

Part - 4B**GENERAL STANDARD TECHNICAL SPECIFICATIONS INDEX**

Name of Work:	Renovation of Old Office Building at Survey No. 3523/3524	
Location :	At Himmatnagar	
Item No.	Description	Reference No
1	3	
1	Removing and scraping of old deteriorated plaster of any thickness from wall / R.C.C member including stacking of serviceable material and disposal of unserviceable from site of work with all lead and lift	20045/PG127
2	Demolition including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift. (i) R.C.C. work	20002/20.23/PG125
3	Demolition of Brick work and stone masonry including stacking of serviceable materials and disposal of unserviceable materials with all lead and lift.(ii) In Cement Mortar.	20003B/20.11/PG125
4	Dismantling doors, windows, ventilators etc. (wood or steel) shutters including chowkhats architraves, holdfasts and other attachment etc. complete and stacking them within all lead and lift.(ii) Exceeding 3 Sq.M. in area.	20013B/ PG 126
5	Add Extra for Disposing off the excavated stuff of above items for lead up to 3.00 km.	StatementNo.05 (B4), Sr.No.032001B4Material 4 Excavated earth-No.
6	Providing and laying controlled cement concrete M.200 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (C) Slabs,landing,shelves,Balconies Lintels, Beams, Girders and Cantilever First floor level.	Rate Analysis No. 6
7	Providing and laying controlled cement concrete M.200 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (C) Slabs,landing,shelves,Balconies Lintels, Beams, Girders and Cantilever Second floor level.	Rate Analysis No. 6
8	Providing and laying controlled cement concrete M.200 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (C) Slabs,landing,shelves,Balconies Lintels, Beams, Girders and Cantilever Ground & First floor level.	Rate Analysis No. 7
9	Providing and laying controlled cement concrete M.200 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (C) Slabs,landing,shelves,Balconies Lintels, Beams, Girders and Cantilever Second floor level.	Rate Analysis No. 7

10	Providing and laying controlled cement concrete M.200 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (E) Staircases excluding landing up to floor two level	Rate Analysis No. 08
11	Providing and laying controlled cement concrete M.200 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts up to floor two level.	Rate Analysis No. 09
12	Providing and laying controlled cement concrete M.200 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts up to S.F level.	Rate Analysis No. 09
13	Providing and laying controlled cement concrete M.200 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in (D) Columns, Pillars posts and struts up to T.F level.	Rate Analysis No. 09
14	Providing TMT Bar FE 500D reinforcement for R.C.C. work including bending, binding and placing in position complete up to floor two level	Item No.05014C/5.4.1148 /Page No 48+Item No 05016A/5.4.13A/PG 48
15	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in foundation and plinth in Cement Mortar 1:5. (1- Cement : 5 -fine sand)(B) Conventional up to Second Floor	Item No.06001BA/6.12,Page No,62+Item No.06006B/6.19/pg63+Item No 06007B2A/PG 63
16	Brick work using common burnt clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in foundation and plinth in Cement Mortar 1:5. (1- Cement : 5 -fine sand)(B) Conventional up to Third Floor	Item No.06001BA/6.12,Page No,62+Item No.06006B/6.19/pg63+Item No 06007B2A/PG 63
17	(i) Half brick masonry in common burnt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:4 (1- Cement : 4 -coarse sand) in foundation and plinth (B) Conventional	Item No:- 06008A2A /6.30 /PG 64+Item No:-06010B /6.32 /PG 65
18	Providing 20mm thick cement plaster in single coat on single or half brick walls for interior plastering up to floor two level and finished even and smooth in (i) Cement mortar 1:3 (1 cement:3-sand)	Item No.17003A/17.61,Page No,114
19	Providing 10mm thick cement plaster in single coat on brick/concrete walls for interior plastering up to floor two level and finished even and smooth in (i)Cement mortar 1:3 (1-cement:3-sand)	Item No.17001A/17.58,Page No,114
20	20mm thick sand faced cement plaster on walls up to height 10 meters above ground level consisting of 12mm thick backing coat of C.M. 1:3 (1-cement : 3-sand) and 8mm thick finishing coat of C.M. 1:1 (1-cement : 1-sand) etc. complete.	Item No.17009/ 17.95,Page No,115
21	Providing and fixing factory made solid core flush door shutter of approved make conforming to IS:2202 (Part-I), 35 mm thick, with hardwood internal frame and solid block board / particle board core, finished with 1.0 mm thick decorative laminate sheet of approved brand and shade on both sides, including approved adhesive, pressed in hot press, edges lipped with 1st class teak wood / hardwood lipping 6 mm thick, including making a vertical glass slit of required size and fixing 5 mm thick clear / frosted glass with teak wood beading and screws, complete in all respect including necessary	Rate Analysis No. 1

