

Bill of Quantities

SUMMARY

Bill #	Description	Amount (Pak. Rs.)
1	Civil Works	
2	Electrical Works/Gas Installation	
3	Miscellaneous	
	Grand Total	

Bill # 1: Civil Works

Item #	Brief Description of Item	Estimated Quantity	Unit for Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
1	Structural excavation for foundations and basement in any type of soil including stone or gravel, upto required depths including back filling in trenches and under floors/pavements with approved excavated material, in layers including watering, ramming compacting, leveling & dressing etc., as per specification and disposal of surplus excavated material within or outside the project limits, including all lift and lead etc., complete as directed.	4100	Cft		
	Note: Sulphate resisting cement shall be used in foundation and upto plinth.				
2	Providing and laying first class solid burnt brick masonry set in cement mortar 1:6 in straight or curved walls 9" to 13-2 inches (228 mm to 343 mm) thick including scaffolding, raking out Joints and curing etc. complete in foundation, basement and plinth (foundation and basement masonry upto 5 feet (1.52 Ru.m.) depth and plinth upto 4 feet (1.2 Ru.m.) height from ground level) .	200	Cft		
3	Provide, lay, cure etc. first class burnt brickwork in walls in superstructure, including form work etc. complete:-				
	1): 9" and over thick, set in 1:6 cement sand mortar				
	i) Ground Floor	50	Cft		
	ii) First Floor	50	Cft		
	iii) 2nd Floor	50	Cft		
	iv) 3rd Floor	50	Cft		
	2): 4-1/2" thick, set in 1:4 cement sand mortar:				
	i) Ground Floor	850	Cft		
	ii) First Floor	850	Cft		
	iii) 2nd Floor	850	Cft		
	iv) 3rd Floor	850	Cft		
4	Provide, lay, compact, finish, cure etc. 2" thick PCC 1:2:4 topping/flooring in panels using marble dividers in joints.	575	Sft		

Item #	Brief Description of Item	Estimated Quantity	Unit for Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
5	Provide, mix, lay, compact, level finish, cure etc., lean concrete 1:4:8 using ¾" down crushed stone including Formwork and its removal, complete in all respect (under floor).	375	Cft		
6	Provide, fill, compact, level, cure etc. 1:2:4 mass concrete in raise Floor. (Floor)	1625	Cft		
7	Provide, clean, cut, bend, place, in position, bind etc., steel reinforcement bars including cost of binding wire, spacer blocks, steel charis/pins, wastage and the overlaps not shown in drawings, complete in all respects: Round deformed steel bars of 40,000 PSI yield strength (intermediate grade).	4950	Kg		
8	Providing and laying in floor C.C. 1:2:4: tuff paver 2" thick of approved design and colour pattren laid on sand cushion filling of joint with sand and warring etc. complete as per direction of Engineer Incharge. (the cost of sand cushion is included) with Strength more than 5000 PSI	5150	Sft		
9	Providing and laying reinforced cement concrete using crushed graded boulders ¾ inch (19 mm) and down gauge having a minimum works cube crushing strength of 2250 lbs. per sq inch (15.52 N/mm2) at 28 days with a mix not leaner than 1:2:4 in ordinary slab 3 inches (76 mm) to less than 5" (127 mm) thick including form work and its removal compacting and curing etc, including lawrencepur sand instead of local sand complete but excluding the cost of reinforcement, in basement plinth and ground floor.				
	Slab, Sun Shade or Chajja (3" to 4.5")				
	Ground Floor	275	Cft		
	First Floor	235	Cft		
	Second Floor	230	Cft		
	Third Floor	225	Cft		
10	Providing and laying reinforced cement concrete using crushed graded boulders ¾ inch (19 mm) and down gauge having a minimum works cube crushing strength of 3750 lbs. per sq. inch (23.24 N/mm2) at 28 days with a mix not leaner than 1:1.5:3 in over head water tank, bins, bunkers, intze tank and silos up to a height of 50 feet (9 m) above ground including form works and its removal compacting and curing etc. including lawrencepur sand complete but excluding the cost of reinforcement.				
	Column	250	Cft		

Item #	Brief Description of Item	Estimated Quantity	Unit for Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
	Beam	175	Cft		
	Walls	425	Cft		
	Bottom Slab	300	Cft		
	Top Slab	300	Cft		
11	Providing and using in reinforced cement concrete 'cemcon' as water proofing agent	500	Litre		
12	Providing and laying floor of 3/4 inch (19 mm) thick parlino spotless marble tiles, more than one Sq.ft. upto 3 Sq.ft. (more than 0.093 Sq.m upto 0.28 Sq.m) size fine dressed on the surface, without winding in ground floor over 1 inch (25 mm) cement mortar 1:2 (one cement two sand) setting the marble tiles with grey cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar..				
	Ground Floor	4700.00	Sft		
	1st Floor	4140.00	Sft		
	2nd Floor	4140.00	Sft		
	3rd Floor	4140.00	Sft		
13	Providing and fixing 3/8 inch (9-5 mm) thick white/black marble tiles above 36 Sq. inches upto 144 Sq. inches (232 Sq.cm upto 928 Sq.cm) size fine dressed on the surface without windings in dado and skirting and facing etc. in ground floor over 1/2 inch (13 mm) thick base of cement mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joints and washing the tiles with white cement slurry curing, finishing, cleaning and polishing etc. in internal work complete..				
	Ground Floor	600.00	Sft		
	1st Floor	600.00	Sft		
	2nd Floor	600.00	Sft		
	3rd Floor	600.00	Sft		
14	Providing and laying floor of 1 inch (25 mm) thick white marble tiles more than 3 Sq.ft. upto 5 Sq.ft- (more than 0.28 Sq.m upto 0.46 Sq.m) size fine dressed on the surface, without winding in ground floor over 1 inch (25 mm) cement mortar 1:2 (one cement, two sand) setting the marble tiles with grey cement slurry over cement mortar, jointing and washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete including the cost of mortar.				
	Ground Floor	740.00	Sft		
	1st Floor	740.00	Sft		
	2nd Floor	740.00	Sft		

