



MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

ESTATE SECTION

Estimate

Name of Work: day to day Electrical maintainace work in acadamic area of MNIT Jaipur .

Name of the Firm:-

S.No.	QTY.	Particulars	Unit	Rates	Rate In words	Amount
1		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. (Make BSR Group-1)				
1.1	10.0	Short point (up to 3 mtr.)	P. point			0.00
1.2	20.0	Medium point (up to 6 mtr.)	P. point			0.00
1.3	15.0	Long point (up to 10 mtr..)	P. point			0.00
2		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.(Make: AKG, BEC, Precision, Polypack, Polycab)				
2.1	50.0	20 mm x 12 mm, Gr,I	R. mtr.			0.00
2.3	50.0	25 mm x 12 mm, Gr,I	R. mtr.			0.00
3		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, Moulded PVC Modular Box with , 6 A Modular switch,Modular plate with grid plate, screws, making connections, testing etc. as required. (Make BSR Group-1)				
3.1	10.0	Short point (up to 3 mtr.)	P. point			0.00
3.2	20.0	Medium point (up to 6 mtr.)	P. point			0.00
3.3	10.0	Long point (up to 10 mtr..)	P. point			0.00

4		Wiring of twin control light 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 tles, moulded PVC Modular box with earth terminal, 6 A two way Modular switch, Modular plate with grid plate, screws, making connections, testing etc. as required. (Make BSR Group-1)				
4.1	2.0	Short point (up to 3 mtr.)	P. point			0.00
4.2	2.0	Medium point (up to 6 mtr.)	P. point			0.00
5		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 MMS (IS:9537 P - III) PVC conduit & 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. (Make BSR Group-1)				
5.1	10.0	Short point (up to 3 mtr.), Gr.I	P. point			0.00
5.2	30.0	Medium point (up to 6 mtr.), Gr.I	P. point			0.00
5.3	20.0	Long point (up to 10 mtr.), Gr.I	P. point			0.00
6		Wiring of twin control light / fan / 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 MMS (IS:9537 P - III) PVC conduit & it's accessories, round tles, 18 SWG M.S. box with earth terminal, 6 A two way switch, 3.0 mm thick ISI marked phenolic laminated sheet, zinc plated / brass screws, cup washers, making connections, testing etc. as required. (Make BSR Group-1)				
6.1	2.0	Short point (up to 3 mtr.)	P. point			0.00
6.2	5.0	Medium point (up to 6 mtr.)	P. point			0.00
6.3	5.0	Long point (up to 10 mtr.)	P. point			0.00

7		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.(Make: AKG, BEC, Precision, Polypack, Polycab)				
7.1	200.0	20 mm, Gr.I	R. mtr.			0.00
7.2	300.0	25 mm, Gr.I	R. mtr.			0.00
7.3	100.0	32 mm, Gr.I	R. mtr.			0.00
8		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.(Make BSR Group-1)				
8.1	10.0	Short point (up to 3 mtr.), Gr.I	P. point			0.00
8.2	30.0	Medium point (up to 6 mtr.), Gr.I	P. point			0.00
8.3	20.0	Long point (up to 10 mtr.), Gr.I	P. point			0.00
9		Wiring of twin control light 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 M.S Modular box of 20 SWG with earth terminal, 6 A two way Modular switch, Modular plate with grid plate, screws, making connections, testing etc. as required.(Make BSR Group-1)				
9.1	2.0	Short point (up to 3 mtr.)	P. point			0.00
9.2	5.0	Medium point (up to 6 mtr.)	P. point			0.00
9.3	5.0	Long point (up to 10 mtr.)	P. point			0.00
10		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.(RR Kabel , National, Finolex)				
10.1	1200.00	1 x 1.5 sq.mm	Mtr.			0.00
10.2	1000.00	1 x 2.5 sq.mm	Mtr.			0.00

