

ESTIMATE OF ELECTRICAL WORK AT DR. AMBEDKAR UNIVERSITY

Sr No.	Item Description	Unit	Qty	Rate	Amount
	Point Wiring and Mains				
1.00	POINT WIRING Supply and wiring with conduit for lights, ceiling fans, exhaust fan and 6A socket outlets using 2x1.5 + 1x1 Sqmm PVC insulated 1100 V grade FRLS copper conductor wires in 25mm dia 2mm thk. ISI marked FRLS PVC conduits in concealed / surface installation using necessary conduit accessories, junction boxes, GI switch outlet boxes, switch plates, bends, collars,clamps,ceiling roses, 6A switches, fan regulators, regulator boxes, etc., shall be flush mounted in furniture or on the surface of wall for surface installation as required. The rate for point wiring shall include the wiring from first light / fan/ control switches upto light point and then looping between switches / lights / fans 6 A sockets, etc. with no extra cost. The rates for the following items shall include supply and installation of Modular type of switches, sockets, fan regulators, etc., along with all necessary fixing accessories like mounting screws, concealed/surface mounted switch boxes suitable for modular type switches, internal wiring, top plate, etc., all complete as required. The modular type switches, sockets, regulators shall be of approved make & shade. The rate shall include the chasing of walls/ floors and plastering the chased portion as required to complete Primary light points controlled by a 6 A switch	114.00	nos.	550.00	62700.00

2.00	POINT WIRING Supply and wiring with conduit for lights, ceiling fans, exhaust fan and 6A socket outlets using 2x1.5 + 1x1 Sqmm PVC insulated 1100 V grade FRLS copper conductor wires in 25mm dia 2mm thk. ISI marked FRLS PVC conduits in concealed / surface installation using necessary conduit accessories, junction boxes, GI switch outlet boxes, switch plates, bends, collars,clamps,ceiling roses, 6A switches, fan regulators, regulator boxes, etc., shall be flush mounted in furniture or on the surface of wall for surface installation as required. The rate for point wiring shall include the wiring from first light / fan/ control switches upto light point and then looping between switches / lights / fans 6 A sockets, etc. with no extra cost. The rates for the following items shall include supply and installation of Modular type of switches, sockets, fan regulators, etc., along with all necessary fixing accessories like mounting screws, concealed/surface mounted switch boxes suitable for modular type switches, internal wiring, top plate, etc., all complete as required. The modular type switches, sockets, regulators shall be of approved make & shade. The rate shall include the chasing of walls/ floors and plastering the chased portion as required to complete Secondary light points controlled by a 6 A switch	231.00	nos.	350.00	80850.00
3.00	MCB control Wiring using 3 runs of 2.5 sqmm FRLS cu. wires in 25mm dia FRLS PVC conduit Primary Point - Lighting [MCB controlled] Cost of the MCB shall be excluded,	7.00	nos.	870.00	6090.00
4.00	MCB control Wiring using 3 runs of 2.5 sqmm FRLS cu. wires in 25mm dia FRLS PVC conduit Secondary light points looped	6.00	nos.	640.00	3840.00
5.00	MCB control Wiring using 3 runs of 2.5 sqmm FRLS cu. wires in 25mm dia FRLS PVC conduit ceiling fan point controlled by a 6A switch and electronic regulator. The rate shall include cost of regulator.	5.00	nos.	1250.00	6250.00

