

BILL OF QUANTITIES

Item No	Item	Unit	Qty.	Rate in Rs.	Amount (Rs.)
1.00	<u>EARTH WORKS</u>				
1.01	Excavation mechanically (using excavators like JCB/Poclaim/with bucket/ripper/chisel over areas (exceeding 30cm in depth. 1.5 m in width as well as 10 sqm.. on plan) and up to 3.0 m depth, in all types of soil, including murrum, soft rock, hard rock for foundations, wall, columns, plinth beams, basement, raft, ducts, trenches, underground sumps, septic tanks, soak well including shoring, strutting, bailing out water/pumping off water if required, compaction of dressed excavated area by using mechanical plate compactor / vibro roller, finished to desire levels all as per excavation plan and foundation drawings to get Modified Proctor Density test (MPD) of 95%., including lifting out the excavated soil and disposal/stacking of surplus excavated soil as directed, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed. All complete as per specification or as directed.(Payment shall be made as per excavation plan quantity or actual excavation quantity ,at site whichever is less.) (Toe Walls, Entrance Stairs, Water tank etc.)	cum	471.67		
1.02	Filling 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 to get Modified Proctor Density test (MPD) of 95%, lead up to 50 m and lift up to 1.5 m. (Toe Walls, Entrance Stairs, Water tank etc.)	cum	170.91		
1.03	Disposal of surplus earth , debris etc. outside the site to an unobjectionable place upto any lead beyond 50 m from site including royalty, loading at site, transportation, unloading, spreading, etc. all complete as per specification or as directed. (Water tank and Misc. work etc.)	cum	128.72		

1.04	Supplying the chemicals & carrying out pre-construction Anti-termite treatment at various stages of construction as per IS 6313:2013 and as recommended by the chemical manufacturer to safeguard the building against termite including execution and submission of guarantee for a period of 10 years(On non-judicial stamp paper of required value as per format approved by Architect/ Bank) against any subterranean pests infestation. This work is to be got executed through Pest Control (India.) Ltd as per their specifications or an approved equivalent specialized agency.(Measurement shall be done as per built up area at ground level of the building.) (Water tanks, Piping etc.)	sqm.	132.51		
	1st stage: Treatment to soil below foundation PCC.				
	2nd stage: Treatment to soil below grade slab				
	3rd stage: Treatment of soil along external perimeter of building.				
1.05	Excavating, Supplying, Stacking and Filling of Murrum (incl. royalty) by mechanical transport up to any lead incl. ramming, watering, rolling with vibratory roller of the murrum in layers not exceeding 20 cm in foundation trenches, plinth, sides of foundation, subbase etc. complete for all lift. (Site Development)	cum	1260.00		
2.00	<u>CONCRETE WORKS</u>				
	NOTES :				
	All shuttering used for concreting to be of very good quality so as to give good finish. In case there is bulging / minor honey combing the contractor will have to rectify the work at his own cost. The decision as to what constitute minor honey combing is left to the site in charge.				
	The Contractor is entirely responsible for the design of concrete mixes. The design is however, to be approved by the Engineer in charge.				
	Only River Sand should be used. However if silt content is more than permissible limit, washing of sand in rotary screw type washing machines is a must.				
	The flooring, raft & slab curing is to be done by ponding method only.				
	Checking of top level of slab should be done at every floor & it should be within IS tolerance limit / client requirement.				
	Frequency of testing for all materials like sand, aggregates, cement, steel should be as per IS standard.				
	The use of admixture , fly ash & crush sand should be as per concrete mix design.				
	Unless otherwise specified the cement to be used shall be Ordinary Portland Cement (OPC-53) of Ultratech, Ambuja, Lafarge or an equivalent make along with proportions of fly-ash.				

