

**ASSAM PROJECT
ON
FOREST AND BIO-DIVERSITY CONSERVATION
BILL OF QUANTITIES OF CIVIL WORKS
FOR
CONSTRUCTION OF NEW RESIDENTIAL COMPLEX
– AT REHABARI, GUWAHATI - 781 008.
LOWER LEVEL STAFF**

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
1	PILING WORKS MACHINE DRIVEN PILES Providing cast in-situ machine driven reinforced cement concrete piles of required bore-diameter, bulb diameter, lengths and with reinforcement as per specifications and drawings including using of Bentonite solution. A) UNIFORM PILE (l) Concrete Grade M25 (i) Pile dia 400 mm	R.M.	1457.00			
2	MISCELLANEOUS Extra for using admixture & plasticiser (a) RCC grade M25 (i) Pile Dia 400 mm	R.M.	1457.00			

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3	<p>REINFORCEMENT</p> <p>Supplying, fitting and fixing in position reinforcement bars conforming to relevent IS code, for reinforced cement concrete works in piles including straightening, cleaning, cutting and bending to proper shapes and length as per specifications and drawings. The rings should be welded with vertical reinforcements as per specified IS codes of practice. (Inclusive of lap length, hook, chair, bend, anchor...etc)</p> <p>(A) TMT bar made of Primary producer (From Primary producer)</p>	Qtl	161.00			
4	<p>PILE TESTS.</p> <p>Routine test for test loading to 1.5 times the specified safe working load including construction of any test pile cap and dismantling the same after completion of test. (Rate for Safe working Load)</p>	Ton	84.00			
5	<p>Initial test for test loading to 2 times the specified safe working load including construction of any test pile cap and dismantling the same after completion of test. (Rate for Safe working Load)</p>	Ton	56.00			

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6	Integrity testing of Pile using Low Strain / Sonic Integrity Test / Sonic Echo method in accordance with IS:14893 including surface preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc. and use of computerised equipment and high skill trained personal for conducting the test & submission of results, all complete as per direction of Engineer-in-charge.	Each Test	106.00			
7	DISMANTLING WORKS. Demolishing R.C.C. / P.C.C. pile head of different diameters carefully without disturbing the remaining portion of the pile including opening out of the pile head to be demolished by excavating the earth upto required depth and clearing the debris as directed.	Cu.M.	25.00			
8	EARTHWORK IN EXCAVATION Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified. (A) Up to a depth of 2.00m below the existing ground level. (a) In ordinary soil	Cu.M.	156.00			

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9	<p>Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary.</p> <p>(a) With river sand or silt (predominantly non plastic) by truck carriage including loading and unloading.</p>	Cu.M.	87.00			
10	<p>PLAIN CEMENT CONCRETE WORKS</p> <p>Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).</p> <p>(a) In prop 1 cement: 4 sand :8 coarse aggregate by volume</p>	Cu.M.	27.00			
11	<p>Plain cement concrete floor base in prop1:3:6 laid in alternate bays as specified with coarse agg. of size 13mm to 32mm including dewatering if necessary, and curing etc. complete.</p> <p>(a). 100 mm thick in prop 1:3:6</p>	Sq.M.	106.00			

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12	Providing and laying 25mm thick damp proof course with cement concrete in prop 1:1.5:3 with graded stone agg. of 10mm down nominal size including providing approved damp proof admixture in proportion as recommended by the manufacturer including curing etc. complete as directed.	Sq.M.	11.00			
13	<p>REINFORCED CEMENT CONCRETE WORKS</p> <p>Providing and laying plain/reinforced cement concrete works cement , coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately)</p> <p>(I) Using mixture machine (A) In sub - structure up to plinth level Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level.</p> <p>l) Using admixture, plasticiser etc for air entraining, water reducing purposes including addition of agent for changing normal setting time of concrete as required.</p> <p>a) M25 grade concrete</p>	Cu.M.	164.00			

