

## BILL OF QUANTITIES

S.No	Description	Qty	Unit	Rate	Amount
<b>4</b>	<b>All items under this head (Architectural work) to be carried out as per relevant Section of technical specifications (Volume-II), Drawings, BSI/ASTM Standards, complete in all respects and to the entire satisfaction of the Engineer.</b>				
	<b>DPC &amp; MASONRY WORKS</b>				
4.1	Providing and laying 50 mm thick damp proof course with 3000 psi cement concrete cast in situ using graded crushed stone/crushed of 19 mm and down gauge & clean river sand using & mixing water proof agent (Pudlo or approved equivalent) 1.70 Kg/sm in concrete including compacting, curing, form work and its removal etc., over complete drying and cleaning the surface. complete in all respects as per drawing & specification and all works to the satisfaction of the Engineer.	50	Sq.m		
4.2	Providing and laying machine made (1000-Psi) CC solid block masonry of approved quality, setting in cement sand mortar, including scaffolding, raking out the joints, curing, wedges, strips, M.S. anchors from RCC columns / walls at every third layer horizontally and 1 meter vertically, installing of wooden / PVC / steel sleeves for openings (sleeves to be provided by utility Contractors), hacking of existing surface for bonding where necessary, etc. complete in all respect as per specifications and drawings and as directed by the Engineer.	125	Cu.m		
	<b>Carried to Civil Summary</b>				
<b>5</b>	<b>THERMAL &amp; MOISTURE PROTECTION WORKS</b>	<b>Not Applicable</b>			
	<b>Carried to Civil Summary</b>				
<b>6</b>	<b>METAL WORKS</b>				
	<b>G.I. steel door frame</b>				
6.1	Providing and fixing G.I. molded steel door frames of 50mm wide manufactured from galvanized iron steel sheet of 16 gauge having single/double rebate size 38mm x 12mm, with holes and threads for fixing 3 Nos, 100mm long steel hinges, fitted with one locking box treated with special red oxide primer coat all around including cutting holes and filling the cavity with cement concrete 1:2:4 etc. in any floor at any height complete in all respects as per drawings, relevant specifications and as directed by the Engineer.  i) 150mm wide	70	Rm		
	<b>Aluminum Fixed glazing with Door</b>				
6.2	Providing and fixing fully glazed Bronz anodized or powder coated aluminium Fixed Partition with swing door comprising of 5mm thick distortion free local clear glass, 2mm thick deluxe model premium quality aluminum sections by Pakistan Cable, Lucky & Knudsen or approved equivalent manufacturers, fixed on Rcc & masonry surface, fitted in Neoprene Gaskets including all required hardware (stainless steel/aluminum) such as hinges, handles, locks, stays, weather strip etc., silicon sealant to all external junction between structure and door to give water / wind proof seal. complete in all respects as per drawing, standard, specifications and direction of the Engineer.	32	Sq.m		
	<b>DW-2 Aluminum Fixed glazing</b>				
6.3	Providing and fixing fully glazed Bronz anodized or powder coated aluminium Fixed Partition comprising of 5mm thick distortion free local clear glass, 2mm thick deluxe model premium quality aluminum sections by Pakistan Cable, Lucky & Knudsen or approved equivalent manufacturers, fixed on Rcc & masonry surface, fitted in Neoprene Gaskets including weather strip & all required hardware (stainless steel/aluminum) etc., silicon sealant to all external junction between structure and Fixed Partition to give water / wind proof seal. complete in all respects as per drawing, standard, specifications and direction of the Engineer.	6	Sq.m		

