

**KERALA AGRICULTURAL UNIVERSITY**

**Directorate of Physical Plant**

**No:21**

**TENDER SCHEDULE**

**Name of work:-** Providing electrification to the first floor and mess hall of Under graduate scholar boys hostel, KAU campus, Vellanikkara

Item No.	Quantity	Description	Rate	Per Unit	( Rate in words )	Amount
1		Wiring points in surface / semi concealed conduit system (8Points) using 20 mm rigid PVC conduit medium guage with specials and 1mm <sup>2</sup> PVC insulated FR SC copper wire. The conduit on the wall shall be clamped using saddles, suitable size modular type flush mounting metal switch boxes duly concealed, modular type of front plated, clip in modular type 6A, SP piano type switch etc. as per IS Specifications and making good the surface as per directions of departmental officers.				
a	90 Pt	Light / light duty exhaust fan points up to and including 6A, 3 plate ceiling rose.	829 /Point		(Rs Eight hundred and twenty nine only)	74610
b	100 Pt	Light point excluding ceiling rose	812 /Point		(Rs Eight hundred and twelve only)	81200
c	55 Pt	Fan points with suitable regulator box and plate	918 /Point		(Rs Nine hundred and eighteen only)	50490
d	16 Pt	Wiring call bell / stair case point / two way light point	1037 /Point		(Rs One thousand and thirty seven only)	16592
2	15 pt	Wiring plug points in the above system along with the wiring of light points using 6 Amps, 3 pin multi plug socket clip in modular type and 6 Amps, SP piano type modular switch - In combined position.	520 /Point		(Rs Five hundred and twenty only)	7800

Item No.	Quantity	Description	Rate	Per Unit	( Rate in words )	Amount
3	30 Nos	Providing 6A, 3 pin multi socket clip in modular type and 6A SP piano type switch modular type attached to the switch board.	381 /Each		(Rs Three hundred and eighty one only)	11430
4		Wiring PVC insulated SC copper wire in surface conduit system using suitable rigid PVC conduit with specials, saddles, screws etc as per IS specification.				
a	800 m	1.50 mm <sup>2</sup> - 2 run	98.50 /m		(Rs Ninety eight and Ps. Fifty only)	78800
b	200 m	1.50 mm <sup>2</sup> - 4 run	130 /m		(Rs One hundred and thirty only)	26000
c	250 m	2.50 mm <sup>2</sup> - 2 run	117 /m		(Rs One hundred and seventeen only)	29250
d	100 m	2.50 mm <sup>2</sup> - 4 run	167 /m		(Rs One hundred and sixty seven only)	16700
e	75 m	4.00 mm <sup>2</sup> - 2 run	141 /m		(Rs One hundred and forty one only)	10575
f	25 m	4.00 mm <sup>2</sup> - 4 run	216 /m		(Rs Two hundred and sixteen only)	5400
g	200 m	6.00 mm <sup>2</sup> - 2 run	183 /m		(Rs One hundred and eighty three only)	36600
h	100 m	6.00 mm <sup>2</sup> - 4 run	310 /m		(Rs Three hundred and ten only)	31000
i	20 m	10.00 mm <sup>2</sup> - 4 run	501 /m		(Rs Five hundred and one only)	10020
5		Supplying and drawing PVC insulated SC copper wire through the existing conduit and giving necessary connection etc. as required.				
a	600 m	1.50 mm <sup>2</sup> - single run	26 /m		(Rs Twenty six only)	15600
b	100 m	2.50 mm <sup>2</sup> - single run	35 /m		(Rs Thirty five only)	3500
c	50 m	4.00 mm <sup>2</sup> - single run	47.50 /m		(Rs Forty seven and Ps. Fifty only)	2375
d	50 m	6.00 mm <sup>2</sup> - single run	72 /m		(Rs Seventy two only)	3600
e	10 m	10.00 mm <sup>2</sup> - single run	114 /m		(Rs One hundred and fourteen only)	1140

