



## Bill of Quantity

### Sub: Renovation of Canteen, Visitors' toilets and Misc. Civil work at SSC Patna.

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
<b>1.0</b>	<b><i>Dismantling &amp; Demolition work</i></b>				
1.1	Demolishing of brick work in cement mortar manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 150 meters lead as per direction of Engineer-in-charge.	8.0	Cum	2004.60	16036.80
1.2	Demolishing of R.C.C. work manually/ by mechanical means including cutting of reinforcement, stacking of steel bars and disposal of unserviceable material within 150 meters lead as per direction of Engineer - in- charge.	1.0	Cum	3455.40	3455.40
1.3	Dismantling of old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 150 meters lead or as directed.	75.0	Sqm.	53.20	3990.00
1.4	Dismantling of doors, windows, ventilators and clerestory windows (steel or wood) shutter including chowkhats (Frame), architrave, holdfasts etc. all complete and stacking within a lead of 150 metres or as directed by the Engineer In Charge.	3.0	Each	357.30	1071.90
1.5	Dismantling of old tiles work in floors and walls laid in cement mortar including removing of backing mortar and stacking serviceable material within 150 metres lead as per direction of Engineer-in-charge.	130.0	Sqm.	71.40	9282.00
1.6	Dismantling of artificial stone/ Mosaic flooring upto 50 mm thick mortar base by carefully chiselling without damaging the base and removing rubbish as directed within a lead of 150 m.	60.0	Sqm	59.60	3576.00
1.7	Dismantling of Asbestos Cement sheet roofing including ridges, hips, valleys and gutters etc. and stacking of serviceable materials within 150 metres lead or as directed by Engineer-in-charge.	45.0	Sqm	75.20	3384.00
1.8	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable material and stacking of serviceable material with in 150 meters lead as directed by Engineer-in-charge.	42.0	Sqm	54.80	2301.60
1.9	Labour for Chipping of concrete surface/ artificial stone flooring/ mosaic flooring etc before taking up new plastering/ flooring work.	30.0	Sqm	25.00	750.00
1.10	Dismantling of old toilet fitting & fixtures including WC, wash basin, urinals, water pipeline etc. of 3nos existing toilet blocks (Gent's & Ladies toilet block one each at old building ground floor and one staff toilet near auditorium) and stacking of serviceable materials as per direction of EIC.	1.0	L.S.	5000.00	5000.00
1.11	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 150 m initial lead, for all leads including all lifts involved.	1.0	L.S.	5000.00	5000.00
<b>2.0</b>	<b><i>Earth work</i></b>				
2.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, for all lift, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 150 m in all kinds of soil.	5.0	Cum	253.30	1266.50

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
2.2	Filling with available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead upto 150 m and lift upto 1.5 m.	5.0	Cum	190.70	953.50
2.3	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing all complete.	3.0	Cum	2066.40	6199.20
<b>3.0</b>	<b>Brick work &amp; Plastering</b>				
3.1	Single Brick Flat Soling (thickness 75 mm) with picked Jhama bricks including preparation of bed as necessary, brick joints properly filled in and packed with powdered earth and including necessary cushion of similar material below the soling (and in between layers when more than one layer is used) completes as per direction of EIC.	8.0	Sqm.	430.25	3442.00
3.2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in:				
3.2.1	Foundation and plinth in Cement mortar 1:6 (1 cement : 6 coarse sand).	0.5	Cum	6939.70	3469.85
3.2.2	Superstructure above plinth level up to floor V level in all shapes and sizes in Cement mortar 1:6 (1 cement : 6 coarse sand).	4.0	Cum	8860.10	35440.40
3.3	Half brick masonry (125mm )with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in				
3.3.1	Foundation and plinth in Cement mortar 1:4 (1 cement : 4 coarse sand).	1.0	Sqm.	880.60	880.60
3.3.2	Superstructure above plinth level up to floor V level in cement mortar 1:4 (1 cement :4 coarse sand).	35.0	Sqm.	1093.45	38270.75
3.4	Brick work 7.5 cm thick with common burnt clay F.P.S. (non modular) brick of class designation 7.5 in cement mortar 1:3 (1 cement : 3coarse sand) in superstructure above plinth level and upto floor five level.	2.0	Sqm	842.30	1684.60
3.5	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary at any height. With 1:6 cement mortar, 15mm thick plaster	150.0	Sqm.	372.65	55897.50
3.6	Neat cement punning about 1.5mm thick in wall, dado, window, sill, floor etc. Note: Cement consumption 0.152 cu.m per100 sq.m.	30.0	Sqm.	77.80	2334.00
3.7	Repairing of crack in wall, roof etc. by cement grouting (1:2) including widening the crack on the surface (into V-section) cleaning and packing the same with cement mortar (1:2) and finishing off to match with adjacent surface. (Cement-69 Kg/100 m)	50.0	Mtr.	16.60	830.00
<b>4.0</b>	<b>Cement Concrete work</b>				
4.1	Providing and laying in position Plain cement concrete of specified grade excluding the cost of centering and shuttering :				
4.1.1	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)	0.5	Cum	7665.80	3832.90
4.2	Providing and laying in position Reinforced cement concrete of specified grade excluding the cost of centering, shuttering and reinforcement:				
4.2.1	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)	2.0	Cum	8351.65	16703.30
4.2.2	1:1½:3 (1 Cement : 1½ coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	1.0	Cum	8801.51	8801.51
4.3	Centering and shuttering including strutting, propping etc. and removal of form work for:				