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				(in Figures)	(in Words)	
	<p>(B) In super-structure from plinth level upto 1st floor level.</p> <p>(i) Walls (thickness not less than 100mm) including attached pillasters, buttresses, plinth and string course etc.</p> <p>l) Using admixture, plasticiser etc.</p> <p>a) M25 grade concrete.</p>	Cu.M.	6.00			
	<p>(ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing.</p> <p>l) Using admixture, plasticiser etc.</p> <p>a) M25 grade concrete.</p>	Cu.M.	87.00			
	<p>From 1st floor level to 2nd floor level.</p> <p>(i) Walls (thickness not less than 100mm) including attached pillasters, buttresses, plinth and string course etc.</p> <p>l) Using admixture, plasticiser etc.</p> <p>a) M25 grade concrete.</p>	Cu.M.	6.00			

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				(in Figures)	(in Words)	
	(ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing. l) Using admixture, plasticiser etc. a) M25 grade concrete.	Cu.M.	90.00			
	From 2nd floor level to 3rd floor level. (i) Walls (thickness not less than 100mm) including attached pillasters, buttresses, plinth and string course etc. l) Using admixture, plasticiser etc. a) M25 grade concrete.	Cu.M.	6.00			
	(ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing. l) Using admixture, plasticiser etc. a) M25 grade concrete.	Cu.M.	90.00			

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				(in Figures)	(in Words)	
	<p>From 3rd floor level to 4th floor level.</p> <p>(i) Walls (thickness not less than 100mm) including attached pillasters, buttresses, plinth and string course etc.</p> <p>l) Using admixture, plasticiser etc. a) M25 grade concrete.</p>	Cu.M.	6.00			
	<p>(ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing.</p> <p>l) Using admixture, plasticiser etc. a) M25 grade concrete.</p>	Cu.M.	90.00			
	<p>Above 4th floor level.</p> <p>(i) Walls (thickness not less than 100mm) including attached pillasters, buttresses, plinth and string course etc.</p> <p>l) Using admixture, plasticiser etc. a) M25 grade concrete.</p>	Cu.M.	2.00			

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				(in Figures)	(in Words)	
	(ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing. l) Using admixture, plasticiser etc. a) M25 grade concrete.	Cu.M.	18.00			
14	TIMBER SHUTTERING (FORMWORK) Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in-situ reinforced concrete and plain concrete work in: (i) Foundation, footings, bases of columns, pile cap, raft and mass concrete works etc. (a) Using 38mm thick plank	Sq.M.	210.00			
	(ii) Sides of tie beams, grade beams etc. at or below ground level. (a) Using 25mm thick plank	Sq.M.	171.00			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
(iii)	Columns, Pillars, Posts & Strut (a) Square, Rectangular, polygonal in plan or any shape like Tee/L etc. having plane vertical face (i) Using 38mm thick plank	Sq.M.	257.00			
	(b) Circular or curved in plan (Using 38mm thick plank)	Sq.M.	17.00			
(iv)	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties. (a) For depth not exceeding 1.0M. (i) Using 38mm thick plank	Sq.M.	476.00			
(v)	Flat Surfaces such as soffits of suspended floors, roofs, landings, cantilever slabs, chajjas, balconies and the like. (a) Floors etc. upto 200mm in thickness. (i) Using 38mm thick plank	Sq.M.	211.00			
(vi)	Vertical surface such as walls (any thickness), parapet walls, partitions, walls of septic tank, inspection pit and the like including attached pilasters, buttresses, plinth and string courses and the like. (i) Using 25mm thick plank	Sq.M.	14.00			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
(vii)	Staircase with sloping or stepped soffits including risers and stringers but excluding Landing. (Using 38mm thick plank)	Sq.M.	23.00			
(i)	From 1st floor level to 2nd floor level. Columns, Pillars, Posts & Strut (a) Square, Rectangular, polygonal in plan or any shape like Tee/L etc. having plane vertical face (i) Using 38mm thick plank	Sq.M.	175.00			
	(b) Circular or curved in plan (Using 38mm thick plank)	Sq.M.	10.00			
(ii)	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties. (a) For depth not exceeding 1.0M. (i) Using 38mm thick plank	Sq.M.	503.00			
(iii)	Flat Surfaces such as soffits of suspended floors, roofs, landings, cantelever slabs, chajjas, balconies and the like. (a) Floors etc. upto 200mm in thickness. (i) Using 25mm thick plank	Sq.M.	211.00			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
(iv)	Vertical surface such as walls (any thickness), parapet walls, partitions, walls of septic tank, inspection pit and the like including attached pilasters, buttresses, plinth and string courses and the like. (ii) Using 25mm thick plank	Sq.M.	14.00			
(v)	Staircase with sloping or stepped soffits including risers and stringers but excluding Landing. (Using 38mm thick plank)	Sq.M.	23.00			
(i)	From 2nd floor level to 3rd floor level.					
	Columns, Pillars, Posts & Strut (a) Square, Rectangular, polygonal in plan or any shape like Tee/L etc. having plane vertical face (i) Using 38mm thick plank	Sq.M.	175.00			
	(b) Circular or curved in plan (Using 38mm thick plank)	Sq.M.	10.00			
(ii)	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties. (a) For depth not exceeding 1.0M. (i) Using 38mm thick plank	Sq.M.	503.00			

