

KERALA AGRICULTURAL UNIVERSITY
DIRECTORATE OF PHYSICAL PLANT
TENDER SCHEDULE

No:05

Name of work:- Electrification of Administrative cum Lab building for KVK, Kottayam at RARS, Kumarakom.

Item No.	Quantity	Description	Rate	Per Unit	(Rate in words)	Amount
1		Wiring points in surface / semi concealed conduit system (6Points) using 20 mm rigid PVC conduit medium guage with specials and 1mm ² 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.				
	8 Pt	Light / light duty exhaust fan points up to and including 6A, 3 plate ceiling rose.	1051 /Point		(Rs One thousand and fifty one only)	8408
2		Wiring points in surface / semi concealed conduit system (8Points) using 20 mm rigid PVC conduit medium guage with specials and 1mm ² 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	40 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)	33160
b	48 Pt	Light point excluding ceiling rose	812 /Point		(Rs Eight hundred and twelve only)	38976
c	23 Pt	Fan points with suitable regulator box and plate	918 /Point		(Rs Nine hundred and eighteen only)	21114
d	2 Pt	Wiring call bell / stair case point / two way light point	1037 /Point		(Rs One thousand and thirty seven only)	2074

Item No.	Quantity	Description	Rate	Per Unit	(Rate in words)	Amount
3	8 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)	4160
4	23 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)	8763
5		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	400 m	1.50 mm ² - 2 run	98.50 /m		(Rs Ninety eight and Ps. Fifty only)	39400
b	120 m	1.50 mm ² - 4 run	130 /m		(Rs One hundred and thirty only)	15600
c	360 m	2.50 mm ² - 2 run	117 /m		(Rs One hundred and seventeen only)	42120
d	40 m	2.50 mm ² - 4 run	167 /m		(Rs One hundred and sixty seven only)	6680
e	250 m	4.00 mm ² - 2 run	141 /m		(Rs One hundred and forty one only)	35250
f	120 m	4.00 mm ² - 4 run	216 /m		(Rs Two hundred and sixteen only)	25920
g	25 m	6.00 mm ² - 2 run	183 /m		(Rs One hundred and eighty three only)	4575
h	20 m	6.00 mm ² - 4 run	310 /m		(Rs Three hundred and ten only)	6200
i	1 m	10.00 mm ² - 4 run	501 /m		(Rs Five hundred and one only)	501
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	450 m	20 mm size.	61 /m		(Rs Sixty one only)	27450
b	5 m	25 mm size.	77.50 /m		(Rs Seventy seven and Ps. fifty only)	388
c	2 m	32 mm size.	106 /m		(Rs One hundred and six only)	212

Item No.	Quantity	Description	Rate	Per Unit	(Rate in words)	Amount
7	10 m	Providing PVC pipe as protective cover to power cable in position-63 mm size.	135 /m		(Rs One hundred and thirty five only)	1350
8		Supplying and drawing bare copper earth conductor along with wiring / cable / through pipes etc as required.				
a	1200 m	No.14 SWG (2.03 mm)	28 /m		(Rs Twenty eight only)	33600
b	25 m	No.12 SWG (2.64 mm)	40.50 /m		(Rs Forty and Ps fifty only)	1013
c	100 m	No.10 SWG (3.25 mm)	59 /m		(Rs Fifty nine only)	5900
d	60 m	No.08 SWG (4.06 mm)	85 /m		(Rs Eighty five only)	5100
9	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
10		Supplying and drawing PVC insulated SC copper wire through the existing conduit and giving necessary connection etc. as required.				
a	1 m	1.00 mm ² - single run	20.50 /m		(Rs Twenty and Ps. Fifty only)	21
b	150 m	1.50 mm ² - single run	26 /m		(Rs Twenty six only)	3900
c	50 m	1.50 mm ² - 2 run	45 /m		(Rs Forty five only)	2250
d	10 m	2.50 mm ² - single run	35 /m		(Rs Thirty five only)	350
e	60 m	2.50 mm ² - 2 run	63.50 /m		(Rs Sixty Three Ps. Fifty only)	3810
f	50 m	4.00 mm ² - single run	47.50 /m		(Rs Forty seven and Ps. Fifty only)	2375
g	10 m	6.00 mm ² - single run	72 /m		(Rs Seventy two only)	720
h	50 m	10.00 mm ² - single run	114 /m		(Rs One hundred and fourteen only)	5700
i	20 m	16.00 mm ² - single run	167 /m		(Rs One hundred and sixty seven only)	3340
11	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

