Detailed abstract of Estimated Cost (B.O.Q) for construction of proposed Residential Building at Plot No. 26, Block
-B ,Suprabha Flats, 2nd Floor, Thirukumarapuram 1st Street, Aumbakkam, Chennai 600106.

	Owner :- Dr. RADHAKRISHNAN  Bill of Overtity					
S.No.	Bill of Quantity  Description of Items	Unit	Quantity	Rate	Amount	
1	Earth work in excavation by mechanical means (hydraulic excavator)/manual means over areas (exceeding 30cmin depth, 1.5m in width as well as 10sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be leveled and neatly dressed.	cum	172.58	150	25,887.00	
2	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	172.58	35	6,040.30	
3	Supply & laying and compacting of 150mm thick over burnt brick aggregate 90mm to 45mm including spreading in uniform thickness, applying and brooming requisite type screening / binding material to up interstices coarse aggregate watering and compacting to required density.	cum	21.19	1400	29,664.77	
4	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.	sqm	128.41	240	30,817.58	
	Sub-Total				92409.65	
5	Providing and laying in position cement concrete 1:4:8 of specified grade including the cost of centring and shuttering.	cum	14.46	3460.00	50,035.92	
6	Centring and shuttering including strutting, propping etc. and removal of form for :					
6.1	Foundations, footings, bases of columns, etc. for mass concrete.	sqm	40.26	170	6,844.20	
6.2	Suspended floors, roofs, landings, balconies and access platform.	sqm	171.99	265	45,577.35	
6.3	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	229.96	250	57,490.00	
6.4	Columns, Pillars, Piers, Abutments, Posts and Struts.	sqm	165.08	270	44,572.41	
6.5	Stairs, (excluding landings) except spiral-staircases.	sqm	11.84	290	3,433.60	

7	Providing and laying in position specified grade of reinforced		<u> </u>	I	
/	cement concrete excluding the cost of centering, shuttering,				
	finishing and reinforcement- All work upto plinth level:				
	Thirsining and remisoreement- 7xii work upto piniui level.				
7.1	1:1:2 (1cement : 1 coarse sand : 2 graded stone aggregate 20	cum	29.58	5040	1,49,083.20
	mm nominal size)				
8	Reinforced cement concrete work in beams, suspended floors.	cum	64.46	4800	3,09,408.00
	Roofs having slope upto 15°, landings, balconies, shelves,				
	chhajjas, lintels, bands, alain window sills, staircases and				
	spiral stair cases upto floor five level excluding the cost of				
	centring shuttering finishing and reinforcement with 1:1:5:3 (1 cement: 1.5 coarse sand : 3 graded stone aggregate 20mm				
	nominal size)				
9	Mild steel and Medium Tensile steel bars	qtls	119.27	5640	6,72,682.80
	Sub-Total	qus	117.27	2010	1339127.48
10	Brick work with F.P.S. bricks of class designation 150 in	cum	9.57	3920	37,514.40
	foundation and plinth in Cem. Mortar 1:6				,
11	Brick work with F.P.S. bricks of class designation 150 in	cum	70.15	3785	2,65,517.75
	superstructure above plinth level in 9" th. Walls in				
	Cem.Mortar 1:6				
12	Brick work with F.P.S. bricks of class designation 150 in	sqm	105.86	430	45,519.80
	superstructure above plinth level in 4.5" th. Walls in Cem.				
	Mortar 1:4				
12.1	Extra for providing and placing in position 2 Nos. 6mm dia.	sqm	105.86	60	6,351.60
	M.S.bars at every third course of half brick masonry (with				
	F.P.S. bricks).  Sub-Total				2 54 002 55
13	Providing sal wood work in frames of doors, windows,	cum	1.55	70000	<b>3,54,903.55</b> 1,08,500.00
13	clerestory windows and other frames, wrought framed and	Culli	1.55	70000	1,08,300.00
	fixed in position.				
14	Providing and fixing ISI marked flush door shutter				
	conforming to IS:2202 (Part - 1) non-decorative type, core of				
	block board construction with frame of 1st class hard wood				
	and well matched commercial 3 ply veneering with vertical				
	grains or cross bands and face veneers on both faces of				
	shutters:				
	35 mm thick including ISI marked Stainless Steel butt hinges	sqm	30.83	2600	80,158.00
	with necessary	sqm	30.83	2600	80,158.00
15	with necessary  Extra for Providing and fixing flush doors with decorative	sqm	30.83	2600	80,158.00
15	with necessary  Extra for Providing and fixing flush doors with decorative veneering	-			
	with necessary  Extra for Providing and fixing flush doors with decorative veneering  On one side	sqm	30.83	320	9,865.60
15	with necessary  Extra for Providing and fixing flush doors with decorative veneering  On one side  Extra for providing lipping with 2nd class teak wood battens	-			
	with necessary  Extra for Providing and fixing flush doors with decorative veneering  On one side  Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area	sqm	30.83	320	9,865.60
16	with necessary  Extra for Providing and fixing flush doors with decorative veneering  On one side  Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured)	sqm	30.83	320	9,865.60
	with necessary  Extra for Providing and fixing flush doors with decorative veneering  On one side  Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured)  Providing and fixing glazed shutters for doors, windows and	sqm	30.83	320	9,865.60
16	with necessary  Extra for Providing and fixing flush doors with decorative veneering  On one side  Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured)  Providing and fixing glazed shutters for doors, windows and clerestory windows using 5 mm thick float glass panes	sqm	30.83	320	9,865.60
16	with necessary  Extra for Providing and fixing flush doors with decorative veneering  On one side  Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured)  Providing and fixing glazed shutters for doors, windows and	sqm	30.83	320	9,865.60
16	with necessary  Extra for Providing and fixing flush doors with decorative veneering  On one side  Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured)  Providing and fixing glazed shutters for doors, windows and clerestory windows using 5 mm thick float glass panes including black enamelled ISI marked MS butt hinges with	sqm	30.83	320	9,865.60
16	with necessary  Extra for Providing and fixing flush doors with decorative veneering  On one side  Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured)  Providing and fixing glazed shutters for doors, windows and clerestory windows using 5 mm thick float glass panes including black enamelled ISI marked MS butt hinges with necessary screws.	sqm	30.83	320	9,865.60

