

<b>Subject:-</b> Renovation of Maintanace Office at Ground Floor South Block 2 (Moghul House), South Yard.					
<b>BILL OF QUANTITY - Civil Work</b>					
<b>It. No.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>Rate</b>	<b>Amount (Rs)</b>
<b>100</b>	<b>CIVIL WORK</b>				
10	<b>Dismantling tile/ Marble/ granite/any stone work</b> in floors and walls laid in cement mortar or plaster surface including stacking dismantling material at designated place within MDL premises before disposal as directed by Engineer in-charge. Also include disposal of dismantled or waste materials by manual, mechanical means, including loading, transporting, unloading to approved municipal dumping ground, for all lead, lifts & location involved, etc. complete and as directed by Engineer in-charge. <b>For thickness of tile/ Marble/ granite/any stone work from 6mm to 25 mm</b>	M2	4.00	89.44	357.76
20	<b>Dismantling tile/ Marble/ granite work in floors and walls</b> laid in cement mortar or plaster surface including stacking dismantling material at designated place within MDL premises before disposal as directed by Engineer in-charge.. Also include disposal of dismantled or waste materials by manual, mechanical means, including loading, transporting, unloading to approved municipal dumping ground, for all lead, lifts & location involved, etc. complete and as directed by Engineer in-charge <b>For thickness of tile/Marble/granite/any stone work above 25mm and up to 40mm</b>	M2	93.00	139.00	12927.00
30	<b>Dismantling aluminium / wooden / Gypsum partitions</b> , fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in MDL Premises as directed. Also include disposal of dismantled or waste materials by manual, mechanical means, including loading, transporting, unloading to approved municipal dumping ground, for all lead, lifts & location involved, etc. complete and as directed by Engineer in-charge.	M2	62.00	72.32	4483.84
40	<b>Dismantling doors, windows and clerestory windows (steel or wood) shutter of any size</b> including chowkhats, architrave, holdfasts, lowering down, stacking designated place or MDL wood scap bin , lead & all lifts involved, etc. complete and as directed by Engineer in-charge.	Nos	16.00	356.10	5697.60
50	<b>Dismantling carefully damaged portion of plaster of any finish</b> from the wall, ceiling, beams, columns, etc , raking out the joints to a suitable depth up to 20mm & cleaning/preparing the surface for new plaster/finish including stacking dismantled material at designated place within MDL premises before disposal as per direction of Engineer - in- charge etc. complete. Also include disposal of dismantled or waste materials by manual, mechanical means, including loading, transporting, unloading to approved municipal dumping ground, for all lead, lifts, location including scaffolding involved and as directed by Engineer in-charge.	M2	126.00	67.47	8501.22
60	<b>Removing existing paint of any fininsh with or without POP/putty</b> including scrapping, sand papering, preparing the surface smooth including necessary repairs to scratches, cleaining , watering, scaffolding, etc. complete andas directed by Engineer in-charge.	M2	746.00	25.26	18843.96
70	<b>Dismantling RCC Work</b> at any height / location including cutting reinforcement bars manually/ by mechanical means and stacking of steel bars within MDL premises and disposal of un-serviceable material outside MDL premises to approved municipal dumping ground, for all lead, lifts, location including scaffolding involved andas directed by Engineer in-charge.	M3	2.00	5347.88	10695.76
80	<b>Dismantling carefully PCC Work</b> at any height / location including carting away debris outside MDL premises to municipal dumping ground for all lead, lifts, location including scaffolding involved and as directed by Engineer in-charge.	M3	1.00	3073.80	3073.80
90	<b>Demolishing carefully brick work/ precast concrete block/Siporex block</b> of any thickness including tile work, plaster etc as directed & disposal of debris / outside MDL premises to approved municipal dumping ground, for all lead, lifts, location including scaffolding involved andas directed by Engineer in-charge.	M3	6.00	2698.12	16188.72
100	Pest control Treatment: Providing Chlorpyrifhos/Lindane E.C. 20% with 1% concentration , Diluting and injecting chemical emulsion for <b>anti-termite treatment</b> of existing masonry using chemical emulsion @ one litre per hole at 300 mm interval including drilling holes at 45 degree and plugging them with cement mortar 1:2 (1 cement : 2 coarse sand) to the full depth of the hole, cleaning the surface, etc complete and as directed by Engineer in-charge.	M	236.00	83.27	19651.72
110	Providing <b>brick masonry</b> with conventional / IS type bricks made with common burnt clay in all shapes and sizes in <b>Cement mortar 1:4 (1 cement : 4 coarse sand) in superstructure</b> including scaffolding, watering, racking out joints etc. complete.	M3	6.00	9385.12	56310.72
120	Providing <b>brick masonry</b> with conventional / IS type bricks made with common burnt clay in all shapes and sizes in <b>Cement mortar 1:4 (1 cement : 4 coarse sand) in superstructure</b> including providing and placing in position 2 Nos 6 mm dia. M.S. bars at every third course of half brick masonry, scaffolding, watering, racking out joints etc. complete.	M2	19.00	1233.96	23445.24

