

**SUMMARY OF COST - CIVIL WORKS &  
PLUMBING (Annexure-F)**

<b>Sr.No</b>	<b>DESCRIPTION</b>	<b>AMOUNT</b>
1.0	EARTH WORK	
2.0	CONCRETE WORK	
3.0	RCC WORK	
4.0	MASONRY WORK	
5.0	STONE WORK	
6.0	STEEL WORKS	
7.0	FLOORING WORKS	
8.0	FINISHING WORKS	
9.0	WATER PROOFING WORK	
10.0	PLUMBING	
	<b>TOTAL</b>	

Sr.No	DESCRIPTION OF ITEMS	UNIT	QTY.	RATE	AMOUNT
<b>EARTH WORK</b>					
1.0	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth within all lead and lifts, disposed earth to be levelled and neatly dressed. etc. complete as per design and drawing.				
1.1	Ordinary rock	Cum	25		
1.2	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 sqm on plan), including upto all depths, including getting out the excavated soil and disposal of dressing of sides and ramming of bottoms, lift surplus excavated soils as directed, within all lead and lifts etc. complete as per design and drawing.				
1.2.1	Ordinary Rock	Cum	25		
1.3	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.	Cum	25		
<b>TOTAL OF EARTH WORKS</b>					
<b>CONCRETE WORK</b>					
2.00	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level:				
2.1	1:4:8 (1 Cement: 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	Cum	5		
<b>TOTAL OF CONCRETE WORKS</b>					
<b>Form Work</b>					
3.0	Approved Marine plywood or 3mm thick steel plate shuttering and centring for structural concrete work in locations called for including strutting, propping, bracing, bolting, wedging, casing, striking, removal etc. complete for any size, section, thickness. Props shall consist of well designed steel pipes adequately braced (wooden ballies as props shall not be permitted). The item to include centering and shuttering at all heights and levels.				
	Allow for forming grooves, drip course, chamfers, cut-outs, openings, providing arrangement for sleeves & puddle flanges etc. where called for and for dressing with approved shuttering oil to prevent adhesion. Unexposed concrete surfaces subsequently left untreated (in the condition obtained on removal of form work) shall not constitute exposed concrete work and shall be measured under this item only. Irregular shapes with sides which may not be perpendicular to each other for shapes not conforming to rectangle or square shall not be paid separately. <b>(Quoted rate to include all staging upto any height, additional height for shuttering shall be included in the quoted</b>				
3.1	Foundations, footings, bases of columns, etc. for mass concrete.	Sqm	10		
3.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	10		
3.3	Suspended floors, roofs, landings, balconies and access platform.	Sqm	50		
3.4	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	Sqm	20		
3.5	Columns, Pillars, Piers, Abutments, Posts and Struts.	Sqm	10		
3.6	Arches, domes, vaults up to 6 m span	Sqm	2		
<b>REINFORCED CEMENT CONCRETE</b>					
3.7	Steel Reinforcement for R.C.C. work, including straightening, cutting, bending, placing in position and binding all complete up to plinth and above plinth level.	KG			
3.7.1	Thermo-mechanically treated bars		5000		

3.8	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and 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-				
	<b>(Note :- Minimum cement content considered in this item is @ 330 kg/cum.).</b>				
3.8.1	All works up to plinth level.	Cum	15		
3.8.2	All works up to floor V level.	Cum	20		
<b>TOTAL OF REINFORCED CEMENT CONCRETE WORKS</b>					
<b>MASONRY WORK</b>					
4.0	Brick work with common burnt clay FPS (Non modular) bricks of class designation 75				
4.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	10		
4.3	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in				
4.3.1	cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	20		
<b>TOTAL OF MASONRY WORKS</b>					
<b>STONE WORKS</b>					
5.1	Random rubble masonry with hard stone in foundation and plinth including weep holes, levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size)				
5.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	100		
<b>Total</b>					
<b>STEEL WORKS</b>					
7.1	Structural steel work riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete	kg	1000		
<b>TOTAL OF STEEL WORKS</b>					
<b>FLOORING WORKS</b>					
8.4	Providing and laying tile flooring of approved make, shade and pattern as approved by Architect laid over 20mm average thick bed of cement mortar 1:4 (1 cement : 4 coarse sand), grouting the joints with white cement and pigment to match the shade of tile including cutting, etc. complete in all respects as per pattern and drawing.				
8.4.1	With Vitrified tile	Sqm	10		
8.4.2	With Antiskid Ceramic tile	Sqm	10		
8.7	Providing and laying 40mm thick <b>Cement Concrete flooring</b> with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 12.5mm nominal size) including and finished with a floating coat of neat cement including cement slurry etc. complete in true lines and level as per specification.	Sqm	10		
<b>TOTAL OF FLOORING WORKS</b>					