Item #	Brief Description of Item	Estimated Quantity	Unit for Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
	3rd Floor	740.00	Sft		
15	Providing and laying floor of 3/4 inches (19 mm) thick black/green Granite stone Pakistani Original more than 5 sq. ft. upto 7 Sq. ft. (0.46 Sq.m. upto 0.65 sq.m.) size fine dressed on the surface without winding in ground floor over 1 inch (25 mm) cement mortar 1:4 (one cement, four sand) setting the marble tiles with grey cement slurry including curing rubbing and polishing etc. complete, including the cost of mortar. as per direction of Engineer Incharge.				
	Ground Floor	240.00	Sft		
	1st Floor	240.00	Sft		
	2nd Floor	240.00	Sft		
	3rd Floor	240.00	Sft		
16	Extra for making nosing of treads as per design and instructions of the Engineer-in-Charge ..	1780.00	Rft		
17	Providing and laying Floor of 6mm (approx: 1/4") thick coloured glazed tiles More than 1 sq.ft upto 2 sq.ft. of master make (Pakistani) first grade laid over 1" (25mm) thick cement mortar 1:2 (1 cement and 2 sand) including jointing and washing the tiles with white cement slurry a matching colour (by using pigment in white cement) and curing etc. complete.				
	Ground Floor	920.00	Sft		
	1st Floor	920.00	Sft		
	2nd Floor	920.00	Sft		
	3rd Floor	920.00	Sft		
18	Providing and fixing 1/4 inches or 6.4 mm (approx.) thick approved Pakistani make white / coloured glazed tiles upto 1.50sq feet to 3. sq. ft size in dado and skirting, over 1/2 inch (13 mm) thick base of cement mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joints and washing the tile with white cement slurry curing and cleaning etc. complete .				
	Ground Floor	2080.00	Sft		
	1st Floor	2080.00	Sft		
	2nd Floor	2080.00	Sft		
	3rd Floor	2080.00	Sft		
19	Providing and fixing cement tiles 12" X 6" X 3/4" (152 mm X 152 mm x 19 mm) in dado and skirting in approved dark shade over 1/2 inch (13 mm) thick base in cement mortar 1:3 in ground floor setting of tiles in slurry of grey cement over mortar base, including filling of joints and washing the tiles with cement slurry of the matching colour curing,	2640.00	Sft		

Item #	Brief Description of Item	Estimated Quantity	Unit for Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
	grinding, rubbing and polishing etc. complete.				
	Note:- 1) For all plasterwork 50% approved Lawarencepur sand 50% approved local complying with specified gradation limits shall be used.				
	2) All non-compression joints between concrete and masonry shall be specially treated before plastering, as under:-				
	3) A 8 inch wide heavy gauge approved quality expanded metal strip shall be tightly fixed centrally over the joint with 1 inch steel nails 12 inches centre to centre longitudinally on both side of joint.				
	4) Rates for all kinds of plaster include the cost of labour as well as the materials related to providing/fixing this expanded metal and no separate/additional payment shall be made for this work/item.				
20	Provide, apply, finish smooth, cure, etc. ½" thick 1:5 cement sand internal plaster to wall upto any height etc. complete.				
	Ground Floor	2040	Sft		
	First Floor	2040	Sft		
	2nd Floor	2040	Sft		
	3rd Floor	2040	Sft		
21	Provide, apply, finish smooth, cure, etc. 3/8" thick 1:3 cement sand ceiling plaster, complete up to any heigh.				
	Ground Floor	60	Sft		
	1st Floor	40	Sft		
	2ndFloor	40	Sft		
	3rd Floor	40	Sft		
22	Provide, apply, finish smooth, cure, etc. ¾" thick 1:4 cement sand external plaster, complete upto any heigh.				
	Ground Floor	180	Sft		
	1st Floor	140	Sft		
	2nd Floor	140	Sft		
	3rd Floor	1000	Sft		
23	Plastering 3/4" (19 mm) thick in patches in cement sand mortar 1:4 including curing and scraping old damaged portion in regular shape and removal of rubbish from the site etc. complete as per direction of Engineer-in-Charge in any floor.				
	Ground Floor	600	Sft		
	1st Floor	180	Sft		
	2nd Floor	300	Sft		
	3rd Floor	3500	Sft		
24	Cement rendering on all kind of cemented and plastered surface				

