

Name of Work: Annual Rate contract for repair & maintenance work of electric system (including internal & external system for various buildings) AT UNIVERSITY OF KOTA , KOTA

ESTMATE

ELECTRIC BSR 2013

PART-A

S.No.		Item	Qty	Unit	Rate	Amount
1.00	E110100	P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS :7098 P - I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand, 1st class bricks covering, refilling earth, compaction of earth, making necessary connection, testing etc. as required of size.				
	E110104	10.0 Sq.mm				
	E110104C	4 core	150.00	Mtr.	170.00	25500.0
	E110106	25.0 Sq.mm				
	E110106D	4 core	150.00	Mtr.	222.0	33300.0
	E110109	70.0 Sq.mm				
	E110109D	3.5 core	100.00	Mtr.	388.0	38800.0
	E110111	120.0 Sq.mm				
	E110111D	3.5 core	90.00	Mtr.	636.0	57240.0
	E110113	185.0 Sq.mm				
	E110113D	3.5 core	70.00	Mtr.	917.0	64190.0
2.00	E120700	S & Making Heat shrinkable type outdoor straight through joint for following size of PVC/ XLPE insulated aluminium conductor cable of 1.1 KV grade including cost of compound, sleeves etc. as required.				
	E120718	3 x 70.0 sq.mm	5.00	EACH SET	1008.00	5040.0
	E120720	3 x 120.0 sq.mm	8.00	EACH SET	1233.00	9864.0
	E120722	3 x 185.0 sq.mm	10.00	EACH SET	1593.00	15930.0
3.00	E100300	P&F TP&N 415 V side handle operated double break fuse switch unit in sheet steel enclosure conforming to IS: 13947 P-III and IS:4064 (W/O HBC fuses) including making connections with suitable lugs, testing etc. as required.				
	E100304	400 A rating	2	Each	15970.0	31940.0

S.No.		Item	Qty	Unit	Rate	Amount
4.00	E090700	SITC of quick make and quick break 4 POLE current limiting MCCB having following current rating, short circuit breaking capacity at 440/415 V, 50 Hz; O/L & S/C settings and conforming to IS 60947-2 / IEC 60947-2 with front face and centralised adjustable, line load interchangeability, having positive isolation capability, provision for UVR , shunt trip ,earth fault trip, push (test) to trip , including making connections with lugs & spreaders, etc. as required.				
	E090710	With Thermal Magnetic release				
	E090718	400 Amp ,35 kA, adjustable O/L & adjustable S/C	2	Each	23821.0	47642.0
5.00	E101100	S&F off load change over switch four pole/2 pole, 230/ 415 V ,conforming to IS:13947 P-III in sheet steel enclosure complete with connections with lugs, testing etc. as required in the following rating:				
	E101118	400 A four pole	1.00	EACH	17482.00	17482.0
6.00	E020500	Wiring of light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm nominal size FR PVC insulated unsheathed flexible copper conductor 1.1 kV grade and 1.5 sq. mm nominal size FR PVC insulated unsheathed flexible copper earth conductor 1.1 kV grade (IS:694) of approved make in surface / recessed ISI marked medium duty PVC conduit & it's accessories, round tiles,Hot Dipped Galvanized Modular Box with earth terminal, 6 A Modular switch,Modular plate with grid plate, screws, making connections, testing etc. as required.				
	E020501	Short point (up to 3 mtr.)	15.00	P. point	260.00	3900.00
	E020502	Medium point (up to 6 mtr.)	15.00	P. point	377.00	5655.00
	E020503	Long point (up to 10 mtr..)	15.00	P. point	508.00	7620.00
7.00	E020400	S&F following sizes (dia.) of ISI marked medium duty PVC conduit along with accessories in surface / recessed using saddles, clamps, fastener as required including cutting the wall, covering conduit and making good the same as required.				
	E020401	20 mm	100.00	RM	32.0	3200.00
	E020402	25 mm	100.00	RM	42.0	4200.00

S.No.		Item	Qty	Unit	Rate	Amount
8.00	E020700	Wiring of 3 pin 5 amp. Light plug point with 1.5 sq. mm nominal size FR PVC insulated unsheathed flexible copper conductor 1.1 kV grade and 1.5 sq. mm nominal size FR PVC insulated unsheathed flexible copper earth conductor 1.1 kV grade (IS:694) of approved make in surface / recessed ISI marked medium duty PVC conduit & it's accessories, Hot Dipped Galvanized M.S Modular box of 20 SWG with earth terminal, 6 A modular switch, 6 A modular socket, Modular plate with grid plate, screws, making connections, testing etc. as required.				
	E020701	On board	56.00	P. point	244.0	13664.00
9.00	E040100	Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor ISI marked (IS:694) of 1.1 kV grade and approved make in existing surface or recessed conduit/casing capping including making connections etc. as required.				
	E040101	1 x 1.5 sq.mm	200.00	RM	14.00	2800.00
	E040106	1 x 2.5 sq.mm	150.00	RM	21.00	3150.00
	E040112	1 x 4.0 sq.mm	150.00	RM	30.00	4500.00
10.00	E040800	Supplying and fixing of power plug point Modular accessories on hot dipped galvanized modular on surface or in recessed with suitable size of grid plate with cover plate including cost of modular 16 amp. Switch and socket outlet , making connection , testing , etc. as required.	10.00	EACH	538.0	5380.00
11.00	E050500	P & F paper phenolic resin bonded laminates confirming to IS : 2036 - 1995 for boxes/ frames including making holes for switches etc, with brass screws, washers/ zinc plated nut and bolts as required.				
	E050501	3.0 mm thick	5.00	SQM	680.0	3400.00
12.00	E070300	P & F ISI marked (IS :3854) 6 amp. flush type switch including cutting hole in tile and making connection testing etc. as required.	50.00	EACH	19.00	950.00
13.00	E071200	P & F of 3 pin 6 amp. flush type socket including cutting hole in tile and making connection testing etc. as required.	50.00	EACH	20.00	1000.00
14.00	E071300	P & F 3/6 pin 16 amp flush type socket including cutting hole in tile and making connection testing etc. as required.	50.00	EACH	52.00	2600.00
15.00	E070400	P & F ISI marked (IS :3854) 16 amp. flush type switch including cutting hole in tile and making connection testing etc. as required.	20.00	EACH	47.00	940.00