6.00	MCB control Wiring using 3 runs of 2.5 sqmm FRLS cu. wires in 25mm dia FRLS PVC conduit Wall mounting fan point controlled by a 6A switch and electronic regulator. The rate shall include cost of regulator.	6.00	nos.	1050.00	6300.00
7.00	POWER RECEPTACLES supply and fixing of following type power receptacles in brick wall / wooden partitions / floor. 6A, 5 pin socket controlled by 6A switch - single phase - to be wired using 2 X 2.5mmsq. + 1 X 1 mmsq. FRLS Copper wire in 25 mm dia FRLS PVC conduit.(wiring shall be measured separately).	40.00	nos.	670.00	26800.00
8.00	POWER RECEPTACLES supply and fixing of following type power receptacles in brick wall / wooden partitions / floor. 2 x 6A, 5 pin socket controlled by 16A switch - single phase - to be wired using 2 X 2.5mmsq. + 1 X 1 mmsq. FRLS Copper wire in 25 mm dia FRLS PVC conduit.(wiring shall be measured separately).	30.00	nos.	1050.00	31500.00
9.00	POWER RECEPTACLES supply and fixing of following type power receptacles in brick wall / wooden partitions / floor. 6/16A , 6 pin , switched socket - single phase - to be wired using 2 X 4mmsq. + 1 X 2.5 mmsq. FRLS Copper wire in 25 mm dia FRLS PVC conduit.(wiring shall be measured separately).	42.00	nos.	1070.00	44940.00
10.00	POWER RECEPTACLES supply and fixing of following type power receptacles in brick wall / wooden partitions / floor. 40A, 440V, 3 phase, 5pin Metal clad socket in a metallic enclosure-IP65 with 40A, DP MCB and Socket	7.00	nos.	5400.00	37800.00
11.00	POWER RECEPTACLES supply and fixing of following type power receptacles in brick wall / wooden partitions / floor. SITC of POP UP BOX on table top WITH 2 No's UPS, 1No RAW POWER, 2No's DATA, 1No VOICE points, 1No. HDMI port and audio jack in it	5.00	nos.	9000.00	45000.00
12.00	Installation, testing and commissioning of Light fixture with required dismantling and installation as per suit at site with required modification of wiring in light point.	10.00	nos.	350.00	3500.00

13.00	Installation, testing and commissioning of ceiling fan with required dismantling and installation as per suit at site with required modification of wiring in fan point.	10.00	nos.	450.00	4500.00
14.00	CIRCUIT MAINS AND SUB CIRCUIT MAINS Wiring of submains / circuit mains in concealed / surface conduit system using ISI marked 25mm dia FRLS PVC conduit of 2 mm thick with all accessories complete. 1100 V PVC insulated FRLS copper flexible wires for phase , neutral and earth with conduit and wiring accessories ,etc. complete for lighting / power points Rate shall include cost towards junction boxes / wire pull boxes to be located near junctions / beam crossings for easy drawing of wires. The rate shall include the chasing of walls/ floors and plastering the chased portion as required to complete 2 x 2.5 sq.mm + 1 x 1.5 sqmm. Copper wires in 25 mm dia FRLS conduit for lighting circuit main	1540.00	rmts.	70.00	107800.00
15.00	CIRCUIT MAINS AND SUB CIRCUIT MAINS Wiring of submains / circuit mains in concealed / surface conduit system using ISI marked 25mm dia FRLS PVC conduit of 2 mm thick with all accessories complete. 1100 V PVC insulated FRLS copper flexible wires for phase , neutral and earth with conduit and wiring accessories ,etc. complete for lighting / power points Rate shall include cost towards junction boxes / wire pull boxes to be located near junctions / beam crossings for easy drawing of wires. The rate shall include the chasing of walls/ floors and plastering the chased portion as required to complete 2 x 4 sq.mm + 1 x 2.5 sqmm. Copper wires in 25 mm dia FRLS conduit for power circuit main	1380.00	rmts.	100.00	138000.00
	Light Fixtures and Fans				

16.00	<p>LIGHT FIXTURES Supply, Installation, testing & commissioning of standard light fittings and lighting accessories including lamp.The scope shall include, providing of all hardware such as nuts,anchor fastners, bolts, screws, cleats, clamps, PVC insulated wires / cables from Junction box to lighting fixtures, ball and socket 'arrangement with J.B., suspension conduit pipe for drop for flourescent fitting. Note : All light fixture with Electronic Ballast with THD <10% Note : Light fixtures / Fan are to be approved by the Architect / Client / Consultants before procurement & subject to revise. Energy saving, environmental friendly, long life, decorative, corrosion resistant, suspended luminaires with PC diffuser and extruded aluminium anodised housing with LEDs as light source 40W LED Light and Made up of high quality extruded aluminium anodised channel for effective thermal management, sturdiness and excellent corrosion resistant. 3 way 6A extra connector is provided in side the housing for loop in-loop out arrangement. Equivalent to Havells Model No. LHEDDGNXIX1W040 or Philips.</p>	138.00	nos.	4500.00	621000.00
17.00	<p>LIGHT FIXTURES Supply, Installation, testing & commissioning of standard light fittings and lighting accessories including lamp.The scope shall include, providing of all hardware such as nuts,anchor fastners, bolts, screws, cleats, clamps, PVC insulated wires / cables from Junction box to lighting fixtures, ball and socket 'arrangement with J.B., suspension conduit pipe for drop for flourescent fitting. Note : All light fixture with Electronic Ballast with THD <10% Note : Light fixtures / Fan are to be approved by the Architect / Client / Consultants before procurement & subject to revise. SITC of 21w LED Surface mounted LED DOWN Lighter with white powder coated alluminium housing with integrated electronic driver.Equivalent to Havells Model No. LHEAAGP7IA1W018 or Philips.</p>	95.00	nos.	1250.00	118750.00

