

Bill of Quantities

SUMMARY

Bill #	Description	Total Amount (Pak. Rs.)
1	Civil Works	
2	Electricity	
	Grand Total	

Bill # 1: Civil Works

Item #	Brief Description of Item	Estimated Quantity	Unit of 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.	70	Cft		
2	Provide, mix, lay compact, level, finish and cure etc., lean concrete 1:4:8 using 1" down crush including formwork and its removal, complete in all respects.	30	Cft		
3	Providing and laying 4" (102 mm) thick not leaner than 1:2:4 cement concrete (minimum works cube crushing strength of 2250 Lbs. PSI (158 Kg. per Sq.cm. at 28 days) in road, paths, crete-ways etc. using graded screened bajri in panels of approved size laid to required gradient and camber over any sub-grade including cost of necessary form work and its removal, compacting with vibrators (immersion or screen or both) belting the surface with canvas belt, roughening the surface after laying concrete with brush and curing etc. complete..	100	Cft		
4	Provide, fill, compact, level, cure etc. 1:2:4 mass concrete in raise floor.	173	Cft		
5	Provide, lay, cure etc. first class burnt brickwork in foundation and plinth, 9" and over thick, set in 1:5 cement sand mortar, complete.	28	Cft		
6	Provide, lay, cure etc. first class burnt brickwork in walls in superstructure, including form work etc. complete:-				

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	a): 9" and over thick, set in 1:6 cement sand mortar				
	a) L.G. Floor / Ground Floor	15	Cft		
	b) First Floor	10	Cft		
	b): 4-1/2" thick, set in 1:4 cement sand mortar:				
	a) L.G. Floor / Ground Floor	41	Cft		
7	Provide, apply, finish smooth, cure, etc. 1/2" thick 1:5 cement sand internal plaster to wall upto any height etc. complete.	0			
	a) L.G. Floor / Ground Floor	100	Sft		
	b) First Floor	10	Sft		
8	Provide, apply, finish smooth, cure, etc. 3/8" thick 1:3 cement sand ceiling plaster, complete up to any height.				
	a) L.G. Floor / Ground Floor	9	Sft		
9	Provide, apply, finish smooth, cure, etc. 3/4" thick 1:4 cement sand external plaster, complete upto any height.				
	a) L.G. Floor / Ground Floor	352	Sft		
	b) First Floor	10	Sft		
10	Plastering 1/2" thick in patches in cement and 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.	100	Sft		
11	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	17	Rft		
12	Providing and fixing 1-1/2 inch (38 mm) thick best quality deodar wood shutters fully panelled with same wood, approved iron hinges and tower bolts, etc., as required..	16	Sft		

Item #	Brief Description of Item	Estimated Quantity	Unit of Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
13	Providing and fixing on door frame etc. with sunken iron screw best quality dedoar wood moulding/beading/architrave etc. of approved design (2-1/4" x 5/8" x 3/8" Taper), as per drawing (A-08 & Gen-01) complete.	36	Rft		
14	Rubbing and polishing old mosaic floor, dado and skirting in any floors.	5400	Sft		
15	Provide and fixing M.S. grills in 3/8" x 3/8" squar Bar to windows/ventilators etc., complete as per drawing including welding, grinding and finishing as per Specs. i/c two coats of red oxide paint (Fixed at site as per Engineer Incharge instruction).	30	Kg		
16	P/F windows roll blinds sunscreen, dark out, or translucent fabric any colour/shade best quality (Imported) with manual roll up arrangement complete in all respect with all other required accessories and hardware from the approved suppliers and manufactueres, as per direction of Engineer Incharge	672	Sft		
17	Provide and apply one coat of Dulux/Robbialac Primeon/ Alkali Resisting Masonry Sealer and minimum 2 coats of Dulux Special Plastic Emulsion or Robbialac VIP including surface preparation filling and rubbing etc., as per Specs. Section-6700-5, complete in all respects, upto any height at any floor	150	Sft		
18	Distempering with vinyl distemper (ICI) Dulux Paintex of approved make and shade in minimum two coats over and including the cost of one priming coat of lime wash including sand papering, dusting, and filling the holes, cracks and inequalities, if any, at any height in any floor.	100	Sft		
19	Provide and apply enamel painting with ready mix paint of Dulux/Robbialac make, 2 coats over and i/c the coat of priming/filling/finishing, complete at any height in any floor as per specification on:-				
	a): Wood work	50	Sft		
	b): Steel work i/c grills and plastered surfaces	20	Sft		
20	Repainting two coats with enamel paint (Robialac) of approved make and shade to wood work including cleaning and sand papering the surface as directed by the Engineer-in-charge in any floor.	750	Sft		

