

UNIVERSITY OF KERALA
ENGINEERING UNIT, KARIAVATTOM

TENDER SCHEDULE FOR THE WORK OF ELECTRIFICATION OF INSTITUTE OF MANAGEMENT IN KERALA IN THE
IDE BUILDING, KARIAVATTOM.

Date of Tender: 23.10.2013

Time of Completion: 2 months

Sl.No	Qty	Specification	Rate	Rate in words	Unit	Amount
1/120		Supply and wiring points according to IS 732-1989 using rigid PVC conduit of minimum size 20 mm conforming to IS 9537 part III 1983 and with suitable size specials conforming to IS 3419-1988, fixing the conduit using metal saddles spacing not exceeding 50 cm or concealed suitably and with 1.00 sq mm FR PVC insulated stranded single core <i>copper conductor cable</i> 650V grade, and continuous earthing with 1.5 Sq.mm green coloured FR PVC insulated stranded single core copper conductor cable 650V grade, generally conforming to IS 694-1990 ,required qty of copper earth socket, brass bolt and nut crimping/ soldering etc complete with suitable size metal switch boxes with sheet thickness 1.63mm, 50mm deep, neatly painted with enamel paint, 3mm thick phenolic laminated sheet front cover (6 mm sheets for boxes of size 375x300 mm and above) fixed with steel screws, cup washers etc upto and including 6A <i>piano type SP switches</i> and making good the surface of wall, colour washing etc. complete. All the terminations in the switch boards and DB's shall be tinned and the wires shall be drawn and fixed along the periphery of the box using suitable ties, tie mounts etc as required.				
A6	35 Nos	Single control ceiling fan point with 6A, 3 plate ceiling rose & with regulator box suitable for mounting resistance type regulator.	710.60	Rs. Seven hundred & ten & ps. sixty	E	24871.00
B1	15 Nos	Single control light point with 6A, 3 plate ceiling rose	701.80	Rs. Seven hundred & one & ps. eighty	E	10527.00
B4	10 Nos	Single control light point without ceiling rose	669.90	Rs. Six hundred & sixty nine & ps. ninety	E	6699.00

2/210	20 Nos	Conveyance, installation, testing and commissioning of pre-wired fluorescent fittings of all types complete with all accessories and fluorescent lamps etc. including supplying and fixing <i>ball and socket arrangements</i> on T.W round block, suspension down rod of <i>16 mm dia MS conduit</i> up to 2x30cm length including painting and wiring the down rod with 16/0.20mm 3 core round copper conductor flex wire conforming to relevant ISS or extending the original wiring and giving connections etc. as required.	259.60	Rs. Two hundred & fifty nine & ps. sixty	E	5192.00
3/240	10 Nos	Supply and fixing angle / straight brass lined skirt type, <i>bakelite batten holder</i> without shade and giving connection etc as required	66.00	Rs. Sixty six	E	660.00
4/270		Supply and providing the following types and power rated <i>lamps</i> in the existing fittings as required				
F3	10 Nos	Normal size 14 W BC / ES retrofit CFL	171.60	Rs. One hundred & seventy one & ps. sixty	E	1716.00
5	20 Nos	Supply of 1200mm 1x40W box type Fluorescent tube fittings are specified below ceiling suspension type complete with 40 W fluorescent tube copper wound ballast , lamp holder , starter , starter holder ad condenser duly wired up for the use on 240V single phase 50 Hz ac supply but with out suspension rods. The fittings shall be made from CRCA MS Sheet of 0.8mm nominal thickness and shall confirm to IS 10332/(pt/1&2)/82 Part (3&4) 84 & Part v Sec 1/85 with amendment No I class I IP.30	759.00	Rs. Seven hundred & fifty nine	E	15180.00
6	5 Nos	Supply, conveyance, installation, testing and commissioning of of Recess mounting 2x40W fluorescent lamp mirror optics luminaries with tubes for Lexicon ceiling epoxy white powder coated CRCA sheet steel housing, electrochemically brightened, polished and anodized aluminium mirror reflector with matt finish, anodized and serrated aluminium transverse fins, reflector/louver assembly fixed to the housing with four spring loaded trigger latches and suspended by two hylam strings for easy maintenance with high light output with low brightness, well balanced light distribution, Excellent optical control with mirror optics and energy saving open	2024.50	Rs. Two thousand & twenty four & ps. fifty	E	10123.00

		construction ballast.				
7/305	25 M	Supply and providing every <i>additional length of down rod</i> of suitable size heavy gauge GI / WI pipe with 16/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming in relevant ISS or with original wiring extended including painting as required.	100.10	Rs. One hundred & ps. ten	M	2503.00
8/307		<i>Supply, conveyance, installation, testing and commissioning of ceiling fans of the following sizes using standard accessories including resistance type regulator, wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or with extended original wiring etc. as required.</i>				
B1	25 Nos	1200 mm sweep (Category A)	1413.50	Rs. One thousand four hundred & thirteen & ps. fifty.	E	35338.00
9/315	3 Nos	<i>Charges for cutting holes</i> suitable for accommodating <i>exhaust fans</i> of sizes <i>up to 305 mm sweep</i> including plastering, colour washing etc. as required.	215.60	Rs. Two hundred & fifteen & ps. sixty	E	647.00
10/318		<i>Supply, conveyance, installation, testing and commissioning of the following sizes of exhaust fans in the existing opening, fixing necessary bolt and nuts, making good the damages etc. as required including giving connections with required length of 24/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming to relevant ISS.</i>				
B3	3 Nos	300/ 305 mm, single phase light duty exhaust fan in metal frame (Group A)	1466.30	Rs. One thousand four hundred & sixty six & ps. thirty	E	4399.00
11/330		Supply and fixing the following sizes of <i>PVC Conduit</i> conforming to IS 9537 / 1983 part III along with all required accessories <i>on surface</i> including making good the damages etc as required.				
B1	125 M	20 mm dia medium gauge	69.30	Rs. Sixty nine & ps. thirty	M	8663.00

