

CONSTRUCTION OF W & C BLOCK FOR TALUK HOSPITAL, ALATHUR

PART I: CIVIL WORKS

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
1	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	23.00	Cum		
2	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead :				
a)	Of area 3 sq. metres and below	8.00	Each		
b)	Of area beyond 3 sq. metres	4.00	Each		
3	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead For thickness of tiles 10 mm to 25 mm	110.00	Sqm		
4	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:4:8 or leaner mix (i/c equivalent design mix)	9.50	Cum		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
5	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	1.00	Cum		
6	Extra for cutting reinforcement bars manually/ by mechanical means in R.C.C. or R.B. work (Payment shall be made on the cross sectional area of R.C.C. or R.B. work) as per direction of Engineer - in -charge.	1.00	Sqm		
7	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, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	310.00	Cum		
8	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, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil. 1.5m to 3.0m	27.00	Cum		
9	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, lead up to 50 m and lift upto 1.5 m.	273.00	Cum		
10	Conveying and disposing off the excess earth	65.00	Cum		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
11	Supplying and filling in plinth with quarry dust under floors, including watering, ramming, consolidating and dressing complete.	21.00	Cum		
12	Supplying chemical emulsion in sealed containers including delivery as specified:Chlorpyriphos/ Lindane emulsifiable concentrate of 20%	150.00	Litre		
13	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor : With Chlorpyriphos/Lindane E.C. 20% with 1% concentration.	270.00	Sqm		
14	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	58.00	Cum		
15	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20mm nominal size) upto plinth level with :Cement mortar 1:6 (1 cement : 6 coarse sand).	25.00	Cum		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
16	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement :3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand including finishing the top smooth	75.00	Sqm		
17	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	2.00	Cum		
18	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement including cost of 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 the Engineer - in - charge:				
	.(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).				
	All works upto plinth level.(M-25 grade Concrete)	132.00	Cum		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
19	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement including cost of 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 the Engineer - in - charge:				
	.(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).				
	All works above plinth level upto floor V level (M-25 grade concrete	232.00	Cum		
20	Add for using extra cement in the items of design mix over and above the specified cement content therein.	218.40	Qntl		
21	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement: 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size).	1.50	Cum		
22	Centering and shuttering including strutting, propping etc. and removal of form for :				

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
a	Foundations, footings, bases of columns, etc. for mass concrete.	180.00	Sqm		
b	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc	270.00	Sqm		
c	Suspended floors, roofs, landings, balconies and access platform	710.00	Sqm		
d	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	815.00	Sqm		
e	Columns, Pillars, Piers, Abutments, Posts and Struts.	460.00	Sqm		
f	Stairs, (excluding landings) except spiral-staircases.	45.00	Sqm		
g	Edges of slabs and breaks in floors and walls.Under 20 cm wide	430.00	Rm		
h	Weather shade, Chajjas, corbels etc., including edges.	65.00	Sqm		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
i	Extra for additional height in centering, shuttering where ever required with adequate bracing, propping etc. including cost of de-shuttering and decentering at all levels, over a height of 3.5 m, for every additional height of 1 metre or part thereof (Plan area to be measured) Suspended floors, roofs, landing, beams and balconies (Plan area to be measured).	530.00	Sqm		
23	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete	47320.00	Kg		
24	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :Cement mortar 1:6 (1 cement : 6 coarse sand)	240.00	Cum		
25	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.Cement mortar 1:4 (1 cement :4 coarse sand)	220.00	Sqm		
26	Extra for providing and placing in position 2 Nos. 6mm dia. M.S. bars at every third course of half brick masonry.	220.00	Sqm		
27	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-in-charge (Door handle, lock and stopper etc.to be paid separately).	5.00	Sqm		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
28	Providing and fixing double action hydraulic floor spring of approved brand and manufacture conforming to IS : 6315, having brand logo embossed on the body / plate with double spring mechanism and door weight upto 125 kg., for doors, including cost of cutting floors , embedding in floors as required and making good the same matching to the existing floor finishing and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge. With brass cover plate minimum 1.25 mm thickness.	2.00	Each		
29	Providing and fixing factory made UPVC door frame made of UPVC extruded section having an overall dimensions as below (tolerance ± 1 mm), with wall thickness 2.0mm (± 0.2 mm), corners of the door frame to be joined with galvanized brackets and stainless steel screws, joints mitered and plastic welded. The hinged side vertical of the frames reinforced by galvanized M.S. tube of size 19x19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. Stainless steel hinged fixed to the frame complete as per manufacturers Specification and direction of engineering -in-charge Extruded section profile size 48x40 mm	35.00	Rm		
30	30 mm thick factory made Polyvinyl Chloride (PVC) door shutter made of styles and rails of a UPVC hollow section of size 60x30 mm and wall thickness 2 mm (± 0.2 mm), with inbuilt decorative moulding edging on one side. The styles and rails mitred and joint at the corners by means of M.S. galvanised/plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 25x20 mm and 1 mm (± 0.1 mm) wall thickness.				

