	UNIVERSITY OF KERALA									
Г	ENGINEERING UNIT, KARIAVATTOM Tender schedule for the Electrical works in the Dept.of Chemistry at Kariavattom campus utilizing RUSA funds.									
Sl. No	Qty	Specification	Unit	Rate	Rate in words	Amoun				
		PART-I								
1		Supply and wiring points according to IS 732-1989 using rigid PVC conduit of minimum size 20 mm with specials 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 copper conductor cable 650V grade, including <i>providing switch board main and continuous earthing with No.14 SWG bare copper</i> , required quantity of copper earth socket, brass bolt and nut crimping/ soldering etc complete with suitable size modular type metal switch boxes, <i>modular type front plates (white)</i> etc. up to and including 6A modular type SP switches 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. (<i>Group B/ RoHS compliant modular accessories</i>).								
1.1	3 Nos	Single control light point with 6A, 3 plate ceiling rose	Е	841.00	Rs.Eight hundred & forty one only	2,523.0				
1.2		Combined plug point with 6 A, 5 pin plug socket controlled by 6 A switch in the same switch board as that								
	3 no	s of light points.	E	421.00	Rs.Four hundred & twenty one only	1,263				

	2	m	with the extended original wiring and giving connection etc. as required.		198.00	Rs.One hundred & ninety eight only	396.00
			19 mm dia 2 x 1.00 m long with 16/0.20 mm 3 core copper conductor flex wire conforming to relevant ISS or				
4	6	nos	>0.98, RoHS compliant, high lumen tube . Supplying and providing <i>extra H.G conduit down rod of</i>	E	1915.00	fifteen only	11,490.00
3.1	r.		1x28wT5 fitting with APF electronic ballast suitable for continuous operation with THD <10%, power factor		1015 00	Rs.One thousand nine hundred &	11,400,00
3	2		1x28w T5 fitting with APF electronic ballast suitable for continuous operation with THD <10%, power factor >0.98, RoHS compliant,high lumen tube . Supply, conveyance, installation, testing and commissioning the light fittings of following types made of .5mm thick CRCA sheet accessories and lamps etc. including supplying and fixing <i>ball and socket</i> <i>arrangements</i> on PVC round block, <i>suspension down</i> <i>rod of 19mm dia MS conduit up to 2x30cm</i> 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. a required.	E	1717.00	Rs.One thousand seven hundred & seventeen only	3,434.00
2			<i>Supply,</i> conveyance installation testing and commissioning the light fittings of following types made of CRCA with 0.5mm thickness complete with all accessories and lamps etc. directly on wall or ceiling with PVC <i>round block</i> neatly painted to suit the fitting and giving connection with required length of 16/0.20mm 3 core copper conductor flex wire conforming to relevant ISS and giving connections as required.				0.00

5			<i>Supply</i> , conveyance, installation, testing and commissioning of ceiling fans of the following sizes using standard accessories <i>excluding resistance type regulator</i> , 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.				
							0.00
5.1	5	Nos.	1200 mm sweep - 5 star rated	E	1853.00	Rs.One thousand eight hundred & fifty three only	9,265.00
6			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.				
6.1	200	m	20 mm dia light gauge	m	83.00	Rs.Eighty three only	16,600.00
7			Supply and drawing 650/1100 V grade <i>PVC insulated</i> 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.				
а	80	m	1.50 sq mm 1 run	m	45.00	Rs.Forty five only	3,600.00
b	130		2.50 sq mm 1 run	m	55.00	Rs.Fifty five only	7,150.00
с	80		2.50 sq mm 2 run	m	81.00	Rs.Eighty one only	6,480.00
d	130		4.00 sq mm 2 run	m	106.00	Rs.One hundred & six only	13,780.00
8			Supply and fixing 100 x 50 mm PVC Cable Management System with base and lid along with the following accessories conforming to IEC 61084/ BS 476 & 4678 on surface / recess including cutting the wall and making good the damages in case of recessed installation as required.				
а	9	m	100 x 50 mm CMS with base & lid	М	935.00	Rs.Nine hundred & thirty five only	8,415.00
b	2		End Cap	E	92.00	Rs.Ninety two only	184.00

с	8	Nos.	8 module mounting box	Е	251.00	Rs.Two hundred & fifty one only	2,008.00
9			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)				
а	14	Nos.	2 module metal box in recess	Е	165.00	Rs.One hundred & sixty five only	2,310.00
h	14	INOS.	6 module metal box in recess	E	103.00		2,510.00
b	0	NT	o module metal box in recess	г	100.00	Rs.One hundred & ninety eighty	1 504 00
	8	Nos.	0 11 411	E	198.00	only	1,584.00
с	6		8 module metal box in recess	Б	000 00		1 202 00
1	6	Nos.		Е	232.00	Rs.Two hundred & thirty two only	1,392.00
d	2	N 7	12 module metal box in recess		254.00		1.0.00.00
10	3			E	354.00	Rs.Three hundred & fifty four only	1,062.00
10			Supply & Fixing the following types/ sizes of front plates				
			on the existing modular boxes. (Group B / RoHS				
			compliant)				
a			2 module white/ off-white	Е	101.00	Rs.One hundred & one only	1,414.00
b	8	Nos.	6 module white/ off-white	Е	152.00	Rs.One hundred & fifty two only	1,216.00
с			8 module white/ off-white			Rs.One hundred & eighty seven	
	14	Nos.		Е	187.00	only	2,618.00
d	3	Nos.	12 module white/ off-white	Е	251.00	Rs.Two hundred & fifty one only	753.00
11			Supply and Fixing the following modular switches &				
			accessories in the existing front plates and giving				
			necessary connections as required (Group B RoHS				
			compliant)				
а	55	Nos.	6 A SP 1 way switch	Е	119.00	Rs.One hudred & nineteen only	6,545.00
b			32 A DP switch with indicator				
	7	Nos.		Е	316.00	Rs.Three hundred & Sixteen only	2,212.00
с			25A socket			Rs.Two hundred & twenty three	
	7	Nos.			223.00	only	1,561.00
d			6A 3 pin shuttered socket				
	46	Nos.		Е	157.00	Rs.One hundred & fifty seven only	7,222.00