2.01	Providing and laying PCC (plain cement concrete) 1:2:4 by volume (1 part of cement: 2 parts of coarse sand: 4 parts of stone aggregates of size 20mm and downgraded) ,M15 under foundation, plinth protection, grade slab etc .manufactured in a fully automatic batching plant and transported to site of work in transit mixers having continuous agitation, for all leads and placing/pumping from Transit mixers to site of laying ,spreading, ramming, compacting as per requirement and curing etc., in line, level and plumb including the cost of centering, shuttering, finishing and complete in all aspects as per specification or as directed by Architect/Engineer. (Porch IPS, Channels IPS, Sunks, Toe Wall, Retaining Wall for Staircase, Water tank. Piping etc.)	cum	111.86		
2.02	Providing and laying in position machine batched and machine mixed design mix M-35 grade cement concrete for reinforced cement concrete work, at all levels below and up to highest plinth level for RCC structural elements, viz. footing, Columns, beams, slabs, raft, lintel, floor /plinth beams, plinth beam ledges, grade on slab, walls parapets boxes, folded plates, chajjas, mullions, retaining walls, shear walls, rcc pardi, fins, staircases, overhead and underground water tanks, mangers etc. in any shape and as per structural design and as directed using cement content as per approved design mix, including pumping of concrete to site of laying including the cost of centering, shuttering, finishing but excluding reinforcement , including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content to be provided as per technical specifications or approved design mix. However, minimum Cement content considered in this item is @ 350 kg/cum. Excess cement used as per design mix will not be paid separately). (Coping, Toe Wall Plinth Beams, Water tanks etc.)	cum	135.94		
2.03	Providing and laying in position machine batched and machine mixed design mix M-35 grade cement concrete for reinforced cement concrete work, to all height and levels from highest plinth level for RCC structural elements, viz. Columns, beams, slabs, raft, lintel, floor /plinth beams, plinth beam ledges, grade on slab, walls parapets boxes, folded plates, chajjas, mullions, retaining walls, shear walls, rcc pardi, fins, weather sheds, staircases, overhead and underground water tanks, mangers etc. in any shape and as per structural design and as directed using cement content as per approved	cum	57.00		

	design mix, including pumping of concrete to site of laying including the cost of centering, shuttering, finishing but excluding reinforcement , including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. (Note :- Cement content to be provided as per technical specifications or approved design mix. However, minimum Cement content considered in this item is @ 350 kg/cum. Excess cement used as per design mix will not be paid separately). (Retaining Walls for Staircase, Water tanks, Pump Room, Lintels etc.)				
3.00	STEEL REINFORCEMENT				
	Providing, fabricating and fixing in position TMT steel bars of approved make conforming to IS 1786 for RCC structures as per design of all dia.meters including transporting, unloading and incidental charges for handling, de-coiling, straightening, cutting, cranking, bending, and binding with two strands of annealed steel wire of 20 gauge, welding if necessary etc. for all heights and depths below and above plinth level, etc. all complete as per specification or as directed.				
	Thermo-Mechanically Treated bars- Fe500 of SAIL, JSW, TATA Steels or Equivalent (for works w.r.t. 2.02 & 2.03 etc.)	kg	28878.59		
4.00	Cinder Filling				
	Filling Cinder / Fly Ash or any other light material in sunken areas all complete at all levels as per specification or as directed by Architect / Engineer-in-charge. (Sunks)	cum	20.00		
5.00	Water Proofing in Toilet sunks and terraces				
5.01	For Toilets and Sunks - Application of two coats of two component non-toxic cementitious waterproof coating having specific gravity as 1.65-1.75 g/cc, elongation of more than 40% and forming film thickness not less than 600 microns as per manufacturer's method statement with all necessary surface preparation and providing protective screed on the coating. (Dr.Fixit pidifin 2k or equivalent)	Sqm.	120.00		
5.02	For Terrace, Channels & Water tanks - Application of two coats of two component non-toxic heavy duty cementitious waterproof coating having adhesion strength of 0.8-1 N/mm ² , elongation of more than 100% and forming film thickness not less than 1000 microns as per manufacturer's method statement with all necessary surface preparation and providing protective screed on the coating. (Dr.Fixit roof seal flex or equivalent)	Sqm.	726.99		