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
	The lock rail made up of 'H' section, a UPVC hollow section of size 100x30 mm and 2 mm (± 0.2 mm) wall thickness fixed to the shutter styles by means of plastic/ galvanised M.S. 'U' cleats. The shutter frame filled with a UPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness . The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge.	11.00	Sqm		
31	Providing and fixing aluminum work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate z sections and other sections of approved make confirming to IS : 733 and IS : 1285 fixed with fixed with raw plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC / neoprene felt etc.				
	Aluminium sections shall be smooth, rust free, straight, mitered 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 and panelling to be paid for separately). For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron)	1740.00	Kg		
32	For shutters of doors, windows & ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including the cost of PVC / neoprene gasket required (fittings shall be paid for separately) Powder coated aluminium (minimum thickness of powder coating 50 micron)	1160.00	Kg		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
33	Providing and fixing 12mm thick prelaminated particle board flat pressed three layer or graded wood particle board conforming to IS : 12823 Grade I type II in panelling fixed in aluminium doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc., complete as per architectural drawings and directions of engineer-in-charge. Prelaminated particle board with decorative lamination on both sides.	62.00	Sqm		
34	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 . (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 5.50 mm thickness	85.00	Sqm		
35	Filling the gap in between aluminium frame & adjacent RCC/Brick/Stone work by providing weather silicon sealant over backer rod of approved quality as per architectural drawings and direction of Engineer-in-charge complete. Upto 5mm depth and 5mm width	370.00	Rm		
36	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc., complete. 250 x 10mm	100.00	Each		
37	Providing and fixing 100mm brass locks (best make of approved quality) for aluminum doors including necessary cutting and making good etc. complete	35.00	Each		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
38	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc., complete.100mm	100.00	Each		
39	Providing and fixing aluminium tubular handle bar 32 mm outer dia, 3.0 mm thick & 2100 mm long with SS screws etc .complete as per direction of Engineer-in-Charge:Powder coated minimum thickness 50 micron aluminium tubular handle bar.	4	Each		
40	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating note less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc., complete. Twin rubber stopper	55	Each		
41	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.				
a	205 X 19 mm	20	Each		
b	355 X 19 mm	50	Each		
42	Providing and fixing aluminium casement windows fastener of required length for aluminium windows with necessary screws etc. complete Powder coated minimum thickness 50 micron aluminium	70	Each		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
43	Providing and fixing IS : 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc., complete.	55.00	Each		
44	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6mm angle iron and 3mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.Using M.S. angels 40x40x6 mm for diagonal braces.	8.00	Sqm		
45	Providing and fixing stainless steel (Grade 304) railing 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 bolt complete i/c fixing the railing with necessary accessories & Stainless steel dash fasteners, stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangemant as per approval of Engineering-in-charge .(for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.)	220.00	Kg		
46	Providing and fixing M.S. grills of required patern in frames of windows etc. with M.S. flats square or round bars etc . Including priming coat with approved steel primer all complete:Fixed to openings with rawl plugs screws etc.	1010.00	Kg		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
47	Providing and fixing 18mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.Area of slab over 0.50 sqm. (Lowest retail price not less than Rs. 2000/m2)	300.00	Sqm		
48	Extra for pre finished nosing to treads of steps of granite stone.	95.00	Rm		
49	Extra for Granite stone flooring in treads of steps and risers using single length up to 2.00 metre	35.00	Sqm		
50	Stone cladding work for wall lining upto 10m height with special adhesive over 12mm thick bed of cement mortar 1:3 (1cement : 3coarse sand) including pointing in white cement with an admixture of pigment to match the stone shade.Granite stone 18mm thick of any colour and shade	24.00	Sqm		
51	Mirror polishing on marble work/Granite stone work where ever required to give high gloss finish complete.	24.00	Sqm		
52	Providing edge moulding to 18mm thick marble stone counters, Vanities etc. including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge:Granite work.(cladding)	24.00	Rm		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
53	Extra for providing opening of required size and shape for wash basins/kitchen sink in kitchen platform, vanity counters and similar location in granite stone work including necessary holes for pillar taps etc.including rubbing and polishing of cut edges etc.complete.	1.00	Each		
54	Providing and laying polished vitrified floor tile in different sizes (thickness to be specified by the manufacturer) with Acid and / or Alkali resistant tiles and water absorptions less than 0.08% and conforming to IS:15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement:4 Coard sand) including grouting the joints with white cement and matching pigments etc. complete.:Size of Tiles 60 x 60 cm . (Lowest retail price not less than Rs. 900/m2)	270.00	Sqm		
55	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer) with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make in all colours & shade in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), including grouting the joint with white cement & matching pigments etc. complete. Size of Tile 600x600 mm. (Lowest retail price not less than Rs. 900/m2)	8.00	Sqm		
56	Providing and laying rectified Glazed Ceramic floor tiles 300x300mm or more (thickness to be specified by the manufacturer) of 1 st quality conforming to IS : 15622 of approved make in colours white,Ivory, Grey, Fume, Red Brown, laid on 20mm thick cement mortar 1:4 (1 cement: 4 coarse sand)including grouting the joints with white cement and matching pigments etc.complete. (Lowest retail price not less than Rs. 500/m2)	25.00	Sqm		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
57	Providing and fixing 1st quality ceramic glazed wall tiles 300x450mm or more size confirming to IS: 15622(thickness to be specified by the manufacture)of approved make in all coloures,shades except burgundy,Bottle green,Black of any size as approved by Engineer-In - Charge in skirting,risers of steps and dados over 12mm thick bed of cement Mortor 1:3 (1 cement :3Coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete. (Lowest retail price not less than Rs. 450/m2)	810.00	Sqm		
58	Chequerred precast cement concrete tiles 22 mm thick in footpath & courtyard, jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc. complete, on 20 mm thick bed of cement mortar 1:4 (1 cement: 4 coarse sand). Dark shade using ordinary cement	135.00	Sqm		
59	Supplying and fixing vinyl covering for floor (Armstrong make) for theatre flooring (Anti bacterial and anti fungal) including installation, cost with adhesive, copper laying, welding etc all complete and as per the direction of Engineer in charge	14.00	Sqm		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
60	Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 gsm/sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38mm made from 0.30mm thick (minimum) sheet, spaced at 1200mm center to center and cross "T" of size 24x25mm made of 0.30mm thick (minimum) sheet, 1200mm long spaced between main "T" at 600mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600mm and size 24x25mm made of 0.30 mm thick (minimum)				
	sheet to be interlocked at middle of the 1200x600mm panel to form grids of 600x600mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, wherever, required, cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 x mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200mm center to center along main T, bottom				
	exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete at all heights as per specifications drawings and as directed by Engineer-in-charge.				