BILL OF QUANTITY - Civil Work					
It. No.	Item Description	Unit	Quantity	Rate	Amount (Rs)
130	Providing and fixing in position factory made <b>non asbestos fibre reinforced aerated cement sandwich wall/roof/floor light weight solid core panels</b> made of light weight cement concrete core composed of OPC cement, pulverized flyash, quick lime, cotton pulp & Gypsum in mortar state mixed with aeration agent in a preset mould. The outer face on both sides of the panels will be non asbestos fibre cement board conforming to IS 14862:2000. These solid wall panels are installed using Galvanized iron steel tracks/C channel of 1mm thick of required sizes as recommended by manufacturer's and fixed to floor and RCC soffit in plumb to each other with steel screw/fasteners. The panel shall be fixed vertically with tongue & groove joint with cement based polymer modified jointing compound. The exposed surface finished with fibre mesh/glass fibre tape with polymer based jointing compound having superior flexibility. Panels should be used as floor & roofing with additional structural support, steel or RCC depending upon the design. All the operation shall be completed in all respect as per drawings, Manufacturers specifications and under the overall direction of Engineer-in Charge (Cost of all the material is included except "tracks/C channel" which will be paid separately) <b>Non load bearing panels 75 mm thick</b> of required size (minimum 5mm thick fibre cement board Type B, Category III as per IS: 14862:2000 on both faces)	M2	52.00	1849.23	96159.96
140	Providing <b>internal cement plaster</b> 12mm thick in single coat in cement mortar 1:4 without neeru finish at any location & height to concrete or brick surfaces, in all position including scaffolding and curing etc. complete.	M2.	170.00	348.56	59255.20
150	Providing and applying <b>dash coat of Cement mortar (CM) 1:3</b> on the wall surface of average 20mm thick so as to keep the wall surface in line and level with adjacent RCC members including curing at any heights and locations etc. complete and as directed by Engineer In charge.	M2.	32.00	345.41	11053.12
160	Providing and applying <b>Royale Luxury Emulsion</b> of approved make on internal wall surface as detailed below Scrapping for surface with emery paper and wipe clean for area. wall primer with brush by adding mineral turpentine oil by 8 to 10 % or water by 15 to 20% allowing to dry for 6 to 8 hours After applying acrylic wall putty with appropriate prportion of water of allow to dry for period of 4 to 6 hours of activity. Scrapping with emery paper and wipe clean Applying paints Royale Luxury emulsion 1st coat with brush water content water 40 to 45% or 65 to 70% by role Applying paints Royale luxury emulsion 2nd coat with brush with water content 40 to 45% or 65 to 70 % by roller. Cost to includes preparing the surface, applying primer, wall putty, two coats Royale luxury emulsion, scaffolding, etc. complete. Note : All jambs, trims, edges, grooves, false ceiling moulding/drops/sides, etc. to be measured in square meter, no separate measurement on running meter.	M2.	813.00	325.14	264338.82
170	<b>Providing sand faced plaster externally</b> in cement mortar using approved screened sand, in all positions including base coat of 15 mm thick in cement mortar 1:4 using waterproofing compound at 1Kg per cement bag curing the same for not less than 2 days and keeping the surface of the base coat rough to receive the sand faced treatment 6 to 8 mm thick in cement mortar 1:4 finishing the surface by taking out grains and curing for fourteen days, scaffolding, etc.complete.	M2	205.00	755.51	154879.55
180	<b>Providing and applying two coats of external raincoat/weathershield painting with crack filling</b> acrylic polymer based chemical compound coating to the external surface of walls to prevent water seepage in the masonry walls during monsoon added with required shade Steiner to give required shade to the surface. Including providing three coat of priming of polymer base primer, preparing surface scrapping the existing loose old paint, removing loose particles of sand on the surface opening and cleaning the cracks developed in the external plaster, removing loose particles by chiseling, filling cracks by chemicals compound of approved make with proper penetration , two coat of exterior paint of approved shade with the help of brush and as per instructions and specification given by manufacturer and with instruction from Engineer in- charge. Work shall be executed by certified applicator only and including necessary testing, scaffolding , site cleaning, etc. complete.	M2	308.00	306.22	94315.76
190	Providing & Laying <b>Plain Cement concrete (PCC 1:2:4)</b> - Concrete (1 Cement: 2 coarse aggregate: 4 graded stone aggregate 20mm nominal size)-Cast in Situ at any location, curing excluding centering, shuttering etc. complete as directed.	M3.	2.00	9938.37	19876.74
200	Providing & fixing in position <b>Centering &amp; shuttering for concrete work</b> including strutting, propping etc. and removal of form work of approved type as directed by Engineer in charge.	M2	3.00	393.86	1181.58