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				(in Figures)	(in Words)	
(iii)	Flat Surfaces such as soffits of suspended floors, roofs, landings, cantelever slabs, chajjas, balconies and the like. (a) Floors etc. upto 200mm in thickness. (i) Using 25mm thick plank	Sq.M.	211.00			
(iv)	Vertical surface such as walls (any thickness), parapet walls, partitions, walls of septic tank, inspection pit and the like including attached pilasters, buttresses, plinth and string courses and the like. (ii) Using 25mm thick plank	Sq.M.	14.00			
(v)	Staircase with sloping or stepped soffits including risers and stringers but excluding Landing. (Using 38mm thick plank)	Sq.M.	23.00			
(i)	From 3rd floor level to 4th floor level. Columns, Pillars, Posts & Strut (a) Square, Rectangular, polygonal in plan or any shape like Tee/L etc. having plane vertical face (i) Using 38mm thick plank	Sq.M.	175.00			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
	(b) Circular or curved in plan (Using 38mm thick plank)	Sq.M.	10.00			
(ii)	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties. (a) For depth not exceeding 1.0M. (i) Using 38mm thick plank	Sq.M.	503.00			
(iii)	Flat Surfaces such as soffits of suspended floors, roofs, landings, cantilever slabs, chajjas, balconies and the like. (a) Floors etc. upto 200mm in thickness. (i) Using 25mm thick plank	Sq.M.	211.00			
(iv)	Vertical surface such as walls (any thickness), parapet walls, partitions, walls of septic tank, inspection pit and the like including attached pilasters, buttresses, plinth and string courses and the like. (ii) Using 25mm thick plank	Sq.M.	14.00			
(v)	Staircase with sloping or stepped soffits including risers and stringers but excluding Landing. (Using 38mm thick plank)	Sq.M.	23.00			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
(i)	From 4th floor level to 5th floor level. Columns, Pillars, Posts & Strut (a) Square, Rectangular, polygonal in plan or any shape like Tee/L etc. having plane vertical face (i) Using 38mm thick plank	Sq.M.	60.00			
	(b) Circular or curved in plan (Using 38mm	Sq.M.	4.00			
(ii)	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties. (a) For depth not exceeding 1.0M. (i) Using 38mm thick plank	Sq.M.	22.00			
(iii)	Flat Surfaces such as soffits of suspended floors, roofs, landings, cantelever slabs, chajjas, balconies and the like. (a) Floors etc. upto 200mm in thickness. (i) Using 25mm thick plank	Sq.M.	24.00			
(iv)	Vertical surface such as walls (any thickness), parapet walls, partitions, walls of septic tank, inspection pit and the like including attached pilasters, buttresses, plinth and string courses and the like. (i) Using 25mm thick plank	Sq.M.	20.00			

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				(in Figures)	(in Words)	
15	<p>MASONRY WORKS</p> <p>Providing soling in foundation and under floor with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete. (a).Brick on flat soling.</p>	Sq.M.	408.00			
16	<p>IN SUB-STRUCTURE.</p> <p>Brick work in cement mortar with 1st class brick including racking out joints and dewatering if necessary, and curing complete as directed (l) In Sub-structure up to plinth level. (a). In proportion 1:4.</p>	Cu.M.	33.00			