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
	GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5mm thick with 8mm drop; made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.	66.00	Sqm		
61	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	1560.00	Sqm		
62	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:4 (1 cement: 4 fine sand)	900.00	Sqm		
63	6 mm cement plaster of mix : 1:3 (1 cement: 3 fine sand) for under side of slab	730.00	Sqm		
64	Providing and laying C.C. pavement of mix M-25 with ready mixed concrete from batching plant. The ready mixed concrete shall be laid and finished with screed board vibrator , vacuum dewatering process and finally finished by floating, brooming with wire brush etc. complete as per specifications and directions of Engineer-in-charge. (The panel shuttering work shall be paid for separately).(Note:- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/ recoverable separately).	14.00	Cum		
65	12 mm cement plaster 1:3 (1 cement: 3 course sand) finished with a floating coat of neat cement of mix :including providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	320.00	Sqm		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
66	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	2290.00	Sqm		
67	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface	2290.00	Sqm		
68	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade: Two or more coats on new work. (inside of rooms)	2290.00	Sqm		
69	Finishing walls with Acrylic Smooth exterior emulsion paint of required shade : New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/ 10 sqm).	900.00	Sqm		
70	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surface, etc. complete.	60.00	Sqm		
71	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : Two or more coats on new work.	55.00	Sqm		
72	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. Hot finished welded type tubes.	3850.00	Kg		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
73	Providing and fixing precoated galvanised iron profile sheets (size,shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm + 0.05 %, total coated thickness with zinc coating 120 gsm 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 while 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 55mm) 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.	200.00	Sqm		
<u>SEPTIC TANK&SOAK PIT</u>					
	EARTH WORK				
74	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, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.	27.00	Cum		
75	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.All kinds of soil.	9.00	Cum		
76	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, lead up to 50 m and lift upto 1.5 m.	6.00	Cum		
	PLAIN CEMENT CONCRETE				