Item No.	Quantity	Description	Rate	Per Unit	( Rate in words )	Amount
6		Supply and providing rigid PVC conduits with specials for wiring / protection / service connection pipe in surface conduit system using conduit saddles, screws etc. as per directions of depl. Officers.				
a	150 m	20 mm size.	61 /m	(Rs Sixty one only)		9150
b	75 m	25 mm size.	77.50 /m	(Rs Seventy seven and Ps. fifty only)		5813
c	50 m	32 mm size.	106 /m	(Rs One hundred and six only)		5300
7		Supplying and drawing bare copper earth conductor along with wiring / cable / through pipes etc as required.				
a	800 m	No.14 SWG (2.03 mm)	28 /m	(Rs Twenty eight only)		22400
b	150 m	No.12 SWG (2.64 mm)	40.50 /m	(Rs Forty and Ps fifty only)		6075
b	150 m	No.10 SWG (3.25 mm)	59 /m	(Rs Fifty nine only)		8850
8	500 Nos.	Providing copper earth socket to the copper earth wire and fixing using brass bolt and nut with washer including crimping.	17.50 /Each	(Rs Seventeen and Ps fifty only)		8750
9	50 Nos.	Supplying and fixing bakelite / PVC batten holder using suitable MS Box with hylam sheet cover including connection	265 /Each	(Rs Two hundred and sixty five only)		13250
10	5 Nos	Supply and fixing PVC / bakelite pendent holder using 16/0.20 mm PVC insulated and sheathed flexible copper wire.	112 /Each	(Rs One hundred and twelve only)		560
11	60 Nos	Providing LED Lamp 5/6 W to the fixtures.	204 /Each	(Rs Two hundred and four only)		12240
12	16 Nos.	Supply and fixing Call bell Ding Dong type with suitable MS box with hylam sheet cover including connection.	367 /Each	(Rs Three hundred and sixty seven only)		5872

Item No.	Quantity	Description	Rate	Per Unit	( Rate in words )	Amount
13	70 Nos.	Supply and fixing surface mounted 240V, 18W, 1600 lumens, slim, 4ft, LED, Battern fitting complete with cool white light including connection using FR Multi-core PVC insulated and PVC sheathed copper conductor round flexible wire having 0.75 sq.mm as per direction of dept.officers				
			900 /Each	(Rs Nine hundred only)		63000
14	15 Nos	Supply and fixing surfaced mounted LED lamp fitting, slim round / square panel a body made from Die-cast Alu. and CRCA covering, powder coated in white colour, high efficiency PMMA diffuser liminaries, 18w, 230V, 840 lumens, surge upto 2kV LED lamp complete, including connection using FR multicore PVC insulated and PVC sheathed copper conductor round flexible wire having 0.75sq.mm as per directions of deptl. officers.				
			1948 /Each	(Rs One thousand nine hundred and forty eight only)		29220
15	25 Nos.	Supply and fixing recessed LED lamp fitting, slim round/square panel with a body made powder coated in white colour, high efficiency PMMA diffuser luminaries, 18W, 230V, surge upto 2kV LED lamp complete, including connection using multicore PVC insulated copper conductor as per directions of deptl. officers.				
			1454 /Each	(Rs One thousand four hundred and fifty four only)		36350

Item No.	Quantity	Description	Rate	Per Unit	( Rate in words )	Amount
16		Supply and fixing 34/38W or nearest, 230V, LED flat panel for surface/recess mounting type, soft light and glare free symmetrical illumination, CRCA powder coated in white colour, frosted PMMA diffuser, including connection using required length of 16/0.20mm PVC insulated and sheathed flexible copper wire				
a	10 Nos	Size 600x600x70 mm (2'x2')	6773 /Each		(Rs Six thousand seven hundred and seventy three only)	67730
b	6 Nos	Size 1200x300x70 mm (4'x1')	7348 /Each		(Rs Seven thousand three hundred and forty eight only)	44088
17		Supply and providing Master control switch using suitable size modular type flush mounting metal switch boxes, modular type front plates etc. including connection.				
18	16 Nos	16 A Modular type switch	352 /Each		(Rs Three hundred and fifty two only)	5632
		Supply and fixing 6/16 A, 3 pin, combined modular type shuttered plug sockets on suitable modular type flush mounting metal switch boxes, modular type front plate etc including connection.				
a	8 Nos	16 Amps modular type switch.	654 /Each		(Rs Six hundred and fifty four only)	5232
b	8 Nos	20 Amps modular type DP switch	706 /Each		(Rs Seven hundred and six only)	5648