210	<b>Providing &amp; laying water proof bedding to the toilet flooring</b> 25mm thick in C.M.(1:3) using approved water proofing compound in specified proportion as per manufacturers specifications for per bag of cement including leveling, curing etc. complete as directed.	M2	8.00	508.40	4067.20

BILL OF QUANTITY - Civil Work					
It. No.	Item Description	Unit	Quantity	Rate	Amount (Rs)
220	Providing & laying polished vitrified floor tiles in sizes of 60cm X 60 cm (thickness to be specified by the manufacturer ) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm 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. complete. Basic Rate of Vitrified tile = Rs. 640 /Sqm	M2	44.00	1560.23	68650.12
230	Providing and laying Vitrified tiles in sizes of 60cm X 60 cm (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in wall cladding/dado, skirting, riser of steps, etc. over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand) jointing with grey cement slurry @3.3 kg/sqm, including grouting the joint with white cement & matching pigments, etc. complete and as directed. Basic Rate of Vitrified tile = Rs. 640 /Sqm	M2	45.00	1630.13	73355.85
240	Providing and laying machine cut, machine polished Kota stone slab 25 to 30mm thick for floors, skirting, steps/staircase treads & riser (with rounded nosing and grooves), etc. over average 20mm thick base laid over of C.M 1:4 (1 cement : 4 coarse sand) and cement float jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing, curing, cleaning and polishing etc. complete and as directed.	M2	36.00	1474.36	53076.96
250	Providing and fixing 1.5 mm thick Polyvinyl Chloride flooring including leveling the base with white cement including pasting with appropriate material, cleaning the surface etc complete.	M2	7.00	757.87	5305.09
260	Granite of 18mm thick any colour and shade for area of slab up to 0.5 Sqm : Providing and Fixing Granite of gang saw cut mirror polished premoulded and prepolished machine cut for kitchen platforms, floors, wall cladding/dado, partitions, service counters, window sills, door frames, facias and similar location of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand ) with joints treated with white cement, mixed with matching pigments, epoxy touch ups, including scaffolding, rubbing, curing, moulding and polished to edge to give high gloss finish etc. complete at all levels as directed by Engineer-In-Charge. Basic Rate of Granite = Rs. 2497.00 /Sqm	M2	41.00	5437.12	222921.92
270	Granite of 18mm thick any colour and shade for area of slab over 0.5 Sqm : Providing and Fixing Granite of gang saw cut mirror polished premoulded and prepolished machine cut for kitchen platforms, floors, wall cladding/dado, partitions, service counters, window sills, door frames, facias and similar location of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand ) with joints treated with white cement, mixed with matching pigments, epoxy touch ups, including scaffolding, rubbing, curing, moulding and polished to edge to give high gloss finish etc. complete at all levels as directed by Engineer-In-Charge. Basic Rate of Granite = Rs. 2497.00 /Sqm	M2	5.00	5158.71	25793.55
280	Chipping of unsound/weak concrete upto 75mm average thickness of slabs, beams, columns etc. with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes , scaffolding, stacking dismantling material at designated place within MDL premises before disposal as directed by Engineer in-charge. Also include disposal of dismantled or waste materials by manual, mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer in-charge, for all leads and lifts involved. etc. complete.	M2	32.00	286.25	9160.00
290	Providing and applying Anticorrosive Treatment to exposed reinforcement portin of Slab/Beam / Column with one coat of alkaline RUST CONVERTER feouert/Rusticide or equivalent on exposed reinforcement after cleaning the surface with suitable light tapping wire brush , followed by two coats of anticorrosive or rust preventive coating epoxy phenolic IPNET RB/POLYALK FLXOPRIME or equivalent rebar protection coating on exposed reinforcement, including curing, scaffolding, etc.complete.as directed by Engineer In-charge.	M2	32.00	343.39	10988.48
300	Providing and applying Bonding coat between concrete members like RCC slabs, columns, beams, Chajias,pardis etc and cement mortar plaster using HACK AID PLAST of M/s. Sunanda Speciality Coatings Pvt. Ltd. or equivalent as per the instructions of manufacturer or Engineer Incharge; including cleaning the concrete surface thoroughly to remove dust, dirt, grime, desluttering oils and rub down to a clean surface at all heights/ levels and locations and as directed by Engineer Incharge.	M2	10.00	32.23	322.30
310	Providing and applying POLYMER MODIFIED MORTAR(PMM) in proportion of 1(Polymer) : 5(Cement) : 15 (Quartz sand) by weight with water cement ratio of 0.35 including application of bond coat of Krishna Conchem or equivalent using brush in ratio of 1 (Polymer) :1 (Cement) : 0.35 (water) by weight including cleaning of surface with air mixed with water under pressure, and subsequent layer upto 10mm after hardening curing; all complete.(Polymer manufactured by sunanda, pidilite, fosroc, acro- chem, build core or equivalent) all complete as approved & as directed by Engineer.	KG	2112.00	54.30	114681.60

BILL OF QUANTITY - Civil Work					
It. No.	Item Description	Unit	Quantity	Rate	Amount (Rs)