	cutting, finishing, labour, tools & tackles but excluding cost of fittings & fixtures, complete as directed by Engineer-in-Charge.	
22	Providing and fixing FRP frame size 125x65 mm and 35mm thick FRP shutter with wood grain raised paneled design finish shutter having extra reinforcement on sides & edges in Gel coat finish. The core of the shutter & frame is to be filed up with injected polyurethane foam done in situ alongwith embedded wooden pieces for stiffening & also taking hinges & finitues. The whole FRP frame & shutter is to be water proof weather proof, termite proof & resistance to mild acid/alkali. Rates are to be inclusive of S.S hinges with fastener sleeve & aluminum fixtures & fastenings.	10036/PG79
23	Designing, Providing & Fixing Three Track colour Anodized aluminum slide windows having colour anodized sections (of Domal Section or Equivalent Make) as per design .The top of the window shall be fixed with 5 mm thick Frosted/sand balasted toughened glass and at the bottom solid panel shall be fixed . The cost is including of locking arrangement, Roller, Bearing, 5 mm thick Frosted/sand ballasted toughened glass with fitting & fixture, black EPDM & transparent silicon Sealant on outer framing, all necessary accessories etc. complete for window and including Mosquito Shutter consisting of S.S.wire gauge of average width aperature 1.4 mm with wire of dia meter 0.63mm necessary cutting and making good etc. for window as per detailed drawings and instructions of an Architect/ EIC.	Rate Analysis No. 2
24	Designing, Providing & Fixing ventilation having colour anodized sections (of Domal Section or Equivalent Make) fixed with 5 mm thick frosted glass louvers and fixed glass window. The cost is including of locking arrangement, fitting & fixture, black EPDM & transparent silicon Sealant on outer framing, all necessary accessories etc. complete as per detailed drawings and instructions of an Architect/ EIC.	Rate Analysis No. 3
25	Providing & Applying two coats of putty & two coats of primer of approved brand and manufacture on new wall surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth Wall painting (two coats) with plastic emulsion paint of approved brand and manufacture on undecorated wall surface to give an even shade including thoroughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.	Item No 19032 / PG 124+ Item No 18031/18.57/PG 120
26	Finishing wall with weather proof exterior emulsion paint on wall surface (two coats) to give an required shape even shade after thoroughly brushing the surface to remove all dirt, and remains of loose powdered materials.etc complete	Item No 19031/ PG 124

