

# **CONTRACT DOCUMENT**

**VOLUME - 2**

## **SCHEDULE OF QUANTITIES**

Name of work: Renovation work at AcSIR HQ to establish various offices, in CSIR-  
HRDC, Campus Ghaziabad.



**ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH  
AcSIR Headquarters, CSIR-HRDC Campus, Sector 19,  
Kamla Nehru Nagar, Ghaziabad-201002**

**Renovation work at AcSIR-HQ to establish various offices, in CSIR-HRDC campus,  
Ghaziabad**

**Schedule of Quantities (Civil work)**

S.No	Description	Qty	Unit	Rate(in fig. & words)	Amount
1	Providing and laying Vitrified tiles in floor in diferent sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Double charge vitrified tile polished finish, size of Tile 800 x 800 mm. Make - Kajaria, Somany, orient bell, AGL, CERA	241	sqm		
2	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) bedding in laying of floor tiles and jointing with grey cement slurry @ 3.3 kg/ sqm.	241	sqm		(-)
3	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing or vitrified tiles.	264	sqm		(-)
4	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3 mm thickness.	241	sqm		
5	Providing and laying Vitrified tiles in diferent sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).Size of Tile 800x800 mm. Make - Kajaria, Somany, orient bell, AGL, CERA.	23	sqm		

6	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only. Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Glazed Vitrified tiles Matt/Antiskid finish of size, Size of Tile 600 x 600 mm. Make - Kajaria, Somany, orient bell, AGL, CERA	31	sqm		
7	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge. Size of Tile 800x800 mm.	264	sqm		
8	Grouting the joints of flooring tiles having joints of 3 mm width, using epoxy grout mix of 0.70 kg of organic coated filler of desired shade (0.10 kg of hardener and 0.20 kg of resin per kg), including filling / grouting and finishing complete as per direction of Engineer-in-charge. Size of Tile 600x600 mm	31	sqm		
9	Providing and fixing 16-18 mm thick gang saw cut, mirror polished, and prepolished, machine cut for kitchen platforms, vanity counters, window sills/skirting, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, etc. complete at all levels. Granite stone slab of colour black, Cherry/Ruby red/other similar quality. Area of slab over 0.50 sqm	16	sqm		
10	Providing edge moulding to 15-18 mm thick, including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge. Granite /full body vitrified tile.	36	metre		
11	Extra for making thick, the edges of granite/ full body vitrified tiles by Pasting 25-50mm strip of granite/ full body vitrified tile to make the edges thickness double. Excluding the cost of granite/ full body vitrified tile. ( The additional material used will be paid in original item)	8.00	metre		
12	Extra for moulding to 30-36mm thick granite stone/ full body vitrified tile (over & above corresponding item) in place of 15-18mm thick granite stone/ full body vitrified tiles, including mirror polishing.	8.00	metre		
13	Extra for fixing marble / granite stone, over and above corresponding basic item, in facia and drops of width upto 150mm with epoxy resin based adhesive, including cleaning etc. complete.	8.00	metre		

14	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3(1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.(Make Kajaria,Somany,Orient Bell,AGL,NITCO,CERA	148	sqm		
15	Extra for ceramic glazed tile of size 600 x1200 mm in place of ceramic glazed tiles considered in above item including grouting of horizontal joints of size approx. 3mm with epoxy grout.	148	sqm		
16	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to from grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required.	129	sqm		
	Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T'. Bottom exposed with 24 mm of all T-sections shall be pre-painted with polyester baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge. Note :- Only calcium silicate false ceiling area will be measured from wall to wall. No deduction shall be made for exposed frames/opening (cut outs) having area less than 0.30 sqm.The calcium silicate ceiling tile shall have NRC value of 0.50 (Minimum), light reflection >85%, non-combustible as per B.S. 476 part IV, 100% humidity resistance and also having thermal conductivity <0.043 w/mK. Make - Aerolite, St.Gobin, Hilux.				

17	Providing and fixing false ceiling at all heights including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50 mm long with 6 mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25 mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and	133	sqm		
	square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, difusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with : 12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) :2011 (Board with BIS certification marks). Make - St. Gobin, USG Boral, Vans Gypsun.				
18	P/F in wall lining, 12mm thick exterior grade HDHMR Board, plain with necessary screws etc. complete on steel framework,excluding cost of frame work. Make - Action Tesa or equivalent.	310	Sqm		
19	P/F decorative high pressure laminated sheet of 1.25mm thickness, Royal touche - LG 1663 or equivalent in panels of size as per design for wall cladings with suitable adhesive as per manufacture's recommendations. Equivalent items in other brands century / Green lam / Marino may be considered.	257.00	Sqm		
20	P/F wall cladding with 1 ft x 8ft /9.5ft, 6mm thick seamless ,waterproof , Borer proof, termite resistant, interior grade , charcoal panels in required design, pattern with suitable adhesive ( like Probond / Nail free )on existinf surface , complete as per manufacture's recommendation (Make E-3 vegas/ Euro pratik/ Ventura).	63	Sqm		
21	Dismantling aluminium/ Gypsum/wooden partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 50 meters lead as directed by Engineer- in-charge.	77	sqm		

22	Dismantling tile/ stone work in floors/ walls laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm.	176	sqm		
23	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	25	sqm		
24	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	2	cum		
25	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar.	2	cum		
26	Cutting holes of required size 300 x 300 mm to 400 x 400 mm in brick masonry wall for fixing of exhaust fan and making good the same etc. complete as per direction of Engineer-in- charge.	4	each		
27	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	241	sqm		
28	Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing pipe/ APP Membrane etc.	60.00	metre		
29	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:3(1 cement :3 coarse sand).	53.00	sqm		
30	Extra for providing and placing in position 2 Nos 6 mm dia. M.S. bars at every third course of half brick masonry.	53	sqm		
31	Centering and shuttering including strutting, propping etc. and removal of form for Shelves (Cast in situ)	5.00	sqm		
32	Centering and shuttering including strutting, propping etc. and removal of form for Small lintels not exceeding 1.5 m clear span, moulding as in cornices, window sills, string courses, bands, copings, bed plates, anchor blocks and the like.	10	sqm		
33	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement: 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	1	cum		
34	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	100	kg		

35	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4(1 cement :4 coarse sand)	5	cum		
36	Providing and laying cement concrete in retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets, sunken floor etc., up to floor five level, excluding the cost of centering, shuttering and finishing: 1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	1	cum		
37	12 mm cement plaster of mix: 1:4(1 cement: 4 fine sand)	63	sqm		
38	Washed stone grit plaster on exterior walls height upto 10 metre above ground level, in two layers, under layer 12 mm cement plaster 1:4 (1 cement : 4 coarse sand ), furrowing the under layer with scratching tool, applying cement slurry on the under layer @ 2 Kg of cement per square metre, top layer 15 mm cement plaster 1:1/2:2 (1 cement: 1/2 coarse sand : 2 stone chipping 10 mm nominal size), in panels with groove all around as per approved pattern, including scrubbing and washing the top layer with brushes and water to expose the stone chippings ,complete as per specification and direction of Engineer-in-charge (payment for providing grooves shall be made separately).	7	sqm		
39	15 mm cement plaster on the rough side of single or half brick wall of mix: 1:4(1 cement: 4 fine sand)	63	sqm		
40	Finishing walls with Acrylic Smooth exterior paint of required shade: New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm)	15	sqm		
41	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	401	sqm		
42	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content. With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	401	sqm		
43	Wall painting with premium acrylic emulsion paint, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour, Two or more coats	401	sqm		