18	Providing 40x5mm flat iron hold fast 40cm long including fixing to frame with 10mm dia bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size)	No	139.00	90	12,510.00
19	M.S work in grills, frames, guard bar, ladders, railings, brackets, gates & similar works.	kg	879.55	90	79,159.50
20	Providing and fixing stainless steel railing in stair case etc complete in all respect.	Rm	7.90	1500	11,850.00
	Sub-Total				3,66,630.60
21	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 edge to give high gloss finish etc. complete at all levels.				
	Granite work.				
	Area of slab over 0.50sqm	sqm	9.45	2600	24,570.00
22	Extra for 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.	Rm	19.35	180	3,483.00
23	Extra for providing opening of required size & shape for wash basins/ kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete.	each	3	250	750.00
24	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	sqm	9.45	150	1,417.50
25	Marble Stone (Raj Nagar Plain) slab with 18mm thick marble flooring over 20mm thick base laid over and jointed with white cement slurry including rubbing and polishing complete with base of 1:4 (1 cement: 4 Coarse sand)	sqm	109.55	1250	1,36,937.50
26	Kota slab flooring over 20mm 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 (1cement : 4 coarse sand):				
	25mm thick	sqm	30.67	950	29,140.07

27	Kota stone slab 25mm thick in risers of steps, skirting and	gam	6.01	940	5,651.28
21	dado laid on 12mm average thick cement mortar 1:3 (1)	sqm	0.01	940	3,031.20
	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.				
28	Providing and laying Antiskid Ceramic glazed floor tiles 300	sqm	55.51	827	45,906.77
	x 300mm of 1 <sup>st</sup> quality conforming to IS: 13755 of NITCO,	1			,
	ORIENT, SOMANY, KAJARIA laid on 20mm thick cem.				
	Mortar 1:4 including pointing the joints with white cement				
	and matching pigment etc., complete.				
29	Providing and laying Ceramic glazed wall tiles 300 x 300mm	sqm	85.07	850	72,309.50
	of 1 <sup>st</sup> quality conforming to IS: 13755 of NITCO, ORIENT,	•			
	SOMANY, KAJARIA laid on 20mm thick cem. Mortar 1:4				
	including pointing the joints with white cement and matching				
	pigment etc., complete.				
	Sub-Total				320165.62
30	12mm thick cement plaster of mix 1:5 (1 cement: 5 Coarse	sqm	821.72	140	1,15,040.80
	sand) on walls.				
31	6mm thick cement plaster of mix 1:4 (1 cement: 4 Coarse	sqm	171.99	160	27,518.40
	sand) on ceiling.				
32	OBD on ceiling in 3 coats to give an even shade complete	sqm	171.99	130	22,358.70
	works.				
33	Painting on walls in 3 coats to give an even shade complete	sqm	410.86	180	73,954.80
	works including base coats and wall putty etc.				
34	Finishing walls with textured exterior paint of required shade:				
	New work ( two or more coats applied @3.28ltr/10sqm) over	sqm	287.61	209	60,110.49
	and including base coat of water proofing cement paint	sqiii	207.01	207	00,110.47
	applied @ 2.20kg/10 sqm.				
35	Finishing walls with Premium Acrylic Smooth exterior paint				
	with Silicone additives of required shadeof required shade				
	1				
	New work (Two or more coat applied @ 1.43 ltr/10 sqm over	sqm	123.26	143	17,626.18