e			100 W Step type fan regulator - 2 M				
	5	Nos.		Е	522.00	Rs.Five hundred & twenty two only	2,610.00
f	20	Nos.	16 A SP 1 way switch	Е	161.00	Rs.One hundred & sixty one only	3,220.00
g			6/16 A socket			Rs.Two hundred & twenty three	
		Nos.		Ε	223.00	only	4,460.00
h	5	Nos.	Blank plate 1 M	Е	19.00	Rs.Nineteen only	95.00
12			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				
а			DP enclosure for independent mounting of MCB				
	2	Nos.		Е	486.00	Rs.Four hundred & eighty six only	972.00
b			8 way single phase double cover (IP 42/43)			Rs.One thousand five hundred &	
	1	Nos.		Е	1572.00	seventy two only	1,572.00
с			12 way single phase double cover (IP 42/43)			Rs.One thousand eight hundred &	
	1	Nos.		Е	1899.00	ninety nine only	1,899.00
d			4 way (8+12) - three phase double cover (IP 42/43)			Rs.Three thousland three hundred	
	2	Nos.		Е	3329.00	& twenty nine only	6,658.00
13			Supply and installation of the following accessories				
			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				
а	2	Nos	40 A four pole mini break isolator	Е	716.00	Rs.Seven hundred & sixteen only	1,432.00
a b	2	1105.	40 A, 4 pole, 100 mA RCCB		/10.00	Rs.Two thousand eight hundred &	1,-132.00
U	2	Nos.		Е	2881.00	eighty one only	5,762.00
с	2	1103.	40 A double pole mini break isolator		2001.00		5,762.00
č	4	Nos.	to re double pole mini break isolator	Е	356.00	Rs.Three hundred & fifty six only	1,424.00
d	· ·	1,00.	40 A, 2 pole, 30 mA RCCB	~	220.00	Rs.Two thousand three hundred &	1,121.00
	2	Nos.	· · · · · · · · · · · · · · · · · · ·	Е	2357.00	fifty seven only	4,714.00

e	36	Nos.	6-32A(C curve)	Е	219.00	Rs.Two hundred & nineteen only	7,884.00
14	2	Nos.	Dismantling the existing 1200mm sweep ceiling fan,				
			scrapping, cleaning, overhauling, greasing the bearing,				
			reassembling and painting the same using suitable colour				
			enamel paint, refitting the same in position and giving				
			connection etc. as required.				
				Е	163.00	Rs.One hundred & sixty three only	326.00
15			Dismantling the existing single / double tube fluorescent				
			fitting complete, cleaning and painting with two coats of				
			synthetic enamel paint, checking all connections and				
			refitting the same in position and giving connections etc.				
			as required.				
	6	Nos.		Ε	95.00	Rs.Ninety five only	570.00
16			Laying and clamping of 1 no. PVC insulated and PVC				
			sheathed armoured 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.				
а			3.5 core cable of size exceeding 25 sq mm but not				
			exceeding 50 sq mm with company fabricated saddles				
	15	m		m	61.60	Rs.Sixty one & ps. Sixty only	924.00
17			Supply and drawing bare <i>earthing conductors</i> of the				
			following sizes along with wiring/ cables and giving				
			connection as required.				
а	30	m	3.15 mm copper conductor (10 SWG)	m	62.00	Rs.Sixty two only	1,860.00
b	40	m	2.65 mm copper conductor (12 SWG)	m	43.00	Rs.Forty three only	1,720.00
с	0.6	m	25 x 3 mm copper strip tinned at the points of contacts				
				m	482.00	Rs.Four hundred & eighty two only	289.20

18	2 Nos	Dismantling the existing exhaust fan, scrapping, cleaning, overhauling, greasing the bearing, reassembling and painting the same using suitable colour enamel paint, refitting the same in position and giving connection etc. as required.	144.00	Rs.One hundred & forty four only	288.00
19	2 Nos	Dismantling the existing 3 phase 4/6way DB and refilling the holes on wall using brick work and cement mortor and plastering colour washing etc as required		Rs.Six hundred & forty only	1,280.00
		TOTAL			166,436.20

PAC Rs.1,66,436/-(Rupees One Lakh sixty Six Thousand Four Hundred And Thirty Six Only)

I/We agreed to execute the work.

CONTRACTOR

1.% below the estimate rate.

Sd/-

UNIVERSITY ENGINEER