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
4.3.1	Foundations, footings, bases for columns, coping of boundary wall etc.	1.0	Sqm.	381.55	381.55
4.3.2	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	10.0	Sqm.	716.50	7165.00
4.4	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete at any level. Thermo-Mechanically Treated bars of grade Fe500D or more.	100.0	Kg	104.95	10495.00
4.5	Providing & mixing polymer based water resistant bonding agent like Dr. Fixit 101 LW+ or equivalent in cement plaster as per manufacture's specification and direction of EIC.	5.0	Lit.	400.00	2000.00
<b>5.0</b>	<b>Flooring</b>				
5.1	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 40 mm thick with 10 mm nominal size stone aggregate.	8.0	Sqm	697.60	5580.80
5.2	Providing and laying true to line and level <b>Anti-Skid, Full Body, Homogeneous, Granular finished Vitrified Tiles</b> in floor of minimum size: <b>600 x 600 x 10 mm</b> with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on avg. 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. <b>(Make: Kajaria/ NITCO/ Jhonson/ Orient/ Somany)</b>	60.0	Sqm.	1425.30	85518.00
5.3	Providing and laying true to line and level <b>Digital/ Double charged Vitrified tiles</b> of minimum size <b>1200 x 600 x 10 mm</b> , with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in wall, 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. Rate shall be inclusive of all materials, labour, wastage, taxes etc all complete. <b>(Make: Kajaria/ NITCO/ Jhonson/ Orient/ Somany)</b>	100.0	Sqm.	1535.00	153500.00
5.4	Providing and fixing premium quality vitrified glazed wall tiles of size <b>600 mm x 300 mm</b> conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades of as approved by Engineer-in-Charge, in wall, 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 or laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness including pointing in white cement mixed with pigment of matching shade complete.	30.0	Sqm.	1233.70	37011.00
5.5	Supplying, fitting and fixing Black Stone slab used in Kitchen slab, alcove, vanity counter, wardrobe etc. laid and jointed with necessary adhesive Cement mortar (1:2) including cutting for wash basin/ kitchen sink, necessary holes for pillar taps, grinding or polishing as per direction of Engineer-in -Charge. Slab Thickness above 25 mm and upto 37.5 mm.	1.5	Sqm.	848.60	1272.90