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	including rubbing smooth complete with curing etc. in ground floor.				
	Ground Floor	200	Sft		
	1st Floor	200	Sft		
	2nd Floor	200	Sft		
	3rd Floor	200	Sft		
25	Providing and laying out Termite proofing in foundations, under floors and wood work surface with a solution using of confront TC with water and spraying the solution of the area to be treated as completed as per direction of Enmgineer Incharge.	23040	Sft		
26	Providing and fixing 1½" thick hollow flush shutters with and including the cost of commercial plywood facing 3.7 mm thick on both faces fixed over best quality deodar wood frame according to drawing including ½" thick best quality deodar wood lipping on all sides including the cost of approved quality rough and finish hardware, fittings and fixtures like hinges, tower bolts and handles etc. all as shown in drawings for doors etc., but excluding the cost of door lock, sliding bolt, door holder and kick plate paid separately.	392	Sft		
27	Proving & fixing kitchen wall cabinet making of shutter board box & ¾" thick high glass lamination lasani shutter , PVC beading , PVC sheet backing of approved design etc. fixed with rawal plugs,screws i/c the cost of glue iron nails hings, handles etcas per drawing. complet the as per direction of engineer incharge.	1392	Sft		
28	Providing and fixing Haps and Staples C.P. brass 4" long.	32	Each		
29	Providing and fixing approved C.P brass handles 5" size, heavy type.	32	Each		
30	Providing and fixing approved chromium plated brass sliding (aldrop) bolts 9" x 5"/8" with necessary chromium plated brass screw and galvanised iron bolts and nuts.	32	Each		
31	Providing and fixing on door frame etc. with sunken iron screw best quality deodar wood moulding/ beading/ architrave etc. of approved design (2¼" x 5/8" x 3/8" Taper), as per drawing complete.	1680	Rft		
32	Providing and fixing 1-1/2 inches (38 mm) thick best quality deodar wood wire gauze shutters fully wire gauzed with galvanized iron wire gauze of 24 gauge and 12 mesh to an inch (25 mm) with	392	Sft		

Item #	Brief Description of Item	Estimated Quantity	Unit for Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
	approved iron butt hinges, spring hinges, tower bolts etc., as required .				
33	Replacing G.I. wire gauze of 22 gauge and 144 mesh per Sq.inch including replacing the beading where necessary with best quality deodar wood of existing design and section with iron screw including dismantling wire gauze etc. and removal of rubbish as required .	280	Sft		
34	Proving & fixing ward robe 24" deep consisting 19 mm thick laminated sheet on bottom , top sides partition shelves & shutters etc and 4 mm thick pressed on back side, 2-1/2" x1-1/4" best quality deodar wood frame and all open edges filled 3/4" molding PVC gola complete i/c thecost of glue iron nails screws, heavy type piano hings, 1/2" handle, catcher, locks etc, complet the as per direction of engineer incharge.	1600	Sft		
35	Providing and fixing cupboard frame 2-1/2" x1-1/4" deodar wood and 3/4" thick lasani lamination sheet shutter with PVC gola and lacquer polish frame alongwith hanging rod, handle or catcher complete in all respect as per direction of Engineer Incharge.	4480	Sft		
36	Providing and fixing fully glazed Bronze anodized or powder coated aluminium Sliding windows as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators), prime model box section 101mm x 30mm and 2mm thick including the cost of aluminium netting ,fittings, with all accessories cutting hole etc. and making good damages to walls etc. complete as required in any floor as per direction of engineer-in-charge, including provding and fixing of Tinted glass panes 6mm thick also including the cost of labour in any floor at any height.	3200	Sft		
37	Providing and fixing Plaster of Paris 19 mm thick falls ceiling l/c Aluminum T and L angle 1" x 1" i.c hanger clips jointing clips and g.I. Wire etc complete as required in any floor.	4400	Sft		
38	P/F 1-1/2 Inch(38 mm) thick best quality PVC/UPVC door shutter panelled (approved design), approved iron hings and tower bolt, etc. as required.	1120	Sft		
39	Provide & fix M.S. grills in 3/8" x 3/8" squar flat iron or M.S. Bar to windows/ventilators etc., complete, including welding, grinding and finishing	800	Kg		

Item #	Brief Description of Item	Estimated Quantity	Unit for Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
	as per Specs. Clause 10.5 i/c one coat of red oxide paint (Fixed at site as per Engineer Incharge instruction).				
40	Providing and fixing M.S. moulded steel door frames of 5.73" x 2-1/2" (146 mm x 63 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to B.S.S. 1245 having a double rebate size 1- 1/2" x 1/2" (38 mm x 12 mm) provision of 3 Nos. M.S. plate, section 1- 1/2" x 1/4" (38 mm x 6 mm) (2 Nos. 6 inch long welded with frame at not less than 10 points and 1 Nos. 12 inch long welded with frame at not less than 20 points), with holes and threads for fixing steel hinges, fitted with one locking box of same sheet (point welded inside the frame), 6 Nos. 6 inches long flat iron fixing lugs of 1-1/4" x 3/16" section, 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 as directed by the Engineer-in-Charge	1400	Rft		
41	providing & fixing 2" dia stainless steel pipe (18 gauge) railing alongwith 4 Nos 3/4" dia parallel pipe having S/S pipe vertical post 2" dia at 3 ft c/c average spacing and 4" dia vertical post at start turning and end point including cost of labour, welding charges fitting & fixing in marble floor and wall etc complete as per direction of the Engineer Incharge.	480	Rft		
42	Providing and fixing single leaf steel doors made to crittal or equivalent standard and of approved sections fully panelled with M. S. Sheet of 16 gauge painted with two coats of red oxide paint including using approved brass section oxidized fitting iron lugs, cutting holes and making good damages to walls etc. complete as required in any floor.	20	Sft		
43	Provide and apply enamel painting with ready mix paint of Dulux/Robbialac make, 3 coats over and i/c the coat of priming/filling/finishing, complete at any height in any floor as per specifications, on.-				
	a) Wood work.	1600	Sft		
	b) Steel work i/c grills and plastered surfaces	800	Sft		
44	Providing/applying 3 coats of ICI weather Shield paint to plastered surface in approved colour/shade and according to the approved colour scheme. The surface is to be properly	5000	Sft		