6.00	BRICK MASONARY WORKS				
6.01	<p>Providing and constructing masonry walls in sub-structure and super structure, with non- modular fly ash bricks conforming to IS:12894, class designation 10 average compressive strength, in cement mortar 1:6 (1 cement : 6 coarse sand) for walls, shaft walls, parapets, drains, manholes, trenches etc. in proper line, levels and plumb including, watering, striking out / raking out joints, curing, scaffolding, etc complete for all heights and levels in substructure and super structure as per the approved drawing and as per instructions of Architect / Engineer. All necessary tests of fly-ash bricks to be carried out as per IS code.</p> <p>(Planter, Duct Openings, Cash Room, Banking Hall, Lift Lobby, Stationary, Printing, Server, UPS Rooms, Pump Room, Compound Wall, Toe Walls etc.)</p>	cum	194.35		
6.02	<p>Half brick masonry of 110mm thick with non-modular fly ash bricks of class designation 10, conforming IS :12894, in cement mortar 1:3 (1 cement :3 coarse sand) for partition walls, shaft walls, parapets, drains, manholes, trenches etc. in proper line, levels and plumb including watering, striking out / raking out joints, curing, scaffolding, etc. complete for all heights and levels. as per the approved drawing and as per instructions of Architect / Engineer. All necessary tests of fly-ash bricks to be carried out as per IS code. RCC band of 100mm thickness at every 1 m height is to be provided all along the length of walls which will be paid separately in RCC.</p> <p>RCC band details- 1 . 2 nos. of 8mm dia.. bars with ties of 8mm dia.. bars at 150 mm c/c.</p> <p>(Pantry, Stationary, UPS, Lunch, Printing & Server Rooms, AGM Toilet, etc.)</p>	sqm.	202.00		
7.00	PLASTER WORKS				
	<p>Note: The joints of all Masonry and RCC surfaces shall be treated with Chicken mesh nailed with M.S. nails with at least 75mm width on either type of surfaces making the total width of 150mm prior to take up plastering works. Cost of chicken mesh netting to be included in rates quoted for plaster works, at all joints of brick and concrete surfaces, with a minimum overlap of 100 mm in all directions and curing complete. No extra payment shall be made for additional thickness if required to achieve perfect line and level.</p>				

7.01	<p>18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) and a top layer 6 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) including mixing of approved waterproofing compound (Sikka / Dr.Fixit or equivalent) in both the coats @ 2%, by weight of cement in proper line, level, plumb with grooves, bands, drip moulds, curing, scaffolding etc. finished rough with sponge as required at all heights and locations complete in all respects and as per instructions of Architect/Engineer.</p> <p>(Location : External side of masonry walls, parapet walls, all shafts inner side.)</p> <p>(Planter, Cash Room, Lift Lobby, Stationary, Printing, Server, UPS, Pantry Rooms, AGM Toilet Walls, Columns, Beams, Ceilings, Channels, Water tanks, Ent. Walls, Staircases, Toe Walls etc.)</p>	sqm.	3197.29		
7.02	<p>Providing and applying single coat 12 mm thick (average) premixed formulated one coat gypsum lightweight plaster (gyproc or equivalent) having additives and light weight aggregates as vermiculite / perlite respectively conforming to IS: 2547 (Part - 1 & II) 1976, applied on hacked / uneven background such as bare brick / block / RCC work on walls & ceiling at all floors and locations, finished in smooth line and level etc. smooth face finish including curing, scaffolding, hacking etc. , complete at all levels, as per the locations mentioned in the drawings, and as per the instructions by the Architect /Engineer.</p> <p>(Location : Internal walls, staircase area etc.)</p>	sqm.	5.00		
7.03	<p>Providing and applying single coat 12 mm thick cement plaster of mix 1:4 (1 cement : 4 fine sand)</p> <p>(Interior Surfaces like Walls, Columns, Beams, Ceilings etc.)</p>	Sqm.	235.59		
8.00	DOORS & WINDOWS				

8.01	<p>Providing and fixing frameless fully glazed 12mm thick toughened float glass door fixed with necessary patch fittings (Dorma make) including cutting, making holes, cut outs in the glass of required shape and size to accommodate fittings and fixing the fittings in floors, soffits, jams including necessary fixtures, screws, sealant wherever required and SS cover over patch fittings. Rate shall include necessary etching film / LOGO, approved patch fitting locking systems, 1 pair of 12" long S. S. (C Shape) Handles of approved make, floor springs, and any necessary hardware items.(DORMA MAKE Top Pivot - PT 24, Top Patch Fittings - PT 20, Bottom Patch fittings - PT 10, Floor Spring - BTS 75 V, Corner lock with strike plate and Euro Profile Cylinder - US 10, Handle - TG 9300 EQ - S 25mm dia.. X 300mm length)</p>	sqm.	11.00	
8.02	<p>Providing and fixing of Fixed Glass partition with 12mm thick toughened glass using PT Standard fittings like PT90/ PT92 of DORMA make at the top and grouting at the bottom with U - Shaped Aluminium rails and EPDM gaskets including cutting, making holes in glass and fixing the fittings in floors, false ceiling etc. and making the same good with necessary screw, sealant wherever required. The top PT standard fittings to be fitted to the Wooden section fixed above the Gypsum board in the level of GI channels of False ceiling</p>	sqm.	13.00	
8.03	<p>Providing and fixing factory made uPVC white colour fixed / openable glazed windows comprising of 6mm float glass and uPVC multi-chambered frame, sash and mullion (where ever required)extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), Upvc extruded glazing beads of appropriate dimension, EPDM gasket, stainless steel (SS 304 grade) friction hinges, zinc alloy (white powder coated) casement handles, G.I fasteners 100 x 8 mm size for fixing frame to finished wall, plastic packers, plastic caps and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, mullion (if required) shall be also fusion welded including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes and silicon sealant shall be paid separately): two track two panels sliding window panels with S.S. friction hinges (300 x 19 x 1.9 mm) made of (big series)frame 67 x 50 mm, sash 46 x 62 mm & mullion 47 x 68mm all having wall thickness of 1.9 ±</p>	sqm.	2.13	

