



SUMMARY OF BID		
S. NO.	DESCRIPTION	TOTAL AMOUNT
1	Laboratory Building Civil, Electrical and Plumbing Works	
2	Virology and Utility Building Civil, Electrical and Plumbing Works	
	GRAND TOTAL	



**SUMMARY OF BILL OF QUANTITY FOR  
VIROLOGY AND UTILITY BUILDING**

<b>S. NO.</b>	<b>DESCRIPTION</b>	<b>TOTAL AMOUNT</b>
1	Laboratory Building Civil Works Schedule Items	
2	Laboratory Building Civil Works Non-Schedule Items	
3	Laboratory Building Electrical Works Schedule Items	
4	Laboratory Building Electrical Works Non-Schedule Items	
5	Laboratory Building Plumbing Works Schedule Items	
6	Laboratory Building Plumbing Works Non-Schedule Items	
	<b>GRAND TOTAL FOR VIROLOGY AND UTILITY BUILDING</b>	



SUMMARY OF BILL OF QUANTITY FOR LABORATORY BUILDING		
S. NO.	DESCRIPTION	TOTAL AMOUNT
1	Laboratory Building Civil Works Schedule Items	
2	Laboratory Building Civil Works Non-Schedule Items	
3	Laboratory Building Electrical Works Schedule Items	
4	Laboratory Building Electrical Works Non-Schedule Items	
5	Laboratory Building Plumbing Works Schedule Items	
6	Laboratory Building Plumbing Works Non-Schedule Items	
	GRAND TOTAL FOR LABORATORY BUILDING	



**CONSTRUCTION OF GROUND AND FIRST FLOOR LABORTORY BUILDINGS,  
HEJ RESEARCH INSTITUTE OF CHEMISTRY,  
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BILL OF QUANTITY		(PAK PWD SCHEDULE ITEMS-2012) CIVIL WORKS			
S. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	<b><u>EXCAVATION:</u></b> Excavation for foundation trenches and drains in all kinds of soils (except gravelly and murum soil, wet silt, clay or mud conglomeration of gravel and boulders, soft, sandy, or dsintegrated sandy and hard rock) and back filing the excavated material in foundation, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exeeding 9 inches (229 m) in depth to full compaction, dressing and disposal of surplus excavated stuff as directed, lead upto one chain (30.5 R.m) and lift upto 5 feet (1.52 m). Page # 17/1, 17/5.				
i)	Ordinary soil.	19875	%Cft	535.09	<b>106,349.14</b>
ii)	Hard Rock	19875	%Cft	2,410.85	<b>479,156.44</b>
2	<b><u>Providing &amp; Filling:</u></b> Approved quality earth in depressions with in a radius of 5 miles (8km) breaking clouds, leveling, dressing, wattering and consolidating in 6 inches (152mm) layers etc. complete including all lifts. Page # 19, item# 14	23000	%Cft	2,314.41	<b>532,314.30</b>
3	<b><u>D.P.C:</u></b> P/C 2" inches (51mm) thick damp proof course with cement concrete 1:2:4 cast in SITU using graded screened bajri of 3/4 Inch 19mm and down guage mixed with any approved water proofing agent including compecting curing form work and its removal etc. Complete but excluding the cost of water proofing agent .Page # 64, item # 3	1500	%Sft	2,659.79	<b>39,896.85</b>
4	<b><u>BAILING OUT WATER:</u></b> Bailing or Plumbing out sub Soil water during excavation concreting cost in site cencrete or mansony works in foundation etc. Only three operation to be allowed trend volumn under water to be measured first time to excavation second time for connectivity and third time for cost in site concrete or mansony work in foundation etc. Page# 22, Item # 40	90000	%Cft	298.35	<b>268,515.00</b>
5	<b><u>STONE SOLING:</u></b> Providing & Laying Soling Stone 6 to 9 inches (152 mm to 229 mm) size under floor including packing with spawly and chips and consolidating etc complete Page # 211, item # 1	3778	%Cft	3,251.34	<b>122,835.63</b>
6	<b><u>C.C. FLOOR:</u></b> Providing and laying 1:4:8 cement concrete bed under floors using graded stone ballest 2 inches (51 mm) and down gauge with leveling & ramming, watering and curing etc. complete. Page # 190/0	3778	%Cft	10,315.36	<b>389,714.30</b>