Item #	Brief Description of Item	Estimated Quantity	Unit for Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
	prepared by rubbing, sand papering, cleaning, filling and making smooth before applying the priming coats, complete as directed any height at any floor.				
45	Repainting two coats with vinyl distemper ready mixed paint of approved Dulux/Robbialec/Paintex make and shade to palstered surface etc. i/c sand papering, filling (where requird) the surface as directed by the Engineer Incharge, in any floor.	94000	Sft		
46	Repainting two coat with enamel paint of approved make & shade (Robbilac) i/c cleanin, scraping thd old surface.				
	i). Wood Work	14600	Sft		
	ii) Plaster Surface	1200	Sft		
47	Repainting two coats with weather shield paint of (ICI) Dulux make and shade on graphic surface/ plaster surface (External) i/c cleaning, flling (where required) and sand papering the surface as directed by the Engineer Incharge.	40000.00	Sft		
48	Scraping, rubbing and cleaning white-wash, colour wash and oil-free distemper including removal of rubbish etc. as per direction of the Engineer-in-charge complete in all floors .	94000	Sft		
49	Removing of existing and P/Fixing of water closet ICL/forte make orisa-900 white export Qty with low down golden (Plastic) plushing cistern 3 gallon capacity i/c syhonic fitting 1/2" dia C.P brass stop cock (Master/Faisal) C.P connection 1-1/2" dia G.I flush pipe with extra bend length fitting clamp P-Trap etc complete	32	Each		
50	Providing and fixing Pakistani best quality European style white glazed earthenware W.,C pan complete with and including the cost of plastic seat and buffers, 13.6 litres best quality low level plastic flushing cistern with internal fittings complete, P.V.C flushing pipe with fittings and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4..	32	Each		
51	Providing and fixing 25 inches x 18 inches (635 mm x 457 mm) lavatory basin in white glazed earthenware (Pakistani) complete with and including the cost of Brass oxidized bolts kit built into wall /2 inch (15 mm) dia. Chrome plated mixer 1-1/4" inches (32mm) rubber plug and chrome plated brass	64	Each		

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	chain, 1-1/4 inches (32 mm) dia brass waste of approved pattern, 1-1/4 inches (32 mm) dia. Malleable iron or C.P. brass traps malleable iron or brass unions and making requisite number of holes in walls plinth and floor for pipe connections and making god in cement concrete 1:2:4.				
52	Extra over item above for providing and fixing matching white glazed earthen ware pedestal ICL/Forte make, export quality.	64	Each		
53	Extra over item above for providing single hole chromium plated mixer tap 1/2" dia Magna make, instead of the pillar cock i/c P/F one additional C.P. Brass stop cock (Magna make) complete.	64	Each		
54	Providing and fixing 24" x 18" mirror of imported Belgium glass 5mm thick or equivalent as approved, with complete fixed to wall with spacers using C.P. clamps & screw 2" long complete.	64	Each		
55	Providing and fixing bath room accessories of set of 6 pieces consist of one shelf, one towel rod with bracket, one towel ring, one soap dish, one tooth Brush holder with glass, one tissue paper holder one double hook etc complete of approved quality as per direction of Engineer in-charge.	64	Each		
56	Providing and fixing un platisized polyvinyl chloride pipe (U.P.V.C) "D" class (Acid Proof) of "Dadex" with specials and clamps etc, including cutting and fitting complete with and including the cost of breaking through walls and roof and making good etc., after cleaning the pipe and cartage within 10 miles (16.09 km).				
	i) 6" dia	40	Rft		
	ii) 4" dia	3460	Rft		
	iii) 3" dia	960	Rft		
	iv) 2" dia	280	Rft		
57	Providing, fixing, jointing, testing and disinfecting good quality G.I. Pipes and specials i.e. Sockets, Tees, Elbows, Bends, Cross, Reducers, Clamps, Nipples, Plugs and Unions etc. including two coats of approved bitumastic paint on concealed lines and enamel paint on surface lines, for:- Water pipelines burried in trenches, under floor or suspended from slab and duct or chased in walls i/c repair of chases and ducts where required, complete.-				
	ii): 3/4" dia (ILLM)	320	Rft		
	iv): 1 1/2" dia(ILLM)	600	Rft		