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
77	Cement concrete(Cast-in-situ) Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering- All work upto plinth level 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	2.00	Cum		
	REINFORCED CEMENT CONCRETE				
78	Providing and laying in position specified grade of reinforced cementconcrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	11.00	Cum		
79	Centering and shuttering including strutting, propping etc. and removal ofform for :Lintels, beams, plinth beams, girders, bressumers and cantilevers	93.00	Sqm		
80	Reinforcement for RCC works including straightening, cutting, bending, placing in position and binding all complete. Thermo - Mechanically treated bars (Using Vizac, Tata or SAIL)	1240.00	Kg		
	FINISHING WORKS				
81	Extra for plastering on circular work not exceeding 6 m in radius:In two coats	10.00	Sqm		
82	12 mm cement plaster finished with a floating coat of neat cement of mix : 1:3 (1 cement: 3 fine sand)	43.00	Sqm		
	INTERNAL WATER SUPPLY & SANITORY INSTALLATIONS				
83	Providing and jointing PVC110mm PVC pipes of (pressure 4 kg/cm2) for drainage line including testing of joints etc complete. (Rain water Down pipe) 110mm diameter (OD)	2.00	Rm		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
84	Providing and jointing PVC110mm PVC TEE of (pressure 4 kg/cm ²) for drainage line including testing of joints etc complete. (Rain water Down pipe)	2.00	Each		
	DRAINAGE WORKS				
85	Making soak pit 2.5 m diameter 3.0 metre deep with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design. With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	1.00	Each		
86	Supplying and fixing C.I. cover with frame for manholes :500 mm diameter C.I. cover (medium duty) the weight of the cover to be not less than 58 kg	2.00	Each		
	<u>SUMP</u>				
87	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed:All kinds of soil	87	Cum		
88	Extra for every additional lift of 1.5 m or part thereof in excavation /banking excavated or stacked materials.All kinds of soil	81	Cum		
89	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations yard levelling etc., in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering etc complete, and form uniform level .	27	Cum		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
90	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : :1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	5	Cum		
91	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, using cement content as per approved design mix, manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of R.M.C. from transit mixer to site of laying , excluding the cost of centering, shuttering finishing and reinforcement including cost of 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 the Engineer - in - charge.				
	(Note :- Cement content considered in this item is @ 330 kg/cum. Excess/less cement used as per design mix is payable/recoverable separately).				
	a) All work up to plinth level. (M25)	33	Cum		
92	Add for using extra cement in the items of design mix over and above the specified cement content therein M25 concrete .	14	Qntl		
93	Centering and shuttering including strutting, propping etc., and removal of form for,				

