UNIVERSITY OF KERALA ENGINEERING UNIT, KARIAVATTOM

TENDER SCHEDULE FOR PROVIDING COMPUTER PLUGS FOR CENTRALIZED UPS SYSTEM IN THE IDE, SH CAMPUS

SL.NO	Qty		Specification	Unit	Rate	Rate in words	Amount
1			Supply and fixing the following sizes of <i>PVC Conduit</i>				
			conforming to IS 9537 / 1983 part III along with all				
			required accessories on surface including making				
			good the damages etc as required.				
a	270	m	20 mm dia light gauge	m	83.00	Rs.Eighty three only	22,410.00
b	180	m	25 mm dia light gauge	m	95.00	Rs.Ninety five	17,100.00
c	50	m	32 mm dia light gauge	m	119.00	Rs. One hundred & nineteen	5,950.00
2			Supplying and clamping the following sizes of				
			corrugated PVC flexible conduit with necessary				
			compression gland with locking ring and check nut at				
			termination pointed using suitable size GI / painted MS				
			saddles spacing not exceeding 60 cms on surface				
			including making good the damages, colour washing				
			etc. as required.				
a	5	m	16 mm dia	m	48.00	Rs. Forty eight only	240.00
b	5	m	20 mm dia	m		Rs. Fifty two	260.00
c	5	m	25 mm dia	m	63.00	Rs. Sixty three only	315.00
			Supply & drawing copper wires				
3			Supply and drawing 650/1100 V grade PVC insulated				
			stranded single core copper conductor cables				
			conforming to IS 694 part I 1990 in the existing				
			surface / recess conduit as required including giving				
			necessary connections of the following sizes.				
a	200	m	2.50 sq mm 2 run +1 Run 2.5 Sqmm green colour for				
			earth wire	m	107.00	Rs. One hundred & seven	21,400.00

b	150	m	2.50 sq mm 4 run+ 2 Run 2.5 Sqmm green colour	m	186.00	Rs. One hundred & eighty six	27,900.00
c	60	m	2.50 sq mm 6 run +3 Run 2.5 Sqmm green colour	m	265.00	Rs. Two hundred & sixty five	15,900.00
d	60	m	6.00 sq mm 2 run +1 Run 6 Sqmm green colour for				
			earth wire (for UPS out going and incoming)	m	202.00	Rs. Two hundred & two	12,120.00
4			Supplying & Drawing the following types of <i>UTP</i>				
			Cable conforming to relevant standards through the				
			existing conduit and giving connections as required				
a	70	m	Cat 6 UTP Cable	m	52.00	Rs. Fifty two	3,640.00
b	10	m	Supply and crimping RJ 45 socket using crimping tools				
				E	17.00	Rs. Seventeen	170.00
5			Supplying and fixing the following sizes of <i>M.S. Boxes</i>				
			made out of 1.60 mm thick sheet painted grey (both				
			inside and outside) in surface/ recess including				
			phenolic laminated sheet covers of thicknesses noted				
			along with screwed to the box as front cover with steel				
			screws, cup washers etc. making good the surface,				
			painting /colour washing etc. as required.				
a	2	Nos	200x150x 50mm with 3 mm sheet				
				Е	317.00	Rs. Three hundred & seventeen	634.00
			Industrial plug & socket				
6			Supply and fixing SP & N metal case enclosure with 2				
			pole and earth plug socket with pin suitable for				
			incorporating, SP MCB (including cost of 25 A SP				
			MCB) in surface/ recess including giving necessary				
	4	N.T.	connections, making good the damages etc. as required.				
a	4	Nos	250V, 25A, 2 pole and earth	Е	917.00	Rs. Nine hundred & seventeen	3,668.00
				ь	717.00	145. 1 time numerou & se venteen	2,000.00

