

**Annex -B-Bill of Quantities**

Sr. No	DESCRIPTION	MEASUREMENTS				UNIT	QTY
		No	L	W	H/D		
<b>EXCAVATION , EARTH FILLING &amp; CONCRETE WORKS OF STAIR CASE</b>							
1	<b>Excavation</b> Excavation over areas as in Ordinary Soil upto 1.5 M depth, in foundation / to obtain earth for filling under floors / areas etc, or for shafts, wells exc 30 sqm each, throw earth clear of edges of excavation within 10 M.						
		2	13	3	3	CFT	234
		1	16	3	3	CFT	144
<b>Total Quantity</b>						<b>CFT</b>	<b>378</b>
<b>CONCRETE WORKS</b>							
2	<b>Lean Concrete in Foundations &amp; Floorings</b> Providing and laying of Plum Concrete 1:4:8, with coarse aggregate graded as specified using 15 % boulders. <b>(Cement Make: Lucky Cement/DG Cement/Elephant)(Grade 53)</b>						
	Lean Concrete in Footing	2	13	3	0.25	CFT	19.5
		1	16	3	0.25	CFT	12
	Lean Concrete in Flooring	1	12	11	0.25	CFT	33
<b>Total Quantity</b>						<b>CFT</b>	<b>64.5</b>
3	<b>Concrete work In Columns</b> Providing and laying 200mm thick In-situ cement concrete 1:2:4 (1 cement 2 sand 4 crush) using crush stone 19mm (3/4") and down gauge in Columns ,Foundation,Plinth ,Door Band,Slab including formwork compacting curing and removal of form work.Reinforcement measured and paid separately <b>(Cement Make: Lucky Cement/DG Cement/Elephant)(Grade 53)</b>						
	Staircase Columns	4	1.5	0.75	26	CFT	117
	First Floor Columns	18	1	1	10	CFT	180
<b>Total Quantity</b>						<b>CFT</b>	<b>297</b>
4	<b>Concrete work In Plinth Beam (Stair case)</b> Providing and laying 200mm thick In-situ cement concrete 1:2:4 (1 cement 2 sand 4 crush) using crush stone 19mm (3/4") and down gauge in Columns ,Foundation,Plinth ,Door Band,Slab including formwork compacting curing and removal of form work.Reinforcement measured and paid separately <b>(Cement Make: Lucky Cement/DG Cement/Elephant)(Grade 53)</b>						
		2	11	1.125	0.5	CFT	12.375
		2	13	1.125	0.5	CFT	14.625
<b>Total Quantity</b>						<b>CFT</b>	<b>27</b>
5	<b>Concrete work In Roof</b> Providing and laying 200mm thick In-situ cement concrete 1:2:4 (1 cement 2 sand 4 crush) using crush stone 19mm (3/4") and down gauge in Columns ,Foundation,Plinth ,Door Band,Slab including formwork compacting curing and removal of form work.Reinforcement measured and paid separately <b>(Cement Make: Lucky Cement/DG Cement/Elephant)(Grade 53)</b>						
	Main Roof	1	64	38	0.416666667	CFT	1013.333333
	Mumty Roof	1	17	14	0.416666667	CFT	99.16666667
<b>Total Quantity</b>						<b>CFT</b>	<b>1112.5</b>
6	<b>Concrete work In Foundations (Stair case Foundation)</b> Providing and laying 200mm thick In-situ cement concrete 1:2:4 (1 cement 2 sand 4 crush) using crush stone 19mm (3/4") and down gauge in Columns ,Foundation,Plinth ,Door Band,Slab including formwork compacting curing and removal of form work.Reinforcement measured and paid separately <b>(Cement Make: Lucky Cement/DG Cement/Elephant)(Grade 53)</b>						
		2	13	2	0.75	CFT	39
		2	16	2	0.75	CFT	48
<b>Total Quantity</b>						<b>CFT</b>	<b>87</b>
7	<b>Concrete work in Stair case steps</b> Providing and laying 200mm thick In-situ cement concrete 1:2:4 (1 cement 2 sand 4 crush) using crush stone 19mm (3/4") and down gauge in Columns ,Foundation,Plinth ,Door Band,Slab including formwork compacting curing and removal of form work.Reinforcement measured and paid separately <b>(Cement Make: Lucky Cement/DG Cement/Elephant)(Grade 53)</b>						
		32	4.5	1	0.5	CFT	72
		4	4.5	4.5	0.5	CFT	40.5
<b>Total Quantity</b>						<b>CFT</b>	<b>112.5</b>