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
5.6	Providing and fixing 18mm thick gang saw cut, mirror polished (premoulded and prepolished) machine cut Granite stone slab (Jet Black) for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over avg. 20mm thick base of cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, full moulding and polishing to edge to give high gloss finish etc. complete at all levels.	4.0	Sqm.	3744.80	14979.20
5.7	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including full moulding, rubbing and polishing of cut edges to give high gloss finish etc. all complete.	4.0	Each	952.30	3809.20
<b>6.0</b>	<b>Door &amp; Window work</b>				
6.1	Providing SAL wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length. Rate is inclusive of one coat of black paint at back side of the frame and with all necessary fittings.	0.08	Cum.	113374.25	9069.94
6.2	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. Cost includes 30 mm thick shutters fixed with 4nos ISI marked Stainless Steel butt hinges of size 100mm x 58mm x 1.90mm with necessary screws. Make: Century/ Geen ply/ Sylvan/ Austin/ Merino.	3.8	Sqm	2113.45	8031.11
6.3	Providing & Fixing decorative high pressure 1 mm thick 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. Make: Century/	7.6	Sqm	873.10	6635.56
6.4	Supplying, fitting and fixing M.S. clamp for door and window frame made of flat bent bar, end bifurcated with necessary screws etc in cement concrete (1:2:4) including cutting of brick work/ concrete work as per direction. (Cost of concrete will be paid separately)	16.0	Each	29.80	476.80
6.5	Providing and fixing IS: 12817 marked stainless steel butt hinges with stainless steel screws etc. all complete. 100 mm x 58 mm x 1.90mm	16.0	Each	104.20	1667.20
6.6	Providing and fixing bright /matt finished Stainless Steel fancy handles of approved quality & make fixed with necessary SS screws etc. all complete as per direction of Engineer In Charge. 200mm length decorative type D-Handle.	6.0	Each	181.60	1089.60
6.7	Providing and fixing bright finished brass door latch (hasp bolt/ Aldrop) of approved quality with necessary stainless steel screws, bolt etc. all complete. 300 mm long x 16 mm dia rod with centre bolt and round fitting.	3.0	Each	313.50	940.50
6.8	Providing and fixing Stainless Steel barrel / tower / socket bolt (full covered) of approved quality with necessary S.S. screws etc all complete.				
6.8.1	250mm long x 10mm dia bolt.	2.0	Each	175.00	350.00
6.8.2	75mm long x 10mm dia bolt.	4.0	Each	60.00	240.00

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
6.9	Providing and fixing aluminium extruded section body tubular type universal hydraulic door closer of Godrej make (Godrej Hercules, Product Code: 5959) with ISI marked (IS : 3564) embossed on the body, door weight upto 80 kg and door width from 701mm to 1000 mm), with double speed adjustment with necessary accessories and screws etc. complete.	4.0	Each	1246.00	4984.00
6.10	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/ window/ clerestory windows & other Frames/ Chowkhat comprising of virgin PVC polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/ wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threaded star headed SS screws having minimum frame density of 750 kg/ cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm <sup>2</sup> , modulus of elasticity 900 N/mm <sup>2</sup> and resistance to spread of flame of Class A category with property of being termite/ borer proof, water/ moisture proof and fire retardant and fixed in position with M.S hold fast/ lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. <b>Frame size 50 x 100 mm.</b> (Make: Century, Raunaq, Floresta or Equivalent as approve by the Engineer-in-Charge.)	25.0	Meter	922.10	23052.50
6.11	Providing and fixing factory made single extruded <b>30 mm thick</b> WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/ wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm <sup>2</sup> , modulus of elasticity 850 N/mm <sup>2</sup> and resistance to spread of flame of Class A category with property of being termite/ borer proof, water/ moisture proof and fire retardant and fixing with 4nos stainless steel butt hinges of size 100 mm x 58 mm x 1.90mm with necessary full body threaded star headed counter sunk S.S screws, including supplying and fixing of locking arrangement with heavy type SS Hasp bolt, SS door handles (Both side), SS tower bolt etc. all complete as per direction of Engineer-In- Charge.	8.0	Sq.m	4229.35	33834.80
6.12	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	1.0	Metre	555.50	555.50
6.13	30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames.	1.0	Sqm.	3620.30	3620.30