	0.2 mm and single glazing bead of appropriate dimension.				
8.04	Providing and fixing in position 30 mm thick solid core phenol bonded flush doors (single leaf, BWP Grade BIS mark) finished with 1 mm thick laminate on both sides as per design and combination of approved make and shade on both sides including CP T.W. lipping 33 x 6 mm and vision panel of required size by 6mm clear glass complete as per specifications and detailed drawings. Each door will have following hardware fittings- 1) SS Matt finish butt door Hinges-4 Nos, 127mmX89mmX3mm 2) Door closer -Hafele DCL 15 Star-tech with standard arm Product Code-931.84.629 or Equivalent. 3) Handle- SS matt Finish 19mm dia.,200mm long handle	sqm.	98.76		
8.05	Providing & Fixing in position 1 m wide 60 mm thick (Single leaf) 2 hour fire rated door with Epoxy paint, fully flush single skin door shell with lock seam joints at stile edges and internal reinforcement provided at top, bottom and stile edges for fire rating. The internal construction of door shutter shall be specially designed Honey comb structure with reinforcement as specified above. Door frame manufactured from galvanised steel sheet of 1.20 mm thickness formed to single rebate profile of size 100 x 57 mm (+/- 0.3mm) and shall be fixed in Brick / Block masonry using corrugated "Tee" Anchors but not welded to the frame (first fix). Door frames shall be knock down form with butt joints for bolted assembly at site with brass oxidised fittings, bead and locking arrangements, Auto flush bolts, automatic Door closure of approved make and all accessories such door handle SS hair line brush finish, including with 6mm thick 1 hour fire rated Vision panels (1 Nos.) of 200 x 300mm size. The door frames and door shutter shall have primed with zinc-phosphate stoving primer and finished with Epoxy paint of approved make and shade complete as per specifications and detailed drawings. (Location - Electrical Room, UPS room.)	sqm.	14.84		
8.06	Providing & Fixing in position MS door of size having overall width 1200mm and height 2235mm. Clear opening shall be 1010mm x 2000mm. The door frame made of 40x40x6 MS angle should be fixed to wall / RCC with 4 nos. of holdfasts on each side. Door shutter is made of 40x40x6 mm MS angle on perimeter with 20 gauge MS sheet fixed all over on outer side and 16mm round MS bar @ 75 mm c/c vertically across length and 4 nos. 32 mmx6mm, MS flat horizontally on inside of shutter 3 nos. aldrops. Approved make Jalaram kadaka lock, Gordia.n lock with bars, 2 nos. of handle, 230mmX230mm MS plate complete as per the drawing. Item to include applying premium red oxide and semi gloss enamel, paint to all surfaces (Location : Cash room, Terrace)	Nos.	2.00		

8.07	Providing and fixing fully glazed heavy duty anodized aluminium sections (14 Gauge) at the main entrance as shown in the drawing. Glazing shall consist of approved make heavy duty 4" x 2" sections for the top & bottom rails and 2" x 2" sections for the vertical styles. 10mm thk. approved make clear float glass shall be provided and fixed in the framing. Rate shall include necessary etching film / LOGO, and any necessary hardware items. (Heavy Duty 6" & 2" thick frames(14 Gauge) - approved make)	sqm.	13.88		
8.08	Providing and fixing (20 to 25 micron) anodized aluminium rectangular tubular section for frames for door fixed by 4 screws in roll plug at a distance of 75 cm c/c size of frame 101.60 x 44.45 x 1.80mm including providing and fixing aluminium door shutter made out of anodized (20 to 25 micron) specially extruded tubular section mentions below, including screw less aluminium beading , fixture such as locks, handles, tower bolts both approved make as per the direction ,including glazing of 9mm thick clear transparent float glass fixed with Neoperene weather stripping screw less aluminium glazing clips. (a) the top rail and lock rail and styles 83.50 x 44.55 x 1.80mm (b) the bottom rail 150 x 44.55 x 1.80mm. as per design approved & shade by the architect. The door shall be inclusive of and fixed on floor spring of ISI approved make such as Godrej/Everest / Everite / Efficient Gadget etc. complete.	sqm.	15.52		
9.00	FLOORING				
9.01	Providing and laying average 25mm thick machine cut Kotah Stone flooring in cement mortar 1:6 (1 Cement :6 Coarse Sand) bedding of required thickness to match FFL and with neat cement float in proper line, level, plumb, slope with mirror polish including filling the joints with approved pigment to match the colour of tile. Rate to include the cutting the tiles for floor ducts and lids of electrical, computer and telephone wires and cleaning the same, curing etc., complete in all aspects, as specified in drawings and directed by the Engineer/Architect. (Locker Room, Staircases Front Area)	sqm.	52.00		