8	<b>Concrete work In Roof Beam</b> Providing and laying 200mm thick In-situ cement concrete 1:2:4 (1 cement 2 sand 4 crush) using crush stone 19mm (3/4") and down gauge in Columns ,Foundation,Plinth ,Door Band,Slab including formwork compacting curing and removal of form work.Reinforcement measured and paid separately <b>(Cement Make: Lucky Cement/DG Cement/Elephant)(Grade 53)</b>							
	Staircase Lobby	4	11.5	0.75	1	CFT	34.5	
	Staircase Lobby	1	13	0.75	1	CFT	9.75	
	First Floor Main Hall	6	25.5	1	2	CFT	306	
	First Floor Main Hall	2	62	1	2	CFT	248	
	First Floor Verandah	2	11	1	1.5	CFT	33	
	First Floor Verandah	1	62	1	1.5	CFT	93	
<b>Total Quantity</b>							<b>CFT</b>	<b>724.25</b>
9	<b>Concrete work In Lintel</b> Providing and laying 200mm thick In-situ cement concrete 1:2:4 (1 cement 2 sand 4 crush) using crush stone 19mm (3/4") and down gauge in Columns ,Foundation,Plinth ,Door Band,Slab including formwork compacting curing and removal of form work.Reinforcement measured and paid separately <b>(Cement Make: Lucky Cement/DG Cement/Elephant)(Grade 53)</b>							
	<b>Total Quantity</b>	1	62	0.75	0.75	CFT	<b>34.875</b>	
<b>BRICK MASONRY WORKS</b>								
10	<b>Brick Masonry</b> Providing and laying of first class bricks masonry laid and jointed in CM 1:3, including curing complete in all respect. <b>(Brick Make: NSR/SPL First Class Brick)</b>							
<b>SubStructure Brick Masonry Works</b>								
	22.5" Brick Masonry works in SubStructure (staircase)	2	13	1.875	0.5	CFT	24.375	
		1	16	1.875	0.5	CFT	15	
	18" Brick Masonry works in SubStructure (staircase)	2	13	1.5	1	CFT	39	
		1	13	1.5	1	CFT	19.5	
	13.5" Brick Masonry works in SubStructure (staircase)	2	13	1.125	2	CFT	58.5	
		1	16	1.125	2	CFT	36	
<b>Total Quantity</b>							<b>CFT</b>	<b>192.375</b>
<b>SuperStructure Brick Masonry Works</b>								
	9" Brick Masonry works in SuperStructure (staircase)	2	11	0.75	28	CFT	462	
		1	13	0.75	8	CFT	78	
		1	13	0.75	28	CFT	273	
	9" Brick Masonry works in first floor (Short Wall)	2	25.5	0.75	10	CFT	382.5	
	9" Brick Masonry works in first floor (Long Wall)	2	62	0.75	10	CFT	930	
	Partition wall between offive and Guard house	2	40	0.375	6	CFT	180	
	4.5" Brick Masonry ground and first floor for Grill	1	62	0.375	4	CFT	93	
	4.5" Brick Masonry works in first floor (short Wall)	2	25.5	0.375	10	CFT	191.25	
<b>Total Quantity without deduction</b>							<b>CFT</b>	<b>2589.75</b>
<b>Deduction of Doors &amp; Windows quantity from brick masonry</b>								
	Window	4	5	0.75	5	CFT	75	
		2	4	0.75	5	CFT	30	
	Door	3	3.5	0.75	7	CFT	55.125	
		1	6	0.75	7	CFT	31.5	
<b>Deduction Quantity</b>							<b>CFT</b>	<b>191.625</b>
<b>Total Quantity of Brick Masonry after deduction</b>							<b>CFT</b>	<b>2398.125</b>
11	<b>Plaster Works</b> Providing and applying 13mm thick Cement Plaster 1:3 finished including curing as specified. <b>(Cement Make: Lucky Cement/DG Cement/Elephant)(Grade 53)</b>							
	Main Roof Plaster (First Floor)	1	65	39		SQFT	2535	
	Mumty Roof Plaster	1	18	17		SQFT	306	
	Wall Plaster (Long Wall) (First Floor)	3	61		11	SQFT	2013	
	Wall Plaster (Short Wall) (First Floor)	6	25.5		11	SQFT	1683	
	4.5" Brick ground and first floor for Grill	4	50		4	SQFT	800	
	Partition wall between offive and Guard house	2	45		6	SQFT	540	
	Staircase Plaster (Internal & External)	4	11		14	SQFT	616	
		2	13		14	SQFT	364	
	Verandah Columns	6	1	1	11	SQFT	66	
<b>Total Quantity (Without Deduction)</b>							<b>SQFT</b>	<b>8923</b>
<b>Deduction</b>								
	Window	4	5		5	SQFT	100	
		2	4		5	SQFT	40	
	Door	2	3.5		7	SQFT	49	
		1	6		7	SQFT	42	
<b>Deduction Quantity</b>							<b>SQFT</b>	<b>231</b>