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
6.14	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 & panelling to be paid for separately). Rate includes filling the gap in between aluminium frame & adjacent RCC/ Brick/Stone work by providing weather proof silicon/ epoxy sealant over backer rod of approved quality. (For payment purpose only the weight of Aluminium sections shall be considered, weight of fixing accessories such as screws, nuts, bolts, fasteners, EPDM rubber/ neoprene gasket etc. will not be taken into account for payment). Approved make of Aluminium section: Hindalco, Zindal.				
6.14.1	For fixed portion: Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	10.0	Kg	481.70	4817.00
6.14.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing and fittings wherever required including the cost of EPDM rubber / neoprene gasket etc whatever required. Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	50.0	Kg	582.45	29122.50
6.15	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. With float glass panes (coloured / tinted / smoke) of 5 mm thickness (weight not less than 12.50 kg/sqm).	6.0	Sqm.	1464.60	8787.60
6.16	Providing and fixing stainless steel (SS 304 grade) adjustable friction windows stays of approved quality with necessary stainless steel screws etc. to the side hung windows as per direction of Engineer-in-charge complete. 255 x 19mm	2.0	Pair	376.55	753.10
6.17	Supplying & fixing Zinc powdered coated star lock for aluminium sliding window.	2.0	Each	47.70	95.40
6.18	Supplying Heavy Duty Aluminium Handle (EBCO Type) Colour anodized.	2.0	Each	125.85	251.70
6.19	Supplying & fixing SS roller bearing for sliding window.	2.0	Each	50.00	100.00
6.20	Taking out existing M.S. or W.I. Grills from wooden frame/ Brick wall including cutting lugs from masonry wall and mending good the damages.	5.0	each	118.00	590.00

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
6.21	<p>Providing &amp; Fixing G.I. Ornamental grill of approved design joints continuously welded with G.I. Flats and Square bars for windows, railing etc. fitted and fixed with necessary screws and lugs including priming coat with approved steel primer all complete. Grill weighing above 10 Kg./sq.mtr and up to 16 Kg./sq. mtr.</p> <p>The weight of grill per sq.m. will be determined by taking the physical weight of fabricated grill and dividing the same by covered area of the same. No shop priming will be allowed to facilitate inspection of workmanship. Weight of grill is to be taken after final grinding and finishing the weld.</p>	50.0	Kg	213.20	10660.00
<b>7.0</b>	<b>Roofing &amp; False Ceiling</b>				
7.1	<p>Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.</p> <p>Hot finished seamless type tubes. Make: TATA Structura.</p>	500.0	Kg.	200.80	100400.00
7.2	<p>Providing &amp; fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-Charge) of total coated thickness of 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm) with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. Make: TATA Blue Scope or Equivalent.</p>	90.0	Sqm	718.70	64683.00
7.3	<p>Providing and fixing precoated galvanised steel sheet roofing accessories of total coated thickness of 0.50 mm (base metal of minimum 0.45 mm thickness with total coating thickness of 0.05 mm), with Zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete : Gutter (600 mm over all girth)</p>	10.0	Mtr.	1278.20	12782.00
7.4	<p>Providing and fixing false ceiling 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,</p>				

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
	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 and 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 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) <b>Only plan area of the ceiling on finished work will be measured for the payment purpose, and no extra measurement shall be taken for drop ceiling, extra arrangement for cove light, vertical bands etc.</b> (Make: Armstrong/ Saint Gobain Gypserra/ Lafarge)	42.0	Sqm.	1487.80	62487.60
<b>8.0</b>	<b>Painting &amp; Finishing</b>				
8.1	Providing and applying white cement based water proof putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth all complete including removing of old/ dilapidated putty wherever necessary. (Make: JK Shieldmax, Birla White Wallseal, Asian paints Smartcare.)	70.0	Sqm.	151.85	10629.50
8.2	Applying priming coats (One or more coat) with water thinnable cement primer of approved brand and manufacture on wall surface, having low VOC (Volatile Organic Compound less than 50 grams/litre) content including scraping, removing of old paint and preparing the surface thoroughly, removing of dust etc all complete as per manufacturer's specification and direction of the EIC (At any Floor). Make: Dulux Weathershield Alkali Bloc PU+ Primer, Asian paints Smart care Damp Sealth, Berger seal-o-prime.	400.0	Sqm.	71.95	28780.00
8.3	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand and manufacture (ICI Dulux Super Clean 3 in 1/ Asian Paints Apcolite/ Berger Easy clean), applying <b>Two or more coats</b> to achieve even shade and colour as per direction and satisfaction of EIC.	400.0	Sqm.	138.95	55580.00