S.No.		Item	Qty	Unit	Rate	Amount
16.00	E071700	P & F ISI marked 16 amp bakelite unbreakable 3 pin plug top including making connection testing etc. as required.	20.00	EACH	45.00	900.00
17.00	E301200	P & F of IP20 surface/recess mounted LED downlight made of pressure diecast aluminium housing, with heat sink and good quality reflector, high efficiency external driver, power consumption 14/15 watt, system lumen efficiency >80 lumen/watt, CCT 6000K (minimum) K, CRI>80, PF>0.9 life time 50,000 burning hours.	15.00	EACH	1285.00	19275.00
18.00	E301400	P&F of IP 20 LED tube light 20 watt external batten mode from CRCA sheet steel suitable to replace T-8/T-12 tube light, integral driver, 2000 lumen + 5% tolerance system kuman efficiency oh 100 Lm/watt minimum expected life time of 25000 burning hours, CCT 5700 K, ANSI, CRI 80, driver efficiency>85% , Life expectancy of driver min 30000 hrs. PF 0.95 at full load/230 volt AC.	60.00	EACH	280.00	16800.00
19.00	E301300	P&F of 36 Watt IP 20 LED 2'x2' fixture, Recessed / surface type, having efficacy of not less than 100 lumen / watt, made out from CRCA housing and with high purity / transmissivity duffuser for uniform light distribution high efficiency driver electronics and in compliance to IEC standard (integral with light fixture), life time of more than 50000 burning hours, CCT 6000K (minimum), CRI>80 driver maintaining PF>0.9.	8.00	EACH	3950.00	31600.00
20.00	E073300	P & F following size hot dip galvanized M.S. box of 20 SWG with earthing terminal in recess/ surface suitable for modular accessories as required.				
	E073301	1-2 Module	10.00	EACH	40.0	400.00
	E073302	3 Module	10.00	EACH	47.0	470.00
	E073303	4 Module	10.00	EACH	54.0	540.00
	E073304	5-6 Module	20.00	EACH	82.0	1640.00
	E073305	8 Module	10.00	EACH	95.0	950.00
	E073307	10/ 12 Module	8.00	EACH	130.0	1040.00
21.00	E073100	P & F following modular accessories made out of unbreakable and fire retardant poly carbonate with silver contacts including making connections testing etc. as required				
	E073101	6 A one way switch	50.00	EACH	92.00	4600.00
	E073105	6 A 3 pin shuttered socket	40.00	EACH	120.00	4800.00
	E073106	16 A 6 pin shuttered socket	20.00	EACH	189.00	3780.00
	E073104	16 A one way switch	20.00	EACH	138.00	2760.00
22.00	E073200	P & F following size mounting grid plates with cover plates				
	E073201	1/2 Module	10.00	EACH	69.0	690.00
	E073202	3 Module	10.00	EACH	74.0	740.00
	E073203	4 Module	10.00	EACH	80.0	800.00
	E073204	5/6 Module	20.00	EACH	109.0	2180.00
	E073205	8 Module	10.00	EACH	161.0	1610.00
	E073206	10/ 12 Module	8.00	EACH	200.0	1600.00

S.No.		Item	Qty	Unit	Rate	Amount
23.00	E171000	P&F of Heavy duty capacitor start, Double ball bearing 900/1400 RPM single phase ISI marked Exhaust fan,IS:2312 marked in existing opening including making connections testing etc. as required.				
	E171001	300 mm sweep(900/1400 RPM)	5.00	EACH	3002.0	15010.00
24.00	E010100	Wiring of light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm nominal size FR PVC insulated unsheathed flexible copper conductor 1.1 kV grade and 1.5 sq. mm nominal size FR PVC insulated unsheathed flexible copper earth conductor 1.1 kV grade (IS:694) of approved make on surface ISI marked (IS:14927 P - II) PVC casing capping & it's accessories, round tiles,18 SWG M.S. box with earth terminal, 6 A switch, 3.0 mm thick ISI marked phenolic laminated sheet, zinc plated / brass screws, cup washers, making connections, testing etc. as required.				
	E010101	Short point (up to 3 mtr.)	20.00	P. POINT	194.00	3880.00
	E010102	Medium point (up to 6 mtr.)	20.00	P. POINT	293.00	5860.00
	E010103	Long point (up to 10 mtr..)	20.00	P. POINT	415.00	8300.00
25.00	E010400	S&F following sizes of ISI marked (IS:14927 P - II) PVC casing capping along with accessories like coupler, inner, outer, elbow, square box, tee etc. on surface with screws, expansion fasteners as required.				
	E010402	25 mm x 12 mm	150.00	MTr	28.00	4200.00
26.00	E171300	P & F of capacitor start, metal body, metal blade three speed wall mounting fan of following sweep with the help of anchor bolts including making connection testing etc. as required.				
	E171301	400 mm sweep(Oscillating type)	2.00	EACH	2649.0	5298.00
	E171302	300 mm sweep(oscillating type)	2.00	EACH	2235.0	4470.00
					TOTAL	554080.00