44	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	268	sqm		
45	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer 3 mm thick water proofing membrane, black finished reinforced with non-woven polyester matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufacture of density at 25°C, 0.87-0.89 kg/ litre and viscosity 70-160 cps. Over the primer coat the layer of membrane shall be laid using Butane Torch and sealing all joints etc, and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 650/ 450N/ 5cm. Tear strength in longitudinal and transverse direction as 300/250N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane : 3 mm thick	208	sqm		
46	Providing and applying bituminous alu. Paint, suitable for applications on APP membrane to reflect sun / UV rays, in one coat as per manufactures recommendations.	208	Sqm		
47	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead : 75 to 80 mm dia pipe	10	metre		
48	Dismantling C.I. or asbestos rain water pipe with fittings and clamps including stacking the material within 50 metres lead :100 mm dia pipe	20	metre		
49	Dismantling of EWC & Urinals including flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	6.00	each		
50	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	30	cum		
51	Dismantling 15 to 40 mm dia G.I. pipe including stacking of dismantled pipes (within 50 metres lead) as per direction of Engineer-in-Charge. (a) Internal Work- Exposed on wall	30	metre		
52	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete, Flexible pipe, 32 mm dia/40m.	5	each		



53	Constructing brick masonry manhole in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:1.5:3 mix (1 cement : 1.5 coarse sand (zone-III) : 3 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) ; With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2	each		
54	Extra for depth for manholes : Size 90x80 cm, With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1	metre		
55	Providing and fixing square-mouth S.W. gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x 300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design: 100x100 mm size P type, With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2	each		
56	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, 20 mm nominal dia Pipes	60.00	metre		
57	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & 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. 15 mm nominal dia Pipes	20	metre		
58	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & 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. 20 mm nominal dia Pipes	25	metre		

59	Providing and fixing uPVC SWR pipe (single socketed pipe for solvent jointing), ISI marked, confirming to IS 13592, Type B under ground (trenching & refilling be paid extra) or above ground level, including jointing with seal ring & adhesive solvent for jointing, excluding cost of clamps if required.- 90mm dia.	10	Meter		
60	Providing and fixing uPVC SWR pipe (single socketed pipe for solvent jointing), ISI marked, confirming to IS 13592, Type B under ground (trenching & refilling be paid extra) or above ground level, including jointing with seal ring & adhesive solvent for jointing, excluding cost of clamps if required.-110mm dia.	30	Meter		
61	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter	15	metre		
62	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete, 110 mm.	8.00	each		
63	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	2	each		
64	Providing and fixing uPVC SWR pipe fittings confirming to IS 14735, including jointing with seal ring & adhesive solvent for jointing.- plain bands 87.5°-90mm	4	No.		
65	Providing and fixing uPVC SWR pipe fittings confirming to IS 14735, including jointing with seal ring & adhesive solvent for jointing. plain bands 87.5°-110mm	8	No.		
66	Providing and fixing uPVC SWR pipe fittings confirming to IS 14735, including jointing with seal ring & adhesive solvent for jointing. Door bands 87.5°-90mm	2	No.		
67	Providing and fixing uPVC SWR pipe fittings confirming to IS 14735, including jointing with seal ring & adhesive solvent for jointing. Door bands 87.5°-110mm	4	No.		
68	Providing and fixing uPVC SWR pipe fittings confirming to IS 14735, including jointing with seal ring & adhesive solvent for jointing. Plain tee - 90mm	4	No.		
69	Providing and fixing uPVC SWR pipe fittings confirming to IS 14735, including jointing with seal ring & adhesive solvent for jointing. Plain tee - 110mm	4	No.		
70	Providing and fixing uPVC SWR pipe fittings confirming to IS 14735, including jointing with seal ring & adhesive solvent for jointing. Door tee - 90mm	2	No.		

71	Providing and fixing uPVC SWR pipe fittings confirming to IS 14735, including jointing with seal ring & adhesive solvent for jointing. Door tee - 110m	2	No.		
72	Providing and fixing uPVC SWR pipe fittings confirming to IS 14735, including jointing with seal ring & adhesive solvent for jointing. Nahani trap - 110 x 75mm	4	No.		
73	Providing and fixing uPVC SWR pipe fittings confirming to IS 14735, including jointing with seal ring & adhesive solvent for jointing. Nahani trap - 110 x 110mm	8	No.		
74	Providing and fixing brass stop cock of approved quality : 20 mm nominal bore	2	each		
75	Providing and fixing white vitreous china extended wall mounting water closet of size 625/360/760 mm of Hindware italian collection cat no. 9253535 including providing & fixing white vitreous china cistern cat no. 92130 with dual flush fitting, of flushing capacity ), including seat cover, and cisten fittings complete set, including nuts bolts and gasket etc complete in all respect Equivalent product of other reputed makes CERA/PARRYWARE/JAQUAR/KOHLER may also the allowed.	5	Each		
76	Providing & Fixing table top white viterous china wash basin of size 600x400x160 mm and of CERA make, cat no. S2020176, including cost of fittings. Equivalent product of other reputed makes HINDWARE/PARRYWARE/JAQUAR/KOHLER may also the allowed.	5	Each		
77	Providing and fixing white vitreous china uniral of size 370X390X610 mm with integrated sensor, of Hindware etalian collection cat no. 60018, heavy water inlet from backside , including fixing on wall with suitable brackets , nuts and bolts, all as per manufacturers specification and direction of Engineer incharge. Equivalent product of other reputed makes CERA/PARRYWARE/JAQUAR/KOHLER may also the allowed.	2	Each		
78	Providing & Fixing CP/SS towel ring of Jaquar make cat no. AKP35721P. Equivalent product of other reputed makes HINDWARE/PARRYWARE/ROCA/KOHLER may also the allowed.	1	Each		
79	Providing & Fixing Hand shower (Health Faucet) Jaquar make cat no. ALD579 with 1 meter long easy flex tube in chrome finish 7 wall hook with N.R.V (Back flow preventer). Equivalent product of other reputed makes HINDWARE/PARRYWARE/ROCA/KOHLER may also the allowed.	5	Each		
80	Providing & Fixing Swivel mirror of size 630x445 of Jaquar make cat no. AKP35795. Equivalent product of other reputed makes HINDWARE/PARRYWARE/ROCA/KOHLER may also the allowed.	1	Each		

81	Providing and fixing 5mm thick mirror in required size (approx. 1.5m x 0.75m) on wall with necessary decorative mirror screws including making holes & rounding of edges.	3	Sqm		
82	Providing & Fixing Toilet paper holder with stainles sheet flap of Jaquar make cat no. AKP35753PS. Equivalent product of other reputed makes HINDWARE/PARRYWARE/ROCA/KOHLER may also the allowed.	5	Each		