8			Supply & Fixing the following types/ sizes of boxes				
			suitable for modular accessories in surface/ recess				
			including making good the damages, colour washing				
			etc as required (Group B/RoHS compliant)				
a	10	Nos	1 module moulded plastic box on surface				
				Е	185.00	Rs. One hundred & eighty five	1,850.00
b	60	Nos	8 module moulded plastic box on surface			Rs. Two hundred & thirty three	
				Е	233.00	only	13,980.00
c	2	Nos	3 module metal box in recess				
				Е	180.00	Rs. One hundred & eighty only	360.00
9			Supply & Fixing the following types/ sizes of front				
			plates on the existing modular boxes. (Group B/RoHS				
			compliant)				
a		Nos	1 module white/ off-white	Е	101.00	Rs. One hundred & one	1,010.00
b	60	Nos	8 module white/ off-white				
				Е	187.00	Rs. One hundred & eighty seven	11,220.00
c	2	Nos	3 module white/ off-white				
				Е	116.00	Rs. One hundred & sixteen only	232.00
10			Supply and Fixing the following modular switches &				
			accessories in the existing front plates and giving				
			necessary connections as required (Group B RoHS				
			compliant)				
a	120	Nos	6 A SP 1 way switch with indicator	Е	138.00	Rs. One hundred & thirty eight	16,560.00
b	180	Nos	6 A Universal socket			, ,	
				E	147.00	Rs. One hundred & forty seven	26,460.00
С	2	Nos	6/16 A socket			Rs. Two hundred & twenty three	
				E	223.00	only	446.00
d	2	Nos	6 / 10/13 A combined shuttered socket	Е	209.00	Rs. Two hundred & nine only	418.00
e	10	Nos	RJ45	Е	110 00	Rs.One hundred & nineteen only	1,190.00
f	12	Nos	Blank plate 1 M	E		Rs. Nineteen only	228.00
1	12	1402	Diank place I WI	Ľ	19.00	13. I thicken only	220.00

11			Supply and installation of sheet steel, phosphatised				
			and painted, dust and vermin proof enclosure of MCB				
			DB including copper /brass bus bar, neutral link, earth				
			bus and DIN rail suitable for fixing MCB/ isolator etc.				
			fixed on wall using suitable anchor bolts or fixed in				
			recess including cutting hole on the wall, making good				
			the damages, colour washing etc. as required				
a	4	Nos	16 way single phase double cover (IP 42/43)			Rs. One thousand eight hundred	
				Е	1899.00	& ninety nine only	7,596.00
b	2	Nos	4 way (8+12) - double cover TPN vertical DB with				
			provision for fixing 4P MCB / Isolator/ RCCB/ RCBO			Rs. Seven thousand seven	
			as incomer and SP/ TP MCB as outgoing (IP 42/43)	Е	7739.00	Rs. Seven thousand seven hundred & thirty nine only	15,478.00
С	4	Nos	40 A four pole mini break isolator			Rs. Seven hundred & sixteen	,
				E	716.00	only	2,864.00
d	4	Nos	40 A double pole mini break isolator	Е	356.00	Rs. Three hundred & fifty six	1,424.00
С	4	Nos	40 A, 2 pole, 30 mA RCCB			Rs. Two thousand three hundred	
				E	2357.00	& fifty seven	9,428.00
d	48	Nos	6/10/16/25-32A(C curve)			Rs. Two hundred & nineteen	
				Е	219.00	only	10,512.00
12			Supply, laying and clamping of 1 no. PVC insulated				
			and PVC sheathed armoured aluminium power cable,				
			1.1 KV grade of the following sizes using clamps noted				
			along with the cables, spacing of clamps not exceeding				
			60cms, making good the damages, colour washing etc.				
			as required.				
a	15	Nos	4 core 16 sq mm with factory made clamp				
				m	231.00	Rs. Two hundred & thirty one	3,465.00

13			Supplying siemens / tropodur type nickel plated				
			Double compression brass cable gland for PVC				
			insulated and PVC sheathed armoured aluminium/				
			copper conductor cable 1.1 KV grade, and making end				
			termination suitable for 2/3/3½/4 core cable of the				
			following sizes as required.				
a	4	Nos	16 sq mm			Rs. Three hundred & nineteen	
				Е	319.00	only	1,276.00
14			Supplying and providing earth clamps for siemens/				
			tropodur type cable glands of suitable length and other				
			dimensions noted along with each size of glands for				
			the following sizes of cables as required.				
a	4	Nos	4sqmm-16 sq mm with 12 mm wide x 1 mm thick clip				
				Е	18.00	Rs. Eighteen only	72.00
15			Supply of superior quality aluminium reducer				
			(banana) cable socket and making core termination of				
			cables of the following sizes including crimping etc. as				
			required.				0.00
a	16	Nos	16 sq mm	Е	19.00	Rs. Nineteen only	304.00
16			Supply of superior quality copper tubular cable socket				
			and making core termination of cables of the following				
			sizes including crimping etc. as required.				
a	30	Nos	6 sq mm	Е	19.00	Rs. Nineteen only	570.00