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	v): 2" dia(ILLM)	600	Rft		
58	Providing and fixing gun metal full way heavy duty gate valves for water, (Asia/Anwar/Bag) with wheel, threaded ends, complete as specified and as approved and replacing the old one.				
	i): ¾" dia	8	Each		
	ii): 1" dia	8	Each		
	iii): 1-1/4" dia	8	Each		
	iv): 1½" dia	16	Each		
59	Providing and fixing approved quality stainless steel sink 33" x 18" Pak made (Atlas) complete with brass oxidized bolt kit/angle iron brackets built into walls ½" dia CP sink mixer 1-1/4" rubber plug and CP brass chain 1-1/4" CP brass waste 1-1/4" dia malleable iron or CP brass bottle trap with malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	32	Each		
60	Providing and fixing floor waste 6"x6" (stainless steel) Jali etc. complete.	160	Each		
61	Providing and fixing 1/2 inches dia. (15 mm) CP bib cocks.	64	Each		
62	Providing & fixing chromium plated double bib-cock with Muslim Shower of approved quality.	32	Each		
63	Providing and PPRC pipe PN-20 with specials, and clamps etc, including cutting and fitting complete with and including the cost of breaking through walls and roof and making good etc; after cleaning the pipe and cartage within 10 miles, (Internal)				
	i) 25 mm dia	2300.00	Rft		
	ii) 32 mm dia	3800.00	Rft		
	iii) 40 mm dia	200.00	Rft		
	iv) 50 mm dia	600.00	Rft		
64	Providing and fixing standing wall shower of CP brass 3 knobs of approved quality mixer unit and moveable shower head complete..	64.00	Each		
65	Providing R.C.C. pipes and collars of class 'B' and fixing in trench including cutting, fitting and jointing with maxphalt composition and cement mortar (1:1) and back filling the excavated material in trench including testing with water to a pressure head of 50 feet (15.24m) and cartage within 10 miles (16.09 km).	0.00			
	i) 6 inches (150 mm) dia. pipe..	120.00	Rft		
	ii) 9 inches (150 mm) dia. pipe..	420.00	Rft		
	iii) 12 inches (150 mm) dia. pipe..	260.00	Rft		
66	Providing and laying 1:2:4 cement concrete khuras 2" (51 mm) thick 2 ft. x	8.00	Each		

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	2 ft. (610 mm x 610 mm) size on roof including finishing with cement plaster 1:4, curing etc. complete.				
67	Providing manhole type 'B' size 3 feet x 2-1/2 feet or 914 mm x 762 mm (inside dimensions) x 4 feet (1219 mm deep as per approved design and specifications complete for 4 inches to 12 inches (100 mm to 305 mm) dia. Pipe 4 feet to 7 feet-5 inches (1.22 m to 2.26m) depth with 18 inches (457 mm) dia. (inside) cast iron cover and frame (weights 1 Cwt. 3 Qrs.) or 88.9 kg, fixed in R.C.C.1:2:4 slab 6 inches (152 mm) thick, 9 inches (229 mm) thick burnt brick masonry walls set in 1:4 C.M., 6 inches (152 mm) thick 1:3:6 C.C. in foundation, 1:2:4 C.C. in benching and 1/2 inch (13 mm) thick cement plaster in 1:3 C.M., to all inside wall surfaces, channels and benching etc. and to top including providing and fixing cast iron foot rest at every foot of depth and making requisite number of main and branch channels but excluding the cost of excavation, back filling, disposal of excavated stuff, manhole cover and frame.	24	Each		
68	Add for extra depth beyond 4 feet (1.22 m) and upto 7 feet-5 inches (2.26 m) for 'B' type manholes including cost of cast iron foot rest at every foot (305 mm) of depth (for depth lesser than 4 feet or 1.22 m deduct at the same rate)...	240	P.Inch		
69	Providing and fixing 4" (100 mm) dia polyvinyle chloride rain water (PVC) down pipe with mild steel clamps, bolts and nuts fixed in cement concrete 1;2:4 etc. complete ...	360	Rft		
70	Providing and fixing 4" (100 mm) dia polyvinyle chloride (PVC) sockets for rain water down pipe	40	Each		
71	Providing and fixing 4" (100 mm) dia polyvinyle chloride (PVC) bend of any degree for rain water down pipe with clamps, bolts and nuts in cement concrete 1:2:4 etc. complete..	16	Each		
72	Providing and fixing ball valve (with PVC Ball) made to B.S.S. 1212.....				
	1-1/4 inches	32	Each		
	1-1/2 inches	16	Each		
	2 inches	16	Each		
73	Providing and laying terrazzo floor 1-3/4 inches (44 mm) thick consisting of 3/4 inch (19 mm) thick topping 1:2 (1 white cement 2 approved marble chips No. 0 to 6) over a base of 1:2:4 (one cement, two sand and four screened graded	0.00			