83	Providing & Fixing chromium plated brush tall body sensor faucet for washbasin (battery operated), Jaquar make opal prime cat no. SNR-15017PM. Equivalent product of other reputed makes HINDWARE/PARRYWARE/ROCA/KOHLER may also be allowed.	4	Each		
84	Providing & Fixing chromium plated brush tall body sensor faucet for washbasin (battery operated with premixed water supply kit), Jaquar make opal prime cat no. SNR-15017PMPK. Equivalent product of other reputed makes HINDWARE/PARRYWARE/ROCA/KOHLER may also be allowed.	1	Each		
85	Providing & Fixing CP brass bibcock with flange, quarter turn, Jaquar cat no. DRC37037. Equivalent product of other reputed makes HINDWARE/PARRYWARE/ROCA/KOHLER may also be allowed.	5	Each		
86	Providing & Fixing CP Brass exposed body part of concealed stop cock and flush cock with fitting sleeve, operating lever, adjustable valve flange with seal. Jaquar make cat no. CQT-23083K. Equivalent product of other reputed makes HINDWARE/PARRYWARE/ROCA/KOHLER may also be allowed.	5	Each		
87	Providing & Fixing concealed stock cock regular body suitable for 15 mm pipe with spindle, extension and plastic protection cap (without exposed part), Jaquar cat no. ALD-083CQT. Equivalent product of other reputed makes HINDWARE/PARRYWARE/ROCA/KOHLER may also be allowed.	5	Each		
88	Providing & Fixing CP brass and angular stock cock with flange Jaquar cat no. CQT23059. Equivalent product of other reputed makes HINDWARE/PARRYWARE/ROCA/KOHLER may also be allowed.	7	Each		
89	Providing and fixing CP Brass 32 mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	5	each		

90	<p>Providing and fixing factory made UPVC laminated finish in wooden or solid colour sliding glazed/wire mesh window comprising of UPVC multi- chambered frame with in- built roller track and sash extruded profiles with TPE Gaskets &amp; duly reinforced with 1.50 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (Shape&amp;size according to uPVC profile), appropriate dimation of uPVC extruded glazing bead, EPDM gaskets in beading &amp;all other TPE Gasket in main sections, wool pile zinc alloy (white powder coated) touch locks with hook, zinc alloy body with single nylon rollers , SS fasteners of required size, for fixing frame to finished wall and necessary screws etc. Profile of frame &amp; sash with gasket shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. after fixing the frame the gap btween frame and adjust finnished wall shall be filled with weather proof silicon sealent over backer road of requires size &amp; of approve quality,</p>	31	Sqm		
	<p>All complete as per approved drg. &amp; direction of Engineer -in Charge. Note: Variation in profile dimentions in higher side be accepted but no extra payment on this account shall be made. The cost will be inclusive of Double glazed unit hermitically sealed , 6mm toughened glass on both side, having 12mm airgap, including EDPM gasket, perforated alluminium spacers, desiccant,sealant, both primary &amp; Secondary. The cost will also be inlussive of ss 304 mosquito net in black colour. Three track, 3panels sliding windows with two glazed &amp; one wiremesh panel.One glazed panel will be fixed (As per tentative drg. enclosed). The main frame will be of size 105mm (&amp; above ) x 50mm ( &amp; above). Sash will be of size 36mm (&amp; above ) x 60mm ( &amp; above), both having thickness of 2.1 ± 0.2mm and single glazing bead / double glazing bead of appropriate size. Complete in all respect,including suitable handle locking arragement etc., as per approved the drg. submitted by manufacture/their channel partners engaged by the contractor (Approved make FENESTA/ALUPLAST/AIS/VEKA/Duro plast). The tentative sketches of windows is enclosed.</p>				

91	<p>Providing and fixing factory made UPVC laminated finish in wooden or solid colour fixed glazed window comprising of UPVC multi-chambered frame,sash and mullion (wherever required) extruded profiles with TPE Gaskets &amp; duly reinforced with 1.50 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (Shape &amp; size according to uPVC profile), appropriate dimension of uPVC extruded glazing bead, EPDM gaskets in beading &amp; all other TPE Gasket in main sections, wool pile zinc alloy (white powder coated), SS fasteners of required size, for fixing frame to finished wall and necessary screws etc. Profile of frame &amp; sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. after fixing the frame the gap btween frame and adjust finnished wall shall be filled with weather proof silicon sealent over backer road of requires size &amp; of approve quality,</p>	3	Sqm		
	<p>All complete as per approved drg. &amp; direction of Engineer -in Charge. Note: Variation in profile dimentions in higher side be accepted but no extra payment on this account shall be made. The cost will be inclusive of Double glazed unit hermitically sealed , 6mm toughened glass on both side, having 12mm air gap, including EDPM gasket, perforated alluminium spacers, desiccant,sealant, both primary &amp; Secondary. Fixed panel window with frame size 60mm x 60mm and mullion 60mm x 75mm, all having thickness 2.1 ± 0.2mm and single glazing bead/double glazing bead, as required. Complete in all respect,including suitable handle locking arragement etc., as per approved the drg. submitted by manufacture/their channel partners engaged by the contractor (Approved make FENESTA/ALUPLAST/AIS/VEKA/Duro plast)</p>				
92	<p>Providing &amp; Fixing sleekline /slimline modular alluminium,single glazed partitions in fix portions, consists of alluminium sections 25mm x 45/40mm series with minm section thickness of 2mm (Powder coated with coating of 50 micron ) in frame including ceiling profile, floor profile, wall profile, integrated with profile to accomodate stiled glazed doors , including all required alluminium sections/ accessories, including providing &amp;fixing 12mm thick toughned glass, including glass packings, gasket etc, complete in all respect. (Make-OTIC/UNIDOR/KUBIK/Other reputed make, through their channel partners) The measurement for payment will be taken from outer to outer of the frame. The tentative sketch of the partitions to be fixed is enclosed.</p>	25.00	Sqm		

93	<p>Providing &amp; Fixing Aluminum stile glazed door shutter, stile size 60x35 mm, 2mm thick, profile of sleek line partitions system with frame size 45/40mm x 25mm, 2mm thick, integrated with fix partition system . 10mm thick toughened glass to be fixed in shutter. Aluminium profile will be 50 micron powder coated. Including necessary hardware( of make hafele) i.e SH hinges, SS lever handles(Code no. 902.92.966) with mortise lock (Code no. 911.77.296) Door closures (Code no. 931.77.009) &amp; door stopper etc, as per requirement.</p> <p>(Make-OTIC/UNIDOR/KUBIK/Other reputed make, through their channel partners) Quoted rates will be valid for 5% variation in size of door, as per site requirement.</p> <p>A single leaf shutter with frame of size 1m x 2.4m</p>	6.00	Each		
94	<p>Providing &amp; Fixing Aluminum stile glazed door shutter, stile size 60x35 mm, 2mm thick, profile of sleek line partitions system with frame size 45/40mm x 25mm, 2mm thick, integrated with fix partition system . 10mm thick toughened glass to be fixed in shutter. Aluminium profile will be 50 micron powder coated. Including necessary hardware( of make hafele ) i.e SS hinges SS lever handles (Code no. 902.92.966) with mortise lock ( code no. 911.77.296), Door closures (code no. 931.77.009) &amp; door stopper etc as per requirement .</p> <p>(Make OTIC/ KUBIK/ UNIDOR/Other reputed make, through their channel partners) Quoted rates will be valid for 5% variation in size of the door as per size requirement.</p> <p>B double leaf shutter with frame of size 1.6m x 2.4m</p>	1	Each		
95	<p>Providing and fixing frame work for partitions/ wall lining etc. made of 50x50x1.6 mm/other required sizes, hollow MS tube, placed along the walls, ceiling and floor in a grid pattern at required spacing , with necessary welding at junctions and fixing the frame to wall/ ceiling/ floors with steel dash fasteners of 8 mm dia, 75 mm long bolt, including making provision for opening for doors, windows, electrical conduits, switch boards etc., including providing with two coats of approved steel primer etc. complete, all as per direction of Engineer-in-charge.</p>	2580	kg		
96	<p>Providing and fixing thermal insulation with Resin bonded rock wool conforming to IS: 8183, density 48 kg/m<sup>3</sup>, 50 mm thick, wrapped in 200 G virgin Polythene bags placed over existing false ceiling and held in position by criss-crossing GI wire.</p>	86.00	sqm		