18.00	<p>LIGHT FIXTURES Supply, Installation, testing & commissioning of standard light fittings and lighting accessories including lamp. The scope shall include, providing of all hardware such as nuts, anchor fasteners, bolts, screws, cleats, clamps, PVC insulated wires / cables from Junction box to lighting fixtures, ball and socket arrangement with J.B., suspension conduit pipe for drop for fluorescent fitting. Note : All light fixture with Electronic Ballast with THD <10% Note : Light fixtures / Fan are to be approved by the Architect / Client / Consultants before procurement & subject to revise. 10W LED Surface / recess mounted downlight with white powder coated polycarbonate housing and pressure die cast heat sink having high Efficiency like Equivalent to Havells Model no. LHEAAGPXPL1W010 or Philips.</p>	15.00	nos.	970.00	14550.00
19.00	<p>LIGHT FIXTURES Supply, Installation, testing & commissioning of standard light fittings and lighting accessories including lamp. The scope shall include, providing of all hardware such as nuts, anchor fasteners, bolts, screws, cleats, clamps, PVC insulated wires / cables from Junction box to lighting fixtures, ball and socket arrangement with J.B., suspension conduit pipe for drop for fluorescent fitting. Note : All light fixture with Electronic Ballast with THD <10% Note : Light fixtures / Fan are to be approved by the Architect / Client / Consultants before procurement & subject to revise. 20W LED tube box fitting with surface and wall mounted LED Battern equivalent to LHEYBYPXOE1W020 or Philips.</p>	10.00	nos.	580.00	5800.00

20.00	LIGHT FIXTURES Supply, Installation, testing & commissioning of standard light fittings and lighting accessories including lamp.The scope shall include, providing of all hardware such as nuts,anchor fastners, bolts, screws, cleats, clamps, PVC insulated wires / cables from Junction box to lighting fixtures, ball and socket 'arrangement with J.B., suspension conduit pipe for drop for flourescent fitting. Note : All light fixture with Electronic Ballast with THD <10% Note : Light fixtures / Fan are to be approved by the Architect / Client / Consultants before procurement & subject to revise. SITC of wall mounted fan with necessary mounting accessories	10.00	nos.	2300.00	23000.00
21.00	LIGHT FIXTURES Supply, Installation, testing & commissioning of standard light fittings and lighting accessories including lamp.The scope shall include, providing of all hardware such as nuts,anchor fastners, bolts, screws, cleats, clamps, PVC insulated wires / cables from Junction box to lighting fixtures, ball and socket 'arrangement with J.B., suspension conduit pipe for drop for flourescent fitting. Note : All light fixture with Electronic Ballast with THD <10% Note : Light fixtures / Fan are to be approved by the Architect / Client / Consultants before procurement & subject to revise. SITC of 42 watt LED glare-free recessed type light fixture equivalent to Havells Make Venus Neo or Philips.	8.00	nos.	2950.00	23600.00
22.00	LIGHT FIXTURES Supply, Installation, testing & commissioning of standard light fittings and lighting accessories including lamp.The scope shall include, providing of all hardware such as nuts,anchor fastners, bolts, screws, cleats, clamps, PVC insulated wires / cables from Junction box to lighting fixtures, ball and socket 'arrangement with J.B., suspension conduit pipe for drop for flourescent fitting. Note : All light fixture with Electronic Ballast with THD <10% Note : Light fixtures / Fan are to be approved by the Architect / Client / Consultants before procurement & subject to revise. SITC of 1x24W Recessed type LED light fixture light fixture equivalent of Havells Make or Philips.	4.00	nos.	1850.00	7400.00