Item No.	Quantity	Description	Rate	Per Unit	(Rate in words)	Amount
12	6 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)	3582
13	150 m	Supplying and drawing PVC insulated and PVC sheathed copper conductored Telephone pair cables for indoor (2pairs) application (un-armoured) confirming to ITD specifications - 0.50mm dia.	26	/m	(Rs Twenty six only)	3900
14	4 Nos.	Providing telephone jack modular type using metal box and front cover including connection etc.	315	/Each	(Rs Three hundred and fifteen only)	1260
15	2 Nos.	Supply and fixing modular type TV cable out let using suitable modular type flush mounding surface box,front plate etc.	309	/Each	(Rs Three hundred and nine only)	618
16	60 m	Supplying and drawing TV Co-axial cables RG 11 cable through the existing conduit / trunking and giving necessary connection etc. as required	38	/Each	(Rs Thirty eight only)	2280
17	18 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)	4770
18		Providing lamps to the fixtures.				
	18 Nos.	CFL 18 W.	224	/Each	(Rs Two hundred and twenty four only)	4032
19	2 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)	734
20	32 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)	28800

Item No.	Quantity	Description	Rate	Per Unit	(Rate in words)	Amount
21	26 Nos	Supply and fixing surfaced mounted LED slim round a body made from Die-cast Alu. and CRCA covering, powder coated in white colour, high efficiency PMMA diffuser luminaries, 12w, 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.	1040	/Each	(Rs One thousand and forty only)	27040
22	4 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 luminaries, 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)	7792
23	8 No	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)	23880
24		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	20 Nos	16 Amps modular type switch.	654	/Each	(Rs Six hundred and fifty four only)	13080

Item No.	Quantity	Description	Rate	Per Unit	(Rate in words)	Amount
b 25	8 Nos	20 Amps modular type DP switch Supply and fixing 6A, multi plug socket modular type with 6A SP modular type switch using suitable modular type flush mounting boxes, modular front plate etc. including connection.	706	/Each	(Rs Seven hundred and six only)	5648
a	4 Nos	2 Way	823	/Each	(Rs Eight hundred and twenty three only)	3292
b	1 No.	3 Way	1146	/Each	(Rs One thousand one hundred and forty six only)	1146
c	22 Nos	4 Way	1370	/Each	(Rs One thousand three hundred and seventy only)	30140
26		Supplying and fixing RCCB in position including connection.				
a	1 No.	32/40A Double pole	2095	/Each	(Rs Two thousand and ninety five only)	2095
b	4 Nos.	40 A Four pole	2498	/Each	(Rs Two thousand four hundred and ninety eight only)	9992
27		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	3 Nos.	Single phase -12 Way.	2005	/Each	(Rs Two thousand and five only)	6015
b	1 No.	TPN Vertical DB - 6 Way.	7104	/Each	(Rs. Seven thousand one hundred and four only)	7104
c	4 Nos.	TPN Vertical DB - 8 Way.	7819	/Each	(Rs Seven thousand eight hundred and nineteen only)	31276
28		Supplying and fixing Mini Break isolator in distribution board enclosure including connection.				
a	18 Nos.	32/40 Amps - Double Pole.	481	/Each	(Rs Four hundred and eighty one only)	8658
b	5 Nos.	40 Amps - Four Pole.	856	/Each	(Rs Eight hundred and fifty six only)	4280
29		Supplying and fixing MCB's in position including connection.				