97	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For fixed portion Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	138	kg		
98	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) Polyester powder coated aluminium (minimum thickness of polyester powder coating 50 micron)	23	kg		
99	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws. Make DURO Century, Green Lam, Marino.	21	sqm		
100	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality, 1.0 mm thick.	29	sqm		
101	Making peep hole of size 50mm dia approx including fixinf of see through glass with necessary beeding.	4	Each		

102	Providing and fixing godrej make 240mm door handle seat with loack body (GLORIA Range) complete in all respects.	8	Each		
103	Providing and fixing stainless steel finish, Bathroom Pincylinder lock with necessary SS/CP barsh screw (Godrej Code no. 9843).	5	Each		
104	Providing and fixing door closer-Godrej T 72V (C Certified) for door weight 40 Kg- 80 kg, complete with necessary accessories and screws etc. complete.	8	each		
105	Dismantling of complete AHU plant with inlet & outlet pipe, Ducting; electrical cable & wires, wall acoustic,(The tent length of ducting is 15 m with varying cross section & tentative length of piping is 30m) Complete in all respect including stacking of all material in store ( Or other suitable location) & diaposal of unserviceable material on ground floor within a lead of 100m.	1.00	Job		
106	Providing and fixing white vitreous china division plate of size 36.5 x 16.5 x75cm or more of hindware/ cera/ pariware / jaquar make , complete in all respect.	2.00	Each		
107	P/F 12.5mm thick tapered edge gypsum plain board on M.S frame work (To be paid separately) with necessary screws, including joining and finishing to a flush finish with recommended jointing compound , tap & finishing with jointing compound complte in all respect as per manufacture's recommendations.	30	Sqm		
108	P/F double roller blinds, Zebrano Blinds ( MAC), Shade : Stanford, in premio model, Fabric Cassette with metal chain. Equivalent item in Vista or equivalent make may be considered.	29	Sqm		
109	P/F 3M FASARA glass Finishes, Dusted white on glass. Complete in all respect.	30	sqm		
110	Grading of floor with cement mortar 1:3 ( 1 cement :3 coarse sand )	2	cum		
111	Providing wood work in frames of doors, windows, and fixed in positions with dash fastners of suitable size & including cost of fastners. Seasoned and chemically treated hotlock wood or equivalent like Mirandi wood .	0.25	cum		
112	P/F 18mm thick exterior grade HDHMR Board, plain with necessary screws etc. Of approved brand In open shelves , racks, almirah, cupboards, boxes etc. with necessary screws excluding cost of fittings likes hinges , drawer channels etc. complete . Make - Action Tesa	23.00	sqm		

113	P/F 8mm thick exterior grade HDHMR Board, plain with necessary screws etc. Of approved brand with necessary screws on backing of racks, drawer, cupboard etc. complete . Make - Action Tesa	10.00	sqm		
114	Extra for using 36mm thick HDHMR board ( BY joining two 18mm thick board with suitable adhesive) in place of 18mm thick HDHMR board for open shelves, racks, almirah etc. Make - Action Tesa	10	sqm		
115	P/F S.S handles of approved quality & make with necessary screws - 125mm	8.00	each		
116	P/F S.S Soft closing spring hinges at 0 degree hinges ( Hydraulic type of approved make/brand to cupboard shutters with full threaded steel screws including making necessary recess in board and finished etc. complete as per direction of Engineer- in- charge.	6.00	each		
117	P/F Stainless steel soft closing heavy type telescopic drawer channels of approved make 500 mm long with screws etc. complete as per directions of Engineer - in - charge	6	Set		
118	P/F Stainless steel soft closing heavy type telescopic drawer channels of approved make 250-300 mm long with screws etc. complete as per directions of Engineer - in - charge	6	Set		
119	Supply of labour for shifting of material/ furniture, not dismantled by the contractor.	25	each		
120	Providing & laying heavy duty HDPE tarpaulin sheet to protect flooring during construction.	25	Kg		
121	P/F Stainless Steel A ISI 304 (18/8) kitchen sink as per IS: 13983 with S.S brackets/ clamps in wooden box including sealing with exterior grade silicon to make water tight including waste couplings & waste pipe.	1.00	each		
122	Extra for providing opening of required size & shape for wash basin/kitchen sink in marble/ granite including necessary holes for pillar tapes including polishings & rounding of cut edges etc. complete.	1.00	each		
123	P/F SS 304 grade square grating with frame size approx. 127mm x 127mm & drain pipe size 100mm with or without waste hole including cutting in tile / stone flooring & grouting of floor trap. Make chilly/ Sanjay chilly or equivalent	10.00	each		

124	P/F 4mm thick plywood, One side decorative veneer, confirming to IS: 1328 (type-1) & of approved brand /manufacture, for lining/cladding in required pattern with grooves, with necessary adhesive. Make - Century, Merino, Greenply.	33.00	sqm		
125	P/F decorative high pressure laminate sheet of 1.00mm thickness, Royal touche - SM 544 or equivalent in panels of size as per design for wall claddings with suitable adhesive as per manufacture's recommendations. Equivalent items in other brands century / Greenply/ Marino may be considered.	30.00	sqm		
126	Making groove of size approx. 3mm x 3mm in board/ ply,( fixed in wall clading/ panelling ) at required distance as per designed approved (the tentative spacing for vertical groove will be 60 cm & horizontal groove will be 2.4m or part ). Including application of French spirit polishing in groove ( after paisting of laminate). Masking tape should be applied before polishing to protect the laminate. The rate include material required for polishing.	425	m		
127	Providing and fixing 2nd class teak wood lipping/moulded bidding of size- 35/6 mm Fixed with woden adhesive of Approved quality and screw/nails on the edges of the wooden doors as per direction of Engineer-in-charge.	70	m		
128	Polishing in high gloss/matt finish melamine clear polish on wood work in required color/wooden shade texture with following process in the sequece as detailed below:				
A	The surface to be polished is rubbeed with sand paper 80/120 no. and then with sand paper of 160/180 nos.				
B	Applying two coast of sealer with spray gun and allowing sufficient drying time for 1st coat and 2nd coat is allowed to dry for 8 to 12 hrs.				
C	On drying of sealer coat, wet rubbing with emery cloth of finer grading with ample water to remove excess sealer layer and make the surface is applied with special grade melamine fillers to fill all the small and big hloes/ grooves etc. Filler coat to be allowed to dry for 4 to 6 hrs on which again a light wet rubbing is done this surface is further allowed to dry for 12 hrs.				
D	On this, 1st coat to melamine polish is applied with spray gun using melamine clear polish and melamine thinner in required proportion. This 1st coat is allowed to dry for 24 hrs. The final melamine polish is applied with compressor pressure spray gun using melamine clear polish and melamine thinner mixed in required proportion complete as per directions of Engineer - in- charge. (Final coat to be done in 1 or 2 layers without gap of time. )	33.00	Sqm		