9.02	Providing and laying machine cut pre-polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building, all complete as per the architectural drawings, with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand), laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade, including rubbing, curing, nosing, making grooves and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. Stone should be cut in single length one piece for treads and risers. (Location: Entrance Staircase)				
	Polished Granite stone slab jet Black, Cherry Red, Elite Brown, Cat Eye or equivalent. (Basic rate Rs. 1800/- per sqm.)	sqm.	46.00		
9.03	Providing and fixing Granite Stone of approved shade with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. (Basic rate Rs. 1800/- per sqm.) (Urinal)	sqm.	5.40		
9.04	Providing and fixing 18 mm thick granite stone gang saw cut, mirror polished, pre-moulded and pre-polished, machine cut for kitchen platforms, window sills, vanity counters , 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, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.	sqm.			
a.	Kitchen Platforms, Vanity Counters etc. (Pantry, Dining Platforms)	sqm.	12.49		
b.	Door Jambs, Window Sills - P Granite (Door Jambs, Soffit)	sqm.	217.00		
9.05	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622, of approved make, in all colours and shades, including providing 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including skirting , grouting the joints with white cement and matching pigments etc., complete in all respect and at all levels. Rate to include cutting the tiles for floor ducts and lids of electrical, computer and telephone wires and cleaning the same, curing etc. complete in all aspects as specified and directed by the Engineer/Architect. Quantity of skirting will be added to the flooring quantity for payment purpose.				

	Size of Tile 600x600 mm (Basic Rate - Rs. 500/- per Sqm.)	sqm.	5.00		
9.06	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, including providing 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), including skirting, pointing the joints with white cement and matching pigments etc., complete in all respect and at all levels. Rate to include cutting the tiles for floor ducts and cleaning the same, curing etc.complete.in all aspects as specified and directed by the Engineer/Architect. (Basic rate Rs. 400/- per sqm.) (Toilets)	sqm.	35.54		
9.07	Providing and fixing 1st quality ceramic glazed wall tiles of size 450x300 mm 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 plaster (plaster not included in this item) and jointing with grey cement slurry @ 3.3kg per sqm., including pointing in white cement mixed with pigment of matching shade complete in all respect and at all levels. (Basic rate Rs. 350/- per sqm.) (Toilets)	sqm.	160.00		
9.08	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement :4 coarse sand) with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length up to 6 mm, mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of EiC.(Terrace, Staircase Cabin, Lift & Electric Room Top)	sqm.	664.49		
9.09	52mm thick cement concrete flooring with concrete hardener topping ; under layer 40 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) and top layer 12 mm thick cement hardener consisting of 1:2 (1 cement hardener mix : 2 graded stone aggregate 6 mm nominal size) by volume, hardening compound mixed as directed by EIC or as per manufacturer's specifications. This includes cost of cement slurry. (Water tank Slab Top)	sqm.	77.00		