320	<p><b>False Ceiling with 8mm thick Calcium Silicate Board</b> : Providing &amp; fixing false ceiling at all height including providing &amp; fixing of framework made of special section, power pressed from M.S. sheets and galvanised with zinc coating of 120 gms/ sqm (both side inclusive) as per IS : 277 and consisting of angle cleat of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm c/c, 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 25 x10 x0.50 mm of required length with nuts &amp; bolts of required size and other end of angle hanger fixed with intermediate G.I channels 45 x15 x 0.90 mm running at the spacing of 1200 mm c/c, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5mm, at 450 mm c/c, shall be fixed in a direction perpendicular to G.I intermediate channel with connecting clip made out of 2.64 mm dia x 230 mm long G.I wire at every junction, including fixing perimeter channels 0.50 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/ partitions with the help of Rawl plugs at 450 mm centre, with 25 mm long dry wall screws @ 230 mm interval, including fixing of Calcium Silicate Board to ceiling section and perimeter channels with the help of dry wall screws of size 3.5 x25 mm at 230 mm c/c, including jointing &amp; finishing to a flush finish of tapered and square edges of the board with recommended jointing compounds, jointing tapes,finishing with jointing compounds in three layers covering up to 150 mm on both sides of joints and two coats of primer suitable for boards, all as per manufacture's specification.</p> <p>Also including the cost of making opening for light fittings, grills, diffusers, cut outs 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 to false ceiling.</p> <p><b>8 mm thick Calcium Silicate Board</b> made with Calcareous &amp; Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process</p> <p>Note: False ceiling will be measured on horizontal plane only. Horizontal plane measurements are to be inclusive of all vertical drops, edge moldings, fascias, etc. No separate measurements for this work to be made. Rate quoted include all cut-outs and support framework required for light fixtures, speaker, smoke detectors, AC grills/diffusers, trap doors, ply supports for light fittings and other services cut-outs required, etc. complete and as directed by Engineer-in-charge.</p>	M2	18.00	1579.16	28424.88
330	<p><b>False Ceiling with 8 mm thick fully perforated calcium silicate tile of size 595x595 mm</b> : Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.</p> <p><b>8 mm thick fully perforated calcium silicate board</b> made with Calcareous &amp; Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm , of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC ( Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.</p> <p>Note: False ceiling will be measured on horizontal plane only. Horizontal plane measurements are to be inclusive of all vertical drops, edge moldings, fascias, etc. No separate measurements for this work to be made. All extra tiles occupied by lights and diffusers to be handed over to MDL. Rate quoted include all cut-outs and support framework required for light fixtures, speaker, smoke detectors, AC grills/diffusers, trap doors, ply supports for light fittings and other services cut-outs required, etc. complete and as directed by Engineer-in-charge.</p>	M2	33.00	1797.26	59309.58

BILL OF QUANTITY - Civil Work					
It. No.	Item Description	Unit	Quantity	Rate	Amount (Rs)
340	<p>Providing and fixing <b>12.5 mm thick tapered edge gypsum moisture resistant board for false ceiling</b> at all height 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 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts &amp; 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 25mm 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 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.</p> <p>Also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge ( excluding the cost of painting).</p>	M2	5.00	1535.77	7678.85
350	<p>Providing and fixing in position. (as per I.S.1868 / 1982) <b>Colour Anodising Aluminium sliding window of two tracks</b> with rectangular pipe having overall dimension 63.50 x 38.10 x 1.02 mm at weight 0.547 Kilogram/One Running Metre, and window frame bottom track section 61.85 x 31.75 x 1.20 mm at weight 0.695 Kilogram/One Running Metre. Top and side track section 61.85 x 31.75 x 1.30 mm at weight 0.659 Kilogram/One unning Metre. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 Kilogram/One Running Metre. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 Kilogram/Running metre. And handle section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/One Running Metre, and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineer in charge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass and lock with all required screws and nuts etc, complete.</p>	M2	15.00	6163.46	92451.90