129	Providing edge polishing to 15-18 mm granite/full body vitirified tiles including mirror polishing to give high gloss finish etc. complete as approved by engineer incharge	36	meter		
130	Providing and fixing bright finish brass/ SS 304 grade door stopper with necessary screws etc. complete	8	each		
131	Earth work in excavation in foundation trenches or drains, including dressing of side and ramming of bottoms, including getting out excavated soil and disposal of surplus excavated soil at directed, within a lead of 50 meter-All kind of soil	5	Cum		
<b>Total for Civil Work X</b>					
<b>Total Elec. &amp; AC Work Y</b>					
<b>Grand Total (X+Y)</b>					
<b>Grand Total (in words)</b>					

## Schedule of Quantities for Electrical & AC work

<b>Electrical Work</b>					
S.No	Description	Qty	Unit	Rate(in fig. & words)	Amount
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Group C, make should be Norisys Cube or Squire Series or equivalent model of Havells, North West.	95.00	Each		
2	Supply, Installation, testing and commissioning of recessed/surface mounting LED flat panel 2'X2', 42 watt with high efficient LEDs and glare free opal diffuser equivalent to cat no.VENUSNEOTW2X2PLR42WLEDTWMOD of Havells make including hanging/fixing arrangement complete with all respect as directed by engineer incharge. Make should be Phillips/Crompton greaves/Wipro /Havells.	33.00	Each		
3	Supply, Installation, Testing and Commissioning of 1200 mm sweep, BEE 5 star rated, ceiling fan with Brush Less Direct Current (BLOC) Motor, class of insulation: B, 3 nos. blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, Power Factor not less than 0.9, Service Value (CM/M/W) minimum 6.00, Air delivery minimum 210 Cum/Min , 350 RPM (tolerance as per IS : 374-2019), THD less than 10%, remote or electronic regulator unit for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 degree C (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. Make Havells, Usha, Crompton etc.	7.00	Each		
4	Supply, Installation, testing and commissioning of recessed/surface mounting round LED panel of 12 watt, LED series of Slim Panel lights has excellent lumen efficiency and most affordable high quality bulb with Aluminium body, Panel size : 6.5 Inchescut out size : 6 Inches Approx, including fixing arrangement complete with all respect as directed by engineer incharge. Make should be Phillips/Crompton greaves/Wipro /Havells.	45.00	Each		
5	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required. Regulator should be Anchor Roma plus/ panasonic vision, L&T Entice or equivalent.	7.00	Each		
6	Supply, Installation, Testing and Commissioning of 400 mm sweep, Cuboid 400 mm Remote Controlled 3 Blade Ceiling Fan suitable for 230 V, 50 Hz, single phase AC Supply, earthing etc. complete as required. Make- Halonix or equivalent.	5.00	Each		

7	Installation,testing and commissioning of ceiling fan including wiring the down rods of standard length ( up to 30 cm) with 1.5sq.mm. FRLS PVC insulated, copper conductor,single core cable as required.	20.00	Each		
8	Supply and fixing of MS plate 4 mm thick, 100x100 mm with fixing on roof by 4 nos fastners including providing and welding ceiling fan hook on MS plate as required as per site condition.	7.00	Each		
9	Supplying and fixing extra down rod of 10 cm length G.I. pipe,15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	20.00	Each		
10	Supply 300 mm sweep, single phase, 230 V 50 Hz, exhaust fan including all accessories such as frame, wings, capacitor, louvers/shutters etc complete in all respect as required. Exhaust fan should be USHA / Khaitan / Bajaj / Crompton Greaves or equivalent.	5.00	Each		
11	Installation of exhaust fan in the existing opening/making the suitable hole, including making good the damage, connection, testing, commissioning etac as required. Upto 450 mm sweep	5.00	Each		
12	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.				
a	1 or 2 Module (75mmX75mm)	10.00	Each		
b	3 Module (75mmX75mm)	25.00	Each		
c	6 Module (200mmX75mm)	15.00	Each		
d	8 Module (125mmX125mm)	10.00	Each		
e	12 Module (200mmX150mm)	35.00	Each		

13	Supplying and fixing metal box of 150 mm X 75 mm X 60 mm deep sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required.	10.00	Each		
14	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. All the switches, socket etc. make should be Norisys Cube or Squire Series or equivalent model of Havells, North West.				
a	5/6 A switch	10.00	Each		
b	15/16 amp switch	105.00	Each		
c	6 pin 15/16 amp socket outlet	105.00	Each		
d	Telephone socket outlet	10.00	Each		
15	Supply and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	50.00	Each		
16	Supplying and drawing 2 pair 0.5 sq mm FR PVC insulated copper conductor, unarmoured telephone cable in the existing surface/ recessed steel/ PVC conduit as required.	400.00	Meter		
17	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. ( All the wires/cables should be multistrand, ISI marked, Fenolex/ KEI/Polycab/ Havells make)				
a	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	200.00	Meter		
b	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	100.00	Meter		



c	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	500.00	Meter		
d	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	50.00	Meter		
e	4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire	20.00	Meter		
f	4 X 4 sq. mm + 2 X 4 sq. mm earth wire	20.00	Meter		
g	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	20.00	Meter		
h	4 X 10 sq. mm + 2 X 6 sq. mm earth wire	50.00	Meter		
18	Supplying and fixing AC box 3 way modular including 20A Single pole 240 volts "C" curve DP MCB, 15 Amp socket, 3 module GI box complete with all respect, connections, testing and commissioning etc. as required. AC box should be equivalent to anchor 98488 AC box 3-way modular UNO 20A SP, White of anchor make.	10.00	Each		
19	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator) (All the MCB's MCCB, MCB DB, should be Legrand/ L&T/ schneider make or equivalent.)				
a	8 way, Double door SPN DB	2.00	Each		

b	12 way, Double door SPN DB	2.00	Each		
20	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A, tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required. (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.) (All the MCB's MCCB, MCB DB, should be Legrand/ L&T/ schneider make or equivalent.)				
a	8 way (4 + 24), Double door	1.00	Each		
21	Providing and fixing 200 A, 36 kA, TP MCCB rating and breaking capacity and pole MCCB with thermomagnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required. (All the MCB's MCCB, MCB DB, should be Legrand/ L&T/ schneider make only.)	1.00	Each		
22	Supplying and fixing of following rating, 240 /415 volts, C series, miniature circuit breaker of following poles in the existing MCB DB/ MCCB in existing cubical panel board including drilling holes in cubical panel making complete with connections, testing and commissioning as required. (All the MCB's MCCB, MCB DB, should be Legrand/ L&T/ schneider make only.)				
a	5 to 32 amp. SP MCB	50.00	Each		
b	5 to 32 amp. SPN MCB	10.00	Each		
c	5 to 32 amp. TP MCB	2.00	Each		
23	Supplying and fixing of 25 mm steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.	50.00	Meter		

