

BILL OF QUANTITY						
Name Of Work:						
Engineer Name:						
Tender Amount						
S.NO.	CODE NO.	DESCRIPTION OF WORK	QUANTITY	UNITS	RATE	AMOUNT(IN RS)
1	Earthwork					
	2.8	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, 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.				
	2.8.1	All kinds of soil.	191.16	Cum	286.85	54834.25
	2.28	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m				
	2.28.1	All kinds of soil	287.10	Sqm	28.15	8081.865
	2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	12.74	Cum	2161.20	27542.33

	2.25	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.	242.91	Cum	253.95	61686.46
2	Cement Concrete Work					
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.4	1:2:4 (1 Cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 40 mm nominal size derived from natural sources)	12.56	Cum	7226.95	90763.27
	4.1.6	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 40 mm nominal size derived from natural sources)	12.74	Cum	6670.25	85005.67
	4.11	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20mm nominal size derived from natural sources).	56.74	Sqm	452.25	25658.40

	4.13	Providing & applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil	30.38	Sqm	113.85	3458.19
3	Reinforced Cement Concrete					
	5.33	Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland / Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete.				
	5.33.1	All works upto plinth level				
	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	35.54	Cum	7997.3	284252.77
	5.33.2	All works above plinth level upto floor V level				
	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	85.24	Cum	10080.15	859193.55

	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more	3909.80	Kg	89.65	350513.13
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level				
	5.22A.6	Thermo-Mechanically Treated bars of grade Fe-500D or more	9375.98	Kg	89.65	840556.66
4	Formwork					
	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	38.40	Sqm	307.95	11825.28
	5.9.3	Suspended floors, roofs, landings, balconies and access platform	274.11	Sqm	766.55	210119.02
	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	405.77	Sqm	608.35	246850.18
	5.9.6	Lintels, beams, plinth beams, girders, bressumers and cantilevers	273.52	Sqm	804.25	219978.46
	5.9.7	Stairs, (excluding landings) except spiral-staircases	29.14	Sqm	657.75	19166.51
5	Brickwork					
	6.2	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in				
	6.2.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	19.11	Cum	5746.8	109842.90

	6.2.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	54.33	Cum	5746.8	312197.78
	6.5	Extra for brick work / AAC block masonry / Tile brick masonry in superstructure above floor V level, for each four floors or part thereof by mechanical means	54.33	Cum	142	7714.86
	6.13	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.				
	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	136.52	Sqm	1018.05	138984.19
6	Finishing work - Plaster work					
	13.1	12 mm cement plaster of mix				
	13.1.1	1:4 (1 cement: 4 fine sand)	553.75	Sqm	294.85	163274.29
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
	13.2.1	1:4 (1 cement: 4 fine sand)	781.06	Sqm	339.7	265324.38
	13.16	6 mm cement plaster of mix :				
	13.16.1	1:3 (1 cement : 3 fine sand)	341.61	sqm	253.05	86443.40
7	Finishing work - Painting work					
	13.37	White washing with lime to give an even shade :				
	13.37.1	New work (three or more coats)	1676.41	Sqm	32.45	54399.66
	13.26	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete	1181.75	Sqm	214.3	253250.04

	13.41	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade				
	13.41.1	New work (two or more coats) over and including water thinnable priming coat with cement primer	1181.75	Sqm	162.55	192094.23
	13.46	Finishing walls with Acrylic Smooth exterior paint of required shade				
	13.46.1	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)	494.66	Sqm	166.85	82534.021
8	Flooring Work					
	11.26	Kota stone slab flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) :				
	11.26.1	25 mm thick	38.98	Sqm	1706.6	66523.27
	11.27	Kota stone slabs 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement: 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete	2.94	Sqm	2038.55	5993.34

	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete				
	11.41.2	Size of Tile 600x600 mm	213.3	Sqm	1416.65	302171.45
	11.46	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), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.				
	11.46.2	Size of Tile 600x600 mm	25.75	Sqm	1466.5	37762.38

	11.56	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge				
	11.56.1	Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent	41.96	Sqm	3908.80	164023.02
	11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete	23.04	Sqm	935.6	21556.22