360	<p>Providing and fixing in position (as per 1868 / 1982) <b>Colour Anodising Aluminium Sliding window of three tracks</b> with rectangular pipe 95 x 38.10 x 0.90 mm at weight 0.637 Kilogram/One Running Metre. with window frame bottom track section 92 x 31.75 x 1.30 mm at weight 1.070 Kilogram/One Running Metre.. Top and side track section 92 x 31.75 x 1.30 mm at weight 0.933 Kilogram/Running metre. The shutter should be of bearing bottom 40 x 18 x 1.25 mm at weight 0.417 Kilogram/One Running Metre. Inter locking section 40 x 18 x 1.10 mm at weight 0.469 Kilogram/Running metre, and handle and top section 40 x 18 x 1.25 mm at weight 0.417 Kilogram/Running metre. As per detailed drawings and as directed by Engineerincharge with all necessary Aluminium sections fixtures and fastenings such as roller bearing in nylon casting and self locking catch fitted in vertical section of shutter including 5 mm thick plain glass , lock and aluminium mosquito net shutter with stainless steel jali with all required screws and nuts etc, complete</p>	M2	7.00	6414.11	44898.77
370	<p>Providing &amp; Fixing approved type of Soft Translucent <b>Roller Blinds</b> with imported mechanism,approved make on windows including lapping, wastage, transportation, labour with hardware, etc. all complete and as directed by Engineer In charge.(clear area of window as fixed in position will be measured. Basic Rate =Rs. 1200/- per sqm</p>	M2	7.00	1233.51	8634.57
380	<p><b>Fixed Portion:</b> Providing and fixing <b>Colour Anodising Aluminium work</b> for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS 733 and IS 1285, Anodised transparent or dyed to required shade according to IS 1868. (Minimum anodic coating of grade AC 15), fixed with raw plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/ neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle.. Aluminium snap beading for glazing/ panelling, CP brass/ stainless steel screws, all complete as per drawings and the directions of Engineer in Charge (Glazing, dash fasteners and panelling to be paid for separately)</p>	kg	131.00	497.45	65165.95

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It. No.	Item Description	Unit	Quantity	Rate	Amount (Rs)
390	Providing and fixing <b>Thermal insulation with Resin Bonded Rock Wool</b> conforming to IS: 8183, having density 48 kg/m <sup>3</sup> , 50 mm thick,wrapped in 200 G Virgin Polythene Bags fixed to <b>wall/partitions</b> with screw, rawel plug & washers and held and in position by criss crossing GI wire etc. complete as per directions of Engineer-in-Charge.	kg	7.00	323.91	2267.37
400	Providing & fixing <b>10mm thick Calcium Silicate Board</b> made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process with Compressive Strength 225 kg/ sq.cm, Bending Strength 100 kg/ sq.cm to Wooden or Aluminium Sections frame work including making cutout for electrical conduits, support for access control lock complete as per detailed drawings. The boards to fixed the frame with staggered joints to avoid through cracks. The boards fixed to the studs using metal flat head screws, including jointing and finishing to a flush finish with recommended jointing compound, jointing tape, joint finisher and two coats of primer suitable for board as per manufacture's specification, including scaffolding, cleaning and direction of engineer in charge all complete. (Frame work to be paid separately )	M2	35.00	822.60	28791.00
410	Plywood paneling: <b>9mm thick BWP Marine Plywood</b> conforming to IS:710 on one side screwed to frame work with joints as shown in drawing or directed including trims on all edges. Basic rate of plywood =Rs. 1042 per Sqm	M2	5.00	1443.70	7218.50
420	Providing & Fixing <b>1.5 mm thick decorative high pressure laminated sheet</b> of plain / wood grain in gloss / matt / nude 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, lipping, beading, etc. complete as per directions of Engineer-in-Charge. Basic rate of laminated sheet =Rs. 485 per Sqm	M2	35.00	1050.51	36767.85
430	Providing and fixing <b>float plain / obscured glass panes of 8 mm thickness</b> (weight not less than 20 kg/sqm) in wooden/aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc complete as per the drawings or as directed by engineer in charge (Cost of aluminium snap beading or wooden beading shall be paid in basic item ) (Area of opening for panel to be measured excluding portion inside grooves or rebates)	M2	3.00	1692.75	5078.25
440	Providing and fixing <b>12 mm thick Toughened Galss</b> in partitions/doors with wooden beading around the periphery of glass on both side with melamine polish, cleaning, etc. complete as directed by engineer In charge .	M2	8.00	3361.22	26889.76
450	Supply, fixing and installation of <b>4mm thick Aluminium Composite Panel (ACP)</b> of approved colour for external cladding in combination of solid and metallic colours, including all necessary Framework, support and complete weather sealing as per drawing. The Aluminium Composite Panel (ACP) should be made out of thermoplastic core of low-density polyethylene LDPE (100% virgin mix), sandwiched between two aluminium sheets of ALLOY GRADE- 5000 series, each not less than 0.50 mm thick, total thickness of aluminium composite panels not to be less than 4 mm, the exposed surface thereof shall have Stove lacquered finishing coat not less than (26 + - 2) micron (containing minimum 70% kynar 500 based PVDF) of colour and shade as per approved design and drawing. The inside surface (facing the building exterior surface)shall have polyester based powder coating not less than 25 Micron with protective peel-off foil on the exterior face (peel off film will in no case leave any adhesive mark over the composite panel surface after it is peeled off). The supporting framework shall be made out of 50 mm X25mm X 3mm thick Aluminium section to be spaced horizontally and vertically for fixing of panel of size 900 mm X 1200 mm and fixed to the building structure as per design through 50mm X50mm X5 mm MS angle clamps prefixed to masonry or slab, columns with Hilti make anchor fastener screws. The fixing of panel to be done with the help of VHB tapes and screws and all the sealing of joints to be done with weather sealant Silicon as directed by Engineer-in-charge.	M2	11.00	3957.24	43529.64