Item #	Brief Description of Item	Estimated Quantity	Unit of Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
21	Repainting two coats with enamel paint (Robialac) of approved make and shade to iron work including scraping and sand papering the surface as directed by the Engineer-in-Charge in any floor.	1000	Sft		
22	Repainting two coats with weather sheild paint of (ICI) Dulux make and shade on plaster surface (External) including cleaning , sand preparing the surface as directed by the Engineer-In-charge in any floor.	3300	Sft		
23	Distempering two renewal coats with vinyl distemper (Paintex ICI Dulux) of approved make and shade to walls and ceiling etc., including scraping cleaning the old surface in any floor.	16000	Sft		
24	Providing and installing suspended acoustic celing consisting of (imported as approved) mineral fibre tiles 2'-0" x 2'-0" x 13 mm metal grid framing of aluminium section having min. flange width of 15/16", in semi-matt white baked enamel finish, with perimeter anagles of same size, suspended by min. 8 gauge G.I. wire, placed maximum 6'-0" apart, the runners and placed cross members to be continuous, all duly leveled and set smooth, complete ad directed. Fixed with 3/8" dia Rawal Bolt at 3 Rft c/c	500	Sft		
25	Providing, laying, fixing, testing and disinfecting, polypropylene pipelines for cold and hot water supply as per DIN 8077/8078 PN-20 for pipe and DIN 16962 PN-25 for fittings or equivalent BS specification Dadex, Firat (Turkey make) or formul (Turkey make) make as approved by the Engineer Incharge complete in all respects to their entire satisfaction, including specials such as tee, cross, reducer, bend, union, elbow, plug, socket, etc., supported on walls or suspended from slab or run in chases including supports, cutting and making good the same as necessary to the structure, excavation and backfilling in layers complete in all respects.				
	ii) 25 mm o/d	150	Rft		
	iii) 32 mm o/d	150	Rft		
26	Providing and fixing un platized polyvinyl chloride pipe (U.P.V.C) "D" class (Acid Proof) of "Dadex" with specials such as bend Tee elbo reducer union floop trap etc. and clamps etc, including cutting and				

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	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).				
	ii): 4" dia	100	Rft		
	iii): 3" dia	100	Rft		
27	Providing and fixing best quality squatting type earthen ware W.C. pan (porta or equivalent) complete with and including the cost of 13.6 liter best quality low level plastic slushing cistern with internal fittings complete , PVC flushing pipe suitable for squatting type with extra bend and length with fittings, PVC trap 4 inches (100 mm) dia making requisite number of holes in walls, plinth & floor for pipe connection and making good in cement concrete 1:2:4	4	Each		
28	Providing and fixing best quality white glazed earthenware One piece toilet (commode) coupled with flush tank (Porta or equivalent) complete with and including cost of plastic seat with Buffers, with internal fittings complete.	4	Each		
29	Providing & fixing best quality earthen ware Wash hand basin including pedestal (porta or equivalent) standard size (white/light color) and including the cost of 1-1/4" rubber plug and chrome plated brass chain pvc waste pipe 1-1/4" dia of approved pattern etc. complete	5	Each		
30	Providing and fixing 24" x 18" mirror of imported Belgium glass 5mm thick or equivalent as approved, with plastic frame complete fixed to wall with spacers using C.P. screw 2" long complete.	5	Each		
31	Providing and fixing CP Mixer 1/2 inches (15 mm) (Faisal/Master or equivalent) lever type Paksitani complete in all respect.	5	Each		
32	Providing and fixing 1/2" dia C.P. bib cocks i/c c.p nipple (heavy duty) Faisal/Asia/Megna made, as approved.	5	Each		
33	Providing and fixing 1/2" dia C.P. T. Stop cocks i/c c.p nipple (heavy duty) Faisal/Sonex/Megna made, as approved.	20	Each		
34	Providing & fixing stainless steel floor trap grating (JALI) etc complete as par size.	6	Each		
35	Providing & fixing Chromium Plated Muslim Shower with double Bib cock & C.P ring Pipe etc complete Quality like, (Faisal/ Sonex/Magna) or equivalent.	5	Each		

Item #	Brief Description of Item	Estimated Quantity	Unit of Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
36	Providing and fixing bath room accessories of set of 7 pieces consist of one cosmetic shelf, one towel rod with bracket, one soap dish, one tooth brush holder with glass and cover, one tissue paper holder one double hook one towel ring etc complete of approved quality as per direction of Engineer in-charge.	5	Each		
37	Fixing floor traps of sizes with gratings including cutting and making the requisite number of holes in walls, plinth and floors and making good in 1:2:4 C.C..	5	Each		
38	Dismantling burnt brick masonry in lime or cement mortar foundation, basement, plinth and ground floor including stacking salvaged material (serviceable) and disposing of surplus material as directed within three chains (91.5 m)..	165	Cft		
39	Dismantling cement tiled floor, dado or skirting in basement, plinth and ground floor including base mortar and stacking salvaged material (serviceable) and disposing of surplus stuff as directed within three chains (91.5 m)....	1270	Sft		
40	Dismantling cement concrete work in foundation, basement, plinth and ground floor i/c disposing of the material complete.	150	Cft		
41	Providing manhole type 'A' size 2 feet x 1-1/2 feet or 610 mm x 457 mm(inside dimensions) x 2 feet (610 mm) deep as per approved design and specifications complete for 4 inches to 12 inches (100 mm to 305 mm) dia. Pipes upto 3 feet-11 inches (1.19 m) depth with 16 inches (406 mm dia.) (inside) cast iron cover and frame (weight = 1 Cwt. 1. Qtr.) (63.5 kg.) fixed in R.C.C.1:2:4 slab 4 inches (102 mm)(thick, burnt brick masonry walls 9 inches (229 mm) thick set in 1:4 cement mortar, 6 inches (150 mm) 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 walls surfaces channels and benching etc., and to top including making requisite number of main and branches channels but excluding the cost of excavation, back filling and disposal of excavated stuff, manhole cover and frame.	2	Each		
42	Add for extra depth beyond 2 feet (610 mm) and upto 3 feet-11 inches (1.19 M) for 'A' type manholes (for depth lesser	10	P.Inch		