10.3	600.00	1 x 4.0 sq.mm	Mtr.			0.00
10.4	600.00	1 x 6.0 sq.mm	Mtr.			0.00
10.5	100.00	1 x 10.0 sq.mm	Mtr.			0.00
11		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. Make:-Formica, Greenlam, Bakelite Hylam				
11.1	5.0	3.0 mm thick, Gr.I	Sq.m			0.00
12		P & F surface/recessed type 10 mm thick Teak wood board duly antitermite treated, varnished and fixed by using gutties/ PVC fasteners of following size as required.				
12.1	20.0	100 mm x 100 mm	Each			0.00
12.2	40.0	100 mm x 175 mm	Each			0.00
12.3	20.0	200 mm x 250 mm	Each			0.00
12.4	5.0	250 mm x 300 mm	Each			0.00
12.5	5.0	300 mm x 375 mm	Each			0.00
13		P&F 240/415 V AC MCB with positive isolation of breaking capacity not less than 10 KA (B/ C/ D tripping characteristic) ISI marked IS 8828(1996)]/ conforming to IEC 60898 in existing board/sheets including making connections, testing etc. as required. Make: Schneider (neo break), Siemens, HPL, GE , Standard, Indoasian(gold), Havell's, C & S, ABB (S270)				
13.1		Single pole MCB				
13.1.1	80.00	6 A to 32 A rating	Each			0.00
13.1.2	5.00	40 A to 63 A rating	Each			0.00
13.2		Triple pole MCB				
13.2.1	5.00	40 A 63 A rating	Each			0.00
13.3		Triple pole & neutral MCB				
13.3.1	5.00	40 A 63 A rating	Each			0.00
14		P&F 240/415 V isolator conforming to IS:13947-III/ IEC 60947-3 on existing board / sheet including making connections, testing etc. as required. Make:-Schneider (neo break), Siemens, HPL, GE , Standard, Indoasian(gold), Havell's, C & S, ABB (S270)				
14.1		Double pole isolator				
14.1.1	10.00	30 A / 40 A rating	Each			0.00
14.1.2	10.00	63 A rating	Each			0.00
14.2		Triple pole Isolator				
14.2.1	10.00	30 A / 40 A rating	Each			0.00
14.2.2	10.00	63 A rating	Each			0.00
14.2.3	10.00	100 A rating	Each			0.00
14.3		Four pole Isolator				
14.3.1	5.00	30 A / 40 A rating	Each			0.00
14.3.2	10.00	63 A rating	Each			0.00
14.3.3	10.00	100 A rating	Each			0.00

15		P&F Recessed/ Surface mounting heavy duty horizontal type sheet steel Distribution board phophatised/ powder painted complete with suitable rating insulated copper bus bar, shorting link , neutral link, earth link and din bar,masking sheet, conforming to IS13032 & IS8623 including making internal DB terminations with copper lugs , testing etc. as required. Make:-Schneider (neo break), Siemens, HPL, GE , Standard, Indoasian(gold), Havell's, C & S, ABB (S270)	Each			0.00
15.1		Double door (single phase)				
15.1.1	4.00	6 Way, Gr.I	Each			0.00
15.1.2	4.00	8 Way, Gr.I	Each			0.00
15.2		Double door (Three phase)				
15.2.1	2.00	6 Way	Each			0.00
15.2.2	2.00	8 Way	Each			0.00
15.2.3	1.00	12 Way	Each			0.00
16		P&F metal clad industrial plug top & socket unit with pin and sleeve type contact on porcelain/ bakelite base in sheet steel enclosure (without MCB) including making connections, testing etc.as required. Make:-Siemens, L&T, Havell's, Standard, HPL, GE, Legrand, Schneider, ABB, BCH, Indoasian, C&S,	Each			0.00
16.1		Single / Double Pole (Three pin)				
16.1.1	15.00	20 A	Each			0.00
16.2		Three / Four pole (Five pin)				
16.2.1	5.00	30A-32A	Each			0.00
17	150.00	P & F ISI marked (IS :3854) 6 amp. flush type switch including cutting hole in tile and making connection testing etc. as required. Make:-SSK (topline), Anchor (Penta), Elle, Hi Fi, Vinay (Clair - 30), , Leader (euro), Precision (prime),	Each			0.00
18	150.00	P & F ISI marked (IS :3854) 16 amp. flush type switch including cutting hole in tile and making connection testing etc. as required.. SSK (topline), Anchor (Penta), Elle, Hi Fi, Vinay (Clair - 30), , Leader (euro), Precision (prime),	Each			0.00
19	10.00	P & F ISI marked (IS :3854) bell push flush type including cutting hole in tile and making connection testing etc. as required. Make:-SSK (topline), Anchor (Penta), Elle, Hi Fi, Vinay (Clair - 30), , Leader (euro), Precision (prime)	Each			0.00

20	10.00	P & F ISI marked (IS :3854) 6A twin control switch flush type including cutting hole in tile and making connection testing etc. as required. Make:-SSK (topline), Anchor (Penta), Elle, Hi Fi, Vinay (Clair - 30), , Leader (euro), Precision (prime)	Each			0.00
21	100.00	P & F of 3 pin 6 amp. flush type socket including cutting hole in tile and making connection testing etc. as required. Make:-SSK (topline), Anchor (Penta), Elle, Hi Fi, Vinay (Clair - 30), , Leader (euro), Precision (prime)	Each			0.00
22	100.00	P & F 3/6 pin 16 amp flush type socket including cutting hole in tile and making connection testing etc. as required. Make:-SSK (topline), Anchor (Penta), Elle, Hi Fi, Vinay (Clair - 30), , Leader (euro), Precision (prime)	Each			0.00
23	10.00	P & F IS:371 marked 6 amp surface type ceiling rose including making connection testing etc. as required.. Make:-SSK, Anchor, Precision, Vinay, Cona, Elle, Vimal, Kolors, North west	Each			0.00
24	20.00	P & F ISI marked 6 amp bakelite batten/angle holder including making connection testing etc. as required. Make:-SSK, Anchor, Precision, Vinay, Cona, Elle, Vimal, Kolors, North west	Each			0.00
25	20.00	P & F ISI marked 6 amp bakelite unbreakable 3 pin plug top including making connection testing etc. as required. Make :-SSK, Anchor, Precision, Vinay, Cona, Elle, Vimal, Kolors, North west	Each			0.00
26	20.00	P & F ISI marked 16 amp bakelite unbreakable 3 pin plug top including making connection testing etc. as required. Make :-SSK, Anchor, Precision, Vinay, Cona, Elle, Vimal, Kolors, North west	Each			0.00
27	50.00	P & F socket size flush type 120/280 watt rotary 5 step fan regulator including making connection testing etc. as required.. Make :-SSK, Anchor, Precision, Vinay, Cona, Elle, Vimal, Kolors, North west	Each			0.00
28	20.00	P & F ISI marked ding dong/musical chime bell including making connection testing etc. as required... Make :-SSK, Anchor, Precision, Vinay, Cona, Elle, Vimal, Kolors, North west	Each			0.00