B2	25 M	25 mm dia medium gauge	80.30	Rs. Eighty & Ps. thirty	M	2008.00
12/331		Supply and fixing the following sizes of <i>PVC Conduit</i> conforming to IS 9537 / 1983 part III along with all required accessories <i>in recess</i> including cutting the wall and making good the damages etc as required.				
B1	5 M	20 mm dia medium gauge	95.70	Rs. Ninety five & ps. seventy	M	479.00
B2	3 M	25 mm dia medium gauge	106.70	Rs. One hundred & six & ps. seventy		320.00
13/340		Supply and drawing 650/1100 V grade <i>PVC insulated stranded single core copper conductor cables</i> conforming to IS 694 part I 1990 in the existing surface / recess conduit as required including giving necessary connections of the following sizes.				
B2	75 M	1.50 sq mm 2 run	60.50	Rs. Sixty & ps. fifty	M	4538.00
C2	150 M	2.50 sq mm 2 run	81.40	Rs. Eighty one & ps. forty	M	12210.00
D2	100 M	4.00 sq mm 2 run	107.80	Rs. One hundred & seven & ps. eighty	M	10780.00
14/350		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) <i>in surface/ recess</i> 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.				
A4	10 Nos	150 mm x 100 mm x 50mm with 3 mm sheet	187.00	Rs. One hundred & eighty seven	E	1870.00
A9	5 Nos	150 mm x 200 mm x 50 mm with 3 mm sheet	260.70	Rs. Two hundred & sixty & ps. seventy	E	1304.00
A10	5 Nos	200 mm x 250 mm x 50 mm with 3 mm sheet	343.20	Rs. Three hundred & forty three & ps. twenty	E	1716.00
15/360		Supplying and fixing the following <i>piano type accessories</i> in the phenolic laminated front cover of existing MS box including providing necessary holes and				

		giving connections etc. as required.				
A1	25 Nos	6A 1 way switch	37.40	Rs. Thirty seven & ps. forty	E	935.00
A3	5 Nos	16A 1 way switch	81.95	Rs. Eighty one & ps. ninety five	E	410.00
C4	25 Nos	6 A 5 pin socket	45.10	Rs. Forty five & ps. ten	E	1128.00
C6	5 Nos	16 A 3 pin socket	80.30	Rs. Eighty & ps. thirty	E	402.00
16/362		Supply and fixing <i>SP & N metal case enclosure</i> with 2 pole and earth plug socket with pin suitable for incorporating , SP MCB (excluding cost of SP MCB) in surface/ recess including giving necessary connections, making good the damages etc. as required.				
B	5 Nos	250V, 20A, 2 pole and earth	854.70	Rs. Eight hundred & fifty four & ps. seventy		4274.00
17/443		Supply and installation of the following <i>accessories</i> suitable for 50 Hz , AC supply conforming to IS 8828-1995/ IEC 60898 of the following current ratings in the existing enclosure and giving connections as required				
BB2	5 Nos	6 A to 32 A, 10 kA, SP MCB (C curve) - (Group B)	202.40	Rs. Two hundred & two & ps. forty	E	1012.00
18/750		Supply and drawing bare <i>earthing conductors</i> of the following sizes <i>along with wiring/ cables</i> and giving connection as required.				
A1	150 M	2.00 mm copper conductor (14 SWG)	19.25	Rs. Nineteen & ps. twenty five	M	2888.00
A2	100 M	2.65 mm copper conductor (12 SWG)	37.40	Rs. Thirty seven & ps. forty	M	3740.00
19/765		supply of superior quality <i>copper earth socket</i> for the following sizes of earth conductor including crimping etc. as required.				
A	60N os	2.00 mm (14 SWG)	14.85	Rs. Fourteen & ps. eighty five	E	891.00
B	60 Nos	2.65 mm (12 SWG)	15.40	Rs. Fifteen & ps. forty	E	924.00
20	10	Supply, conveyance and installation of S hook for ceiling	123.75	Rs. One hundred & twenty three	E	1238.00

	Nos	fan installation.		& ps. seventy five		
21	15 Nos	Installation & Commissioning of Ceiling fans with all accessories including dismantling the existing fan on site and refixing it to the new position after fixing (S) hooks cutting the rods to size etc complete as directed by the departmental Engineers on Site.	223.00	Rs. Two hundred & twenty three	E	3345.00
22	10 Nos	Installation testing and commissioning of Departmental Fluorescent tube light fittings With all accessories after dismantling with out damage from the existing position including cutting and drilling and refixing to new position including rectification of defects complete as directed by the departmental Engineers on site.	164.85	Rs. One hundred & sixty four & ps. eighty five	E	1649.00
		TOTAL				1,84,579.00

PAC Rs.1,84,579/- (Rs. One lakh Eighty four thousand five hundred & seventy nine only)

I/We agree to execute the work. 1.percentage above the estimate rate.

2.percentage below the estimate rate. 3. At the estimate rate.

UNIVERSITY ENGINEER

CONTRACTOR