23.00	LIGHT FIXTURES Supply, Installation, testing & commissioning of standard light fittings and lighting accessories including lamp.The scope shall include, providing of all hardware such as nuts,anchor fastners, bolts, screws, cleats, clamps, PVC insulated wires / cables from Junction box to lighting fixtures, ball and socket 'arrangement with J.B., suspension conduit pipe for drop for flourescent fitting. Note : All light fixture with Electronic Ballast with THD <10% Note : Light fixtures / Fan are to be approved by the Architect / Client / Consultants before procurement & subject to revise. SITC of 2 X 16W LED tube box fitting with polycarbonate housing, M.S. gear tray duly prewired,transperent cover of polycarbonate required accessories & necessary arrangement of Havells Make or Philips.	27.00	nos.	2250.00	60750.00
24.00	LIGHT FIXTURES Supply, Installation, testing & commissioning of standard light fittings and lighting accessories including lamp.The scope shall include, providing of all hardware such as nuts,anchor fastners, bolts, screws, cleats, clamps, PVC insulated wires / cables from Junction box to lighting fixtures, ball and socket 'arrangement with J.B., suspension conduit pipe for drop for flourescent fitting. Note : All light fixture with Electronic Ballast with THD <10% Note : Light fixtures / Fan are to be approved by the Architect / Client / Consultants before procurement & subject to revise. SITC of Ceiling Fan 1200mm Dia High Speed.	20.00	nos.	1950.00	39000.00
TELEPHONE / T.V / COMPUTER / NETWORKING					
25.00	Supply, Laying of 25 mm dia. rigid PVC conduit of heavy guage with all accessories complete.	430.00	rmts.	45.00	19350.00
26.00	SITC of HDMI cable(approved make) in prelaid conduit/raceway	20.00	rmts.	340.00	6800.00
27.00	SITC of RCA cable(approved make) in prelaid conduit/raceway	20.00	rmts.	340.00	6800.00
28.00	Supply, Installation testing and commissioning of RJ 45 jack type socket with box and plate complete. The cover plate shall match with the other wiring accessories. (For data)	30.00	nos.	730.00	21900.00

29.00	Supply, Installation testing and commissioning of RJ 45 jack type socket with box and plate complete. The cover plate shall match with the other wiring accessories. (For telephone)	30.00	nos.	700.00	21000.00
30.00	Supply, Installation testing and commissioning of RJ 11 Telephone jack type socket with box and plate complete. The cover plate of the computer shall match with the other wiring accessories.	27.00	nos.	550.00	14850.00
31.00	Supply, Laying of Cat 6 computer wire in prelaid conduit/raceway for data & voice. The tagging has to be printed (and should not be handwritten) every 5 mtrs	2370.00	Mtrs	35.00	82950.00
32.00	Supply, Laying of 2 pair telephone wire in prelaid conduit for voice. The tagging has to be printed (and should not be handwritten) every 5 mtrs	2370.00	Mtrs	35.00	82950.00
33.00	SITC of Cat6 UTP 24port Patch panel rack mount with lable & quick mounting for Data (Black Colour). The tagging has to be printed (and should not be handwritten)	3.00	nos.	5880.00	17640.00
34.00	SITC of 50 Port Telephone patch panel for telephone point termination (Yellow Colour)	1.00	nos.	10200.00	10200.00
35.00	SITC of Cat6 UTP Patch Cord for patching at User Desk1Mtr. RJ-45 to RJ-45. This should be factory crimped and guaranteed performance with report	30.00	nos.	150.00	4500.00
36.00	SITC of Cat6 UTP Patch Cord for patching at User Desk 2Mtr. RJ-45 to RJ-45	30.00	nos.	180.00	5400.00
37.00	SITC of 12U cabinet Rack (depth 1200mm) for Mounting devices with all required accessories. There should be 15amp x 4 multiplug points x 1 power strips in each rack installed on both sides in the rear side of the rack, This should have 3-4 fans exhaust on the top, with metal perforated door on both side. This should also have adequate cable managers alongwith tagging on jack panels itself. The tagging has to be printed (and should not be handwritten)	1.00	nos.	16500.00	16500.00
38.00	SITC of Horizontal Cable Manager 1U	3.00	nos.	1270.00	3810.00
	Lighting and Power Distribution Board				