9.10	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 2nd quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, including providing 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), including skirting, pointing the joints with white cement and matching pigments etc., complete in all respect and at all levels. Rate to include cutting the tiles for floor ducts and cleaning the same, curing etc.complete.in all aspects as specified and directed by the Engineer/Architect. (Basic rate Rs. 240/- per sqm.) (Water tank Floor /inner side etc.)	sqm.	88.91		
9.11	Providing and fixing 2nd quality ceramic glazed wall tiles of size 450x300 mm 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 plaster (plaster not included in this item) and jointing with grey cement slurry @ 3.3kg per sqm., including pointing in white cement mixed with pigment of matching shade complete in all respect and at all levels. (Basic rate Rs. 210/- per sqm.) (Water tank Walls etc.)	sqm.	150.01		
9.12	Providing and laying average 25mm thick machine cut Rough Kotah Stone flooring in cement mortar 1:6 (1 Cement :6 Coarse Sand) bedding of required thickness to match FFL and with neat cement float in proper line, level, plumb, slope without polish including filling the joints with approved pigment to match the colour of tile. Rate to include the cutting the tiles for floor ducts and lids of electrical, computer and telephone wires and cleaning the same, curing etc., complete in all aspects, as specified in drawings and directed by the Engineer/Architect. (Entrance)	sqm.	154.00		
10.00	FINISHING				
10.01	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. (Approved Make-Birla White, JK White, NCL) (All Walls, Columns, Beams, Slab for Banking & RBO Floors, Pump Room etc.)	sqm.	5134.78		
10.02	Providing and finishing walls with Acrylic Emulsion paint of approved make and shade for interiors and using Primer complete all as per manufacturers specification on plastered surfaces including preparing the surface, finishing and necessary scaffolding etc. The paints shall be of zero VOC level :Two or more coats applied on walls @ 1.25 ltr/10 sqm. over and including one coat of Special primer applied @ 0.75 ltr /10 sqm. (All Walls, Columns, Beams, Slab for Banking & RBO Floors, Pump Room etc.)	sqm.	5134.78		

10.03	Providing and finishing walls with exterior emulsion paint of required shade (protek of asian make) complete all as per manufacturers specification on plastered surfaces including preparing the surface, finishing and necessary scaffolding etc. The paints shall be of zero VOC level: New work (Two or more coats applied @ 3.28 ltr/10 sqm.) over and including priming coat of exterior primer applied @ 2.20kg/10 sqm. (Exterior Walls, Columns, Beams, Staircases, Retaining Walls, Pump Room etc.)	sqm.	5973.93		
10.04	Painting with Synthetic Enamel Paint of Approved brand and manufacture of required colour to give an even shade: Two or more coats on new work over an under coat of suitable shade of approved brand and manufacture (Grills, Railings etc.)	sqm.	317.54		
11.00	SANITARY INSTALLATIONS				
11.01	Providing and fixing white vitreous china extended wall mounting water closet of size 655X350X735 mm of approved shape and make including providing & fixing white vitreous china cistern with dual flush fitting, of flushing capacity 3 litre/ 6 litre (adjustable to 4 litre/ 8 litres), including seat cover, and cistern fittings, twin flush fittings, jet, nuts, bolts and gasket etc. complete in all respects. (Model no. Cera Calibre S1031101 or equivalent) (Gents, Ladies, Handicapped & AGM Toilets)	each	8.00		
11.02	P & F in proper position, flat back type Urinal in snow white color fixed with concealed type top & bottom brackets etc. complete with including C.P. dome grating type waste coupling and 40 mm PVC waste pipe, S.S. pipe connection for water supply line, urinal spreader of approved make etc. complete in all aspects. 1. For urinal Model No- Cera Carmina S4020102 or equivalent.2. For urinal spreader Cat No- Cera F8070201 or equivalent. (Gents Toilets)	each	6.00		
11.03	P & F Regular Type Snow White Color Wash Basin with 32 mm C.P. brass waste coupling, S.S. bottle trap etc. complete with 40 mm PVC pipe (10 Kg) concealed waste pipe with all required connections. The job includes required MS bracket, Swan type pillar cock, PVC connections of approved make. Entire work has to be carried out to the satisfaction of the architect. 1. For wash basin Model No- Cera Clair S2030101 or equivalent. 2. For pillar cock Model No- Cera Garnet series F2002105 or equivalent. (Gents, Ladies, Handicapped & AGM Toilets)	each	8.00		