	and including base coat of water proofing cement paint	•			
	applied @ 2.20 kg/10 sqm)				
36	Painting/ Polishing over doors/ windows/ ventilators	sqm	75.84	114	8,645.76
	including priming coat/ rubbing etc. complete job.				
	Sub-Total		-		325255.13
37	Providing gola 75x75 mm in cement concrete 1:2:4 (1				
	cement: 2 coarse sand : 4 stone aggregate 10mm and down				
	gauge) including finishing with cement mortar 1:3 (1 cement:				
	3 fine sand) as per standard design:		7 / 0=	0.1	1.5.5.00
20	In 75x75mm deep chase	Rm	54.37	84	4,567.08
38	Making khurras 45x45 cm with average minimum thickness	each	4.00	270	1,080.00
	of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4				
	graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1mx 1mx 400 micron, finished with 12mm cement				
	plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat				
	cement rounding the edge and making and finishing the outlet				
	complete.				

43	Total Cost of Civil Works				30,85,577.81
	Sub-Total	- 10	-		2,24,750.00
42	Entrance gate	No	1	30000	30,000.00
41	Boundary Wall	Rm	43.8	3250	1,42,350.00
40	Extrenal Development	sqm	32.75	1600	52,400.00
	Sub-Total				62335.78
	khurra as 65 mm.	sqm	04.01	070	50,000.70
	With average thickness of 120mm and minimum thickness at	cam	84.61	670	56,688.70
	specified by the Engineer-in-Charge :				
	All above operations to be done in order and as directed and				
	a minimum period of two weeks for curing and for final test.				
	The whole terrace so finished shall be flooded with water for				
	making pattern of 300x300 mm square 3mm deep.				
	finishing the surface with trowel with neat cement slurry and				
	cloth of approved quality in top layer of plaster and finally				
	water proofing compound conforming to IS: 2645 and approved by Engineer-in-charge including laying glass fibre				
	mortar of mix 1:4 (1 cement :4 coarse sand) admixed with				
	Finishing the surface with 20 mm thick jointless cement				
	approved by Engineer-in-charge.				
	water proofing compound conforming to IS: 2645 and				
	cement slurry using 2.75kg/ sqm of cement admixed with				
	After two days of proper curing applying a second coat of				
	junctions of walls and slabs				
	adjoining walls upto 300 mm height including rounding of				
	in-charge to required slope and treating similarly the				
	compound conforming to IS: 2645 and approved by Engineer				
	in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand )admixed with water proofing				
	compound conforming to IS: 2645 and approved by Engineer-				
	cement : 5 coarse sand) admixed with water proofing				
	25 mm to 115mm size with 50% of cement mortar 1:5 (1)				
	Laying brick bats with mortar using broken bricks/brick bats				
	including cleaning the surface before treatment.				
	RCC slab including adjoining walls upto 300mm height				
	to IS. 2645 and approved by Engineer-in-charge over the				
	cement admixed with water proofing compound conforming				
	following operations:  Applying a slurry coat of neat cement using 2.75 kg/sqm. of				
	treatment of roofs, balconies, terraces etc consisting of				
	treatment including preparation of surface as required for				
	14				