including all pumps in Pump Room, Valves and Other accessories installed at ESIC Super Specility Hospital (SSH) as per list enclosed including routine, preventive and breakdown maintenance and service, all type of Supply of spares, Periodic Replacement & Repair of worn-out / breakdown / damaged items with minimum downtime and warranty & guarantee of repaired / replaced items complete with all accessories as per terms & conditions enclosed (This item includes Conducting of fire mock drills in consultation with Fire Department as per Schedule).	23945.00	12.00	301707	
C4: Total Amount for AMC/CAMC				817400	
C5: Estimate for AMC/CAMC of Transformers and other HT & LT Electrical Installation at ESIC SSH at Sanathnagar Hyderabad					
S.No	Description	Rate in Rs.	Qty	Amount in Rs.	Remarks
1	Carrying out painting of One or more coats including a coat of approved steel primer painting on GI sheet/structures and steel structures including fencing with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade, to all structures at HT switchyard (including of fencing), panel enclosures, and DG Set exhaust stack tower structure once in a year.	140.00	400	56000.00	DSR 2023 Civil 13.99.1 (plus GST difference 0.0633, cost index, CP 15% and 1% labour cess)
2	Servicing & Comprehensive Maintenance of LT 440 Volts Air Circuit Breakers including Cleaning of Breaker, Lubricating of Mechanism, Checking Condition of Arcing Contacts (Fixed & moving), checking of Control Wiring, Relays, Close and trip circuit wiring, Supply of Maintenance kit including attending Unlimited break down calls as Conditions attached Complete as required (Test Reports Shall be Submitted) (Note Work Shall be Carried out by OEM/OEM Authorised Agency).	8534.00	31	264554.00	SSR ELEC-8.15.1 with 1% Labour cess and 18 GST
3	Servicing of 800A-4000A, 440V Air Circuit Breakers				
	Servicing of 33 KV Existing Breaker, Checking of Busbar tightness, T&C Switch operation, Wiring tightness, Trolley movement checking, cleaning of panel, Servicing of complete panel to avoid moisture. Setting greasing of figure contact, Cable Tightness, Cam Setting of breaker, providing a layer on insulation paint, if required, Relay Testing through Primary/secondary injection Test CRM, IR Testing as per Conditions attached complete etc as required (Test Reports Shall be Submitted). (Note Work Shall be Carried out by OEM/OEM Authorised Agency).				
	33 KV Vacuum Circuit Breaker	13769	1	14457.45	

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4	Servicing and Checking of 33000/433V, oil type cast resin Transformer (Make Indo tech) of including cleaning all contacts, checking and tighten all nut bolt, control wiring, dust moisture including replacement of minor parts i.e suitable size copper wire, thimble, PVC sleeve nut bolt, washer etc and performing following test at site Voltage ratio test, Insulation Resistance value, magnetic balance test, magnetizing current test winding safety alarm and tripping testing, filtration of transformer oil with high vacuum filtration including dehumidification/dehydration (for Oil type) and submission of testing and service report. (Note Work Shall be Carried out by OEM/OEM Authorised Agency).				CPWD CAMC Tender rates for 2024-25 is considered for the CAMC rate ( Considering 5 percent increment)	
4 a	2.5 MVA - 1 Nos (33KV/440V)	119727	1	125713.35		
5	Topping up of Transformer tank with new highly refined and mineral transformer oil conforming to IS 335-1993 Complete as required	130	50	6825		
6	Opening the breather unit from transformer & refixing the same after replacement of old moistunzed silica gel by new approved quality silica gel etc as required	852	1	894.6		
7	Providing and filling up of earth pit with required amount of Charcoal to achieve good earth resistance complete as required (The agency Shall furnish earth resistance test report for every Six Months at all locations of ESIC SSH)	13	100	1365		
8	Providing and filling up of earth pit with required amount Salt to achieve good earth resistance complete as required (The agency Shall furnish earth resistance test report for every Six Months at all locations of ESIC SSH)	13	100	1365		
9	Servicing and Checking of APFC Panels upto 750KVAR	3987.00	2	7974		
10	Maintenance of Outdoor type of 33 kV Switchyard consists of lightning arrestors, Isolators, CTs PT's etc. (4 Quarterly services and 24 Hrs call back services)	12500	4	50000		SSR ELEC-8.15.1 with 1% Labour cess and 18 GST
<b>C5: Total Amount for CAMC</b>				529148		

<b>C1: Total Amount for CAMC of WTP &amp; RO</b>	360007
<b>C2: Estimate for CAMC of STP &amp; ETP at ESIC SSH Sanathnagar Hyderabad</b>	1454758
<b>C3: Total Amount for CAMC of Solar Water Heating System</b>	486230
<b>C4: Total Amount for AMC/CAMC of Fire Fighting system</b>	817400
<b>C5: Total Amount for AMC/CAMC of Transformers and other HT &amp; LT Electrical Installation</b>	529148
<b>Total Amount for All CAMC/AMC Services</b>	3656543

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*10/07/25*

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