39.00	LIGHTING & POWER DISTRIBUTION BOARD : Supply, installation, testing & commissioning of following 415V Distribution Board (Double Door) including unloading & assembly, fixing on wall /steel structure, aligning, leveling, grouting etc. including all labour and materials. ELCB / RCCB rated for 100mA. All MCBs shall be rated for 10 KA Supply, Installation testing and commissioning of 12 way VTPN distribution board with 100A FP MCCB, 16KA as incomer and 12 nos 63 to 40 A TPMCB / 25 to 32A SPMCB as outgoing	1.00	no.	24500.00	24500.00
40.00	Supply, installation, testing & commissioning of following 415V Distribution Board (Double Door) including unloading & assembly, fixing on wall /steel structure, aligning, leveling, grouting etc. including all labour and materials. ELCB / RCCB rated for 100mA. All MCBs shall be rated for 10 KA 8WAY TPN MCB DB (For lgt. & pwr) Incomer : 1No.63A,FP, MCB 10KA 'C' Curve Sub Incomer- 3 Nos. 40A DP RCCB, 100 mA. out going : 4 Nos. 10/16/20A SP MCB 10 KA 'C' Curve with surge protection device.	3.00	no.	15500.00	46500.00
41.00	Supply and installation of 25-63 A FP MCB D curve with whether proof box and cable termination box	9.00	no.	1800.00	16200.00
	Cable and Termination				

42.00	<p>POWER & CONTROL CABLES Supply, Instalaltion, Testing & Commissioning of Power cables 1100 V Grade, Copper or Aluminum Conductors-multi-strand construction of only approved make (include unloading,shifting upto site). The cable shall be either laid on existing cable trays or in existing trench. The scope includes clamping of cables by ready made G.I. spacers, saddles or clamps fabricated out of M.S. strip 3 mm thick, Treasing and Clamping of Cable on cable tray, supply of all clamping materials and hardware etc., providing cable tags made out of aluminium strip and 75x20 mm in size with cable number and size punched on it. Cable tags shall be tied to cables at every regular interval at both the ends. As per IS No 7098, Part 1- XLPE Cables, IS No 1554, Part 1, 1988- PVC Cables, IS 694: 1990 SINGLE CORE COPPER CABLES. Contractor to measure the length of the cables @ site and then procure the cables. 4 core x 35 Sq. mm 2XFY (CU. XLPE armoured)</p>	50.00	rmts.	1210.00	60500.00
43.00	<p>POWER & CONTROL CABLES Supply, Instalaltion, Testing & Commissioning of Power cables 1100 V Grade, Copper or Aluminum Conductors-multi-strand construction of only approved make (include unloading,shifting upto site). The cable shall be either laid on existing cable trays or in existing trench. The scope includes clamping of cables by ready made G.I. spacers, saddles or clamps fabricated out of M.S. strip 3 mm thick, Treasing and Clamping of Cable on cable tray, supply of all clamping materials and hardware etc., providing cable tags made out of aluminium strip and 75x20 mm in size with cable number and size punched on it. Cable tags shall be tied to cables at every regular interval at both the ends. As per IS No 7098, Part 1- XLPE Cables, IS No 1554, Part 1, 1988- PVC Cables, IS 694: 1990 SINGLE CORE COPPER CABLES. Contractor to measure the length of the cables @ site and then procure the cables. 4 core x 16 Sq. mm 2XFY (Cu. XLPE armoured)</p>	30.00	rmts.	730.00	21900.00