11.04	Providing and fixing 5 mm thick mirror of superior glass (of approved quality) complete with 5mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete. (Approved make - Saint Gobain, Asahi, Modi, Tata, Gujarat Guardian (For Each Wash Basin, Gents, Ladies, Handicapped & AGM Toilets etc.)	each	9.00		
11.05	Providing and fixing Stainless Steel ISI 304 kitchen sink 940x1455 mm bowl depth 203 mm with drain board as per IS: 13983 with C.I. brackets and stainless steel plug 40 mm, including Sink cock, sink strainer, outlet connection pipe, painting of fittings and brackets, cutting and making good the walls wherever required with all necessary fittings and fixtures etc. complete in all aspects. 1. Kitchen sink - Cera Diana B4512101 or equivalent 2. Sink cock Model No- Cera F10215251 or equivalent. (Pantries)	each	4.00		
12.00	STEEL WORKS				
	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.				
12.01	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works (Window Grills, Ducts, Terrace Railing, Entrance Gates etc.)	KG	5961.09		
12.02	Providing and fixing stainless steel (Grade 304) 50mm dia. handrail made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts, SS brackets etc., of required size, on the side wall with suitable arrangement as per approval of Engineer-in-charge.	Rmt			
	50mm dia. (Ramp, Porch 2nd Floor, Staircases)	RMT	119.00		
12.03	Galvalume Sheet Roofing incl. Fabrication, Roofing, Painting, Primer etc. all complete (Pump Room etc.)	sqm.	25.00		
13.00	WATER SUPPLY AND sanitary INSTALLATIONS				
13.01	Fixing, jointing, and testing in position approved make 15mm dia.. C.P. Angle cock including making water connections complete in all aspects. (Cera F1015201 or equivalent) (Toilets, Pantry)	each	26.00		
13.02	Fixing, jointing, and testing in position approved make 15mm dia. C.P. Bib cock including making water connections complete in all aspects. (Cera F2002152 or equivalent) (Toilets, Pantry)	each	12.00		
13.03	P & F 15mm dia. dia. meter C.P. brass heavy-duty concealed stop cock of approved make & quality with c.p. flange & extension pipe of required size. (Cera F2002361 or equivalent) (from Water tank)	each	10.00		

13.04	Supply, Fabrication, Installation, Testing, Balancing and Commissioning of ABS Health Faucet of approved make with regulator of approved quality with flexible pipe 1 m long, wall hooked with CP wall flange complete in all aspects as required. (Cera F8030202 or equivalent) (Toilets)	each	8.00		
13.05	Providing, laying, fixing, testing & commissioning UPVC Nahni Trap/Multi Trap of size 100 x 75 mm, of Astral or approved equivalent. Rate includes cutting of floor/wall, necessary outlet pipe with necessary adhesive. Up to down take pipe, Fixing SS Jali of approved make complete as directed. (Toilets, Pantry)	each	19.00		
13.06	Providing and making square-mouth 180x150 mm size P type S.W. gully trap class SP-1 with common burnt clay F.P.S. (non-modular) bricks of class designation 7.5complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300 x300 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: (Toilet Outlets)	each	20.00		
13.07	PLT High pressure CPVC plumbing pipe incl. fittings. In concealed & centre line manner : Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes (in concealed manner in all utility areas), having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c 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 / all other surfaces etc. Entire work to be executed in centre point manner & the contractor shall get approved the route of all internal & external piping before starting each work. (Toilets, Pantry Water supply)				
13.07.01	15mm dia. pipe	rmt	30.00		
13.07.02	25 mm dia. pipe	rmt	64.15		
13.07.03	40 mm dia. pipe	rmt	35.60		
13.07.04	50 mm dia. nominal bore pipe (Municipal Water supply Lines + domestic down take lines)	rmt	50.00		
13.08	PLT in wall ceiling and floor 6 Kg/Sq.cm. PVC waste water pipe. P & F in position in ground or wall waste water pipe line of approved make with necessary fittings, clamping on walls, joints filled with PVC solution and making the joints watertight, testing the same, trenching, filling, refinishing the same complete in all aspects. (Toilets, Pantry etc. wastewater)				
13.08.01	75 dia.. sanitary pipe	rmt	21.70		
13.08.02	100 dia.. sanitary pipe	rmt	17.00		