460	Providing and fixing <b>Fully Glazed Door Shutters</b> with 12mm thick toughened glass of approved make fixed on patch fittings of PT standard patch fitting set includes top pivot, bottom patch, top patch, corner lock US 10 lock with EPC 60mm of approved make and as per design anddrawing given by the Engineer -in Charge including accessories, PVC edging, approved make floor spring, SS handle 300mm long, lock, diamond edge polishing & drilling of holes etc. complete as per drawing and as directed	M2	2.10	9051.05	19007.21
470	Extra for providing <b>Rectangular or Square Vision Panel</b> not exceeding 0.1 Sq.M. in all type of flush doors ( cost of glass excluded ) ( Overall area of door shutter to be measured )	M2	19.00	200.02	3800.38

BILL OF QUANTITY - Civil Work					
It. No.	Item Description	Unit	Quantity	Rate	Amount (Rs)
480	Providing & fixing in position <b>35 mm thick 1st quality water proof Single Leaf solid core Flush Door for pantry, meter room, etc</b> with 1.5mm thick laminate on both sides with 12x35mm lipping patti on all edges. Rate is inclusive of s.s.fixtures & fittings, such as hinges, handles- 300mm on both sides, tower bolts, locks, door stopper of make including 450 x 150mm aluminum ventilation grill with powder coated, as per drawing and design, etc. complete and as directed by Engineer	M2	3.00	11704.78	35114.34
490	Providing & fixing in position <b>35 mm thk solid core</b> approved brand flush door, finished with 1.0 mm thk.Laminate of approved pattern from bothside and inclusive of heavy duty brass hinges of 100 x 25mm along with approved make cylindrical lock, S. S. finish Handles-300mm, S. S. finish Tower bolt-200mm, etc as per approval and t.w. beading wherever required for the internal door shutter and complete all as per drg., details and as directed. all complete & as directed by Engineer	M2	16.00	8694.32	139109.12
500	<b>Providing &amp; fixing IInd class Teak Wood in window /doors frames / shutters</b> as per existing section in place of decayed portion and fixed in position by joining with the existing etc. complete as directed.	M3.	0.10	143573.36	14357.34
510	Providing and fixing aluminium die cast body tubular type <b>universal hydraulic door closer</b> (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm) with necessary accessories and screws etc. complete.	Each	7.00	1129.76	7908.32
520	Providing and fixing approved make <b>frosted film on glazed portion of doors and partitions</b> at locations as per detailed architectural drawing and as directed by engineer in charge at any height / Location etc.	M2	7.00	1401.72	9812.04
530	<b>Providing and fixing Hanging floor door stopper</b> with Twin rubber stopper ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws , etc complete as per the drawing and direction of the Engineer-in-charge.	Nos	10.00	72.67	726.70
540	Providing and Fixing <b>MS Safety grill/ ornamental grill</b> of approved design weighing from 15 to 20 Kg / Sq.M of weight specified below for windows as per design including fabricating the grill using M.S. square / round bar, flats and angles including necessary hold fasts, frame for AC outdoor unit, supporting brackets, painting with one coat of red oxide zinc chromate primer and two coats of synthetic enamel paint of approved colour and brand etc complete as directed.	M2	33.00	3,612.76	119221.08
550	Providing and fixing <b>Carbon Steel Galvanised ( minimum coating 5 micron) dash fastener</b> of 10 mm dia double threaded 6.8 grade (yield strength 480 N/mm2), counter sunk head, comprising of 10 mm dia polyamide PA 6 grade sleeve, including drilling of hole in frame , concrete/ masonry, etc. as per direction of Engineer-in-charge	Nos	10.00	131.67	1316.70
<b>Total Amount of Civil Work (Rs.)</b>					<b>22,77,041.23</b>

BILL OF QUANTITY - Civil Work					
It. No.	Item Description	Unit	Quantity	Rate	Amount (Rs)
200	<b>PLUMBING WORK</b>				
10	<b>Removing carefully existing sanitary and plumbing fittings</b> ( Wash basin, urinal, taps, etc) with frame including disconnecting the external drainage and water supply connections, , lowering down, taking and disposing off unserviceable material outside MDL premises etc. all complete and as directed.	Each	6.00	93.41	560.46
20	Dismantling carefully <b>existing G.I pipeline</b> of any dia. along with all its fittings viz. bib cock, collars, elbow etc. and stacking at site.	M	50.00	24.00	1200.00
30	Providing and fixing in position <b>Stainless steel kitchen sink</b> without drain board A ISI 304 (18/8) as per IS 13983 610mm x 510mm depth 200mm with cast iron brackets and stainless steel plug 40mm with PVC waste pipe 40 mm dia. and PTMT waste coupling 38 mm dia of 83 mm length and 77 mm breadth weighing not less than 60gm, including painting of fittings and brackets, cutting & making good the walls, making inlet and outlet connections etc. complete as directed.	Each	3.00	5202.50	15607.50