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
8.4	Finishing walls with protective and decorative 100% Premium acrylic emulsion paint having VOC less than 50 gm/litre and UV resistance as per IS15489:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade (Company Depot Tinted) with silicon additives <b>over a coat of exterior primer</b> , including necessary scaffolding at any height, Scraping of moss, blister etc. thoroughly from exterior surface of walls by the use of scraper, wire brush etc all complete. New or old work (Two or more coats applied @ 1.43 litre/10 sqm. <b>over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm.</b> ) (Rate is inclusive of applying additional coats wherever required to achieve even shade and colour.) Primer: Dulux Weathershield Alkali Bloc PU+ Primer, Asian paints Smart care Damp Sealth, Berger seal-o-prime. Paint: ICI weathershild Protect/ Asian paint Apex Ultima Protek/ Berger Long life10.	150.0	Sqm.	176.35	26452.50
8.5	Applying priming coat (One or more coat) with ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood) having VOC content less than 50 gm/litre, including smoothening surfaces by sand papering etc. all complete.	20.0	Sqm.	68.45	1369.00
8.6	Applying priming coat (One or more coat) with ready mixed red oxide/ zinc chromate primer of approved brand and manufacture on steel galvanized iron/ steel works, including removing of rust, old paints and smoothening of surfaces by sand papering etc all complete.	10.0	Sqm.	65.60	656.00
8.7	Painting with synthetic enamel paint of approved brand and manufacture (ICI Dulux Supergloss 5in1/ Asian Paints Apcolite/ Berger PU) to give an even shade: <b>Two or more coats</b> on wood work (hard and soft wood), steel works etc.	30.0	Sqm.	151.70	4551.00
<b>9.0</b>	<b>Sanitary &amp; Plumbing work</b>				
9.1	Providing and fixing Unplasticised rigid PVC pipes & fittings conforming to IS : 13592-1992 Type A with all necessary clamps, nails, including making holes in walls, floor etc. cutting trenches in any soil or through masonry/ concrete structures etc. if necessary and mending good damages, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion all complete. (Make: Supreme, Oriplast or equivalent)				
9.1.1	UPVC Pipe: 75mm dia.	24.0	Meter	242.10	5810.40
9.1.2	UPVC Pipe: 110mm dia.	12.0	Meter	367.12	4405.44
9.2	<b>UPVC Pipe fittings</b>				
9.2.1	Single Tee without door: 75 mm dia.	2.0	Each	140.40	280.80
9.2.2	Single Tee without door: 110 mm dia.	2.0	Each	215.40	430.80
9.2.3	Single Tee with door: 75 mm dia.	1.0	Each	159.80	159.80
9.2.4	Single Tee with door: 110 mm dia.	1.0	Each	227.80	227.80
9.2.5	Half bend/ Shoe: 75 mm dia.	1.0	Each	90.60	90.60
9.2.6	Half bend/ Shoe: 110 mm dia.	1.0	Each	128.30	128.30
9.2.7	Bend 87.5 degree: 75 mm dia.	5.0	Each	103.05	515.25
9.2.8	Bend 87.5 degree: 110 mm dia.	5.0	Each	146.30	731.50
9.2.9	Door Bend 87.5 degree: 75 mm dia.	2.0	Each	98.90	197.80
9.2.10	Door Bend 87.5 degree: 110 mm dia.	2.0	Each	175.20	350.40
9.2.11	Plain Floor Trap with Top tile & Strainer 75 mm	9.0	Each	171.60	1544.40
9.2.12	Pipe Clip: 75mm dia	5.0	Each	19.10	95.50
9.2.13	Pipe Clip: 110mm dia	5.0	Each	25.00	125.00