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S. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
7	<b><u>C.C.1:3:6 CAST IN SITU:</u></b> Provding and laying in situ 1:3:6 cement concrete in walls more than 6 inch (152 mm) in thickness in superstruture using screened graded bajri 3/4 inch (19 mm) and down gauge including compating, curing, cost form work and its removal etc. Complete in ground ground floor	551	%Cft	17,109.69	94,274.39
8	<b><u>R.C.C 1:2:4 FOUNDATION:</u></b> Providing and laying reinforced cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge having a minimum work cube crushing strenght of 2250 lbs. Per sq Inch (15.52 N/mm <sup>2</sup> ) at 28 days with mix not leaner than 1:2:4 in column footing of requiried shape including from work and its removal, compacting and curing etc. complete in foundation basement and plingth. Page # 135/1	13378	%Cft	16,626.18	2,224,250.36
9	<b><u>R.C.C 1:2:4 PLINTH BEAMS:</u></b> Providing laying reinforced cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 2250 lbs. Per sq. inch (15.52 N/mm <sup>2</sup> ) at 28 days with mix not leaner than 1:2:4 in plinth beams of requiried shape and design including from work and its removal, compacting and curing etc. but excluding the cost of reinforcement in foundation basement and plingth. Page # 136/8	2043	%Cft	17,284.23	353,116.82
10	<b><u>R.C.C COLUMNS:</u></b> Providing & laying reinforced cement concrete using crush graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3750 lbs. Per sq. inch and 28 days with mix leaner than 1:1 1/2: 3 in columns of square or rectangular shape of regular section including from its work or removal, compacting and curing etc. but excluding the cost of reinforcement in foundation basement and plingth. Page # 138/24, 156/136, 150/92				
i)	Ground Floor	1953	%Cft	23,343.45	455,897.58
ii)	First Floor	1953	%Cft	23,608.82	461,080.25



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S. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
11	<b><u>R.C.C BEAM &amp; LINTELS:</u></b> Providing and laying cement concrete using crush graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. Per sq. inch and 28 days with mix not leaner than 1:2:4 in straight beams lintels cantilever beams of requiried shape section including from its work or removal, compacting and curing etc. complete but excluding the cost of reinforcement. Page # 141/38, 156/136, 150/92				
i)	Ground Floor	1902	%Cft	22,030.50	<b>419,020.11</b>
ii)	First Floor	1902	%Cft	22,295.87	<b>424,067.45</b>
12	<b><u>SLAB &amp; PROJECTION:</u></b> Providing and laying cement concrete using crush graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. Per sq. inch and 28 days with mix not leaner than 1:2:4 in ordinary slab 5 inch to 6 inches thick, including from its work or removal, compacting and curing etc. complete but excluding the cost of reinforcement. Page # 144/56, 156/136, 150/92				
i)	Ground Floor	6363	%Cft	26,050.18	<b>1,657,572.95</b>
ii)	First Floor	6363	%Cft	26,315.55	<b>1,674,458.45</b>
13	<b><u>STAIRS:</u></b> Providing and laying cement concrete using crush graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. Per sq. inch and 28 days with mix not leaner than 1:2:4 in straight stairs and landing of required section, including from its work or removal, compacting and curing etc. complete but excluding the cost of reinforcement. Page # 143/50, 156/136, 150/92				
i)	Ground Floor	940	%Cft	26,050.18	<b>244,871.69</b>
ii)	First Floor	940	%Cft	26,315.55	<b>247,366.17</b>



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BILL OF QUANTITY		(PAK PWD SCHEDULE ITEMS-2012) CIVIL WORKS			
S. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
14	<b><u>STEEL REINFORCEMENT:</u></b> Providing and laying cold worked twisted ribbed steel reinforcement bars with minimum yield stress of 60,00 psi with and including the cost of straightening, cutting, bending, binding, wastage, complete in all kinds of RCC work. Page #159/68	110000	Kg	110.89	<b>12,197,900.00</b>
15	<b><u>BLOCK MASONRY:</u></b> Providing and laying 1:3:6 cement concrete solid machine made block masonry 4 to 6 inches (102 mm to 152 mm) thick using graded screened bajri 3/4 inch (19 mm) and down gaude set in cement sand mortar 1:6 including scaffolding raking out joints and curing etc. complete in frist floor superstructure. Page # 76/34, 81/92, 82/100				
i)	Ground Floor	4363	%Cft	15,752.92	<b>687,299.90</b>
ii)	First Floor	5684	%Cft	15,752.92	<b>895,395.97</b>
16	<b><u>GLAZED TILE FLOORS:</u></b> Providing and laying floor of 6 mm (approx:1/4") thick colored glazed tile 12" X 12" (304 mm X 304 mm) of master make (Pakistani) first grade in first floor 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 color (by using pigment in white cement) and curing etc. complete. Page # 196/63, 197/69	740	%Sft	18,554.73	<b>137,305.00</b>
(a)	Second Floor including stair tower.	740	%Sft	18,687.42	<b>138,286.91</b>
17	<b><u>GLAZED TILE DADO AND SKIRTING:</u></b> Providing and fixing 1/4" (6 mm approx) thick of Pakistani first grade colored glazed tiles 8" X 10" (203 mm X 254 mm) size in dado and skirting in first floor over 1/2" (13 mm) thick base of cement mortar 1:3 setting of tiles in slurry of grey cement over mortar base including filling the joint with white cement slurry to matching the color and washing the tile, curing and cleansing etc. complete. Page # 218/49, 218/51				
i)	Ground Floor	1140	%Sft	10,210.10	<b>116,395.14</b>
b)	First Floor	1140	%Sft	10,443.14	<b>119,051.80</b>