40	Providing & fixing <b>4" dia. PVC Nahani trap</b> with PVC jali including making holes in walls / beams etc. and cement grouting (1:1) making good the damaged portion finished in C.M(1:3), curing complete as directed.	Each	4.00	637.27	2549.08
50	Providing and Constructing <b>Granite Pantry/Kitchen Platform of 600 (clear depth) x 750mm (height)</b> including vertical supports with polished kadappa stone 25 to 30 mm thick both sides & side wall, top platform base of top 35 to 40 mm thick kadappa and laying approved machine polished granite 16 to 20 mm thick top over the kadappa base with required cement mortar, side strips/skirting of granite at front and both sides of platform of 100mm height, horizontal shelf of granite in size 75 x 40 cm, chamfered and machine polished edge facias at front & sides, cutting of wall, profile cutting/opening for sink of required size in kadappa as well as granite, fixing of undercounter SS Sink, filling gap with white cement, edge moulding, etc. complete as per drawing and as directed.	M	6.00	10961.04	65766.24
60	Providing & fixing 40mm dia semi rigid pipe <b>PVC waste pipe for sink/wash basin</b> including PVC waste fittings complete.	M	3.00	117.21	351.63
70	Providing and fixing <b>15 mm nominal dia. Chlorinated Polyvinyl Chloride (CPVC)</b> pipes, having thermal stability for hot & cold water supply including all CPVC plain and brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer.	M	50.00	245.77	12288.50
80	Providing and fixing <b>20mm nominal dia. Chlorinated Polyvinyl Chloride (CPVC)</b> pipes, having thermal stability for hot & cold water supply including all CPVC plain and brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer.	M	25.00	275.50	6887.50
90	Providing and fixing <b>32 mm nominal dia. Chlorinated Polyvinyl Chloride (CPVC)</b> pipes, having thermal stability for hot & cold water supply including all CPVC plain and brass threaded fittings. This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer.	M	20.00	440.51	8810.20
100	Providing & fixing <b>75mm dia uPVC/SWR Waste water pipes of type-B</b> conforming to I.S.13592-1992 including proper rain water receiving recess with PVC plug bend, necessary fittings such as offsets, shoes including fixing the pipe on wall using approved wooden cleats projecting 25mm to 40mm from face of wall and fixing with clips of approved quality and number, filling the joints using rubber gasket with solvent cement and properly resting the shoe of pipes on cement concrete or masonry blocks, including necessary scaffolding and maintenance for 3 years for any leakages or dislocation of pipes.	M	25.00	292.43	7310.75
110	Providing and fixing <b>PTMT Bottle Trap 38mm single piece</b> moulded with height of 270mm, effective length of tail pipe 260mm from the center of the waste coupling 77m m breadth with 25mm minimum water seal, weighing not less than 263gms including drilling holes in the walls & making good the damages etc. complete as per the direction of the Engineer.	Nos	1.00	377.29	377.29
120	Providing & fixing 15mm dia nominal bore C.P brass <b>Quarter turn Swan Neck Tap with Wall Flange</b> of approved make and quality conforming to IS:8931etc. complete as directed. Basic Cost of Swan Neck Tap with Wall Flange= Rs. 2027 per number	Nos	3.00	2527.35	7582.05
130	Providing & fixing 15mm dia nominal bore C.P brass <b>Quarter turn Concealed Stop Cock</b> including body of Concealed Stop Cock with Protection Cap of approved make and quality conforming to IS:8931etc. complete as directed. Basic Cost of Concealed Stop Cock = Rs. 1017 per number	Nos	5.00	2285.85	11429.25
<b>Total Amount of Plumbing Work (Rs.)</b>					<b>1,40,720.45</b>



BILL OF QUANTITY - Civil Work					
It. No.	Item Description	Unit	Quantity	Rate	Amount (Rs)
300	<b>Furniture Work</b>				
10	<b>Executive Table- MAIN DESK (Size=1500 L X900 Wx 750 H)</b> , with Top and Side Panels comprising of minimum 25mm thick, Plain Particle Board (PPB) clad with minimum 0.6mm thick post formed laminate and minimum 1mm thick Backing Laminate (BDL). Flat edge duly sealed with atleast 2mm thick PVC beading and Modesty Panel comprising of minimum 18mm thick Plain Particle Board (PPB) clad with minimum 1.0mm thick Decorative Laminate (DL) on both sides. Edge sealed with minimum 2mm thick PVC beading. Flat edge duly sealed with 2mm thick PVC beading and Modesty Panel (where-ever necessary) comprising of 18mm thick Plain Particle Board (PPB) clad with 1.0mm thick Decorative Laminate (DL) on both sides. Edge sealed with 2mm thick PVC beading. <b>Free standing Metal pedestal</b> - (Size: 390W x 435 D x 646 H mm) (Size tolerance ± 60 mm for all dimensions), 3 drawer unit with central lock and key. Drawers and body are complete metal with powder coat finish. cable manager through cable risers & cable trays below the table, separate for data & IT. etc. complete	Each	4.00	25103.52	100414.08
20	<b>Extended Return Unit (SIDE TABLE) (1050 W x 450 D x 705 H)</b> , with Top and Side Panels comprising of 25mm thick, Plain Particle Board (PPB) clad with 0.6mm thick post formed laminate and 1mm thick Backing Laminate (BDL) including KBPT- Key Board Pullout Tray, CPU Trolley, cable manager, etc complete	Each	5.00	8817.98	44089.90