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	bajri) cement concrete 1 inch (25 mm) thick laid in panels or pattern including form work, curing, cutting, rubbing and polishing etc, complete...				
	Roof Top	7400.00	Sft		
74	Providing and laying 1/2" (13mm) thick marble patties (panel strips) up to 1-1/2" (38 mm) depth in floor and dado of any description in all floor.	1900.00	P/Rft		
75	Removing cement plaster of any thickness from walls and roof and disposing of the rubbish etc. from site as directed .	600	Sft		
76	Dismantling of flooring tiles floor, Dado or skirting i/c base mortar and stacking salvaged material and disposing of surplus stuff complete.	6000.00	Sft		
77	Dismantling of brick masonry in cement mortar including, stacking salvaged material (serviceable) and disposal of surplus material complete.	600.00	Cft		
78	Dismantling of RCC i/c separating Reinforcement from concrete i/c stacking at site and disposing of unserviceable material.	600	Cft		
79	Dismantling cement concrete work in foundation, basement, plinth and ground floor i/c disposing of the material complete.	600	Cft		
80	Taking out door and window frames with or without hold fasts in ground floor including cutting walls, stacking salvaged material (serviceable) and disposing of unserviceable material as directed.	428	Each		
81	Taking out carefully shutters of doors and windows in ground floor and stacking as directed within three chains (91.5 m).	428	Each		
82	Dismantling terracing of mud phuska 3" (76 mm) average thickness covered with bricks or tiles at roof top including stacking salvaged material (serviceable) and disposing of unserviceable material as directed within three chains (91.5 m).	6000	Sft		
83	Dismantling rain water pipe including clamps and specials and stacking serviceable material, disposal of unserviceable material as directed within three chains (91.5 m).	2000	Rft		
84	Dismantling cement concrete sheet, or its equivalent partition walls with wooden beading including stacking salvaged material (serviceable) and disposing of unserviceable material as directed.	1120	Sft		

Bill # 2: Electrical Works/Gas Installation

Item #	Brief Description of Item	Estimated Quantity	Unit of Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
	Note:- i) All work concerning Electricity shall be executed in accordance with the contract specification and the requirement of WAPDA by an electrical licensed Subcontractor. Upon completion, all work shall be tested and a test report submitted in accordance with the requirements/specification of WAPDA. The contractor shall also be responsible for having the work cleared/approved from WAPDA.				
	ii) All cables must be of FAST, GM or NEWAGE.				
	iii) All switches, sockets, power points, light points etc. must be of PPI-Premier Plastic Industries.				
1	Wiring of light/fan points wired with 3/029 insulated cable run in 18 SWG gauge black enamelled steel conduit recessed in walls, columns, ceiling, floor etc. including all accessories such as junction boxes, outlets etc. as required and 14 SWG bare copper conductor all controlled by one 5 Amps. 250 volts on - off switch including cost of conduit and cables etc., but excluding the cost of switch.	544	Point		
2	Wiring of power plug switch wired with 7/036 (4mm ²) PVC insulated cable run in 18 SWG black enamelled steel conduit recessed in walls, columns, ceiling, floor etc., including all accessories such as junction boxes, outlets etc., as required and 14 SWG bare copper conductor all along the length of the conduit and controlled by one 15 Amps. 250 V MCB, cost including conduit and cable etc., but excluding the switch and M C B.	128	P/Rft		
3	Wiring for sub-main with 2x 1.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4")dia uPVC conduit recessed in the wall, column and roof etc including 1mm ² PVC insulated wire single core wire as ECC as required.	1600	P/Rft		

Item #	Brief Description of Item	Estimated Quantity	Unit of Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
4	Same as Item E-1, but circuit wiring wired with (2.5 mm2) 7/0.029 single core PVC cable.	224	P/Rft		
5	Supply, installation, testing & commissioning of exhaust fans with best quality(copper winding) approved steel shutter complete in all respects, i/c ceiling rose. Fan shall be latest model of Pak or Asia make and replacing the old one.	0			
	i): 12" sweep with approved heavy guage steel shutter	32	Each		
	ii): 8" sweep Plastic body	64	Each		
6	Providing & fixing Polycarbonate flame retardant Click type Fan dimmer of all any sweep with fancy "Ivory" gang plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (MATRIX / SOK / TJ SERIES/TRUST make)	96	Each		
7	Providing & installing 140 Cm (56") sweep ceiling fan with blades, canopy, standard length of down rod including connection with 14.0076" flexible wire complete as required. (without regulator) Pak, Royal, GFC, Younas, Millat.	96	Each		
8	Supply & fixing 50mm (2") dia. PVC conduit with all special such as bends, sockets, junction etc. recessed in the wall or floor as required.	480	P.Rft		
9	Providing & fixing 10 Amps Polycarbonate flame retardant S.P switch with fancy "Ivory" gang plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (MATRIX / SOK / TJ SERIES/TRUST make)	544	Each		
10	Providing & fixing 10 Amps Polycarbonate flame retardant 2-Pin socket with fancy "Ivory" gang plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required.(MATRIX / SOK / TJ SERIES/TRUST make)	192	Each		
11	Providing & fixing 10 Amper Polycarbonate flame retardant universal/schuko socket with fancy "Ivory" gang plate fixed on die fabricated, powder coated, metal	224	Each		

Item #	Brief Description of Item	Estimated Quantity	Unit of Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
	board recessed in the wall or column including connection as required. (MATRIX / SOK / TJ SERIES/TRUST make)				
12	Ditto as above but 15 Amps. 3 pin plug.	64	Each		
13	Providing & fixing 10 Amps Polycarbonate flame retardant Bell Push with fancy "Ivory" gang plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required.(MATRIX / SOK / TJ SERIES/TRUST make)	32	Each		
14	Providing, Installation, Testing & Commissioning of LED Tube / Batten Lights including driver having warm / Neutral White / cool white colour,80-90 lm/watts efficiency, 0.9 or above power factor, 10000-15000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge.				
	i) 2 Feet 18-20 Watts	160	Each		
	ii) 4 Feet 18-20 Watts	224	Each		
15	Providing, Installation, Testing & Commissioning of recessed / surface mounted ceiling lights / downlights including driver, having warm / neutral white / cool white colour, 80-90 lm/watts efficiency, 0.9 or above power factor, 20000 - 25000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge.				
	4 - 5 Watts Phillips	256	Each		
16	Wiring for sub-main with 2x 3/.029" PVC insulated wire 250/440 volts grade, single core copper conductor wire in 20 mm (3/4")dia uPVC conduit fitted on surface as required.	20	Meter		
17	Providing & fixing Cubical type metal sheet Distribution board with locking arrangement as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required.	216	Sft		
18	Providing & fixing 6 to 32 Amps, S.P MCCB fixed on existing board , I/c inter-connection as required.	384	Each		