27	P & L 24" x 24" vitrified 8 mm thick tile flooring over 20 mm (average) base of cement mortar 1:6 (1 cement: 6 coarse sand) on new surface or fixing on existing flooring by adhesive material including dismantling of existing flooring and jointed with color cement slurry including finished with flush pointing & cleaning the surface etc. complete for DARK shade	Item No 14020A/ PG 107
28	Providing and laying white glazed tiles 6mm thick in flooring treads of steps and landing laid on a bed of 12mm thick cement mortar 1:3 (1-cement : 3-coarse sand) finishing with flush pointing in white cement.	Item No 14008AA/ PG 14.29
29	Providing and laying white glazed tiles 6mm thick in skirting risers of steps and dedo on 10mm thick cement plaster 1:3 (1 cement : 3-coarse sand) and jointed with white cement slurry	Item No 14009AA/ PG 14.32
30	Providing and laying Granite Slab 18 mm thick in flooring ,treads of steps and landing laid on a bed of 12 mm thick cement mortar 1 :6 (1 cement :6 coarse sand) finished with flus pointing in white or colour cement With Half Round Mould as Director by Architect and Engineer In Charge.	Rate Analysis No. 10
31	Providing and fixing M.S grills or railing of required pattern to window gapes and terrace railing with M.S sections at required spacing's and frame around, square or round bars with round headed bolts and nuts or screws or M.S hold fast including of one coat of primer with two coats of oil painting etc. complete.	Rate Analysis No. 11
32	Providing and lying cement based waterproofing on roofs with a minimum slope of 1:100 and average thickness of 100 mm using brickbats of appropriate size and shape suitable to achive the required slope laid over 15mm thick waterproof cement mortar 1:4 on well prepared/cleaned RC roofs with joints between brickbats thoroughly grouted with waterproof cement mortar 1:4 and finished with 20 mm thick waterproof. plaster using cement mortar 1:4 and making false squares of 300 mm size including rounding of the junction of roof and parapet walls for a height of 300 mmm with brickbats nd 20mm thick waterproof plaster and conducting necessary leakage/dampness tests, furnishing ten years guarantee etc. all complete as directed.(waterproofing admixtures shall be of approved quality and dosage as recommended by the manufacture - Plastron AW PLUS) Providing & laying the flooring of broken china-mosaic (Brocken pieces of china glazed tiles)white set in 25 mm, average bed of cement mortar 1:3 with waterproofing compound to correct level and slope(1:100) well compacted and finished; such that minimum coverage of china mosaic chips is about 90% of the total area of slab. The above treatment shall continue along the inner side of parapet or the adjoining wall up to 30cm. height as per the above specification... Special Agency to be occupied and Warranty Of 10 year. 100rs Bond paper to be submit by Contractor. and on latter head Submitted By Executed Agency	Rate Analysis No. 4

33	Providing and applying water proofing for toilets with vertical walls of toilet and sunck portion all inclusive(bbc, IPS,grouting) with 2 coats two components acrylic polymer modified elastomeric cementitious water proof membrane coating (polycoat BB) on depressed/sunken slabs which shall be mixed as per manufacture's technical specification, after thoroughly cleaning the surface by mechanical means to making it free of any loose mortar, unsound substrate, "v" grooves cut along the construction joints, cracks and joints of slab /wall on the external face and same shall be filled with polymermodified mortar (CM 1:3 mixed with approved water proofing compound (platcone AW Plus)in the praportion recommended by the manufactures, cracks in the slab (if any), pressure grouting pump with a pressure of 3 to 4 kg/sqm, strictly maintain the coverage specified by the manufacture , application of 20 mm thick plaster with water proofing compound (AW Plus) in cement mortar 1:4 over the water proofing treatment. Including cost. Special Agency to be occupied	Rate Analysis No. 12
34	Providing & fixing 15 cm wide chicken mesh jali with nails & then application of 15 mm plaster on R.C.C. & masonry joints as per dir. of engg. In charge.	Rate Analysis No. 05
35	Providing throating or plaster drip and molding to R.C.C. Chhajja.	0
36	Providing and fixing wsh down water closet (European type,W.C. Pan) with integral P or S trap including jointing the trap with soil pipe in Cement Mortar 1:1 (1-Cement : 1-fine sand) (Seal and cover to be measured and paid for separately)(A) vitreous China Pattern :(i) in white colour	23010 - 23.112
37	Providing and fixing 12.5 Liters low level flushing cistern with a pair, of C.I. or Mild brackets, complete with fittings such as lead valve less syphon, 15mm nominal size brass ball valve with polythene float, C.P brass handle unions and couplings for connections, with inlet, outlet and overflow pipes, 40mm dia. porcelain enameled flush bend including cutting holes in walls and making good the same connecting the flush bend with cistern and closet (overflow pipe to be measured and paid for separately)(A) Vitreous China (I) In white colour	23013 - 23.115
38	Providing and fixing plastic seat and cover for wash down water closer with C.P. brass hinges and rubber buffers. (B) Black plastic seal and cover.	23017 - 23.121
39	C.P. Angle stop cock 15 mm Heavy duty with cap (1 for Tank & 1 for Jet Spray)	700 - M718
40	Jet spray heavy duty with S.S. Braided hose 60 cm long	720 - M738
41	Providing and fixing screw down bib taps of following size. (B) Brass chromium plated screws down Bib Tap. (i) 15mm dia. (1 for Bathroom & 1 for WC area).	23028B1 - 23.92
42	Providing and fixing White glazed vitreous Wall Hung Wash Basin 450x300 mm , with necessary CI or MS brackets with anticorrosive paint including cutting holes & making good. Rate inclusive for providing & fixing 32 mm dia CP waste coupling, 1 nos. CP Bib Tap 15mm NB and supporting brackets etc. Testing & installation as per drawing & specification.	195 - M213, 585 - M603 , 23020A - 23.135 , 23035 - 23.134, 23036, 135 - M153