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17	AUTOCLAVED AERATED CONCRETE BLOCK. Superlight Weight Autoclaved Aerated concrete Block work using AAC block of size 625x240mmm of different thickness of compressive strength 35 Kg/Cm ² having dry density 500 to 650 kg./ Cu.m. subject to maximum water absorption of 8% conforming to IS-2185 Pt-3 or Pt-4 in cement mortar in prop. 1:4 including racking out joints and curing complete as directed instructure. (protruding rod is to be provided at every 3 course interval and will be measured and paid separately)					
(i)	In Super-structure above plinth level upto 1st floor level. a) For 125mm thick wall.	Sq.M.	292.00			
(ii)	From 1st floor level to 2nd floor level.	Sq.M.	240.00			
(iii)	From 2nd floor level to 3rd floor level.	Sq.M.	240.00			
(iv)	From 3rd floor level to 4th floor level.	Sq.M.	240.00			

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(v)	From 4th floor level to 5th floor level.	Sq.M.	150.00			
18	<p>CEMENT CONCRETE FLOORING</p> <p>40 mm thick cement concrete floor consisting of 25 mm under layer of cement concrete in prop. 1:3:6 (1cement : 3 coarse sand : 6 coarse aggregate of 12.5 mm and down) and 15 mm thick wearing layer in cement concrete in prop. 1:1:2 (1cement :1 coarse sand : 2 coarse aggregate of size 10mm down) finished with a floating coat of neat cement finish using cement slurry for bond @ 2.75 kg. per square metre of floor area , wearing layer is to be laid in panels including curing etc. complete as directed.</p>	Sq.M.	550.00			
19	<p>Cement plaster skirting with cement mortar in prop. 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement including rounding of junctions with floor.</p> <p>(a) 15 mm thick</p>	Sq.M.	67.00			

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				(in Figures)	(in Words)	
20	<p>TILES WORKS</p> <p>1. CERAMIC TILES</p> <p>A) ON FLOOR</p> <p>Providing Ceramic Tiles of approved quality, size, shape and thickness not less than 8 mm on floors, skirtings, treads and risers of steps over cement mortar bed 15 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile Choksey /Sika/Pedelite /Rouf) /white cement slurry mixed with approved pigment to match the shade of granite slab, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of slab and as approved and directed by the Department).</p> <p>a)Normal range (Somany/ Orient/ Nitco /Asian)</p> <p>i) Of size 300mmx 300mm and above</p>	Sq.M.	50.00			

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21	<p>A) ON WALLS</p> <p>Providing polished ceramic wall Tiles of approved quality, size, shape and thickness not less than 8mm on walls and skirtings over cement mortar bed 10 mm thick in prop. 1:3 (1 cement : 3 coarse sand) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf)/white cement slurry mixed with approved pigment to match shade of tiles complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department). (Walls means both interior and exterior walls).</p> <p>i) Of size 200mmx 300mm and above</p>	Sq.M.	211.00			
22	<p>CEMENT PLASTERING</p> <p>10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed.</p> <p>(a). In cement mortar 1:4</p>	Sq.M.	1162.00			

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23	<p>15 mm thick Cement plaster in single coat on rough side of single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed.</p> <p>A) On rough side (a). In cement mortar 1:4</p>	Sq.M.	5687.00			
24	<p>ROOF TREATMENT</p> <p>Grading roof for water proofing treatment with (a) Cement concrete 1:2:4 (i) 1 cement: 2 coarse sand: 4 graded stone agg. 20 mm nominal size)</p>	Cu.M.	9.00			
	<p>(b) Cement mortar (i) 1:3 (1 cement: 3 coarse sand)</p>	Cu.M.	9.00			

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25	<p>DOOR FRAMES</p> <p>Supplying, fitting and fixing door frame made of M.S. equal angle of size 40mmx40mmx5mm fabricated, welded, mitred and joined as per relevant I.S. Codes including fitting 8 nos. of M.S. hold fast, providing closing/ holding device for 2 nos. tower bolts of door for each side and 1 no. for fitting and fixing Aldrop (for single leaf) to the frame for fixing the door to the frame, applying primer to all steel surfaces fixing the frame to the wall/ R.C.C. members by embedding the hold fast securely in C.C. block of M-15 grade complete at all levels as specified and directed. (Door hinges to be paid as per relevant item of the schedule of rates).</p>	R.M.	176.00			
26	<p>BLOCK BOARD SHUTTERS</p> <p>Providing and fixing flush door shutters solid core construction with frame of 1st class hard wood with cross band and face veneered ply wood face panels conforming to relevant I.S code including oxidised iron butt hinges (100mm x 75mm x 3.5mm) 6 nos with necessary wood screws.</p> <p>a) Non decorative type and block board core.</p> <p>(i) 35 mm thick .</p>	Sq.M.	84.00			