24	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall/making hole in the wall and making good the same in case of recessed conduit as required.				
a	25 mm.	100.00	Meter		
b	50 mm.	50.00	Meter		
25	Supplying and drawing of UTP 4 pair CAT 6 LAN Cable in the existing surface/ recessed steel/ PVC conduit as required. (Cable should be D - Link / Digi link make only) <b>(cable should be marked by ferrule at both ends)</b>				
a	1 run of cable	200.00	Meter		
b	2 run of cable	200.00	Meter		
c	3 run of cable	200.00	Meter		
26	Supply and fixing one no. wall mounting CAT 6 I/O connection box punch type internet socket with shutter on existing modular box complete in all respect excluding connections as required. (I/O box should be D -Link, Molex,AMP-Netconnect, Panduit make only.	15.00	Each		
27	Supply of following size of XLPE insulated, PVC sheathed, aluminum conductor armoured cable ISI mark of 1.1 KV grade as required. Make should be Havels/Polycab/KEI etc.				
a	3½ X 95 sq. mm	100.00	Meter		

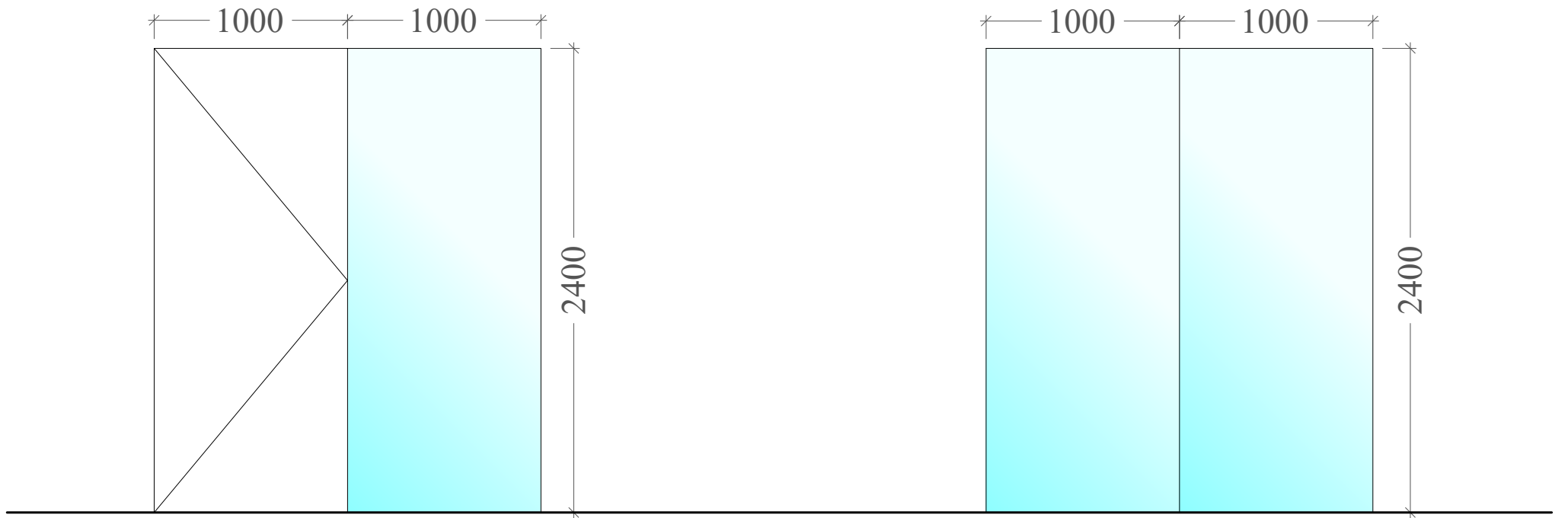
28	Laying and fixing of one number PVC insulated and PVC sheathed/ XLPE power cable of 1.1 KV grade of following size on wall surface as required.				
a	Above 95 sq. mm and upto 185 sq. mm (clamped with 25/40x3mm MS flat clamp)	100.00	Meter		
29	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
a	3½ X 95 sq. mm (50mm)	2.00	Each		
30	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	100.00	Meter		
31	Dismantalling and disconnection of old DB's DB's / small panels, switch board, tube, light fitting, fan, cable, wiring, conduit, etc as required as following.				
(a)	TL fitting, switch socket board, Db'/small panels etc.	50.00	Each		
(b)	Wiring , cable and Conduit etc.	50.00	Meter		

32	Supplying, installation, testing & commissioning of smoke detector with builtin LED and mounting base complete with all connections etc. as required.	14.00	Each		
33	Supplying, installation, testing & commissioning of manual call boxes of MS construction in surface/recess with stainless steel chain & hammer assembly complete with glass and push button etc. as required.	4.00	Each		
34	Supplying, installation, testing & commissioning response indicator on surface/recess MS box having two LEDs metallic cover complete with all connections etc. as required.	4.00	Each		
35	Supplying, installation, testing & commissioning fire alarm sounder with facility to make announcement, mounted in M.S. box (16 SWG) with hinged cover plate & suitable for operation with amplifier i/c line matching transformer etc. complete as required.	2.00	Each		
36	Supplying, installation, testing & commissioning sector panel suitable for 4 zones, complete with visual indications for short circuit fault, open circuit fault, fire condition and all other standard facilities as per IS:2189 with mimic diagram for all area/zone covered, complete with all connections, interconnections as required.	1.00	Each		
37	Supplying & laying of 2x1.5 sqmm fire survival armoured cable, 600/1000V rated with annealed copper conductor having glass mica fire barrier tape covered by an extruded layer of Cross Linkable Ethylene Propylene Rubber (EPR) insulation and LSZH inner bedding, steel wire armouring & LSZH outer sheath complete as required.	100.00	Metre		
38	Supplying & laying of 2x1.5 sqmm fire alarm armoured cable, 600/1000V rated with annealed copper conductor having XLPE insulation, steel wire armouring & FRLS outer sheath complete as required.	100.00	Metre		
39	Supplying and fixing 25 mm dia MS flexible pipe with PVC coating along with all ancillaries and accessories like coupler etc. as required.	100.00	Metre		

40	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required.				
A	200 mm X 250 mm X 75 mm deep	5.00	Each		
41	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB),having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
A	63 A	2.00	Each		
<b>TOTAL (Electrical Work) - A</b>					