Item No.	Quantity	Description	Rate	Per Unit	( Rate in words )	Amount
19		Supply and fixing 6A, multi plug socket modular type with 6A SP modular type switch using suitable modular type flush mounting boxes, modular front palte etc. including connection.				
a	32 Nos	2 Way	823 /Each	(Rs Eight hundred and twenty three only)		26336
b	5 Nos	3 Way	1146 /Each	(Rs One thousand one hundred and forty six only)		5730
c	5 Nos	4 Way	1370 /Each	(Rs One thousand three hundred and seventy only)		6850
20		Supplying and fixing sheet steel phosphatised and painted double cover, dust and vermin proof MCB DB, with busbar, neutral link, earth bus and din rail etc. on wall and making the wall in good finishing.				
a	2 Nos.	Single phase - 8 Way.	1511 /Each	(Rs One thousand five hundred and eleven only)		3022
b	6 Nos.	Single phase -12 Way.	2005 /Each	(Rs Two thousand and five only)		12030
c	1 Nos.	TPN Vertical DB - 4 Way.	6590 /Each	(Rs Six thousand five hundred and ninety only)		6590
d	1 Nos.	TPN Vertical DB - 6 Way.	7104 /Each	(Rs. Seven thousand one hundred and four only)		7104
21		Supplying and fixing sheet steel phosphatised and painted enclosure for mounting independent MCB / isolators.				
	4 Nos.	2 Pole Enclosure.	379 /Each	(Rs Three hundred and seventy nine only)		1516

Item No.	Quantity	Description	Rate	Per Unit	( Rate in words )	Amount
22		Supplying and fixing RCCB in position including connection.				
a	8 Nos.	32/40A Double pole	2095	/Each	(Rs Two thousand and ninety five only)	16760
b	1 Nos.	40 A Four pole	2498	/Each	(Rs Two thousand four hundred and ninety eight only)	2498
c	1 Nos.	63 A Four pole	2846	/Each	(Rs Two thousand eight hundred and forty six only)	2846
23		Supplying and fixing Mini Break isolator in distribution board enclosure including connection.				
a	12 Nos.	32/40 Amps - Double Pole.	481	/Each	(Rs Four hundred and eighty one only)	5772
b	2 Nos.	63 Amps - Four Pole.	929	/Each	(Rs Nine hundred and twenty nine only)	1858
24		Supplying and fixing MCB's in position including connection.				
a	70 Nos.	6 to 32 Amps - Single pole 10 KA.	215	/Each	(Rs Two hundred and fifteen only)	15050
b	2 Nos	63 Amps - Three Pole.	1332	/Each	(Rs One thousand three hundred and thirty two only)	2664
c	10 Nos.	Blanking plate.	19.50	/Each	(Rs Nineteen and Ps fifty only)	195
25	15 Nos.	Providing MS rod type fan clamp suitable for RCC slab neatly painted including chipping the RCC slab and making good surface.	130	/Each	(Rs One Hundred and thirty only)	1950
26	30 m	Providing additional length of fan rod with 16 / 0.2 mm PVC insulated and sheathed 3 core flexible copper wire including painting as required.	187	/m	(Rs One Hundred and eighty seven only)	5610

Item No.	Quantity	Description	Rate	Per Unit	( Rate in words )	Amount
27	55 Nos.	Supply of AC ceiling fan 1200 mm sweep capacitor type with double ball bearing complete with down rod shackle canopies	1645 /Each		(Rs One thousand six hundred and forty five only)	90475
28	55 Nos.	Installation, testing and commissioning of A.C. ceiling fan using standard accessories complete, wiring the down rod and giving connection using 3 core 16/0.20 mm PVC insulated and sheathed 3 core flexible copper wire.	302 /Each		(Rs Three hundred and two only)	16610
29	55 Nos	Supply and fixing 100W step type fan regulator modular type socket type to the existing switch board	433 /Each		(Rs Four hundred and thirty three only)	23815
30		Supply and fixing light duty Ex. Fan in plastic body with self opening louvers on 230 V, single phase - Including connection.				
	4 Nos.	250 mm sweep	1705 /Each		(Rs One thousand seven hundred and five only)	6820
31		Supply, installation and commissioning of exhaust fan ring mounted axial frame of approved quality in the existing opening including making the opening suit, fixing necessary bolt and nut making good the damages etc. including connection using required length of 16/0.20 mm PVC insulated and sheathed three core flexible copper wire.				
	4 Nos	Light duty, metal frame 300/305 mm size.	2109 /Each		(Rs Two thousand one hundred and nine only)	8436