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
a)	Foundations, Footings, bases of columns,etc for mass concrete.	9	Sqm		
b)	Walls any thickness including attached pilasters butteresses,Plinth and string courses etc.	169	Sqm		
c)	Suspended floors, roofs, landings, Balconies and access platform	37	Sqm		
94	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto Plinth level.Termo – Mechanically Treated Bars	3300	kg		
95	12 mm cement plaster 1:3 (1 cement: 3 fine sand) finished with a floating coat of neat cement of mix :including providing and mixing water proofing material in cement plaster work in proportion recommended by the manufacturers.	169	Sqm		
96	Supplying and fixing 560 mm dia C.I. cover with frame (Heavy duty) for sump the total weight of cover and frame to be not less than 208 kg (weight of cover 108 kg and weight of frame 100 kg) :	3.00	Each		
<u>PLUMBING WORKS</u>					

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
97	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I.brackets, 40mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic	8	Each		
98	Providing and fixing wash basin (counter type) with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require : White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	12	Each		
99	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required : sink without drain board 610x510 mm bowl depth 200 mm.	2	Each		
100	Stainless Steel Scrub Sink: Providing, Fixing, supply, Installation and commissioning of 3-Bay (2100mm long) brush finish Scrub station(Automatic Sensor) made out of high grade SS 304 1.6mm thk. complete with all accessories i.e. thermostatic mixing valve & bypass system etc.	2	Each		
101	Providing and fixing C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms.	8	Each		
102	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. 15 mm nominal bore	32	Each		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
103	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931: 15 mm nominal bore. Make:Hindware,Cera,Jaquar etc..	8	Each		
104	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore: 15mm nominal bore Make:Hindware,Cera,Jaquar etc..	30	Each		
105	Providing and fixing CP Waste coupling for wash basin and sink of approved quality, colour and make. Waste coupling 31mm of 79mm length and 62mm breadth, weighing not less than 45 gms. Make:Hindware,Jaquar etc..,	20	Each		
106	Providing and fixing PVC Waste pipe for sink or wash basin including PVC waste fittings complete.:Semi rigid pipe 32mm dia	20	Each		
107	Providing and fixing PTMT Bottle Trap for Wash basin and sink.Bottle trap 38mm single piece moulded with height of 270mm, effective length of tail pipe 260mm from the centre of the waste coupling 77mm breadth with 25mm minimum water seal, weighing not less than 263gms.	20	Each		
108	Providing and fixing SS soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements. Weighing not less than 106 gms.	10	Each		
109	Providing and fixing Toilet paper holder . Make:Hindware,Cera,Jaquar etc...:C.P Brass	8	Each		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
110	Providing and fixing 600 x 450mm bevelled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	8	Each		
111	Providing and fixing SS towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 100gms	10	Each		
112	Providing & fixing of CP Health faucet. Hand operated spray unit (instand type) . Make: Hindware, Cera, Jaquar etc., (Lowest retail price not less than 1200/each. Materials to be selected by the Engineer in charge)	8	Set		
113	Providing and fixing PTMT swivelling shower, 15mm nominal bore. Weighing not less than 40gms.	8	Each		
114	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for Hot and Cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in charge. Make: Supreme, Finolex, Prince etc.,				
	Internal Work - Exposed on wall				
a)	20mm nominal outer dia. Pipes	40.00	Rm		
b)	25mm nominal outer dia. Pipes	120.00	Rm		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
c)	32mm nominal outer dia.Pipes	100.00	Rm		
115	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for Hot and Cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamps at 1.00m spacing. This includes jointing of pipes and 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 caharge. Make:Supreme,Finolex,Prince etc.,				
	Concealed work including cutting chases and making good the wall etc.				
a)	15mm nominal outer dia.Pipes	30.00	Rm		
b)	20mm nominal outer dia.Pipes	150.00	Rm		
c)	25mm nominal outer dia.Pipes	150.00	Rm		
d)	32mm nominal outer dia.Pipes	30.00	Rm		
116	Providing and fixing Ball Valve (brass) of approved quality, High or low pressure, with plastic floats complete. Make:Lehry,Supreme,Finolex,Prince etc.,20mm dia nominal bore	10	Each		
117	Providing and fixing Gun metal gate valve with C.I. wheel of approved quality (screwed end). Make: Lehry,Supreme,Finolex,Prince etc.,				