Item No.	Quantity	Description	Rate	Per Unit	(Rate in words)	Amount
a	110 Nos.	6 to 32 Amps - Single pole 10 KA.	215	/Each	(Rs Two hundred and fifteen only)	23650
b	4 Nos.	32 Amps Double Pole	586	/Each	(Rs Five hundred and eighty six only)	2344
c	8 Nos.	40 Amps - Three Pole.			(Rs One thousand one hundred and thirty three	
			1133	/Each	only)	9064
d	2 Nos.	Blanking plate.	19.50	/Each	(Rs Nineteen and Ps fifty only)	39
30	1 No.	Supply and fixing MCCB to the distribution/enclosure in position including connection - 63/100A 4 pole - 25 KA	7461	/Each	Seven thousand four hundred and sixty one only)	7461
31		Supplying and fixing sheet steel phosphatised and painted enclosure for mounting independent MCB/isolators.				
a	15 Nos.	2 Pole Enclosure.	379	/Each	(Rs Three hundred and seventy nine only)	5685
b	1 No.	4 Pole Enclosure.	408	/Each	(Rs Four hundred and eight only)	408
32	60 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)	11220
33	23 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)	37835
34	23 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)	6946
35	23 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)	9959
36	2 Nos	Supply fixing wall mounting fan 400mm sweep or nearest size oscillating type with speed regulator including fixing	2276	/Each	(Rs. Two thousand two hundred and seventy six only)	4552
37		Supply and fixing light duty Ex. Fan in plastic body with self opening louvers on 230 V, single phase - Including connection.				

Item No.	Quantity	Description	Rate	Per Unit	(Rate in words)	Amount
	2 Nos.	150 mm sweep			(Rs One thousand five hundred and eighteen only)	3036
38		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.	1518	/Each		
	4 Nos	Light duty, metal frame 300/305 mm size.	2109	/Each	(Rs Two thousand one hundred and nine only)	8436
39	6 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)	1584
40	1 No.	Supply and providing independent ordinary pipe earthing using 50 mm dia GI pipe 1.85 m long suitable GI bolt, nut and washer, filling with charcoal and salt around the pipe including earth work excavation and masonry works required.	1989	/Each	(Rs One thousand nine hundred and eighty nine only)	1989
41	2 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	(Rs Four thousand seven hundred and eighty three only)	9566
42		Providing GI service connection pipe 1.50m long with Bends and Sockets.				
	1 No.	40mm Dia	829	/Each	(Rs Eight hundred and twenty nine only)	829
43		Providing Copper strip for earth connection				
	10 m	20X3 mm size	459	/m	(Rs Four hundred and fifty nine only)	4590

Item No.	Quantity	Description	Rate	Per Unit	(Rate in words)	Amount
44		Supply and fixing MS boxes made out of 16 gauge sheet with out front cover neatly painted.				
	6 Nos	150x150x50 mm or nearest size	197 /Each		(Rs One hundred and ninety seven only)	1182
45	0.25 m ²	Supply of hylam sheet cover 3 mm thick with required cuttings/ finishing the edges to the switch board/junction box etc. and fixing in position using steel screws of suitable size.	1916 /m ²		(Rs One thousand nine hundred and sixteen only)	479
46		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 100 m	4 X 10sq.mm size.	211 /m		(Rs Two hundred and eleven only)	21100
	b 10 m	4 X 25 sq.mm size.	301 /m		(Rs Three hundred and one only)	3010
47		Connecting the ends of the heavy duty armoured aluminium power cable to the respective terminals using cable gland and end sockets.				
	a 8 Nos.	4 X 10sq.mm size.	267 /Each		(Rs Two hundred and sixty seven only)	2136
	b 2 Nos	4 X 25 sq.mm size.	340 /Each		(Rs Three hundred and forty only)	680
48	1 No.	Providing MS Box of size 600x500x250 mm made out of 16guage sheet with front cover, neatly painted and providing channel / din bars suitable for fixing energy meter / CT / cutouts etc. with hinges for operating the doors including locking arrangements as per specifications and directions of deptl. officers	7568 /Each		(Rs Seven thousand five hundred and sixty eight only)	7568
49	3 Nos	Supply and fixing 100A HRC type porcelain cut out to the existing board including connection	516 /Each		(Rs Five hundred and sixteen only)	1548

Item No.	Quantity	Description	Rate	Per Unit	(Rate in words)	Amount
50	1 No.	Supply and fixing neutral link 100A to the existing board including connection	361	/Each	(Rs Three hundred and sixty one only)	361
		Market rate				827001
		Item No. 20 - 32x828.00	26496		Market Rate	82655
		Item No. 21 - 26x852.50	22165		Tender PAC less cost of Market rate	744346
		Item No. 22 - 4x1771.00	7084			
		Item No. 23 - 8x2530.00	20240			
		Item No. 48 - 1x6670.00	6670			
			<u>82655</u>			
(Rupees Seven lakhs forty four thousand three hundred and forty six only)						

Contractor

Director of Physical Plant