

BILL OF QUANTITIES

S.NO.	DESCRIPTION	UNIT	QTY.	RATE (Rs.)	AMOUNT (Rs.)
1	EARTH WORK				
1.1	Earth work in excavation below existing ground level by mechanical means or manual in footing, foundation ,trenches or drains and front & rear lawn area (for any width and plan areas) including shoring, strutting, dressing of sides and ramming of bottoms and keeping the excavated surface dry for subsequent works including getting out and disposal of the excavated soil for all leads and lifts as directed by project - incharge and as per drawings including the cost of royalty.				
1.1.1	All kind of soil.	Cum	8176	158.72	1,297,695
1.2	Backfilling with available excavated earth as directed in trenches,sides of foundations etc. and in plot area to achieve the desired level as per drawings in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering to achieve atleast 95% of the maximum dry density (Modified Proctor density) complete within the site for all leads and lifts..consolidated / compacted volume of earth shall be measured for payment including the cost of royalty.	Cum	2918	309.98	904,522
1.3	Providing and filling 400 mm thick Rubble (boulder) soiling under Raft/ foundation in two layers of 200 mm thick and binding material moorum etc. including screening, sorting, spreading, ramming, watering and consolidating with mechanical means or manual etc. laid as per drawing complete as direction of engineer - in - charge. (Consolidated thickness shall be measured and paid for) Cum	Cum	433	5295.75	2,293,060
1.4	Providing and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete. (Consolidated thickness shall be measured and paid for)	Cum	105	3506.88	368,222
	Total carried over to summary (Rs.)				4,863,499
2	PLAIN / REINFORCED CEMENT CONCRETE WORK				
2.1	Providing and laying of ready mix concrete of specified grade (as per approved design mix) for R.C.C/C.C Work supplied and pumped in position (for all works) including compacting, curing etc. complete for all heights/ depths . Necessary supports, scaffolding etc. for supporting the concrete pipeline and a water tight platform to receive RCC/ CC shall be provided by the Contractor at his own cost and no extra is payable towards the same.				
2.1.1	M-7.5 Grade Concrete under foundation and under floor	Cum	94	10000	940,000
2.1.2	M-25 Grade Concrete in raft	Cum	648	15500	10,044,000
2.1.3	M-25 Grade Concrete in Grade & stitching slab	Cum	121	15500	1,875,500
2.1.4	M-30 Grade Concrete in Pedestal	Cum	RO	22500	
2.1.5	M-30 Grade Concrete in Columns	Cum	RO	22500	
2.1.6	M-25 Grade Concrete in Columns	Cum	RO	17500	
2.1.7	M-25 Grade Concrete in Slab,Beam. Staircase, lintel, counter, mumty and machine room.	Cum	1016	15500	15,748,000
2.2	Providing and laying of ready mix concrete of specified grade (as per approved design mix) for R.C.C/C.C Work supplied at ground (for all works) including compacting, curing etc. complete for all heights/ depths . Necessary supports, scaffolding etc. and a water tight platform to receive RCC/ CC shall be provided by the Contractor at his own cost and no extra is payable towards the same.				
2.2.1	M-7.5 Grade Concrete under foundation and under floor	Cum	141	8000	1,128,000
2.2.2	M-25 Grade Concrete in raft	Cum	RO	15500	
2.2.3	M-25 Grade Concrete in Grade & stitching slab	Cum	RO	15500	
2.2.4	M-30 Grade Concrete in Pedestal	Cum	27	22500	607,500
2.2.5	M-30 Grade Concrete in Columns & wall any thickness	Cum	347	22500	7,807,500
2.2.6	M-25 Grade Concrete in Columns	Cum	131	17500	2,292,500
2.2.7	M-25 Grade Concrete in Slab,Beam. Staircase, lintel, counter, mumty and machine room.	Cum	RO	15500	

2.3	Extra over Item nos 2.1 & 2.2 above for laying R.M.C for under ground water storage tank/over head water tank for water tight structure and providing & mixing of water proofing compound.	Cum	31	3000	93,000
2.4	Providing & laying in position plain cement concrete of specified mix in raft, bases of column footing, Brick walls footing, base of floor, as screed over areas to make up levels or to form slopes, laid to required levels at all locations, consolidated finished fair and cured including side forms as required complete at all level and heights..				