13.09	PLT Glazed stoneware pipes. Providing, laying & jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints including Excavating trenches of required width for pipes, depth up to 1.5 m including getting out the excavated materials, 1:5:10 base concrete of brick bat, returning the soil as required in layers not exceeding 20 cm in depth, including consolidating each deposited layers by ramming, watering etc., stacking serviceable material and disposal of unserviceable material as directed. The item includes any type of cutting in any surfaces & refinishing the same. (Drainage Lines)				
13.09.01	150 dia. sanitary pipe	rmt	34.00		
13.09.02	200 dia. sanitary pipe	rmt	65.00		
13.10	Providing Laying & jointing in true line & level Providing, 100mm dia. P.V.C. Rainwater Single socket Pipes with one end plain & other end socket with rubber ring & fittings conforming to IS: 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC heavy duty clamp of suitable size at every 2000 mm centre to centre or shall be concealed in wall as directed including necessary fittings such as bends, shoes etc. including testing of pipes & joints & jointed with adhesive solvent cement including cost of all materials complete in all aspects.(working pressure 4 kg / cm 2) (RWH Pipes)	rmt	50.00		
13.11	Constructing 230mm thick brick masonry manhole with common burnt clay F.P.S. (non-modular) bricks of class designation 7.5 in cement mortar 1:6 (1cement : 6 coarse sand) with R.C.C. top slab 150mm thick with 1:1.5:3 mix (1cement :1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size),150mm thick foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8graded stone aggregate 40 mm nominal size), inside plastering 12mm 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 aggregate20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg). (Drainage Chambers)	each	13.00		
13.12	Overhead Water tanks on Terrace for Main Building: General Use & Firefighting - Sintex or Equivalent (On Terrace for Water supply & Fire-fighting)	Ltr	20000.00		

13.13	Providing and fixing Gun Metal Gate Valve with C.I. wheel of approved quality (screwed end)				
13.13 (a)	25 mm nominal bore (Toilets, Pantry)	Nos.	12.00		
13.13 (b)	40 mm nominal bore (Main Water supply Lines)	Nos.	5.00		
13.13 (c)	50 mm nominal bore (municipal and down take lines)	Nos.	2.00		
13.14	Providing and fixing in Position Pre-cast R.C.C. Manhole Cover and frame of require shape and approved Quality: HD-20 Circular Shape 560 mm internal diameter (Water tank, etc.)	each	2.00		
14.00	<u>DISMANTLING AND DISPOSAL OF DEBRIS</u>				
14.01	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 (For Misc. works in interior walls)	cum	5.00		
14.02	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface including disposal of mulba /rubbish to the nearest municipal dumping ground, all complete as per direction of EIC. : for Door/Window/Clerestory Window (For Misc. works in interior walls)	sqm.	5.00		
15.00	<u>RAINWATER HARVESTING</u>				
15.01	Constructing 230mm thick brick masonry manhole with common burnt clay F.P.S. (non-modular) bricks of class designation 7.5 in cement mortar 1:6 (1cement : 6 coarse sand) with R.C.C. top slab 150mm thick with 1:1.5:3 mix (1cement :1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size),150mm thick foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8graded stone aggregate 40 mm nominal size), inside plastering 12mm 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 aggregate20 mm nominal size) finished with a floating coat of neat cement complete as per standard design :Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg). (Rain Water Harvesting Chamber)	Nos	2.00		
15.02	Making soak pit 2.5 m diameter 3.0 metre deep (Inside clear dimensions) with dry brick honey comb shaft with bricks complete as per standard design. With common burnt clay F.P.S. (non-modular) bricks of class designation 7.5 with R.C.C. top slab 150mm thick with 1:1.5:3 mix (1cement :1.5 coarse sand : 3 graded stone aggregate 20 mm	Nos	1.00		

	nominal size), including C.I. cover with frame (heavy duty) 560 mm internal diameter, total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg). (Rain Water Harvesting)				
15.03	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :				
	250 mm dia.. R.C.C. pipe (Rain Water Harvesting Pipes Underground)	Rmt	25.00		
15.04	Providing and Installing Rainwater Filter with two stages of filtration, (i) HDPE filter element (ii) Polymeric filter element; having 110 mm inlet and outlet dia., with transparent lid: NRU 150 or equivalent as directed. (For Rainwater Filter)	Nos.	5.00		
16.00	<u>EXTERNAL DEVELOPMENT</u>				
16.01	Providing and laying 60mm thick factory made cement concrete interlocking paver block rubber moulded of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design& shape, laid in required colour and pattern over and including 50mmthick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge. (Make- Alcock, Vyara, or equivalent) (Building Front Entrance etc.)	sqm.	468.18		
16.02	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge). (Make- Alcock, Vyara, pavit or equivalent) (Building Front Entrance & Sides etc.)	Rmt	157.00		

16.03	Providing and laying compacted W.B.M. 150mm thick in One layer of machine crushed BT metal of size 40mm to 63mm Grade II with using 25% stone screenings as filler and binding material 0.08 Cum./10 Smt. including spreading watering and consolidation by vibratory roller etc. comp. in two layers. Grade – II (Site Development)	cum	260.00		
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Total (Excl. GST)					-
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In Words Rupees

Sign and Seal of the Contractor

Date: _____

Place: _____