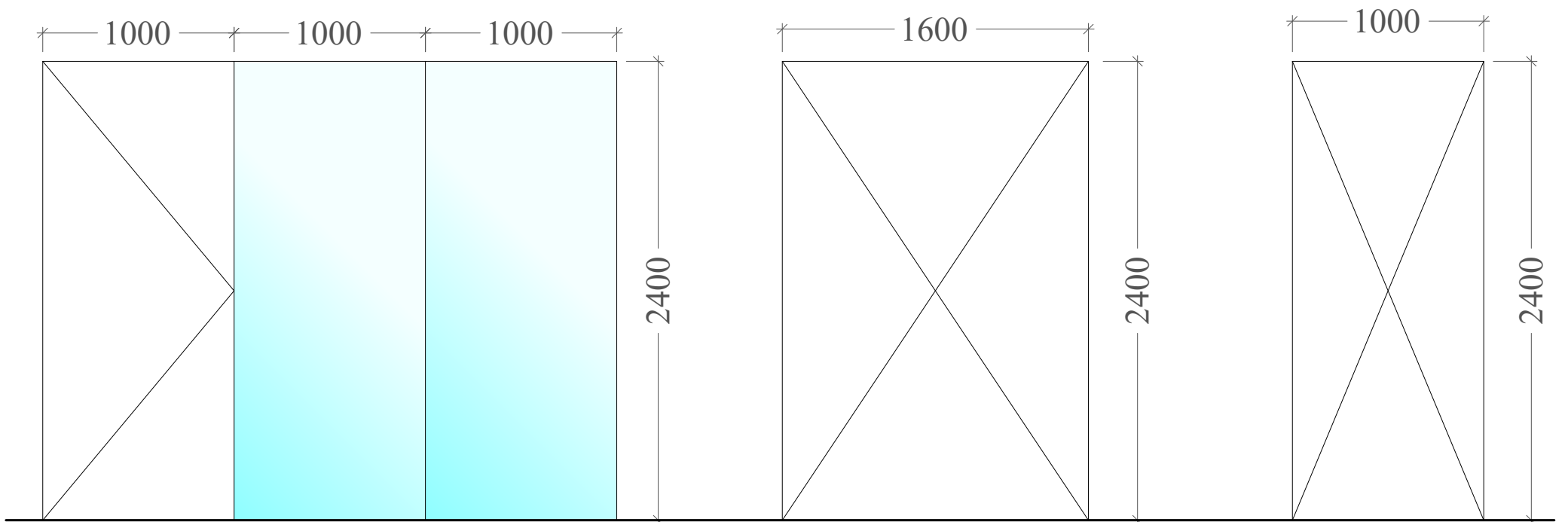
## Airconditioning Work

S.No	Description	Qty	Unit	Rate(in fig. & words)	Amount
1	S.I.T.C of various type of window/ split AC's.				
A	S.I.T.C. of 1.5 TR capacity split type Air conditioners (inverter series) Hot & Cold with green gas, Copper coil, BEE 5 star rating with all accessories including stand, standard copper pipe with insulation, electrical 4 core FRLS copper wire and drain pipe given by manufacturer. (Make should be O General (Model No. ASGG18KJTA-B) or Mitsubishi)	6.00	Nos		
B	S.I.T.C. of 2.0 TR capacity split type Air conditioners (inverter series) Hot & Cold with green gas, Copper coil, Minimum BEE 4 star & above rating with all accessories including stand, standard copper pipe with insulation, electrical 4 core FRLS copper wire and drain pipe given by manufacturer. (Make should be O General (Model No. ASGG24KJTA-B) or Mitsubishi)	2.00	Nos		
<b>TOTAL (AC Work) - B</b>					
<b>TOTAL (A+B)</b>					



P.S. ROOM\_1NO.  
DIR. ROOM\_1NO.

DIRECTOR ROOM




PROF. ROOM1  
PROF. ROOM 2  
CONF. ROOM

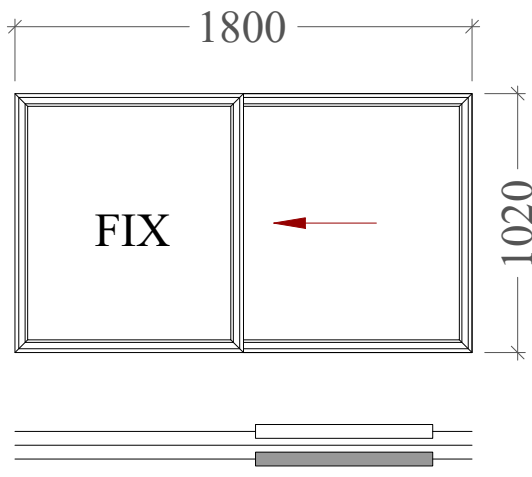
MAIN ENTRY DOOR

ROOM DOOR 5 NO.

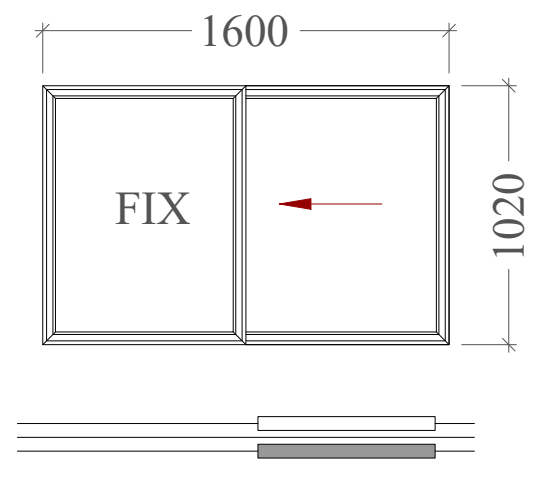
**PARTITION ( SPECIFICATIONS AS PER ITEM)**

PROJECT:- OFFICE INTERIOR WORK	DRAWING TITLE:- TENTATIVE SIZE OF SLIM LINE ALUMINIUM GLASS PARTITION		CONCEPT BY:-  ARCHPEDIA DESIGN STUDIO AR. ROHIT AGGARWAL CON. NO. : 9540428300
LOCATION:- KAMLA NEHRU NAGAR, GHAZIABAD	DATE:- 05-06-24	SCALE:- N.T.S	
CLIENTNAME:- ACSIR	DRAWING NO.:- 9	Page 31 REV:- 0	