44.00	POWER & CONTROL CABLES Supply, Instalaltion, Testing & Commissioning of Power cables 1100 V Grade, Copper or Aluminum Conductors-multi-strand construction of only approved make (include unloading,shifting upto site). The cable shall be either laid on existing cable trays or in existing trench. The scope includes clamping of cables by ready made G.I. spacers, saddles or clamps fabricated out of M.S. strip 3 mm thick, Treasing and Clamping of Cable on cable tray, supply of all clamping materials and hardware etc., providing cable tags made out of aluminium strip and 75x20 mm in size with cable number and size punched on it. Cable tags shall be tied to cables at every regular interval at both the ends. As per IS No 7098, Part 1- XLPE Cables, IS No 1554, Part 1, 1988- PVC Cables, IS 694: 1990 SINGLE CORE COPPER CABLES. Contractor to measure the length of the cables @ site and then procure the cables. 4 core x 10 Sq. mm 2XFY (Cu. XLPE armoured)	200.00	rmts.	520.00	104000.00
45.00	Core cutting in the existing RCC beam, cslab, pardi etc complete as directed by engineer in charge for electrical cable	7.00	no.	1200.00	8400.00
46.00	CABLE END TERMINATION Supply & Installation of Cable end termination of following Power cables 1100 V Grade, Copper or Aluminum Conductors-multi-strand. The termination rate shall include drilling of gland plates and dressing of cables inside panel / terminal box with and crimping of tinned copper double barrel lugs of required size. Glands shall be with double seal cone grip arrangement and PVC rubber hood. Cable glands shall be tinned brass 'SIBG' type. Blind plug to be fixed where as required. Contractor shall check cable diameter under and over armoured, prior to supply of glands. Ferrule to be considered for each and every Power and control cable. 4 core x 35 Sq. mm 2XFY (CU. XLPE armoured)	2.00	nos.	750.00	1500.00

47.00	CABLE END TERMINATION Supply & Installation of Cable end termination of following Power cables 1100 V Grade, Copper or Aluminum Conductors-multi-strand. The termination rate shall include drilling of gland plates and dressing of cables inside panel / terminal box with and crimping of tinned copper double barrel lugs of required size. Glands shall be with double seal cone grip arrangement and PVC rubber hood. Cable glands shall be tinned brass 'SIBG' type. Blind plug to be fixed where as required. Contractor shall check cable diameter under and over armoured, prior to supply of glands. Ferrule to be considered for each and every Power and control cable. 4 core x 16 Sq. mm 2XFY (Cu. XLPE armoured)	8.00	nos.	550.00	4400.00
48.00	CABLE END TERMINATION Supply & Installation of Cable end termination of following Power cables 1100 V Grade, Copper or Aluminum Conductors-multi-strand. The termination rate shall include drilling of gland plates and dressing of cables inside panel / terminal box with and crimping of tinned copper double barrel lugs of required size. Glands shall be with double seal cone grip arrangement and PVC rubber hood. Cable glands shall be tinned brass 'SIBG' type. Blind plug to be fixed where as required. Contractor shall check cable diameter under and over armoured, prior to supply of glands. Ferrule to be considered for each and every Power and control cable. 4 core x 10 Sq. mm 2XFY (Cu. XLPE armoured)	16.00	nos.	450.00	7200.00
	PA System				
49.00	SITC of Dual Tone Ceiling / Wall mounted speaker with all requisite mouting accessories to mount the speaker on False Ceiling / True Ceiling.				
50.00	6 Watts Output Ceiling Mounted	10.00	Nos.	2,100.00	21,000.00
51.00	6 Watts Output Wall Mounted	10.00	Nos.	2,100.00	21,000.00
52.00	SITC of Voice Alarm Controller with 4 zones selector, Inbuilt message manager, complete with interconnecting Cables, Rack mount.	1.00	Nos.	75,000.00	75,000.00