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17	1	No	Supply and providing <i>plate earthing</i> as per IS 3043				
			with 600x600x6.30 mm GI/CI earth plate, 20 mm GI				
			watering pipe fixed to the earth plate with 20 x 3 mm				
			GI clamps, GI funnel with weld mesh, filling required				
			quantity of charcoal including construction of				
			inspection chamber with a bed concrete of 1:4:8 PCC				
			using 40 mm broken stone (10 cm thick), brick work in				
			cement mortar 1:6, plastering the surface of brick				
			masonry and the exposed surface of PCC bed with				
			cement mortar 1:4, 12 mm thick, (the finished inside				
			dimension shall be 300 x 300 x 300 mm) but excluding				
			test joint, earth continuity conductor to the plate, and			Rs. Four thousand one hundred	
			covering at the top. (in hard soil)	Е	4102.00	& two only	4,102.00
18			Supply and providing the following sizes of <i>cast iron</i>		1102.00		1,102.00
			gully trap with covering at the top of the inspection				
			chamber of earth pit as required				
a	1	No	300 x 300 x 6 mm cast iron gully trap with covering			Rs. Two hundred & sixty seven	
				E	267.00	only	267.00
19			Supply and providing test joint for the earthing system				
			using 2 Ness of the following sizes, of stains including				
			using 2 Nos of the following sizes of strips including				
			cutting and bending to shape, drilling necessary holes				
_	0.2	M	and fixed to the watering pipe etc as required.			De One bendert 0 ch 6	
a	0.3	IVI	2 x 25 x 3 mm GI strip		165.00	Rs. One hundred & sixty five	
				m	165.00	onry	49.50

20			Supply and providing earth lead from the test joint to				
			the earth electrode using the following sizes of				
			conductors/ strips including cutting, drilling necessary				
			holes (in case of strip) and fixing firmly with plate test				
			joint etc as required.				
a	3	M	3.15 mm bare copper conductor (10 SWG)	m	55.00	Rs. Fifty five only	165.00
21			Supply and drawing bare earthing conductors of the				
			following sizes along with wiring/ cables and giving				
			connection as required.				
a	50	M	3.15 mm copper conductor (10 SWG)	m	62.00	Rs. Sixty two only	3,100.00
22			Supply and laying bare earthing conductors of the				
			following sizes laid 0.6 m below ground level				
			including excavating trench of suitable size and				
	<u> </u>	3.6	refilling etc. as required (in hard soil).		07.00	D 11	407.00
a	5	M	3.15 mm copper conductor (10 SWG)	m	97.00	Rs. Ninety seven only	485.00
23			Supply and laying <i>strips</i> of the following sizes <i>along</i>				
			with wiring/cables and giving connection as required.				
a	0.6	M	25 x 3 mm copper strip tinned at the points of contacts(Rs. Four hundred & eighty two	
			for earth bus)	m	482.00	9	289.20
			SOCKETS FOR earthing CONDUCTORS			,	
24			supply of superior quality copper earth socket for the				
			following sizes of earth conductor including crimping				
			etc. as required.				
a	10	Nos	3.15 mm (10 SWG)	Е	19.00	Rs. Nineteen only	190.00
25			Supply and providing the following sizes of <i>bolt and</i>				
			nut with washers on the existing MS box / earth bus				
			etc. as required including drilling necessary holes as				
	0	Mas	required	Е	20.00	Do Twonty only	160.00
a		Nos	25 x 6 mm brass bolt & nut	E E		Rs. Twenty only Rs. Seventeen only	160.00
b	10	Nos	25 x 3mm brass bolt & nut SH: PROTECTIVE PIPES TO EARTH LEADS	E	17.00	KS. Sevencen only	170.00
			SH; FROIECTIVE FIFES TO EARTH LEADS				

26			Supplying, threading, laying and jointing of the				
			following sizes of 'B' class GI pipe with all required				
			accessories in ground in the existing trench as				
			protective covering to earth leads.				
a	2	M	15 mm dia	m	90.00	Rs. Ninety only	180.00
27			Painting letters or figures of the following sizes with				
			enamel paint as identification mark to SB, DB, panel				
			board etc as required				
a	50	Nos	2.50 cm, 4 cm or 5 cm height	Е	12.00	Rs. Twelve only	600.00
28	4	Nos	Supply and providing 5 Kg. Dry Chemical Powder				
			type Fire Extinguisher with hose and clamps including			Rs. Two thousand three hundred	
			fixing it to wall as required.	E	2324.00	& twenty four	9,296.00
29	1	No	Supply and providing First Aid Chart duly framed and				
			placed in a conspicuous location for clear vision.	E	204.00	Rs. Two hundred & four only	204.00
30	2	m2	Supply and providing 2mm thick Elastomeric fire				
			retardent insulating mat as per IS 15652/2006 to			Rs.one thousand eight hundred	
			withstand 3.3 KV dielectric strength.	m2	1809.00	& nine	3,618.00
			Total Rs.				281,525.70

PAC Rs.2,81,526/- (Rupees Two lakh eighty one thousand five hundred & twenty six only)

I/We agreed to execute the work.	1	below the estimate rate.
2above the estimate	rate	3. At the estimate rate.

UNIVERSITY ENGINEER CONTRACTOR