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	than 2 feet or 610 mm deduct at the same rate)..				
43	Provide, lay, joint, cure, etc. 1" total thick glazed (glossy) ceramic tiles dado using "Master" (Supreme Quality) tiles of approved colour and shade in toilets, including ¼" thick neat cement buttering on back of tiles, remaining thickness made up with 1:3 cement sand rough base, complete "Size: 1.5 sq.ft to 3 sq.ft	1160	Sft		
44	P/F flooring comprising 1 square foot to 2 square foot of "Master" supreme quality non glazed skid free tiles of approved shade set in neat cement paste not exceeding ¼" thick and filling the joint with neat white cement slurry using matching colouring i/c ¾" thick base in 1:2 cement sand mortar laid over a bed of 1 ½" thick P.C.C 1:2:4 i/c cleaning & curing etc, complete.	340	Sft		
45	Providing & Fixing aluminum wire Guaze in existing Windows as par isctruction of Engineer Inchargecomplete. at any height & any floor.	500.00	Sft		
46	Providing & Fixing Imported frosted glass paper to aluminum window, door etc as par approved pateren complete in all respect at any height & any floor.	100.00	Sft		
47	Repair and Maintenance of aluminum doors/window including replacing of hinges catchers, rubber fixing etc complete.	500.00	Sft		
48	Replacing of 5 or 6 mm thick plain glass of the existing window/ventilators and skylights complet in all respect.up to any height.	100.00	Sft		
49	Providing & filling of Silicon in existing Windows/Door etc (Internal & External Both Side) but measurment will be in single side. as per direction of Engineer Incharge.	500.00	Rft		
50	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.	4.00	Each		
51	Providing and fixing approved quality C.P. Soap Dish Faisal, Porta & Sonex) or as approved by Engineer Incharge.	5.00	Each		

Bill # 2: Electricity

Item #	Brief Description of Item	Estimated Quantity	Unit of Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
	i) All cables must be of M/s Pakistan / Newage / GM / Fast / AGE Cable or as approved by Pak. PWD				
	ii) All switches, sockets, power points, light points etc. must be of PPI-Premier Plastic Industries.				
1	Wiring for light or fan point with (3/.029") PVC insulated wire in 20 mm ² , (3/4") dia uPVC conduit recessed in the wall, column, roof , including 1mm ² single core PVC insulated wire as ECC as required.	10.00	Point		
2	Extension/Additional wiring for light, fan ,call bell or light plug point, controlled with same switch with (3/.029") PVC insulated wire in 20 mm (3/4")dia uPVC conduit fitted on surface including 1 mm ² single core, PVC insulated wire as ECC as required.	2.00	Point		
3	Providing, Installation, Testing & Commissioning of recessed / surface mounted LED Panel light 34-36 watt (2'x2')(Paklite/Emax) including driver, having warm / neutral white / cool white colour, 80-100 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.	20.00	Each		
4	Providing, Installation, Testing & Commissioning of LED Tube / Batten Lights Sunlite, Pier lite, Futute technology/ orient 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.				
	4 Feet 18-20 Watts	5	Each		
5	Wiring for sub-main with 2x 3/.029", PVC insulated wire in existing or given all kind of conduit/ cable duct including 1mm ² PVC insulated wire single core wire as ECC as required.	10.00	mtr		
6	Wiring for sub-main with 2x 7/.029", PVC insulated wire in existing or given all kind of conduit/ cable duct including 1.5 mm ² PVC insulated wire single core wire as ECC as required.	10.00	mtr		
7	Providing & fixing 6 to 32 Amps, DP MCCB fixed on metal board recessed	1	Each		

Item #	Brief Description of Item	Estimated Quantity	Unit of Measurement	Unit Rate (Pak. Rs.)	Amount (Pak. Rs.)
	in the wall duly covered with fiber sheet, l/c inter-connection as required.				
8	Providing & fixing 6 to 32 Amps, S.P MCCB fixed on existing board , l/c inter-connection as required.	10	Each		

Note 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) 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.