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
9.2.14	Reducer 110 X 75 mm	1.00	Each	95.30	95.30
9.3	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes of SDR 11 grade, 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 testing of joints complete as per direction of Engineer in Charge. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials).				
9.3.1	For Internal work exposed on wall				
9.3.1.1	25 mm dia	3.0	Meter	390.70	1172.10
9.3.1.2	40 mm dia	3.0	Meter	684.00	2052.00
9.3.1.3	50 mm dia	3.0	Meter	908.90	2726.70
9.3.2	For Concealed work, including the cost of cutting chases and making good the walls etc.				
9.3.2.1	15 mm dia	6.0	Meter	484.36	2906.16
9.3.2.2	20 mm dia	18.0	Meter	523.10	9415.80
9.3.2.3	25 mm dia	24.0	Meter	610.30	14647.20
9.4	Providing and fixing white vitreous china extended wall mounting water closet of approved brand & shape including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 liter/ 6 liter (adjustable to 4 liter/ 8 litres), including soft close PP seat cover, cistern fittings, nuts, bolts, hinges and gasket etc all complete. Make: Jaquar (Cat. no.: CNS-WHT-363SPPZ), Hindware Etios (Cat. no.: 2009630SW/2105630SW), Parryware Casa (Cat. no.: C022W/ C022Y) or equivalent as approved by EIC.	5.0	Each	14594.00	72970.00
9.5	Providing and fixing white vitreous china best quality Under counter wash basin of approved make & brand with 32 mm C.P. brass waste, flexible waste pipe of standard pattern. Make: Jaquar (Catalogue No: CNS-WHT-701), Hindware Garnet (Cat. no: 10080), Parryware Maestro (Catalogue No: C04251C) or equivalent as approved by EIC.	4.0	Each	3500.00	14000.00
9.6	Supplying, fitting and fixing white vitreous china best quality Wall hung basin with half pedestal of approved make & brand with 32 mm C.P. brass waste, flexible waste pipe of standard pattern. Make: Jaquar (Catalogue No: CNS-WHT-801/305), Hindware Flora (Cat. no: 1011410SW/9111510SW), Parryware Vista (Catalogue No: C897F46/C8596) or equivalent as approved by EIC.	1.0	Each	4000.00	4000.00
9.7	Supplying, fitting and fixing white vitreous chinaware urinal of approved make & brand including providing & fixing standard flush pipe, C.P. brass spreaders, 32mm CP brass waste, fixing accessories etc. all complete. Make: Jaquar (Cat. no: URS-WHT-13253N), Hindware Opus (Cat. no: 96014), Parryware Whiz (Cat. no: C05801C) or equivalent as approved by EIC.	2.0	Each	8000.00	16000.00
9.8	Supplying, fitting & fixing curved shaped (at top & bottom) urinal partition made of 10mm thick frosted toughened glass of size 450 to 300mm x 900mm, fixed with necessary SS patch fittings (2nos) all complete as per direction of Engineer in Charge.	1.0	Each	3,500.00	3500.00
9.9	Supplying, fitting and fixing Chromium plated angular Stop Cock with wall flange (Equivalent to Code No. 5053 & Model - Florentine of Jaquar or similar brand).	13.0	Each	971.30	12626.90