2.4.1	Concrete mix 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size)	Cum	5	13483.69	67,418
2.4.2	Concrete mix 1:4:8(1cement :4 coarse sand :8 graded stone aggregate 20mm nominal size)	Cum	5	12298.67	61,493
2.5	Providing and laying reinforced cement concrete work M-20 grade conforming to IS: 456-2000 with coarse sand and graded approved stone aggregate 20mm nominal size excluding cost of centering, shuttering and reinforcement but including the cost of compaction / vibration, curing for all height and level for all location..				
2.5.1	Window cills, Loft slab & cub board slab and the like location as parapets coping etc.	Cum	2	15000	30,000
2.6	Providing erecting fabricated steel / wooden ply shuttering of good quality including centering , strutting, propping and bracing, bolting, welding and keeping the same to the lines and levels indicated on the drawings and removing the same as per specifications, drawings including provisions for grooves , drip, throats, chamfers, inserts, sleeves, conduits, junction box, recesses, projecting dowels etc. at all levels and all heights. Note: Nothing extra shall be paid for circular, curvilinear & any other irregular shape, floor to floor height upto 3.5 M shuttering unless otherwise specified.				
2.6.1	Footings & raft foundation including foundation beams, plinth beam, stitching slab, pedestal etc.	Sqm	297	853.09	253,368
2.6.2	Wall and shear wall of any thickness	Sqm	1736	853.09	1,480,964
2.6.3	Columns, pillars, piers, abutments, posts and struts, columns Above pedestal of all shapes.	Sqm	2225	853.09	1,898,125
2.6.4	Suspended floors, roofs, landings, waist slab, balconies and access platform, shelves, chajjas & such other etc. (for all thickness & heights).	Sqm	4008	884.40	3,544,675
2.6.5	Lintels, beams, rib beams, curved beam, griders, bressumers and cantilevers & facia .	Sqm	3412	884.40	3,017,573
2.7	Extra for double height in centering, shuttering per floor wherever required with adequate bracing, propping etc. including cost of deshuttering & decentring at all level. (Plan area shall be measured)				0
2.7.1	Suspended floor, roofs, landing beam & balconies etc.	Sqm	1981	1326.60	2,627,995
	Notes on Shuttering				0
	The shuttering plates will be so laid that the joints in both the directions are in one line . Pattern for which will be got approved .				0
	It should be ensured that the joints between shuttering plates do not exceed 3mm and filled by forms to check slurry leakage.				0
	The plates should have fairly flat with undulations not exceeding + 3mm .				0
	The pattern of shuttering including the deployment of various sizes of plates shall be got approved in advance from owner.				0
	Nothing extra shall be paid for circular , semicircular shape , irregular shuttering , additional height in shuttering if not specified and it should be considered in the quoted rates, cut outs/opening.				0
2.8	Providing, laying and fixing in position MS / HYSD bar reinforcement for RCC insitu & precast work including cost of straightening , cutting , bending and binding with 18 gauge MS annealed binding wire , and PVC cover blocks etc. complete as per drawings, specifications and as directed by Project-in-charge for all heights and diameters.	M.T.	307	138021.85	42,372,708
Total carried over to summary (Rs.)					105,617,317

3 MASONRY WORK					
3.1	Providing and laying brick work using bricks of class designation 75 in foundations and upto plinth level in cement mortar 1:3:3 (1 cement :3 fine sand :3 coarse sand) including, joints finished flush/raked to 12 mm depth, cleaning and soaking the bricks at least for 24 hours before use , curing for 7 days etc. all complete at all heights / depths .	Cum	21	15908.31	334,075
					0
3.2	Providing and laying brick work using bricks of class designation 75 in super structure above plinth level in cement mortar 1:3:3 (1 cement :3 fine sand :3 coarse sand) including, curing, joints finished flush/raked to 12 mm depth, etc.complete as directed , cleaning and soaking the bricks at least for 24 hours before use , curing etc. for 7 days etc. all complete at all heights / depth .	Cum	1176	16305.12	19,174,821
					0
3.3	Providing & laying brick work using bricks of class designation 75 in half bricks walls in super structure above plinth level in cement mortar 1:4 (1 cement : 4 coarse sand) including joints finished flush/raked to 6 mm depth as work proceeds,curing etc.complete. including hoop iron reinforcement (2 Nos of 6mm) at every fourth course complete , cleaning and soaking the bricks at least for 24 hours before use , curing etc. for 7 days etc. all complete at all heights / depth .(Hoop reinforcement to be supplied by the contractor)	Sqm	1567	1115.15	1,747,440
3.4	Providing & laying brick work using bricks of class designation 75 in stair case steps in cement mortar 1:3 (1 cement :3 coarse sand) including joints finished flush/raked to 6 mm depth as work proceeds,curing etc.complete. including cleaning and soaking the bricks at least for 24 hours before use , curing etc. for 7 days etc. all complete at all heights / depth .	Cum	11	13483.69	148,321
Note:	1. Nothing extra shall be paid for rectangular , square , curved or chamfered block/brick work.				