53.00	SITC of Voice Alarm Router with 4 zones selector, networked with the voice Alarm controller ,complete with interconnecting Cables, Rack mount.	0.00	Nos.	45,600.00	-
54.00	SITC OF Voice Alarm Call station with 4 zones selector	1.00	Nos.	75,000.00	75,000.00
55.00	SITC of Voice Alarm Call station keypad, to be connected to Voice Alarm Call Station as Given above, with 4 zones selector Switches;	1.00	Nos.	42,300.00	42,300.00
56.00	SITC of Auxiliary power supply	2.00	Nos.	5,075.00	10,150.00
57.00	SITC of Booster Amplifier				
58.00	120 W	1.00	Nos.	31,775.00	31,775.00
59.00	SITC of Background music source CD / AM-FM Tuner (BGM Source)	3.00	Nos.	13,775.00	41,325.00
60.00	SITC of Volume Control units for cabins				
61.00	100V LINE VOLUME CONTROL (12W)	3.00	Nos.	4,980.00	14,940.00
62.00	100V LINE VOLUME CONTROL (36W)	2.00	Nos.	5,350.00	10,700.00
63.00	100V LINE VOLUME CONTROL (100)	10.00	Nos.	11,670.00	116,700.00
64.00	SITC of ISI Marked Armored CAT 6 Cable For Voice Alarm call station / routers etc.	660.00	Rmt.	120.00	79,200.00
65.00	SITC of ISI Marked Armoured 2 core x 1.5 mm ² , Multistanded Copper Conductor, PVC sheathed Cable with Saddle Supports every 0.3 meters, fittings and accessories.	800.00	Rmt.	110.00	88,000.00
66.00	SITC of GI Floor Junction box of suitable size with necessary arrangement & required accessories for below JB's. 150 X 150 X 65 mm	5	Nos.	1,444.00	7,220.00
67.00	Supply and fixing of 1.6 mm thick factory fabricated steel sheet galvanized raceway with internal metallic partitions as per site requirements including 1.6 mm thick GI cover, knockout holes,fixing accessories, complete as required including bends, access boxes and cross over as per specification and site requirement. The Data and Voice raceway and cable junction should have water seepage protection treatment to be done on site. SITC of 100 x 38 mm GI raceway with 1 compartments.	41	Rmt.	2,136.00	87,576.00

68.00	Supply, unloading, shifting, storage & installation of hot dipped GI as per IS 2629, prefabricated Ladder / perforated Type Cable Tray made out of 2.5mm thk. sheet duly hot dip galvanized (610 gms per sq. mt.) in standard length of 3.0 mtr having side channel of size 100 x 30 x 10mm & inside slotted Rung of size 40 x 20 x 2.5 mm duly welded at an interval of 250mm, including 2 Nos. of GI Coupler Plate of size 215 x 90 x 2.5 mm with accessories and hardware (coupler plates, nuts bolts washers). All cable tray accessories like Bends, Tees, Reducers, elbow, supports to complete as required shall be fabricated as per site requirement and no extra cost. The welded part shall be touched up with anti-corrosive primer and silver paint. The running rate shall include fabrication of bends, tees and couplers, supports etc., to complete with no extra claim. The tray shall be earthed. 150x50mm GI perforated tray	65.00	RMt	650.00	42,250.00
69.00	Supply, Erection, Testing and Commissioning of 3 Mtr.Long Copper bonded Electrode, 50 mm Dia - Maintenance Free Earthing-Dual pipe technology as per approved make / specifications, adequately filled composition of highly conductive metallic compound includes construction of earth pit as per approved Brand / drawing, supply of high strength MS plate/Missionary/bricks/cement, excavation of soil (Natural / Rocky), backfilling, painting, Identifications etc.	2.00	nos.	15,000.00	30,000.00
70.00	Supply and laying Cu/GI. earthing strips for interconnecting the earthing stations, panels, DB's etc. in built-up trenches, on walls/ceiling, buried in ground generally as specified and shown on drawings complete with all job. 25 x 3 mm CU earth strips with all fixing accessories	25.00	Mtrs.	620.00	15,500.00
71.00	Supply and laying Cu/GI. earthing strips for interconnecting the earthing stations, panels, DB's etc. in built-up trenches, on walls/ceiling, buried in ground generally as specified and shown on drawings complete with all job. 25 sq mm single core flexible copper wire of green colour from main panels to grid earthing including termination	35.00	Mtrs	235.00	8,225.00

72.00	Earth Link : 40mm x 6 mm earth link.	2.00	No	3,500.00	7,000.00
73.00	10 sq mm single core flexible copper wire of green colour to accompany cables from main panels to distribution boards including termination	75.00	Mtrs.	110.00	8,250.00
74.00	6 sq mm single core flexible copper wire of green colour to accompany cables from main panels to distribution boards including termination	100.00	Mtrs.	65.00	6,500.00
				Total=	2969081.00