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
9.10	Supplying, fitting and fixing Chromium plated Bib Cock with wall flange (Equivalent to Code No. 5037 & Model - Florentine of Jaquar or similar brand).	1.0	Each	1026.15	1026.15
9.11	Supplying, fitting and fixing Chromium plated long body Bib Cock with wall flange (Equivalent to Code No. KUP-CHR-35037PM & Model - Kubix Prime of Jaquar or similar brand).	1.0	Each	2300.00	2300.00
9.12	Supplying, fitting and fixing CP 2-way bib Cock - 15 mm with wall flange (Equivalent to Code No. 5041 & Model - FLORENTINE of JAQUAR or equivalent make as approved by EIC).	5.0	Each	1512.40	7562.00
9.13	Supplying, fitting and fixing pillar cock of approved make CP Pillar Cock - 15 mm. (Code No. 5011 & Model - FLORENTINE of JAQUAR or equivalent make as approved by EIC).	1.0	Each	1021.40	1021.40
9.14	Supplying, fitting and fixing wall mounted sink cock with extended swing spout & wall flange of approved make. CP Sink Cock - 15 mm. (Code No. 5347PM & Model - FLORENTINE of JAQUAR or equivalent make as approved by EIC).	3.0	Each	2250.00	6750.00
9.15	Supplying, fitting and fixing Auto closing Concealed Urinal Flush Valve with wall flange. Make: Jaquar (Cat. no.: PRS-CHR-073), Hindware Addon (Cat. no.: F850020), Parryware Lapis (Cat. no.: G2030A1) or equivalent as approved by EIC.	1.0	Each	3300.00	3300.00
9.16	Supplying, fitting and fixing Chromium plated concealed Stop Cock heavy duty (Equivalent to Code No. 5083 & Model - Florentine of Jaquar or similar brand).	2.0	Each	1135.80	2271.60
9.17	Supplying, fitting and fixing Hand Shower (Health Faucet) with 1mtr Flexible Tube with Wall Hook (Equivalent to Code No.573 & Model -ALLIED of Jaquar or similar)	5.0	Each	1491.00	7455.00
9.18	Providing and fixing C.P. Brass extension nipple (size 15 mm x 50 mm) of approved make and quality as per direction of Engineer-in-charge.	10.0	Each	72.80	728.00
9.19	Providing and fixing CP Brass 32 mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge. Make: Jaquar (Cat. no.: ALD-CHR-769L250X190) or equivalent make as approved by EIC.	4.0	Each	1006.90	4027.60
9.20	Supplying, fitting and fixing approved brand P.V.C. Connector pipe white flexible, with both ends coupling with PTMT Nuts, collar and bush, 15 mm dia.				
9.20.1	450mm long	4.0	Each	97.70	390.80
9.20.2	600mm long	4.0	Each	127.50	510.00
9.20.3	750mm long	1.0	Each	139.45	139.45
9.21	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.	10.0	Each	116.32	1163.20
9.22	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing.				
9.22.1	Rectangular shape 1500x450 mm	2.0	Each	2036.50	4073.00
9.22.2	Rectangular shape 600x450 mm	1.0	Each	814.60	814.60
9.23	Supplying, fitting and fixing C.P. brass toilet paper holder. Make: Hindware/ Parryware/ Jaquar.	1.0	Each	782.00	782.00

Sl. No.	Description of item	Qty.	Unit	Rate	Amount
9.24	Providing and fixing PTMT liquid soap container of approved quality, brand and colour. Make: PTMT (Prayag/ Watertec/ Perl or equivalent).	5.0	Each	250.30	1251.50
9.25	Supplying, fitting and fixing towel rail with two brackets- C.P. over brass. Size: 25 mm dia. and 600 mm long. (Code No. ACN CHR-1111SM & Model - Continental of JAQUAR or equivalent make as approved by EIC).	5.0	Each	1500.00	7500.00
9.26	Providing and fixing PTMT shelf 440 mm long, 124 mm width and 36 mm height of approved quality and colour, weighing not less than 300 gms.	1.0	Each	693.95	693.95
9.27	Supplying, fitting and fixing of Compact Ball Valve with brass/stainless steel ball mechanism for CPVC/ UPVC fittings as per ASTM D 2467, Schedule 80 of approved make / brand.				
9.27.1	25 mm dia	2.0	Each	349.20	698.40
9.27.2	50 mm dia	1.0	Each	1150.10	1150.10
9.28	Supplying, fitting and fixing Stainless steel Wall Mounted Grab Bar. Load bearing capacity 150 kg, covered by Nylon surface with contour finish (for better grip) with Anti-bacterial surface complete. Make: Jaquar (Cat. no.: WAC-SAP-BR0600CSN), Cera (Cat. no.: B2210106) or equivalent as approved by EIC.	1.0	Each	2175.00	2175.00
9.29	Supplying, fitting and fixing Stainless steel Wall Mounted Hinged hand rail (750 x 100 mm) covered by Nylon surface with contour finish (for better grip) with two brackets. Make: Jaquar (Cat. no.: WAC-SAP-BG0800CSN), Cera (Cat. no.: B2210108) or equivalent as approved by EIC.	1.0	Each	8056.60	8056.60

**Estimated Cost of Civil works including LWC @1% & GST @18% ::: 1310708.97**  
**Say RS. 1310709.00**