<b>FINISHING WORK</b>					
10	Providing and applying 12 to 15mm thick plaster to masonry and RCC walls, columns etc. in cement mortar 1:4 (1 cement : 4 fine and coarse sand in equal	sqm	100		
10.2	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) finished rough with sponge	sqm	20		
10.3	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade				
10.3.1	New work (two or more coats) over and including priming coat with cement primer.	sqm	50		
10.4	Finishing walls with Acrylic Smooth exterior paint of required shade				
10.4.1	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	sqm	50		
10.5	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.	sqm	100		
10.6	Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour.				
<b>10.6.1</b>	<b>Two Coats</b>	<b>sqm</b>	<b>50</b>		
10.9	Drilling with core cutting machine in Post RCC beams, slabs, floors etc. if not mentioned in the drawing but required by Developer for laying pipes and rendering the same in RCC 1:2:4, finishing the same to the satisfaction of the Developer, including nominal reinforcement wherever required, complete. The quoted rate shall also include for providing EPOXY based water proofing compound for sealing the joints around the pipes. (Maximum thickness of RCC members shall be 300mm).				
	RCC Slabs				
I	150mm dia	Nos.	1.00		
II	200mm dia	Nos.	1.00		
	RCC Walls				
<b>TOTAL OF FINISHING WORKS</b>					

<b>12.1</b>	<b>Tapcrete water proofing</b>				
	Providing, applying & testing water proofing treatment of RCC sunken slabs (toilets etc) comprising of the following operations.				
	Cleaning RCC surfaces and plastering of RCC and brick wall surface with 12mm cement mortar 1:4 ( 1 cement : 4 coarse sand) mixed with CICO admixture as per manufacturer's specifications.				
	Three coats of tapcrete - (first layer of tapcrete to be @ 0.253kg/ sqm, the second & third layer to be @ 0.126kg/ sqm) each admixed with grey cement over a coat of neat cement slurry admixed with chemical CH - 9 and sealing all corners, joints, junction of pipes and masonry etc. with Epoxy putty all complete as per manufacturer's specification and drawing.				
	12mm thick protective plaster 1:4 (1 cement : 4 coarse sand) over treated surface etc. complete. (Quoted rate to include grouting of RCC surface for any cracks/ fissures)	sqm	20		
	<b>TOTAL OF WATER PROOFING WORKS</b>				

SUBJECT

**SANITARY ENGINEERING SERVICES**

S.N.	Description	Unit	Qty.	RATE	Amount
<b>(I)</b>	<b>SANITARY FIXTURES</b>				
1	Providing & fixing white vitreous china wall hung type European type water closet with C.P. bolts, nuts, C.I. chair or other hanging arrangement, with white solid plastic seat and cover with lid, C.P. brass hinge rubber buffers, with accessories, C.I./M.S. brackets painted with two coats of enamel paint of approved shade over a coat of primer. C.P. brass screws, wooden cleats including cutting and making	Each	1		
2	Providing and Fixing White vitreous china Rectangular wash basin size 450x300mm with C.I. brackets painted white, 32mm dia. C.P. waste, C.P chain and rubber plug and C.P wall flange and rubber adapter for waste connection complete including cutting and making good the walls wherever required				
	Rectangular wash basin Under counter / Counter top	Each	1		
3	Providing and fixing CP Brass Bottle Trap of approved quality & make and as per the direction of Engineering-charge	Each	1		
6	Providing and Fixing of 15mm C.P brass bib tap with C.P brass threaded flange complete, including cutting and making good the walls wherever required				
	Short body.	Each	1		
	Long body	Each	1		
7	Providing and fixing C.P. brass angle valve of approved quality conforming to IS:8931 15mm nominal bore	Each	3		
				#REF!	#REF!

				#REF!	#REF!
				#REF!	
<b>(II)</b>	<b>SOIL, WASTE AND VENT PIPES &amp; FITTINGS</b>			#REF!	
				#REF!	#REF!
1	Providing and fixing uPVC SWR (Type - 'B') for soil, waste and vent pipes conforming to IS 13592-1992 including all SWR moulded fittings conforming to IS: 14735 i.e bends, tees, junctions, cowls, offsets, crosses with or without access doors etc, and Ring fit jointing with approved solvent cement including angle supports with clamps, G.I bat holder and clamps including cutting holes in walls and floors wherever required and making good the same as directed by the Engineer-in-Charge.			#REF!	#REF!
a)	75mm dia	Metre	10		
b)	100mm dia	Metre	10		
2	CPVC PIPE WITH ALL FITTING				
1	20 MM	Meter	50		
	<b>Total C/O to Summary</b>				#REF!