30	<b>Linear workstation table-1200X600X750mm</b> : Providing@ fixing Linear workstation-1200X600X750mm System : - 50 mm to 60 mm Partition x 1200 mm H, Aluminium Trims and Double Raceway Leg out of 16 gauge, dia- cast aluminium with approved finish and approved color / 2 mm thk M. S. Leg of approved style /design & finish.10-12 module Access flap in aluminium or laminate finish with brush for wire management, as per attached image and switches to be placed within the access flap, the switches to be provided by electrical contractor.25 mm thk prelaminate particle board for top with edge banding as per approved by Engineer in charge. Pin up board + writing board to be accommodate with the 25 mm thk divider panel Accessories to be fixed by an pre approved system to the divider panel Accessories :- Pencil Holder, Cup Holder, Paper Tray, Book Shelf, Keyboard Tray, CPU Trolley, etc. <b>Free standing pedestal</b> - 450X450X650 mm (Size tolerance ± 60 mm for all dimensions), prelam carcass (Box) Particle board with 3equal drawers unit with central lock and key. cable manager through cable risers & cable trays below the table, separate for data & IT. etc. complete.	Each	1.00	16283.36	16283.36
40	<b>ExecutiveChair:</b> Supplying and fixing chairs with height adjustable armrest with side swivel, chrome legs with Nylon castor, adjustable lumber support, Hydrolic adjustment height, tilt adjustment and tilt locking, adjustable thigh support, adjustable headrest, sliding seat with 12mm thick plywood base with leatherite/ fabric and moulded PU foam infill etc. complete as per approved by Engineer Incharge. (Basic Cost Of Chair Rs.17047/- Per No)	Each	4.00	17810.41	71241.64
50	<b>Visitors Chairs:</b> Supplying and fixing chairs with height armrest with side swivel, chrome legs with Nylon castor, fixed lumber support, Hydrolic adjustment height, fixed handles, seat with 12mm thick plywood base with leatherite/fabric and moulded PU foam infill etc. complete as per approved by Engineer Incharge. (Basic Cost Of Chair Rs.8941/- Per No)	Each	5.00	9973.31	49866.55
60	<b>Low height Storage unit 470mm deep</b> : Providing and installing <b>Low height storage unit 1200 mm high</b> having 2 nos. of shelves with post form top & shutters using 19mm thick marine ply vertical, horizontal, top, bottom, 12mm thick marine plywood for back and shutters (For partitions and shelves) with 1.5mm thick laminate for all external surfaces & 1mm thick laminate finish for all internal surfaces including both sides, all the edges finished with PVC edge band, openable shutters with all fixtures, fitting, hinges, handles, ball catches and locks etc. complete as per drawing.as directed. (Basic Rate of Laminate of Rs. 708/-Sqm , 12mm thk marine plywood Rs. 1278/-Sqm, 19mm thk marine plywood Rs. 1763/-Sqm)	M2	8.00	20,605.28	164842.24
70	<b>Full height Storage unit 470mm deep</b> : Providing and installing <b>Full height storage unit of 2100 to 2400mm high</b> , 750 to 900mm wide & depth as below with post form top and shutters internally, using 19mm thick marine plywood vertical, horizontal, top, bottom, 12mm thick marine plywood for back and 25mm thick marine plywood for shutters (Including c/c spacing of partitions and shelves at max 375 height) with 1.5mm thick laminate for all external surfaces & 1mm thick laminate finish for all internal surfaces including both sides, all the edges finished with PVC edge band, aluminium grill, openable shutters with all fixtures, fittings, hinges, handles, ball catches and locks etc complete as per drawing.as directed. (Basic Rate of Laminate of Rs. 708/-Sqm , 12mm thk marine plywood Rs. 1278/-Sqm, 19mm thk marine plywood Rs. 1763/-Sqm)	M2	28.00	17,059.27	477659.56
80	Supplying and fixing <b>Two seater wooden sofa set of size 1350X770X490/740mm high</b> with elastic belt in seat & back, Steel legs, PU foam of 32 density in seat & back, PU leather with approved colour etc. complete and as directed.	Each	1.00	12,092.56	12092.56
<b>Total Amount of Furniture Work (Rs.)</b>					<b>9,36,489.89</b>
400	<b>Electrical WORK</b>				
1	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted suitable for 3 pole MCCB as incomer & outgoing SP MCB (12 poles) or TP MCB of 4 ways (12 poles) on iron/ GI frame. (vertical busbar type) as per specification no. SW-SWR/MCBDB1  Note:- 1) All MCB's shall have breaking capacity not less than 10 kA. 2) Above rates are applicable only to factory made enclosures. 3) Reduce overall rates by 5% if angle iron frame is not required. 4) MCB's (double pole, four pole or triple pole & neutral) & isolators for single phase circuits shall not be incorporated for outgoing circuits of three phase distribution board. 5) For more than 2 kW load RCCB shall invariably be provided & erected preferably on the same distribution board. (RCCB+MCB) or (RCCB+MCCB etc.) separate box for RCCB/ELCB is not permissible. 6) Above rates are for branded DB's with provision of same brand interior switchgears 7) The MCBDB is exclusive of incoming MCB/MCCB and outgoing SP/TP MCB's and the same should be preferably of the same make 8) ROHS compliant MCB's, MCCB's, RCCB's, RCBO's and Distribution Boards shall be preferred. 9) DB,s with IEC 61439 part 1 &3 and minimum IK 08 shall be preferred.	No.	1	5043.62	5043.62