Item #	Brief Description of Item	Estimated Quantity	Unit of Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
	Original Schneider/LS as Engineer Incharge.				
19	Providing & fixing 6 to 32 Amps, DP MCCB fixed on metal board recessed in the wall duly covered with fiber sheet, l/c inter-connection as required.	80	Each		
20	Providing & fixing 10 to 60 Amps,(High Breaking Capacity) T.P MCCB fixed on existing board , l/c inter-connection as required.	8	Each		
21	Supply & drawing of 1.5 mm ² , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.	800	P/Rft		
22	Wiring for sub-main with 4 core,1.5mm ² , stranded copper conductor, PVC insulated & PVC sheathed cable in 20mm (3/4") dia high pressure, 'E' class uPVC conduit buried in ordinary soil at the depth of 0.5 meter from ground level as required.	280	P/Rft		
23	Providing & fixing 13 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(Schneider / Philips)	224	Each		
24	Providing & fixing 15 Amps Polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required.(Schneider / Philips)	128	Each		
25	Providing & fixing pilot lamp set fitted on existing board l/c connection as required.	8	Set		
26	Providing & fixing of 16x16 mm uPVC duct fitted on surface as required.	1200	P/Rft		
27	Hand painting of Wall/Floor/ surface/Recessed type Panel /Distribution board complete with its all side with two cots of superior quality paint as required.	200	Sft		
28	Providing & fixing Submersible pumping set comprising of submersible pump with 3 HP 2850/2900 RPM, 220/230 V AC electric motor capable to discharge 500 US GPH (Gallons per Hour) of clear water at head of 280 to 350	4	Each		

Item #	Brief Description of Item	Estimated Quantity	Unit of Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
	ft, including erection clamp, cable clamp, non return valve, motor control unit, complete in all respect as approved by the engineer incharge as required.				
29	Wiring of TV / CCTV etc., Cable with RG-7 in existing PVC conduit/duct i/c BNC connectors complete in all respect suitable for the required length as approved by the Engineer Incharge (Superior quality)	660	P/Mtr		
30	Supply & fixing 20mm (3/4") dia uPVC conduit with all especial such as bends, sockets, Junction etc recessed in the wall or column as required.	480	P/Mtr		
31	Providing & fixing centrifugal pumping set complete with AC 5 HP 2850/2900 RPM 380/400V 50 cycle 3 phase AC motor with centrifugal pump having suction & discharge 2 x 1 1/2 " coupled on a common base plate as approved by the engineer incharge as required.	4	Each		
32	Providing & fixing manual operated star delta starter suitable for 5-10 HP AC.3 Phase50 cycle supply up to 12/25 Amps trip rating on a prepared board.	4	Each		
33	Providing & fixing Direct on line starter suitable for single phase 220 volts 50 cycle supply suitable up to 2 H.P TRIPPING RATING 3/10 Amps on a Prepared board	4	Each		
Gas Installations:					
	Note:- All work concerning Sui Gass shall be executed in accordance with contract specification and requirements of the Sui Northern Gas Company by a Sub-contractor duly approved/licensed by the Sui Northern Gas Company. All work shall be tested and a test report submitted in accordance with the requirements of Sui Company. The contractor shall also be responsible for having the work cleared/approved from the Gas Company as and where necessary.				
34	Providing & Fixing low pressure G.I. pipe (Medium) with special such as bend, Tee, Union, and socket etc. as required:				

Item #	Brief Description of Item	Estimated Quantity	Unit of Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
	i) 1/2"	40	Rft		
	ii) 3/4"	900	Rft		
35	Providing and fixing brass valve ball type screw both ends complete with steel handle washer/nut as required:				
	i) 3/4" dia	64	Each		
36	Providing and fixing Kitchen Hob superior quality complete in all respect of 3-burner 27" / 28" size auto ignition SS top i/c making necessary connection with gas line complete in all respect as approved by the Engineer Incharge	32	Each		
37	Providing, Installing, Testing & Commissioning of Dual Supply (Gas & Electric) Geysers (25 gallons), with fully automatic thermostat, complete in all respect, as approved by the Engineer Incharge	32	Each		

Bill # 3: Miscellaneous

Item #	Brief Description of Item	Estimated Quantity	Unit for Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
1	Removing & refixing of existing tuff tile i/c cleaning of hurbs and sharub dressing the existing floor tuff tile by cutting and filling with sand upto 3" depth including consolidation and watering complete, as par deriction of Engineer Incharge.	600	Sft		
2	P/F float switch to the over head water tank and connected to the existing water pump i/c floating swtich and electric wiring in PVC conduct.	16	Each		
3	Preparing the existing surface of wall/ceiling by applying priming coat including 2 coat wall putty of ICI, Dulux,Burger or approved manufacturer for paint/distemper, including rubbing, scrapping, sandpapering, filling holes making the surface good for paint/distemper.	94000	Sft		
4	Providing and Fixing Name/Indication Plates of 3d acrylic- 6mm front and back Laser CNC cutting finely Matt finished With Screw/Spacer fitting as per design approved by the engineer incharge	576	Sq. Inch		
5	Providing making and fixing aluminium casting powder coated	8	Each		