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6.4	<b>Aluminum windows &amp; ventilators</b> Providing and fixing fully glazed Bronze anodized or powder coated aluminum Sliding / fixed & openable /Top hung windows & ventilators as per British standard manufactured by Pakistan cable, Lucky, Krudson or approved equivalent (fixing through their approved fabricators) deluxe model box section 95mm x 30mm and 2mm thick including the cost of aluminum netting ,fittings, gaskets with all required accessories & hardware (Hinges/roller, handle, stay, lock, weather strip etc..) 5mm thick distortion free clear local glass, silicon sealant to all junction of CC/RCC member & windows to give water/wind proof, cutting /drilling holes and making good damages to walls etc. complete in all respects as per drawings, relevant specifications and as directed by the Engineer.	18	Sq.m		
6.5	<b>MS Grill for Windows</b> Providing and fixing iron grills with required section of square/rectangle tube, flat/angle iron, as per approved design including welding all sides of the section at the junction and fixing with sunk iron screws/hold fast, approved colour synthetic enamel paint two coats over one coat of red oxide paint etc. complete as required in any floor & any height etc., complete in all respects as per drawing, standard, specifications and direction of the Engineer.	500	Kg		
6.6	<b>MS Spiral Stair case</b> Providing Fabrication and reaction MS Spiral stair case comprising of MS pippe central post, angle frame & chequered plate steps, Ms hollow tube hand rail, flat bar mid rail with square bar ballastered, including base plate required nut & bolts, three coats of enamel pain including & over one coat of red oxide paint, required cement concrete, required fixing materials etc, at in any floor & any height etc., complete in all respects as per drawing, standard, specifications and direction of the Engineer.	150	Kg		
<b>Carried to Civil Summary</b>					
7	<b>WOOD WORKS</b>				
7.1	Providing and fixing 38 mm thick solid core golden teak wood flushed veneered door shutters (with & without vision panel), including the cost of veneer/commercial plywood facing 3 mm. thick (3 ply) on both faces, fixed over 50mm wide golden teak wood door frame (Horizontal, Vertical, & cross /diagonal & 150mm wide lock rail in full length), 6mm thick best quality golden teak wood lipping on all sides as per approved drawing, the door shutter mechanically pressed by standard manufacturers under power driven hydraulic press as approved by the Engineer, nails, glue or any required hardware's, applying solignum for termite treatment, at any height & any floor etc., complete in all respects as per drawing, standard, specifications and direction of the Engineer. <b>(Note: Cost of Ironmongery such as Hinges, Tower bolts, Locks, Handles, kick &amp; push plate etc. paid in Separate item.)</b>	28	Sq.m		
7.2	Providing and fixing best quality golden teak wood frames (225mm x 50mm thick) for doors, windows, ventilators, clerestory windows, shelves, partitions, trellis work, etc., as required . Complete in all respects as per drawings, specification and as directed by the Engineer.	7	R.m		
7.3	Providing and fixing best quality golden teak wood projected beading 50mm x 10mm in sections and required design fixed around the panels of doors, windows etc., of any description , complete in all respect as per drawings, specification and as directed by the Engineer.	130	R.m		
7.4	Providing & Applying French or spirit polishing, two coat of approved make on wood work at any height in any floor.	60	Sq.m		
7.5	Providing and fixing in position as per drawings & joinery schedule all of "New ISE" Hong Kong, New Star Japan or approved equivalent make as per relevant drawings, contractor to submit the sample / shop drawings for approval prior to execution etc., complete in all respects as per drawing, standard, specifications and direction of the Engineer.				