Item No.	Quantity	Description	Rate	Per Unit	( Rate in words )	Amount
32	2 Nos	Supply, installation and commissioning of ring mounted axial frame heavy duty exhaust fan for working on 230V,305 mm, 900rpm including	3018 /Each		(Rs Three thousand and eighteen only)	6036
33	10 No	Charges for cutting holes suitable for fixing exhaust fans including plastering making good the surface etc as required for light duty exhaust fan.	264 /Each		(Rs Two hundred and sixty four only)	2640
34	6 Nos	Supply and fixing side entry type LED street light luminaries suitable for 25w,160-270v, IP65, Class I, Surge up to 5KV LED lamps complete with PDC Al. housing with toughened glass with gaskets and fixing position using 25/32mm GI bracket with fixing arrangements including connection using FR Multi-core PVC insulated and PVC sheathed copper conductor round flexible wire having .75sq.mm as per direction of Dept. Officers.	2985 /Each		(Rs Two thousand nine hundred and eighty five only)	17910
35	2 Nos.	Supply and fixing side entry type LED street light luminaries suitable for 40w,120-270v, IP65, Class I, Surge up to 5KV LED lamps complete with PDC Al. housing with toughened glass with gaskets and fixing position using 25/32mm GI bracket with fixing arrangements including connection using FR Multi-core PVC insulated and PVC sheathed copper conductor round flexible wire having .75sq.mm as per direction of Dept. Officers.	4936 /Each		(Rs Four thousand nine hundred and thirty six only)	9872

Item No.	Quantity	Description	Rate	Per Unit	( Rate in words )	Amount
36		Supplying and drawing 1.1 KV grade PVC insulated and sheathed armoured aluminium power cable as per directions of the Deptl. Officers.				
		Clamping on wall / ceiling / truss etc. using conduit saddles / metal clamps etc.				
a	15 m	4 X 10sq.mm size.	211 /m	(Rs Two hundred and eleven only)		3165
b	85 m	4 X 16sq.mm size.	246 /m	(Rs Two hundred and forty six only)		20910
c	50 m	3.5 X 50 sq.mm size	433 /m	(Rs Four hundred and fthirty three only)		21650
37		Connecting the ends of the heavy duty armoured aluminium power cable to the respective terminals using cable gland and end sockets.				
a	2 Nos.	4 X 10sq.mm size.	267 /Each	(Rs Two hundred and sixty seven only)		534
b	2 Nos.	4 X 16sq.mm size.	308 /Each	(Rs Three hundred and eight only)		616
c	4 Nos	3.5 X 50 sq.mm size	666 /Each	(Rs Six hundred and sixty six only)		2664
38	10 m3	Earth work excavation in all classes of soil and depositing with lead upto 50M and lift upon1.50M including neat banking and back filling.				
			1259 /10m3	(Rs.One thousand two hundred and fifty nine only)		1259
39	200 m	Supplying and drawing Cat 6 UTP Cable through the existing conduit/trunking and giving necessary connection etc. as required.				
			46 /m	(Rs Forty six only)		9200
40	10 Nos.	Providing CAT 6 RJ45 computer jack modular type using metal box and front cover including connection etc.				
			597 /Each	(Rs Five hundred and ninety seven only)		5970

Item No.	Quantity	Description	Rate	Per Unit	( Rate in words )	Amount
41	1 Nos	Supply and providing plate earthing using 600X600X6.3 mm CI/GI earth plate with required length of 20 mm GI watering pipe with funnel including fixing arrangements, filling charcoal and salt around earth plate, providing man hole with CI cover etc. including civil works complete as per directions of the Deptl. officers.	4783	/Each only	(Rs Four thousand seven hundred and eighty three	4783
<b>Market Rate</b>						<b>1245588</b>
11	60	173	10380		<b>Tender PAC</b>	<b>1245588</b>
13	70	828	57960		<b>Market Rate</b>	<b>252031</b>
14	15	1771	26565		<b>Tender PAC less cost of Market Rate</b>	<b>993557</b>
15	25	1294	32350			
16 a	10	6095	60950			
16 b	6	6670	40020			
34	6	2530	15180			
35	2	4313	8626			
			<b>252031</b>			
(Rupees Nine lakhs ninety three thousand five hundred and fifty seven only)						

Contractor

Director of Physical Plant