Item #	Brief Description of Item	Estimated Quantity	Unit for Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
	English alphabetical words of size 1/2" thick x 10" height and 1/2" thick x 18" high for two entrances name of the following department fixing at any floor at any height				
6	Proper cleaning of under ground/overhead water tank including removing of scale/fungus using proper manner/chemical at any height and any floor complete as per the direction and satisfaction of Engineer incharge	3200	Cft		
7	Removing of existing bath room accessories/ earthenware (Commode, Wash Basin, Bib Cocks, Tee cock, Shower Set Towel rail, Soap Dish, Toilet paper holder and Flushing Cistern etc) including the cost of removing of carefully handing over to directorate of works.	32	Job		
8	Providing and fixing Vectorian /Garden Bench made of Wrought iron base and main frame of 2"x1" 2Nos 16SWG pipe ,with 1-1/2"x1/4" flate iron ,Seshum Wood Purlen size 2.5"x1.25", Duly painted with 3 coat Enamel paint etc complete. as per sample of AIOU main Campus as approved by Engineer Incharge.	8	Each		
9	Providing, fabricating and fixing of manually operated vertical rolling blind frame system for verandah front, consisting of MS rolling shaft, side guide channels, top brackets, handle-operated mechanical rolling mechanism (gear type), bearings, clamps, MS supports, welding, fixing, priming and painting excluding the cost of cloth, complete in all respects as directed by the Engineer-in-Charge.	32	Job		
10	Providing, fabricating and fixing of floor-mounted cabinet comprising stainless steel frame made of SS rectangular hollow section 25 mm × 50 mm, 1.22 mm thick gauge, including internal stiffeners, complete with SS piano hinges, shutter board shutters fixed with approved fittings, all necessary brackets, screws, levelling arrangement, alignment, fixing, complete in all respects as	1080	Sft		

Item #	Brief Description of Item	Estimated Quantity	Unit for Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
	directed by the Engineer-in-Charge.				
11	Providing, fabricating and installing CNC-cut mild steel sheet of 18 SWG, with plane sheets of 18 SWG on sides fixed and welded on a fabricated frame of 1½" x 3/16" Angle, including CNC cutting as per approved design/pattern, fabrication of frame, welding, grinding, alignment, fitting, 3 coat painting i/c base coat at site, fixing with required anchor bolt, surface preparation, finishing, and all incidental works, complete in all respects as directed by the Engineer-in-Charge. (Face Area Will be measured).	1000	Sft		
12	Providing and applying termite proofing inside the building chemical component of (Agenda) drilling 18"to 24" @3sft . after filling the chemical capping the hole with C.S 1:2 ratio. complete and as per instructions of engineer in charge. (Area will be measured in Sft).	6400	Sft		
13	Providing & fixing S.S curtain railing pipe 1" dia 18swg i/c end cap, rings and hooks etc. of approved quality. Complete with all respect as directed by Engineer Incharge .	840	Rft		
14	Providing, laying, fixing and testing of vent cowel vertical/horizontal in wall, upvc, best quality dadex or master make, as approved by engineer complete in all respect.	56	Each		
15	Providing & Fixing Imported frosted glass paper to aluminum window, door etc as par approved pattern complete in all respect at any height & any floor.	3900	Sft		

Notes for Bidders

- (i) Cost estimation of above Bill of Quantities has been done using rates of Scheduled Items derived by Pakistan Public Works Department under its CSR 2022, whereas Non-scheduled Items have been costed based on Market Survey.
- (ii) The Employer has earmarked Provisional Sum(s) of Pak. Rs. 5.00 million for the execution of the assignment against unforeseen/additional work items, in addition to the cost that a bidder will offer in its Financial Proposal/Bid. Provisional Sums included and so designated in the Bill of Quantities which shall be included in the overall value of the contract, expended in whole or

in part at the direction and discretion of the Employer in accordance with Sub-Clauses 13.4 and 13.5 of the General Condition of the Contract.

- (iii) The Provisional Sum(s) shall be at sole discretion of the Employer and the Contractor shall have no legal claim of Provisional Sum(s) that shall be added in the contract's overall value as separate line item. It may not be necessary that Provisional Sum(s) would be used at all. In case of any unutilized provision of Provisional Sum(s), the same shall be considered subtracted from the contract's amount/provision.
- (iv) The Employer and the Contractor shall work out the valuation of the unforeseen/additional work items based on the item rates as per CSR 2022, derived by Pakistan Public Works Department Scheduled Items, if no corresponding rate is available in the contract. Whereas for Non-scheduled Items for which there shall be no rate available in the contract, the rate shall be drawn by employing Market Survey using at least three sources and adopting most economical costs. The commercial and technical specifications of such unforeseen/additional shall invariably be defined by the Employer.
- (v) Soft Copy of the Bill of Quantities has been uploaded at the website of the University (www.aiou.edu.pk) which the bidders may download for their ease.