43	Providing and fixing PVC AGRI. Rigid Pipe ISI marked brand as per IS:4985 (6 kg.) complete with including all necessary fittings and specials such as as 45 or 90 deg. bends, Tee's, Y's, clamps & hinges including cutting and making good the walls & ceiling for waste pipes, connections & as directed by the Engineer-in-Charge. (Wash out pipes from fixture to trap) 40 mm dia.	M.R.
44	Providing and fixing PVC SWR Nahni trap IS 14735 for drain - 100 mm diameter with jali of the following nominal diameter of self cleansing design with C.I sread down or hinged grating including the cost of cutting and making good the walls	23068 (GWSSB)
45	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 1/2" dia (15 mm) (Internal)	18.8.1 (DSR - 2023)
46	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for cold water supply, including all CPVC plain & brass threaded fittings and fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 1" dia (25 mm) (Internal)	18.8.2 (DSR - 2023)
47	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply and all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge Internal work - Exposed on wall 1.1/4" dia (32 mm) (External)	18.7.4 (DSR - 2023)
48	Supply, instalation, testing & commissioning of brass chrome plated isolation Threaded / flanged Ball valve / Butterfly Valve confirming to latest IS , PN 1.6, with necessary specials, union, nipples etc., to complete the job. 3" dia (75 mm)	GWSSB 22-23 / 14.1.B.3 & 15.a.3
49	Providing erecting and fixing double coated Syntex or equivalent HDPE (ISI) mark water tank of required capacity each with all necessary fittings & connections etc. completed on terrace.	0
50	Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed.(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete Cat-III	1-2-1-

51	Point wiring for secondary light point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires, in below type of pipe to be erected complete with earth continuity and necessary connection with primary light with accessories erected on Metal / PVC / wooden box covered with 3 mm thick PC(Polycarbonate) / Acrylic sheet for open / concealed wiring. with necessary Lamp holder / ceiling rose / H.D.Connector as directed.(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	1-1-4-F
52	Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed.(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling complete	1-2-2- F
53	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.[I] For 6A Plug and 6 a switch with 2-1.5 sq.mm Cu. Wire from nearby switchboard/mcb db board(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling completeCat. III	1-2-3-i-F
54	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.[II] For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board.(f) with medium class Rigid PVC pipe and accessories erected concealed in wall/ceiling completeCat. III	1-2-3-ii-F
55	Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.[III] For 16A Plug and 16 amp switch with 2-4 sq.mm Cu. Wire with 2.5 sq.mm (green) earthing wire from mcb d b board.	1-2-3-iii-F
56	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. Blank Plate Single cat III	1-2-6-7-