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27	<p>GRILLS</p> <p>Providing, fitting and fixing M.S. grill of required pattern for windows/ clerestory windows/ opening with M.S. flats at required spacing in frame all round, square or round M.S. bars with round headed bolts and nuts or screws.</p> <p>I. Plain grill</p> <p>(a). Fixed to Brickwork /P.C.C /R.C.C.</p>	Kg.	4136.00			
28	<p>ALUMINIUM DOORS, WINDOWS AND OTHER WORKS</p> <p>WINDOWS AND VENTILATORS</p> <p>Providing, fitting and fixing anodised aluminium windows and ventilators of standard sections of approved brand without horizontal glazing bars joints mitred and welded (manufactured to relevant IS specifications) fitted with 6mm x 3.15mm lugs 100mm long embedded in CC blocks 150mm x 100mm x 100mm in 1:3:6 mix including providing and fixing handles, frictions stays, joining cleat, bolting device, locking arrangement, spring catch as required complete as specified and directed for all levels. (Cement concrete to be measured and paid separately).</p> <p>a)Side hung and Top hung windows and ventilators</p> <p>i) 5mm frosted glass</p>	Sq.M.	27.00			

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				(in Figures)	(in Words)	
	(b)Fixed windows and ventilators (i) 5 mm clear glass	Sq.M.	4.00			
29	Providing, fitting and fixing anodised aluminium sliding windows and ventilators of standard sections of approved brand without horizontal glazing bars, joints mitred and welded (manufactured to relevant IS specifications) and providing and fixing handles, angle cleat, rubber gasket, roller, bolting device, locking arrangements, screws etc as required complete as specified and directed for all levels. (a)2 Track sliding window (i) 5 mm clear glass	Sq.M.	41.00			
	(b)3 Track sliding window (i) 5 mm clear glass	Sq.M.	82.00			
30	P.V.C. DOORS & DOOR FRAMES Providing, fitting and fixing 40mm x 48mm wood reinforced PVC chowkhats fixed to the columns/stiffeners /walls with necessary holdfast/sleeves etc. as specified and directed at all levels.	RM	109.00			

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				(in Figures)	(in Words)	
31	Providing, fitting and fixing 24mm/ 29mm thick polymer reinforced moulded PVC door shutters fixed to the chowkath with necessary hinges, screws, bolts etc. as specified and directed at all levels (Door fixtures and fittings to be measured and paid seperately) a) 29mm thick	Sq.M.	35.00			
32	CEMENT PAINT & PRIMER a) Applying one coat of cement primer of approved brand and manufacture on new wall surface after thoroughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.	Sq.M.	5687.00			
33	PLASTER OF PARIS & WALL PUTTY Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/ mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emery stone, putty blade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) (i) Thickness = 1.5 mm thick	Sq.M.	5687.00			