29	10.00	P & F office one module call bell system comprising of indicator, push to reset switch housed in pvc/metallic sheet including making connection testing etc. as required. Make :- SSK, Anchor, Precision, Vinay, Cona, Elle, Vimal, Kolors, North west	Each			0.00
30		P & F following modular accessories made out of unbreakable and fire retardant poly carbonate with silver contacts including making connections testing etc. as required Make:-MK (wrap around), Legrand (Myrius), North West (PC Plus), ABB (Classic Luminia), C&S,				
30.1	100.00	6 A one way switch	Each			0.00
30.2	10.00	6 A two way switch	Each			0.00
30.3	10.00	6 A bell push	Each			0.00
30.4	50.00	16 A one way switch	Each			0.00
30.5	100.00	6 A 3 pin shuttered socket	Each			0.00
30.6	50.00	16 A 6 pin shuttered socket	Each			0.00
30.7	20.00	5 step fan regulator 2 Module				
30.8	20.00	Blanking plate	Each			0.00
30.9	10.00	32 Amp. 2 Module switch With Indicator	Each			0.00
30.1	10.00	25 Amp. 2 Module Socket	Each			0.00
31		P & F following size mounting grid plates with cover plates. Make:- MK (wrap around), Legrand (Myrius), North West (PC Plus), ABB (Classic Luminia), C&S,				
31.1	20.00	3 Module, Gr.I	Each			0.00
31.2	10.00	4 Module	Each			0.00
31.3	20.00	5/6 Module	Each			0.00
31.4	30.00	8 Module	Each			0.00
31.5	5.00	10/ 12 Module	Each			0.00
32		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. Make :- MK (wrap around), Legrand (Myrius), North West (PC Plus), ABB (Classic Luminia), C&S,				
32.1	20.00	3 Module, Gr.I	Each			0.00
32.2	10.00	4 Module	Each			0.00
32.3	20.00	5-6 Module	Each			0.00
32.4	30.00	8 Module	Each			0.00
32.5	5.00	10/ 12 Module	Each			0.00
33		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 I of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand,Ind class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. Make:- Gloster ,CCI, Finolex				

33.1		10.0 Sq.mm				
33.1.1	100	2 core	Mtr.			0.00
33.2		16.0 Sq.mm				
33.2.1	50.00	4 core	Mtr.			0.00
33.3		35.0 Sq.mm				
33.3.1	50.00	3.5 core, Gr.Al	Mtr.			0.00
34	2.0	Plate Earthing as per IS:3043 with G.I. Earth plate of size 600mm x 600mm x 6.0mm by embodying 3 to 4 mtr. below the ground level with 25 mm dia. G.I. 'B' class watering Pipe including all accessories like nut, bolts, reducer ,nipple, wire meshed funnel, and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size 300mm x 300mm complete with alternate layers of salt and coke/charcoal, testing of earth resistance as required.	Set			0.00
35	2.0	Plate Earthing as per IS:3043 with copper Earth plate of size 300mm x 300mm x 3.0mm by embodying 3 to 4 mtr. below the ground level with 25 mm dia. G.I. 'B' class watering Pipe including all accessories like nut, bolts, reducer, nipple ,wire meshed funnel, and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size 300mm x 300mm complete with alternate layers of salt and coke/charcoal, testing of earth resistance as required.	Set			0.00
36		S & Laying following size earth wire/strip in horizontal or vertical run in ground/surface/recess including riveting, soldering, saddles, making connection etc. as required.				
36.1	20.0	8 SWG copper Wire	Mtr.			0.00
36.2	50.0	8 SWG G.I. (Hot Dipped) Wire	Mtr.			0.00
36.3	8.0	20mm x 3mm copper strip	Mtr.			0.00
36.4	8.0	25mm x 6mm G.I. (Hot Dipped) Strip	Mtr.			0.00
37	10.00	P & F of M.S. J- hook of standard design made out of 16 mm dia. M.S. round bar and fixed with cement concrete mortar with required support as required.	Each			0.00
38	20.00	P & F extra down rod of 15 mm dia . ERW (Electrical resistance welded) of 1.6mm nominal thick medium duty steel pipe including cutting, threading, drilling, fixing quarter pin etc as reqd.	Mtr.			0.00
Total		Total Amount				0.00

Executive Engineer