57	Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. Modular Indicating Call Bell cat III	1-2-6-19
58	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed.(A)20 mm	1-3-2-a
59	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed.(B)25 MM	1-3-2-b
60	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (A) with medium class Rigid PVC pipe and accessories (a) 2 wire 1.5 sq. mm	1-4-1-A-a
61	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (A) with medium class Rigid PVC pipe and accessories(B) with medium class Rigid PVC pipe and accessories (a) 2 wire 2.5 sq. mm	1-4-1-A-b
62	providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size.(A) with medium class Rigid PVC pipe and accessories.(a) 2 wire 4 sq. mm	1-4-2-A-a
63	Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessoriesCAT-III	1-2-4-
64	Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%, CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt ,LED LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (iii) 18-20 Watts, Surge - 2KV,IP-20, conventional 4 feet	2-15-1-

65	Supplying and erecting led lamps with following wattage capacity of 220 to 240 voltage, minimum 15000 burning hours life, 500 V in built-surge protection, Polycarbonate diffuser, mounting suitable for E14 / E27 / B22 lamp holders, pf >= 0.5 (iii) 10 to 15 watts	2-15-2
66	Supply, Installation, Testing and Commissioning of suitable sweep, BEE 5 Star rated, Ceiling fan with Brush Less Direct Current (BLDC) permanent ferrite magnet Motor, class of insulation: B, Rust free 3 nos. Aluminium blades, 2 nos. canopies, shackle kit with earthing provision, copper winding, Power factor not < 0.9, Service Value (CMM/W) minimum 6.85, Air delivery minimum 215 CMM, 350 RPM, 230v (tolerance as per IS : 374-2019), THD < 10%, with remote unit for Speed Control and all remaining accessories including safety pin, nut bolts, washers, temperature rise = 75 degree C (Max.), suitable for 140 to 285 Voltage and rectifier circuit with surge, over current and overload protection, 50 Hz, Single phase AC Supply, earthing etc. Complete as required. [Make shall be approved by Engineer in Charge] (B) 1200 mm Sweep (48")	5-1-7.
67	Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.	[5-2-3]
68	Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.	[5-2-5]
69	Supplying & erecting approved make low noise decorative exhaust fan having square frame ABS body with inbuilt lowers & square frame. 250mm with 1350 RPM Cat.II	5-3-3.
70	Providing & erecting 240 V MCB double pole switch for motor & inductive load (C Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity (B) 40 Amp. CAT-iii	3-10-2.
71	providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V, 50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed. (iii) 63 Amps. DP	3-12-1-iii
72	providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark .Cat.III (1 ph DB + LDB)	3-10-1-B
73	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs. (The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (iv) 12 way	3-11-5-A-iv
74	providing and erecting Miniature circuit breaker single pole 6A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark .Cat.III (1 ph DB + LDB)	3-10-1-B
75	Providing and erecting XLPE (IS:7098)(I)-88 ISI armoured cable multistrand / Solid Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables (C) 4 core 10 Sq. mm	4-3-4-C

76	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables.(C) 2 to 4 core 6/10 Sq. mm	4-6-1-c
77	Supplying & erecting in earthpit of minimum bore dia. 225mm size approved make Safe Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 80 mm having 80-200 Micron galvanising, Inner pipe dia of 40 mm having 200-250 Micron galvanising, connection terminal dia of 14 mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover.(approved make OEM has to submit test certificate including value of earth resistane of installation.[C] For Electrical Installation covering Transformer Neutrals, Lightning arrester Earthing, A.C.Plant & Sensitive Computer System(like Automation, SCADA)i.e. independent Earthing located in other than normal soil i.e. Soft Rock, Marshy Soil etc.. -Length of Pipe : 3 Mtrs. -Back filling Compound :2 nos Bags of 25 Kg.	3-14-10
78	Providing and erecting required size HOT deep Galvanised iron strip for earthing of H.T. , OCB/ ACB/ Transformer LT panel board, Motors etc. using proper clamp.	3-14-2-
79	Providing and erecting HOT deep Galvanised iron strip wire 8 to 16 SWG.	3-14-5