<b>Total Quantity of Plaster Works after deduction</b>							<b>SQFT</b>	<b>8692</b>

12	<b>Roof Screeding</b> Providing and laying, 50 mm thick Floor/Roof Screeding with CC 1:2:4 using 19 mm graded broken stone of specially hard quality, over normal thickness of concrete floor including curing & all necessary arrangement for shifting of materials to roof top <b>(Cement Make: Lucky Cement/DG Cement/Elephant)(Grade 53)</b>						
	Main Roof	1	62	38	0.25	CFT	589
	Mumty Roof	1	15	15	0.25	CFT	56.25
<b>Total Quantity</b>						<b>CFT</b>	<b>645.25</b>
13	<b>Skirting</b> Providing and laying, rough / glossy double matt glazed, skirting tiles, split tiles facing strip, chequered, light / dark coloured /printed / textured, laid on walls, set in neat cement and joints grouted with white/coloured cement, complete, <b>Pak made (Master approved shape and color)</b>					RFT	505
14	<b>Wall Finishes/Water Mat/Color Works</b> Removing of old color with sand paper, making smooth base for new coat. Providing and applying 3 coats water mat of approved color/shade of approved manufacturers <b>(ICI/Dulex/Berger/Nippon Paint)</b> to interior walls and roof complete in all respect including surface repairs if any.					SQFT	8692
15	<b>Oil paint on Door</b> Applying oil paint on doors ICI, Dulux, Evershine finish of approved shade in two or more coats over and including the cost of priming coat including preparation of surface viz, dusting, sand papering or rubbing with pumic stone, filling cracks or holes, if any, removing blisters or other imperfections at any height in ground floor. <b>Make: (Nippon Paints/Berger Paints/ICI/Brighto paints/Dulex paints)</b>						
	Paint on both sides of Door	6		3.5	7	SQFT	147
	Paint on both sides of Door	2		6	7	SQFT	84
<b>Total Quantity</b>						<b>SQFT</b>	<b>231</b>
16	<b>Solid Doors</b> Supply and fix, 1st Class Soft wood Deodar/American Kail/Russian Kail, wrought, sashes, glazed with moulded or chamfered bars, panels filled in with glass including chowkats/frame of 18 gauge, holdfasts and fixed with screws to frames, 32 mm thick, including brass door handles, brass Locks & tower bolts						
		4		3.5	7	SQFT	98
		1		6	7	SQFT	42
<b>Total Quantity</b>						<b>SQFT</b>	<b>140</b>
17	Providing and fixing hot dipped galvanized fully glazed steel door with frame single leaf galvanized steel bottom or kick rail 6" (150mm) wide and top rail 4" (100mm), width of Z-section 1.25" (30mm) at each edge using approved brass section oxidized fittings, iron lugs, including cutting holes galvanizing and cost of fabrication and making good the damages to walls.						
		1		3.5	6	SQFT	21
18	<b>Aluminum Window</b> Supply & fixing of Aluminium Sliding window of Anodized Aluminium J-section champagne color (Deluxe model 1.6mm) as specified, incl fixing on concrete, wood,brick masonry or steel frames complete with all necessary fittings, including 5 mm glass. <b>(Make: Prime Aluminum/Chawla Aluminum)</b>						
		4	5		5	SQFT	100
		2	4		5	SQFT	40
<b>Total Quantity</b>						<b>SQFT</b>	<b>140</b>
19	<b>Iron Grill</b> Providing and fixing Iron Square grills of minimum 18 gauge square bars at minimum spacing of 3" including the cost of 2 coats of red oxide & finishing coat of oil paint and designed approved by in charge.						
		4	5		5	SQFT	100
		2	4		5	SQFT	40
<b>Total Quantity</b>						<b>SQFT</b>	<b>140</b>
20	<b>Marble top for steps (Tread &amp; Riser)</b> Providing and installing plain verona 3/4" in steps tread and risers laid in cement sand mortar complete in all respect.						