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
a)	25 mm dia nominal bore	10	Each		
b)	32 mm dia nominal bore	6	Each		
118	Cutting holes upto 15 x 15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including finishing complete.	30	Each		
119	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	80	Rm		
120	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.				
a)	110 mm Coupler	20	Each		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
b)	110x110x110 mm Single tee with door	8	Each		
c)	110 mm bend	16	Each		
d)	110 mm Shoe	8	Each		
121	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	80	Each		
122	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams.	8	Each		
123	Providing and fixing PVC soil, waste and vent pipe to IS : 13592 of SWR quality, including all fittings, like EG : Bends, Tees, Elbows, Collars, junction, inspection doors, cowls, offsets, access pipes, jointing with rubber ring / solvent cement by application of leak proof adhesive like FRP paste including cutting holes in walls and floors and making good. Make:Supreme,Finolex,Prince etc.,				

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
a)	50mm dia (6kg / sq.cm)	30.00	Rm		
b)	63mm dia (6kg / sq.cm)	60.00	Rm		
c)	75mm dia (6kg / sq.cm)	80.00	Rm		
d)	110mm dia (6 kg / sq.cm)	90.00	Rm		
e)	160mm dia (6 kg / sq.cm)	60.00	Rm		
124	Providing and fixing PVC floor trap self cleansing design with or without vent arm complete including cutting and making good the walls and floors. Make:Supreme,Finolex,Prince etc...,110mm dia inlet 110mm dia outlet	12	Each		
125	Providing and fixing PTMT grating of approved quality and colour.Circular type.100 mm nominal dia.	12	Each		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
126	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40mm 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 aggregate 20mm nominal size) finished with a floating coat of neat cement complete as per standard design :				
a)	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	8	Each		
b)	Inside size 120x90 cm and 90 cm deep including C.I. cover with frame (medium duty) 500 mm internal diameter, total weight of cover and frame to be not less than 116 kg (weight of cover 58 kg and weight of frame 58 kg) : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2	Each		
c)	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) :With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	2	Each		
127	Extra for depth for manholes				

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
a)	Size 90x80 cm: With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	5	Rm		
b)	Size 120x90 cm: with common burnt clay F.P.S. (non modular) bricks of class designation 7.5	5	Rm		
128	Providing and fixing square – mouth PVC. Gully trap grade “A” complete with CI grating brick masonry chamber with water tight tight CI cover with frame of 300 x 300mm 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:150 x 100mm size P type with common burnt clay F.P.S. (non modular) bricks of class designation 7.5	5	Each		
129	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :Pipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	60.00	Rm		
130	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 : 150 mm dia. R.C.C. Pipe	60.00	Rm		

Item No	Details of Items	Quantity	Unit	Rate (In figures & words)	Amount in Rs.
131	Providing and placing on terrace (at all floor levels) polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	10000.00	Ltrs		
	TOTAL - PART I CIVIL WORKS				