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				(in Figures)	(in Words)	
34	EXTERIOR PAINTS / COATINGS Finishing old / new wall with water proofing weather coat smooth anti-fungal exterior painting of approved make of Berger paint of required shade after cleaning and clearing the surface etc. including scaffolding complete as directed at all levels (two coats)	Sq.M.	9992.00			
35	ALUMINIUM FITTINGS Supplying, fitting, fixing anodised aluminium fittings of approved make, reasonably smooth, free from sharp edges and corners, flaws and other defects and with counter sunk holes for screws including necessary aluminium screws etc. complete.(anodised to bright natural matt & satin finished)					
	a) Sliding door bolts i) 300mm x 16mm	Each	56			
	b) Tower bolts i) 250mm x 12mm	Each	112			
	c) Door handles i) 150mm	Each	112			
	d) Door Stopper with rubber stopper.	Each	56			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
36	STEEL & IRON WORKS REINFORCEMENT Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) a) From Primary Producer: TATA/SAIL / Esser Steel/ Jindal steel/Shyam steel/RINL (i) Super Ductile (SD) TMT reinforcement bars	Qtl.	318.00			
	(ii) From 1st floor level to 2nd floor level.	Qtl.	195.00			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
(iii)	From 2nd floor level to 3rd floor level.	Qtl.	195.00			
(iv)	From 3rd floor level to 4th floor level.	Qtl.	195.00			
(v)	From 4th floor level to 5th floor level.	Qtl.	22.00			
37	Providing and fixing M.S. fan clamp type I or II of 16 mm dia M.S. bar, bent to shape with hooked ends in R.C.C. slabs or beams during laying, including painting the exposed portion of loop, all as per standard design complete.	Each	44			
38	COLLAPSIBLE / ROLLING SHUTTERS Providing and fixing in position collapsible M.S. shutters with vertical channels 20mmx10mmx2mm braced with flat iron diagonals 20mmx5mm size with top and bottom rails of T-iron 40mmx40mmx6mm with 38mm dia steel pulleys complete with bolts and nuts, locking arrangements, stoppers, handles including applying a priming coat of red lead paint.	Sq.M.	5.00			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
39	STEEL RAILING Providing and fixing M.S. Tube Hand Rail of approved size by welding etc. to steellader railing, balcony railing , staircase railing and similar works, including applying priming coat of approved steel primer complete as specified and directed by department.	Kg.	950.00			
40	PLINTH PROTECTION WORKS AND DRAINS Providing plinth protection 50mm thick to cement concrete 1 : 3 : 6 with coarse agg.of 20mm nominal size including finishing the surface with 10mm thick cement plaster in proportion 1:3 with a floting coat of neat cement finished.	Sq.M.	55.00			
41	Providing drain with cement concrete (1:3:6) 10cm thick sides 10cm thick bed over brick flat soling including 15mm thick cement plastering in prop. 1:3 finished with a floating coat of cement slurry as directed with necessary shttering for sides and earth work in excavation of foundation trenches and refilling the sides after completion of work etc. as specified. i). 300mm wide and average 150mm deep with bed slope 1 in 150 with initial depth of 100mm.	R.M.	73.00			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
42	<p>PRE CONSTRUCTION ANTI - TERMITE TREATMENT</p> <p>Pre construction anti - termite treatment by applying in the junction of walls, column with the floor before laying floor and after operation of item no. 26.1.3 above making a channel 30mmx30mm all over the walls and making rod holes @ 150mm apart up to ground level below and applying emulsion @ 11 litres per square meter of vertical plinth wall surface inside the building so as to soak the soil with the emulsion up to the ground level and refill the holes and channel with the original materials obtained in making channels (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete.</p> <p>a) with aqueous emulsion having concentration 1:19 with chloropirophose solution (trichel or euivalent) and water, i.e. 1% solution.</p>	Sq.M.	150.00			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
43	<p>Pre construction anti - termite treatment by applying the soil along the external perimeter of the building (after construction completed) to a distance close to the plinth wall as specified and as directed by the deptt. up to a depth of 300mm making rod holes along the line @ 150mm apart to a depth of 300mm and applying emulsion @ 4.5 litres per running meter ensure moistening of the soil with emulsion (supplying of necessary tools and accessories by the contractor) as per the direction of the Department complete.</p> <p>a) with aqueous emulsion having concentration 1:19 with chloropirophose solution (trichel or euivalent) and water, i.e. 1% solution.</p>	R.M.	55.00			