	S.S Door hinges 4" long	8	Each		
	SS finished Knob Lock complete set	8	Each		
	Motorized Door Lock complete set (Lock body, Cylinder & Liver handle) for main door, bed & drawing rooms	5	Each		
	SS Tower Bolt 8" long	7	Each		
	SS Door stopper	4	Each		
	Coat & Head Hook	1	Each		
<b>Carried to Civil Summary</b>					

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S.No	Description	Qty	Unit	Rate	Amount
<b>8</b>	<b>INTERNAL FLOOR FINISHES</b>				
8.1	Providing and laying 1:5:10 cement concrete bed under floors using graded Crushed Aggregate 3/4 & down gauge with levelling, ramming, watering and curing etc. complete in all respects and as per drawing, standard , specifications and direction of the Engineer. (under flooring of Marble, Mosaic & Porcelain tiles etc.,).	6	Cu.m		
8.2	Providing and fixing Marble tiles flooring 300mm x 300mm/300mm x 600mm x 12mm thick Boticena Fancy marble tiles, fine dressed on the surface without windings in any floor & any height including & over 13 mm (1/2 inch) thick base of cement mortar 1:3 setting of tiles in slurry of grey cement over mortar including filling the joints (grouting) and washing the tiles with white cement slurry & matching colour pigment, curing, finishing, grinding, rubbing, chemical polishing etc. complete in all respects and as per drawing, standard , specifications and direction of the Engineer.	175	Sq.m		
8.3	Providing and laying approved Pakistani made Glazed/unglazed/Matt ceramic tiles in floor with different sizes, colour and pattern in any floor & any height including & over 1" (25mm) thick cement sand mortar 1:3, setting the tiles in slurry of grey cement over mortar, filling the joints/grouting with approved grouting material, complete in all respects and as per drawing, standard , specifications and direction of the Engineer. Base Price of tile Rs.1600 per Sq.M. (It may be noted that increasing /decreasing in the rate shall be made accordingly).	32	Sq.m		
8.4	Providing and laying 20mm thick pre-polished approved shade Boticena Fancy marble counter top/slab with bull nosing / chamfering, rounded edges, size not less than 1500mm x 600mm for vanity, kitchen counter or where required including & over 40mm thick RCC 1:2:4 slab set in 1:4 C.S mortar, fill the joints by approved grouting material, making hole for wash basin/sink, fixing in wall by cutting/chiseling in RCC/CC member, maintaining the line & level, curing etc., complete in all respects and as per drawing, standard, specifications and direction of the Engineer.	10	Sq.m		
8.5	Providing and laying 1:2:4 P.C.C 75mm thick flooring using crushed stone 3/4" (19mm) & down gauge including formwork, consolidation, paneling, levelling, finishing and curing etc. complete in all respects and as per drawing, standard , specifications and direction of the Engineer.	7	Sq.m		
8.6	Providing & laying pre-polished bull nosing approved quality Boticena Fancy marble for entrance steps, minimum on Tread 1800mm x 300 x 20mm thick and riser size 900 mm x 150mm x 10mm thick including & over 12mm thick base mortar 1:3, neat cement slurry & approved grouting material etc., complete in all respects as per specifications & relevant drawings and all works to be carried out the satisfaction of the Engineer.				
	i) Tread size 1800mm x 300 x 20mm thick	7	Sq.m		
	ii) Riser size 900 mm x 150mm x 10mm thick	5	Sq.m		
	<b>Carried to Civil Summary</b>				
<b>9</b>	<b>INTERNAL WALL FINISHES</b>				
9.1	Providing and applying 13mm thick C.S Plaster with 1:4 on internal wall & columns etc., including fixing of 200mm wide strip G.I. Wire Mesh 24 Swg thick at all junctions of concrete and masonry, hacking the concrete surfaces, scaffolding, corner beads etc. making edges, corners, grooves etc. All plaster to finish smooth flat in true line, level & plumb and properly cured Complete in all respects as per drawings, specifications and to the entire satisfaction of the Engineer.	650	Sq.m		
	<b>Marble tile Dado &amp; Skirting</b>				
9.2	Providing and fixing 300mm x 150 x 12mm (1/2") thick pre-polished Boticena Fancy marble tile skirting set in grey cement slurry including and over 13mm (1/2") thick cement sand mortar base 1:4 & curing etc., Complete in all respects as per drawings, specifications and to the entire satisfaction of the Engineer .	30	R.m		

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S.No	Description	Qty	Unit	Rate	Amount
	<b>Ceramic tile Dado &amp; Skirting</b>				
9.3	Providing and fixing approved Pakistani make, colour & size ceramic glazed tiles in dado and skirting in any floor & any height, including & over 13 mm (1/2 inch) thick base of cement mortar 1:4 setting of tiles in slurry of grey cement over mortar base including grouting with approve material the joints and washing the tile with white cement slurry curing and cleaning etc. complete .	120	Sq.m		