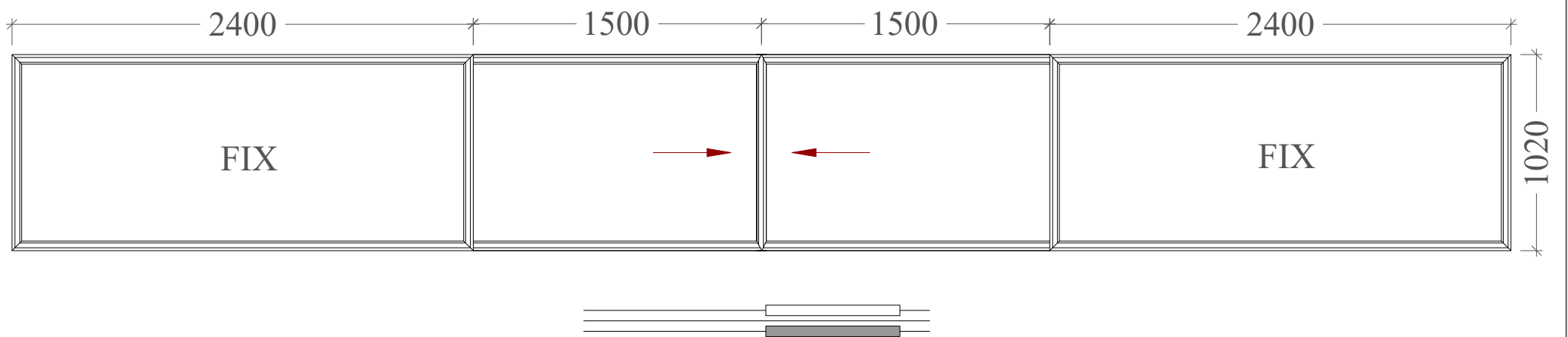




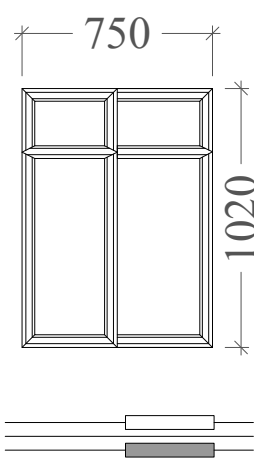
P.S. ROOM



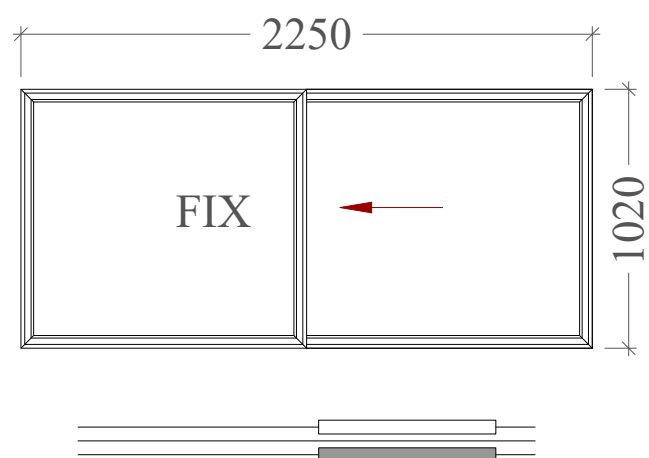
ANTE ROOM



DIRECTOR ROOM




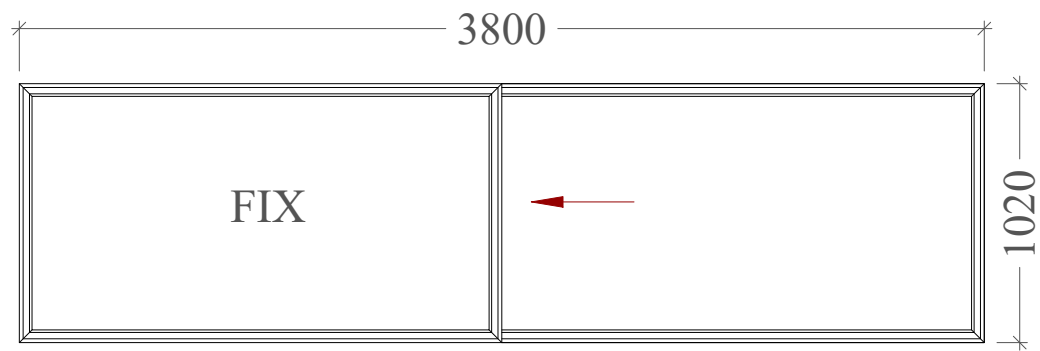
TOILET



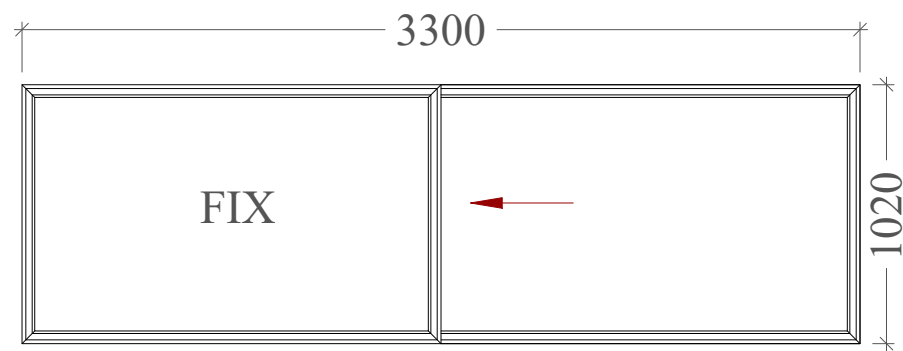
CONF. ROOM

( SPECIFICATIONS AS PER ITEM)

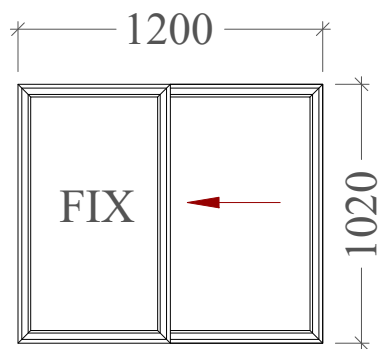
PROJECT:- OFFICE INTERIOR WORK	DRAWING TITLE:- TENTATIVE SIZE OF UPVC WINDOW		CONCEPT BY:-   <b>ARCHPEDIA DESIGN STUDIO</b> AR. ROHIT AGGARWAL CON. NO. : 9540428300
LOCATION:- KAMLA NEHRU NAGAR, GHAZIABAD	DATE:- 05-06-24	SCALE:- N.T.S	
CLIENT NAME:- ACSIR	DRAWING NO.:- 10	Page 32 REV:- 0	



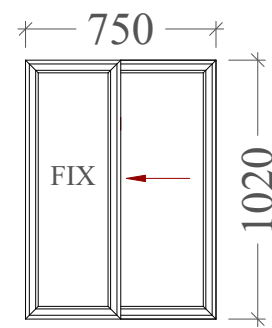
PROF. ROOM, CONF. ROOM



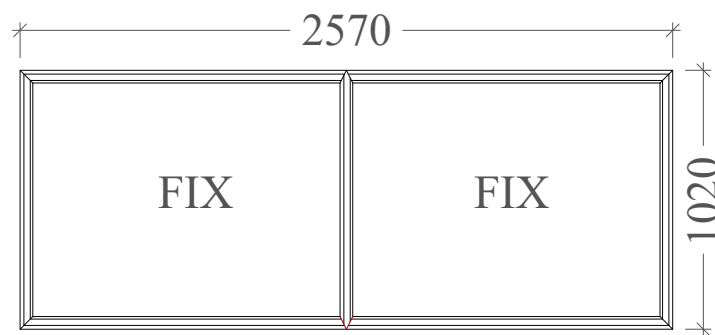
PROF. ROOM



COMMON TOILET  
(LADIES & GENTS)




RECORD. ROOM



CORRIDOR

( SPECIFICATIONS AS PER ITEM)

PROJECT:- OFFICE INTERIOR WORK	DRAWING TITLE:- TENTATIVE SIZE OF UPVC WINDOW		CONCEPT BY:-   ARCHPEDIA DESIGN STUDIO AR. ROHIT AGGARWAL CON. NO. : 9540428300
LOCATION:- KAMLA NEHRU NAGAR, GHAZIABAD	DATE:- 05-06-24	SCALE:- N.T.S	
CLIENT NAME:- ACSIR	DRAWING NO.:- 11	Page 33 REV:- 0	

# SAMPLE DOCUMENT

S.No	Description	Qty	Unit	Rate(in fig. & words)	Amount
1	Providing and laying Vitrified tiles in floor in diferent sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Double charge vitrified tile polished finish, size of Tile 800 x 800 mm. Make - Kajaria, Somany, orient bell, AGL, CERA	241	sqm	Rs 1540/- One thousand five hundred & forty only	Rs. 3,71,140/-
2	Deduct for not using 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) bedding in laying of floor tiles and jointing with grey cement slurry @ 3.3 kg/ sqm.	241	sqm	Rs 860/- Eight hundred sixty only	Rs. 2,07,260/-
3	Deduct for not grouting the joints with white cement and matching pigment in the items of fixing or vitrified tiles.	264	sqm		
4	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3 mm thickness.	241	sqm		
5	Providing and laying Vitrified tiles in diferent sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).Size of Tile 800x800 mm. Make - Kajaria, Somany, orient bell, AGL, CERA.	23	sqm		
6	Providing and laying Vitrified tiles in floor in diferent sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. Glazed Vitrified tiles Matt/Antiskid finish of size,Size of Tile 600 x 600 mm. Make - Kajaria, Somany, orient bell, AGL, CERA	31	sqm		