	2. Class designation 75 will mean 1 st class bricks available in the market.				
Total carried over to summary (Rs.)					21,404,656
4 WALL FINISHES					
4.1	Providing & applying 12 to 15 mm thick cement plaster to walls, columns, piers etc. in cement mortar 1:3:3 (1 cement : 3 coarse sand : 3 fine sand) applied, finished smooth and cured including hacking, curing, making grooves / bands, scaffolding wherever required to all levels and heights complete.	Sqm	11473	550	6,310,150
4.2	Providing and applying 18 mm thick cement plaster in two coats under layer 12 mm thick cement plaster 1 : 5 (1 cement : 5 coarse sand) mix with approved waterproofing compound added in proportion as recommended by the manufacturer with a top layer of 6 mm thick cement plaster 1 : 6 (1 cement :2 fine sand:4 coarse sand) including racking, joints, hacking, curing scaffolding wherever required etc. complete i.e. making grooves, bands, drip coarse wherever required etc. all complete.	Sqm	2572	600	1,543,200
4.3	Providing & laying 6 mm thick cement plaster to ceiling in cement mortar 1 : 3 (1 cement : 3 fine sand) applied, finished smooth complete including curing, scaffolding hacking on Rcc etc.making groove as per drawing / details at any location etc. complete for all levels and heights. complete for all levels and heights.	Sqm	904	467.42	422,548
4.4	Providing and fixing 24 gauge x 19 mm size galvanized chicken wire mesh to junctions of concrete and masonry work and other locations where called for including cutting to required sizes side laps of minimum 75 mm and fixing in position with necessary clips and U shaped galvanised wire nail etc. complete.	Sqm	843	500	421,500
4.5	Providing and Laying 15 mm th waterproof cement plaster in cement mortar 1:4 (1 cement :4- coarse sand and adding accoproof or cico approved waterproofing compound as per manufacturers specification finished with smooth, with neat cement finish in line ,level and plumb in drain and sump including curing scaffolding ,hacking etc.complete at all levels as directed .	Sqm	778	396.63	308,578
4.6	Providing and applying two coats of acrylic based water proofing chemical SBR latex modified acrylic polymer/non shrink filler based highly flexible polymer compound like Dr.Fixit Superlatex / OR equivalent mixed as per manufacturer's specification mixed with neat cement slurry coating as per manufacturers specifications and providing protecting layer 12-15mm thick neat finished cement plaster 1:3 (1 cement : 3 coarse sand) added with acrylic based water proofing chemical like pidiproof LW or equivalent as per manufacturers specification and direction etc complete as per drawing and instructions of Project In Charge / Architect.	Sqm	438	375	164,250
Total carried over to summary (Rs.)					9,170,226
5 ROOFING / WATERPROOFING WORK					

5.1	Providing and laying water proofing treatment by chemical injection grout process in RCC floor / wall or other areas using 25 mm dia G.I. nozzles of minimum 25mm deep in floor / walls placed and fixed @1.2m distance in both direction in the floor / walls and @ 0.5m c/c along construction joints, consisting of injecting cement slurries of different viscosities under pressure of 2.5 to 3.0 kg./Sqcm by pump using acrylic based water proofing chemical Non-Shrink grout like Dr. Fixit Pidicrete AM/OR equivalent with a dosage of 225 gm.per bag of cement OR as specified in the manufacturer's specification mixed with neat cement slurry and sealing off nozzles after the injection operation with Dr. Fixit Pidicrete URP/OR equivalent in the required ratio to be admixed with cement as per manufacturer's specification			350	
5.1.1	Horizontal and vertical Surface	Sqm	352	750	264,000
5.2	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, etc. consisting of following operations.				
i)	Applying and grouting a slurry coat of neat cement using 2.75 Kg/ Sqm of cement admixed with proprietary water proofing compound conforming to IS. 2645 over the RCC slab including cleaning the surface before treatment .				