9.4	Providing & applying three coats on all internal wall surface with (ICI) Deluxe Matt emulsion paint of approved shade including and over one priming coat, preparation of surface, filling depression with putty, rubbing, sand papering and cleaning etc. at any height in any floor, complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.	650	Sq.m		
	<b>Carried to Civil Summary</b>				
<b>10</b>	<b>INTERNAL CEILING FINISHES</b>				
10.1	Providing and applying 13mm thick 1:6 C.S Plaster on ceiling staircase (waist slab, landings & steps) etc., hacking the concrete surfaces, scaffolding etc. All plaster to finish smooth flat in true line, level & plumb and properly cured Complete in all respects as per drawings, specifications and to the entire satisfaction of the Engineer.	210	Sq.m		
	Providing and applying three coats of Oil Bound Distemper paint on ceiling, including and over one priming coat, preparation of surface, filling depression with putty, rubbing, sand papering and cleaning etc. at any height in any floor, complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.	210	Sq.m		
	<b>Carried to Civil Summary</b>				
<b>11</b>	<b>EXTERNAL WALL FINISHES (BUILDING)</b>				
11.1	Providing and applying 12mm thick Rough Cast cement sand plaster 1:6 on external walls, columns or where required etc., using expanded metal mesh on cc & Rcc joints including scaffolding, corner beads etc. making edges, corners, grooves etc. All plaster to finish smooth flat in true line, level & plumb and properly cured Complete in all respects as per drawings, specifications and to the entire satisfaction of the Engineer.	225	Sq.m		
11.2	Providing and applying 20mm thick Plaster with Grooves & drip course of C.S mortar 1:4 on external walls, columns or where required etc., using expanded metal mesh on cc & Rcc joints including hacking the concrete surfaces scaffolding corner beads, chamfered edges, rounding off corner etc. All plaster to finish smooth flat in true line, level & plumb and properly cured Complete in all respects as per drawings, specifications and to the entire satisfaction of the Engineer.	470	Sq.m		
11.3	Providing and applying three coats of weather shield paint on external surface of approved colour shade including preparing the surface rubbing with sand paper, filling the voids with filling putti etc., at any height in any floor complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.	470	Sq.m		
11.4	Providing & Laying free foam natural stone wall cladding random stone 1" & 1-1/2" thick rough finished approved local stone on wall (straight, curved, arches etc.) with cement sand mortar 1:2 making the stone surface smooth, curing, etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	150	Sq.m		
	<b>Carried to Civil Summary</b>				

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S.No	Description	Qty	Unit	Rate	Amount
<b>12</b>	<b>ROOF FINISHES &amp; WATER PROOFING</b>				
12.1	Providing and laying 25mm thick average levelling CC screed over Rcc slab for achieving leveled surface with (1:4) cement sand mortar, complete in all respect and as per drawing & specification and to the entire satisfaction of the Engineer.	240	Sq.m		
12.2	Providing & laying in position 40mm thick Diamond jumbolon-Board from Diamond Foam or approved equivalent having density 35kg/cum, over above Water Proofing membrane with rebated edge as per manufacturer's specifications, instruction & as shown in the drawing etc., complete in all respects as per drawings, specification and as directed by the Engineer.	240	Sq.m		
12.3	Providing and laying 50mm thick (Avg.) minimum with 3000 psi strength concrete screed including BRC mesh 4" x 4" x 10 swg from Al - Burhan (Pvt) Ltd or approved equivalent in required slope curing, making ridges, valleys, chamfered edges etc. complete in all respects as per drawings, specifications and as directed by the Engineer.	280	Sq.m		
12.4	Providing and laying in position Water proofing membrane PG-3000 or RL-G300 3mm thick from Pak Hy-Oils, Roofline or approved equivalent over above leveled surface including primer coating, overlapping (horizontal & vertical) complete as per manufacturer's specifications, instruction & as shown in the drawing etc., complete in all respects as per drawings, specification and as directed by the Engineer.	280	Sq.m		
<b>Carried to Civil Summary</b>					
<b>13</b>	<b>EXTERNAL FINISHES OTHER THAN BUILDING</b>				
	<b>Boundary Wall</b>				