44	<p>SANITARY WORKS INDIAN TYPE WATER CLOSET</p> <p>Providing fitting and fixing vitreous water closet squatting pan (Indian type W.C Orissa pattern) with all fittings and fixtures complete including cutting and making good to the walls and floors wherever required. (Flushing Cistern to be paid separately)</p> <p>Indian type W.C Orissa pattern of size 580 x 440 mm (a) White i) Parryware make</p>	Each	11			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
45	<p>PVC FLUSHING CISTERN</p> <p>Supplying, fitting and fixing PVC flushing cistern with all internal fittings with CI brackets including fitting and fixing standard size CP flush pipe, union clamps etc. complete as directed and specified (pipes will be measured separately)</p> <p>i) Parryware make a) White (i) Economy Single Flush (Cat No.C8090 / C8055)</p>	Each	11			
46	<p>WASH BASIN</p> <p>Providing vitreous China wash basin with CI/MS brackets, C.P brass chain with plug,PVC waste pipe including painting of fittings and brackets, cutting and making good the walls wherever required. (Pillar cock, stop cocks, waste coupling are to be paid separately)</p> <p>Basin (without Pedestal) a) White i) Star Basin 550x400 (Car No. C0450)</p>	Each	11			
47	<p>MIRROR</p> <p>Providing fitting and fixing Mirror with plastic frame of size 500x400mm complete as directed and specified.</p>	Each	11			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
48	<p>SHELF Providing fitting and fixing Glass Shelf complete as directed and specified. Glass shelf with C.P. guard rail (i) Sona make (Cat. No.TR-0701) (a) 525mm</p>	Each	11			
49	<p>SOAP TRAY,SOAP DISH,LIQUID SOAP DISPENSER AND LIQUID SOAP Providing, fitting and fixing recessed soap tray / soap dish complete as directed and specified. (a) Parryware Make (i) Wall Soap tray (Cat. No.C9951)</p>	Each	22			
50	<p>TOWEL RAIL,TOWEL RACK & TOWEL RING Providing, fitting and fixing CP towel rail complete as directed and specified. (a) Sona make (i) Towel Rail Diplomat 600mm long (Cat No. TR-0605)</p>	Each	11			
51	<p>WASTE COUPLING Providing, fitting and fixing Chrome Plated waste coupling complete as directed and specified. (a) Sona make (i) Rupa 40mm (HT/FT) (Cat.No. WS-0801)</p>	Each	11			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
52	BOTTLE TRAP Providing, fitting and fixing Chrome Plated bottle trap complete as directed and specified. (a) Sona make (i) Bottle trap Indian 32mm (Cat.No. BT-0751)	Each	11			
53	PVC PIPES, BENDS, JUNCTIONS, TEES ETC. Supplying, fitting and fixing PVC pipes of 6 Kg/cm ² (Supreme/Prince) or other ISI approved including joining ,fitting and fixing wiyh clamps etc.as necessary complete at all levels including below G.L as directed and specified. a) In exposed surfaces or in trenches. (i) 110mm dia.	R.M.	110.00			
	(ii) 75mm dia.	R.M.	82.00			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
	b) Concealed by chiselling or breaking brick wall/C.C./R.C.C and making good to the damages. (i) 110mm dia.	R.M.	20.00			
	(ii) 75mm dia.	R.M.	35.00			
54	Supplying, fitting and fixing 87.5 degree PVC bend of (Supreme/Prince) or other ISI approved including joining ,fitting and fixing etc.as necessary complete at all levels including below G.L as directed and specified. a) In exposed surfaces or in trenches. (i) 110mm dia.	Each	11			
	(ii) 75 mm dia.	Each	11			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
	(b) Concealed by chiselling or breaking brick wall/C.C/R.C.C. and making good to the damages. (i) 110mm dia.	Each	11			
	(ii) 75 mm dia.	Each	11			
55	Supplying fitting and fixing 87.5 degree PVC bend with door of (Supreme/ Prince) or other ISI approved including joining, fitting and fixing etc.as necessary complete at all levels including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (i) 110mm dia.	Each	11			
	(ii) 75 mm dia.	Each	11			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
	(b) Concealed by chiselling or breaking brick wall/C.C/R.C.C. and making good to the damages. (i) 110mm dia.	Each	11			
	(ii) 75 mm dia.	Each	11			
56	Supplying fitting and fixing 45degree PVC bend of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (i) 110mm dia.	Each	11			
	(ii) 75 mm dia.	Each	11			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
	(b) Concealed by chiselling or breaking brick wall/C.C/R.C.C. and making good to the damages. (i) 110mm dia.	Each	11			
	(i) 75 mm dia.	Each	11			
57	Supplying fitting and fixing PVC Plain single tee of (Supreme/ Prince) or other ISI approved including joining, fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (i) 110mm dia.	Each	11			
	(ii) 75 mm dia.	Each	11			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
	(b) Concealed by chiselling or breaking brick wall/C.C/R.C.C. and making good to the damages. (i) 110mm dia.	Each	11			
	(ii) 90mm dia.	Each	11			