ii)	Laying cement concrete using broken bricks/ brick bats 25 mm to 100 mm size with 50 % of cement mortar 1:5 (1 cement : 5coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 over 20 mm thick layer of cement mortar of mix 1:5 (1 cement : 5 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 to required slope and treating similarly the adjoining walls up to 300 mm height including rounding of junctions of walls and slabs.				
iii)	After two days of proper curing applying a second coat of cement slurry admixed with proprietary water proofing compound conforming to IS : 2645 .				
iv)	Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1cement : 4 coarse sand) admixed with proprietary water proofing compound conforming to IS : 2645 and finally finishing the surface with trowel with neat cement slurry and making of 300 x300 mm square.				
v)	The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test . All above operations to be done in order and as directed and specified by the Engineer-in-charge . With average thickness of 120 mm and minimum thickness at khurra as 65 mm(PLAN AREA TO BE MEASURED FOR PAYMENT)	Sqm	576	2500	1,440,000
5.3	Making khurras 45 x 45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate of 20 mm nominal size) over P.V.C. sheet (1 m x 1 m x 400 micron) finished with 12 mm thick cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement rounding the edges and making and finishing rain water outlet with neat cement slurry complete.	Each	4	2500	10,000
5.4	Providing & fixing grating cum leaf trap fabricated out of stainless steel body with grating of approved make & size and profile called for including threading for G.I./ MS pipe, installed at RW pipe inlet.				
5.4.1	To suit 100 mm dia G.I./PVC / MS pipe	Each	4	5000	20,000
5.5	Providing convex gola 75 x 75 mm in cement concrete 1 :2 :4 (1 cement :2 coarse sand : 4 graded stone aggregate 10 mm and down gauge) including finishing with cement mortar 1:3 (1 cement:3 fine sand) mixed with admixture of approved polymer water proofing compound @ 2% of cement by weight as per standard design	Meter	132	2000	264,000
Total carried over to summary (Rs.)					1,998,000
6 STEEL WORK					
6.1	Providing, fabricating and installing and MS work in single or builtup sections for Drain cover, inserts plate, Cover of Sump and gratings, Grill etc. using MS flats, angles, tees, joist, channel, plates etc. fabricated to required sizes and shapes and installed in position including all incidental operations like cutting, welding, grinding, drilling & bending etc. all complete and also including a coat of approved steel primer and two coats of approved make and shade synthetic enamel paint and other operations complete.	Kg.	463	175	81,025
Total carried over to summary (Rs.)					81,025
7 MISCELLANEOUS WORKS					
7.1	Dismantling / demolition of brick work including stacking of serviceable material and disposal of unserviceable material from site.	Cum	5	7500	37,500

7.2	Dismantling / demolition of RCC work & cutting of all reinforcement bars including stacking of serviceable material and disposal of unserviceable material from site.	Cum	5	10000	50,000
7.3	Dismantling / demolition of PCC work of any mix including disposal of unserviceable material from site.	Cum	5	7500	37,500
7.4	Making plinth protection 50 mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75 mm bed by dry brick ballast 40 mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth and brick edging 7 cm wide 11.4 cm deep to plinth protection with 75 class designation bricks including grouting with cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	50	3500	175,000
7.5	Providing and fixing 600mm long MS hot dipped galvanised puddle flange fabricated out of 6mm thick MS plate 150mm wide welded around the pipes to suitable size properly fixed in wall and top of slab of tank. complete as per drawing.				
7.5.1	25mm dia	Each	8	5000	40,000
7.5.2	40mm dia	Each	8	7500	60,000
7.5.3	50 mm dia	Each	12	10000	120,000
7.5.4	65mm dia	Each	8	15000	120,000
7.5.5	80 mm dia	Each	12	20000	240,000
7.5.6	100 mm dia	Each	15	25000	375,000
7.5.7	150mm dia	Each	6	30000	180,000
7.6	Providing and fixing Orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS: 10910 on 12 mm dia. steel bar conforming to IS: 1786 having minimum cross section as 23mm x 25mm and over all minimum length 263 mm and width as 165 mm with minimum 112 mm space between protruded leg shaving 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per specification including fixing complete. Mark to be visible even after fixing.	Each	60	100	6,000
7.7	Providing and placing in position suitable and approved PVC water stopper for construction / expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc.complete.				
7.7.1	Dumb bell with central bulb (230 mm wide , 8 mm thick)	Meter	105	1000	105,000
	Total carried over to summary (Rs.)				1,546,000