	Tread	32	4.5	1		SQFT	144
		4	4.5	4.5		SQFT	81
	Riser	50	4.5	0.5		SQFT	112.5
<b>Total Quantity</b>						<b>SQFT</b>	<b>337.5</b>

21	<b>Stainless Steel Railing</b> Providing and fixing stainless steel (16 Gauge) 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 , on the top of the floor or the side of waist slab with suitable arrangement as per approval of Architect.						
		2	15			RFT	30
		1	70			RFT	70
<b>Total Quantity</b>							
						<b>RFT</b>	<b>100</b>
22	Providing and laying 1:3:6 cement concrete block masonry using Coarse Sand and Approved crushed aggregate 3/4" (19mm) & down gauge in foundation, basement and plinth including scaffolding, raking out joints and curing. 8" (200 mm) thick solid block masonry cement ratio 1:4 for in tree guards and garden kiaree including the price of white distempering as per instruction					CFT	412.5
23	Supply and Fixing of Concrete pavers on 1:4:8 lean and sand cushion of different designs having thickness of 50 mm, sides with kerb stone protection, mechanically compressed, minimum strength of 4500 psi after at factory and random testing at site as 50 mm thick, tuff tiles Natural gray and when desired by the Engineer interchange comple in all respects						1650
24	Providing and fixing hot dipped galvanized fully glazed steel Front Floor closing Grill with frame with square pipe of Z-section 1.25" (30mm) at space of 1 meter providing two doors of 5 x 7 and sliding windows four 4 x4 feet fixed in wall and fixing Iron Square grills of minimum 18 gauge square bars at minimum spacing of 3" including the cost of 2 coats of red oxide & finishing coat of oil paint including 5 mm thick glass except doors and designed approved by in charge.	2	45	6		SFT	540
<b>ELECTRICAL WORKS</b>							
25	<b>Wiring</b> One fan point, or one light point or one bell point, controlled by one switch, wiring complete, with PVC single core cable 1.5 mm <sup>2</sup> , in concealed PVC conduit, stove enamelled, Supply & fixing. Wiring from point to switch length upto 10m including any switch to switch wiring with 1.5 sqmm PVC insulated single core copper conductor cables in concealed PVC 20mm dia & with all wiring & pipe accessories such as bends, elbows, junction boxes, with 14 SWG copper conductor as Ecc.  1. LED Light Points=42 Points 3. Fan Points=10 Points 4. TV/Telephone Points=2 Points 5. Stairs light Points=6 Point 7. AC Points=5 Points( For AC point, 2.5mm <sup>2</sup> wire should be used) 8. Multi plug/Power plug Points=20 Points <b>Cable Make: Pakistan Cables/Universal Cables/Fast Cables/Unicore Cables</b>					points	85
26	<b>PVC Conduit</b> Supply & fixing of 20mm/25mm dia conduit, heavy gauge Class-"B", screwed complete with all bends, tees, boxes, LED bulb glass, fan box, saddles etc, stove enamelled for concealed wiring.					Meter	390
27	<b>6 Gang Switch</b> 6 gang switch, 10A, 250 V, including PVC/steel back box with proper screws, Supply & fixing (Best Quality). ( The quality or selection of this item should be decided after approval from the Architect in later stage.)					Nos	8
28	<b>Multi Plug</b> Multi switch, 10A, 250 V, including PVC/steel back box with proper screws, Supply & fixing. (Best Quality) ( The quality or selection of this item should be decided after approval from the Architect in later stage.)					Nos	20
29	Providing and fixing 56 inch Pak Fan complete in all respect					Nos	10

30	<p><b>Gang Power Socket</b>  Gang power socket, 15A, 250 V including PVC/steel back box with proper screws complete in all respect, Supply &amp; fixing. (Best Quality)  (The quality or selection of this item should be decided after approval from the Architect in later stage.)</p>					Nos	6
31	<p><b>TV/Telephone Socket</b>  4 Gang type (2 switch &amp; 2 socket) switch, 10 A, 250 V, including PVC/steel back box with proper screws complete in all respect, Supply &amp; fixing. (Best Quality)  (The quality or selection of this item should be decided after approval from the Architect in later stage.)</p>					Nos	2
32	<p><b>Down Lights</b>  Providing &amp; installing of Marcasite 14 Watt LED down lights complete in all respect  <b>Make: Phillips</b>  <b>Color: Super White</b></p>					Nos	40
33	<p><b>Mild Steel</b>  Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-  <b>Make: Mughal Steel/Amreli Steels/Naveena steel</b>  <b>High Yield strength Deformed Steel Bars(Grade-60)</b></p>					TON	9.410375