58	Supplying fitting and fixing PVC single 'Y' of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified. a) In exposed surfaces or in trenches. (i) 110mm dia.	Each	11			
	(ii) 75mm dia.	Each	11			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
	(b) Concealed by chiselling or breaking brick wall/C.C/R.C.C. and making good to the damages. (i) 110mm dia.	Each	11			
	(ii) 75 mm dia.	R.M.	11			
59	COWEL Providing fitting and fixing 50mm dia. HCI cowel with cement caulking complete as directed and specified.	Each	11			
60	GRATING Providing fitting & fixing C.P.Grating to the floors complete as directed and specified. (a) 110mm dia	Each	22			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
61	<p>PIPING</p> <p>Supplying fitting and fixing SFMC (SAVOIR-FAIRE MANUFACTURING CO. PVT.LTD.) brand 3 layered (outer green coloured, UV Stabilised, middle black coloured and inner white coloured (with antimicrobial property) fusion welded P.P.R (Polypropelene Random Co-Polymer) pipes of following size with all necessary fitting such as bend , tee, elbow, reducer, plug and clamp etc. complete at all levels as directed and specified.</p> <p>(i) In exposed surface or trenches</p>					
(a)	16mm OD (PN-16) SFMC brand 3 layer P.P.R. pipe	R.M.	55.00			
(b)	20 mm OD (PN-16) SFMC brand 3 layer P.P.R. pipe	R.M.	66.00			
(c)	25 mm OD (PN-16) SFMC brand 3 layer P.P.R. pipe	R.M.	12.00			
(d)	40 mm OD (PN-16) SFMC brand 3 layer P.P.R. pipe	R.M.	40.00			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
62	<p>BIB COCK Supplying fitting and fixing polymer bib cock (15mm dia) of Polymer Prayag make directed and specified.(G.I. & C.P pipes will be measured separately) (a) Standard</p>	Each	33			
63	<p>STOP COCK Supplying fitting and fixing stop-cock of approved brand of size as mentioned below and directed and specified (G.I. & C.P. pipes will be measured and paid separately) I) Brass stop cock (heavy) of Sant make (i) 15mm dia</p>	Each	22			
	(ii) 20mm dia	Each	11			
	(iii) 25mm dia	Each	11			
	(iv) 40mm dia	Each	11			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
64	PILLAR COCK Supplying and fitting fixing polymer pillar cock of Polymer Prayag make (15mm) dia as directed. (a) Standard	Each	11			
65	SHOWER Supplying fitting and fixing overhead adjustable Chrome Plated (C.P.) spray shower 15mm dia. of Sona make with wall flange as directed and specified.(pipes will be measured and paid separately) (a) New Diplomat/ / Rocket/ Mini Kranti/ Mini Hex shower with arm	Each	11			
66	VALVE Supplying and fitting gun metal country pit valve (full way valve) I.S.I. Make as specified and directed. a) 40 mm dia.	Each	3			
67	Supplying fitting and fixing gun metal check valve including necessary threads to pipes. a) 40 mm dia (Heavy type)	Each	3			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
68	WATER TANK Supplying and placing plastic cylindrical vertical clauded top (PCVC) tank of Sintex / Polycon / Patton make over the staggging with manhole cover with locking and cleaning arrangement including providing pads of size as required for inlet and outlet pipes (I) 2000 litre capacity (a) Sintex make	Each	3			
	(II) 1000 litre capacity (a) Sintex make	Each	3			
69	Neat Cement Punning	Sq.M.	56.00			
70	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design In 75x75 mm deep chase	Metre	77.00			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
71	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	Each	6			
72	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion.(i) Single socketed pipes. 110 mm diameter	Metre	77.00			
73 (a)	Providing and fixing on wall face unplasticised - PVC moulded fittings / accessories for unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Coupler 110 mm	Each	39			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
(b)	Bend 87.5° 110 mm bend	Each	6			
(c)	Shoe (Plain) 110 mm bend	Each	6			
74	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised -PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 110 mm	Each	6			
75	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	Each	6			

Sl. No.	Specification of item of works	Unit	Quantities	Rate in Rs.		Amount (in Rs.)
				(in Figures)	(in Words)	
76	Distemping with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour. Two coats	Sq.M.	6849.00			
77	Painting with synthetic enamel paint, having VOC (Volatile Organic Compound) content less than 150 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour. Two coats	Sq.M.	418.00			
78	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.					
	a) With ready mixed red oxide zinc chromatic on steel / iron works having VOC content less than 250 grams/ litre	Sq.M.	418.00			
	b) With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	Sq.M.	9992.00			
TOTAL : Rs.						

(Rupees

Signature of the Contractor :

Date & Seal :