	11.45	Crazy ceramic tile flooring, with under layer 12 mm thick cement mortar 1:4 (1 cement: 4 coarse sand), with joints not exceeding 5 mm, including filling the gaps with ordinary cement mixture & mixing with synthetic polyester fibre, triangular in shape having specific gravity of 1.34 to 1.40, cross section size ranging from 10 to 40 micron & length upto 6 mm , mixing fibre @ 125 grams per 50 kg of cement in cement mortar, including providing and mixing water proofing material in mortar @ 1 kg per 50 kg of cement, all complete as per direction of Engineer-in-charge	191.52	Sqm	815.45	156174.98
9	Wood & PVC Work					
	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
	9.1.2	Sal wood	1.26	Cum	106720.85	134468.27
	9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:Butt hinges and necessary screws shall be paid separately)				
	9.5.1	9.5.1 Second class teak wood				
	9.5.1.1	35 mm thick shutters	18.83	Sqm	3704.45	69764.05

	9.121	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness. The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady the frame.	39.60	Metre	702.6	27822.96
	9.6	Providing and fixing 35 mm thick factory made laminated veneer lumber door shutter conforming to IS : 14616 and TADS 15:2001 (Part B), fixing with butt hinges of required size with necessary screws, all complete as per directions of Engineer-in-charge and panelling with panels of				
	9.6.3	12 mm thick one side Pre-laminated particle board (decorative lamination on one side and other sides balancing lamination) grade -1, medium density flat pressed, three layer particle board FPT - I or graded wood particle board FPT-1 conforming to IS : 3087 bonded with BWP type synthetic resin adhesive as per IS : 848 and pre-laminated conforming to IS : 12823, Grade -1, Type II marked :	24.30	Sqm	3070.05	74602.22
	9.122	Providing and fixing to existing door frames.				

	9.122.1	30 mm thick Glass Fibre Reinforced Plastic (FRP) panelled door shutter of required colour and approved brand and manufacture, made with fire - retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places for fixing of fittings, cast monolithically with 5 mm thick FRP laminate for panels conforming to IS: 14856, including fixing to frames	10.19	Sqm	3496.75	35623.14
	9.62	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :				
	9.62.1	300x16 mm	36.00	Each	180.55	6499.80
	9.63	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :				
	9.63.1	250x10 mm	58.00	Each	74.65	4329.70
	9.66	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :				
	9.66.1	125 mm	68.00	Each	35.2	2393.60
	9.82	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete	26.00	Each	109.6	2849.60
	9.55	Providing and fixing ISI marked M.S. pressed butt hinges bright finished with necessary screws etc. complete :				
	9.55.2	100x58x1.90 mm	102.00	Each	39.05	3983.10

	9.114	Providing and fixing magnetic catcher of approved quality in cupboard / ward robe shutters, including fixing with necessary screws etc. complete				
	9.114.2	Double strip (horizontal type)	34.00	Each	34.15	1161.10
10	Aluminum Window					
	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	131.47	Kg	433.95	57052.27

	21.1.2	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 EPDM rubber / neoprene gasket required (Fittings shall be paid for separately)				
	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15	183.16	Kg	531.8	97406.83
	10.30	Providing & fixing glass panes with putty and glazing clips in steel doors, windows, clerestory windows, all complete with				
	10.30.1	4.0 mm thick glass panes	43.20	Sqm	940.3	40620.96
	10.29	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete				
	10.29.1	Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides	21.60	Sqm	732.2	15815.52
	10.31	Providing and fixing angle iron frames for doors, windows and ventilators of mild steel Angle sections of size 35x35x5 mm, joints mitred and welded by angle iron 35x35x5 mm or 35x 5 mm flat pieces to the existing T-iron frame or to the wall with dash fastener, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer-In-charge.	690.17	Kg	103.7	71570.8364

	10.28	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 bolts 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 arrangement as per approval of Engineer-incharge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	235.48	Kg	612.25	144173.0157
			Total cost of the Project (A)			6609887.38
			Add 10 % for Plumbing (B)			660988.74
			Add 10 % for Electrification (C)			660988.74
			Total cost of the Project (D = A+B+C)			7931864.85
			Add 3% contingency charge (E)			237955.95
		Grand Total cost of the Project (F= D +E)				8169820.80