13.1	Providing and laying 50 mm thick damp proof course with 3000 psi cement concrete cast in situ using graded crushed stone/crushed of 19 mm and down gauge & clean river sand using & mixing water proof agent (Pudlo or approved equivalent) 1.70 Kg/sm in concrete including compacting, curing, form work and its removal etc., over complete drying and cleaning the surface. complete in all respects as per drawing & specification and all works to the satisfaction of the Engineer.	20	Sq.m		
13.2	Providing and laying machine made 1000 CC solid block masonry of approved quality, setting in cement sand mortar, including scaffolding, raking out the joints, curing, wedges, strips, M.S. anchors from RCC columns / walls at every third layer horizontally and 1 meter vertically, installing of wooden / PVC / steel sleeves for openings (sleeves to be provided by utility Contractors), hacking of existing surface for bonding where necessary, etc. complete in all respect as per specifications and drawings and as directed by the Engineer. Note: M.S. anchors, wedges, strips & other steel/reinforcement bars will be paid separately.	30	Cu.m		
13.3	Providing and applying 20mm thick Plaster with Grooves & drip course of C.S mortar 1:4 on external walls, columns or where required etc., using expanded metal mesh on cc & Rcc joints including hacking the concrete surfaces scaffolding corner beads, chamfered edges, rounding off corner etc. All plaster to finish smooth flat in true line, level & plumb and properly cured Complete in all respects as per drawings, specifications and to the entire satisfaction of the Engineer.	500	Sq.m		
13.4	Providing and applying three coats of weather shield paint on external surface of approved colour shade including preparing the surface rubbing with sand paper, filling the voids with filling putti etc., at any height in any floor complete in all respects as per standard specification, drawing and entire satisfaction of the Engineer.	500	Sq.m		
13.5	Providing & Laying free foam natural stone wall cladding random stone 1" & 1-1/2" thick rough finished approved local stone on wall (straight, curved, arches etc.) with cement sand mortar 1:2 making the stone surface smooth, curing, etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	50	Sq.m		

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S.No	Description	Qty	Unit	Rate	Amount
13.6	<b>Water Proof Plaster</b> Providing and applying plain cement plaster 20mm thick, using OPC and water proofing material (SIKA or equivalent approved ), on all types of tanks internal & External surface, with cement mortar 1:4 on walls, Floor, ceiling or wherever required straight or curved surfaces, making chamfered edges grooves, offsets, curing, cost of scaffolding etc. complete in all respects as per drawing, specifications and as directed by the Engineer.	30	Sq.m		
13.7	<b>Pre-Cast Concrete pavers</b> Providing & fixing Pre-cast concrete pavers strength not less than 7000 psi M/s ENVICRETE or equivalent approved quality pattern, size, design and colors in internal/ external floor including 50mm thick sand bed,levelling & grading earth work etc., compacted with plate compactor, pointing with sand etc., complete in all respect as per drawings and as directed by the Engineer.	120	Sq.m		
	<b>MS Grill Door</b> Providing, fabricating, welding & fixing in position MS hallow tube folding grill door comprising of 1-1/2" x 3" x 16 Swg hollow tube & solid bar horizontal & vertical & 12 swg Ms sheet on either side as shown on drawing, including hold fast (6 No), hinges, L-drop with lock & MS sheet 12 swg and all required fixing hardware including two coat of red oxide paint and three coat of epoxy paint of approved color & shades as per manufacturer's specification etc. complete in all respects as per drawing, standard, specifications and direction of the Engineer.	15	Sq.m		
13.8	<b>Horticulture Work</b> Providing, Spreading, stacking approved garden soil (sweet earth) free from salts, pabbles & roots. including mixing and breaking clods and dressing fine for grassing including disposal of rubbish as directed by the engineer, including all leads and lifts, complete in all respect.	140	Cu.m		
13.9	Providing, Spreading, well decayed cow dung manure and mixing the same up to any depth in the prepared bed including breaking clods, dressing fine for grassing, including, disposal of rubbish as directed by the engineer, including all leads and lifts, complete in all respect.	15	Cu.m		
13.14	Grassing fine by dribbling grass roots 3" apart including watering, weeding till such time the grass is set and becomes green and is fit for mowing, complete in all respect as directed by the engineer.	300	Sq.m		
	<b>Carried to Civil Summary</b>				