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BILL OF QUANTITY		(PAK PWD SCHEDULE ITEMS-2012) CIVIL WORKS			
S. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
18	<b><u>MS DOOR FRAMES:</u></b> Providing and fixing M.S. moulded steel door frames of 5.73" X 2-1/2" (146 mm X 63 mm) manufactures 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 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. Page # 240/44				
i)	Ground Floor	935	Rft	185.34	<b>173,292.90</b>
ii)	First Floor	935	Rft	185.34	<b>173,292.90</b>
19	<b><u>FULLY VENEERED SHUTTERS:</u></b> Providing and fixing 1-1/2" thick solid core deodar wood flushed veneered door shutters, with and including the cost of commercial plywood facing 3 mm thick (3 ply) on both faces, fixed over best quality deodar wood frame 2 inches wide around 6 inches wide lock rail and 2 nd class deodar wood solid core, including 1/4" thick best quality deodar wood lapping on all sides as per approved drawing, manufactured under power driven hydraulic press, including the cost of approved iron fitting but excluding the cost handles and locking arrangements. Page # 265/61-a				
i)	Ground Floor	406	Sft	571.68	<b>232,102.08</b>
ii)	First Floor	406	Sft	571.68	<b>232,102.08</b>





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S. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
20	Porviding and fixing with brass screws Alpa knob set lock of approved design (No. 7000) Japan make, cutting wood to required shape and size with two operating keys as per direction of the engineer - in - charge. Page 303/76				
i)	Ground Floor	25	Each	2,531.56	<b>63,289.00</b>
ii)	First Floor	25	Each	2,531.56	<b>63,289.00</b>
21	Provding and fixing with brass screws Alpa knob set bath latch of approved design No. 8000, Japan make, cutting wood to require shape and size with two operating keys as per direction of Engineer - in - charge. Page # 303/77				
i)	Ground Floor	7	Each	2,376.86	<b>16,638.02</b>
ii)	First Floor	7	Each	2,376.86	<b>16,638.02</b>
22	<b><u>DOOR CLOSER:</u></b> Provding and fixing with brass screws or specially supplied screws hydraulic door closer Rayobi or approved design and shape No. 72, Japan make, cutting wood etc to required shape and size as per direction of Engineer - in - Charge. Page # 303/70 Second floor including stair tower.				
i)	Ground Floor	18	Each	2,420.50	<b>43,569.00</b>
ii)	First Floor	18	Each	2,420.50	<b>43,569.00</b>
23	<b><u>SPIRIT POLISHING:</u></b> Applying French or spirit polishing, two coats of approved make on wood work at any height in any floor. Page # 336/89-90				
i)	Ground Floor	850	%Sft	3,193.92	<b>27,148.32</b>
ii)	First Floor	850	%Sft	3,193.92	<b>27,148.32</b>
24	<b><u>PLAIN GLASS:</u></b> Proving and fixing plain glass planes 5 mm thick to M.S. Box Pipe / Aluminum doors, windows and ventilator etc including the most cost of labor but excluding the cost of M.S square pipe beading, rubber packing and screw in any floor at any height. Page # 254/119				
i)	Ground Floor	1800	Sft	88.91	<b>160,038.00</b>
ii)	First Floor	1800	Sft	88.91	<b>160,038.00</b>



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S. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
25	<b><u>ALUMINUM SLIDING WINDOW:</u></b> Providing and fixing fully glazed bronz anodized aluminum slizing window as per british standard manufactured by lucky, Alcop, Krusdon, Pakistan cable and A.C.P. (fixing through their approved fabricators), Executive model section double or single glazed 101 mm x 37 mm and 1.6 mm thick including the cost of aluminum netting, fitting, with all accessories cutting hole etc and making good damages to wall etc. complete as required in any floor as per direction of engineer - in - charge but excluding the cost of glass panes. Page # 245/71				
i)	Ground Floor	2238	Sft	683.72	<b>1,530,165.36</b>
ii)	First Floor	2238	Sft	683.72	<b>1,530,165.36</b>
26	<b><u>PLASTER (CEILING):</u></b> 1/2" (13 mm) thick cement plaster 1:3 on ceiling, walls and columns etc.. In basement, plinth, first and ground floor including making eges, corns and curing etc, complete. Page # 320/3, 327/87				
i)	Ground Floor	16697	%Sft	2,237.47	<b>373,590.37</b>
ii)	First Floor	16697	%Sft	2,237.47	<b>373,590.37</b>
27	<b><u>PLASTER (EXTERNAL):</u></b> 3/4" thick cement plaster 1:6 on walls and columns etc. in basement, plinth, first and ground floor including edges, corners, and curing etc. complete Page # 320/10, 327/87	15298	%Sft	2,247.90	<b>343,883.74</b>
28	<b><u>PLASTIC EMULSION PAINT:</u></b> Painting with (ICI) Deluxe plastic emulsion paint VIP of approved shade two coats over and including the cost of one priming coat complete over plastered surface at any floor. Page # 334/162				
i)	Ground Floor	14500	%Sft	2,742.08	<b>397,601.60</b>
ii)	First Floor	14500	%Sft	2,742.08	<b>397,601.60</b>
29	<b><u>VINYL DISTEMPER:</u></b> Distempering with vinyl distemper (ICI) Deluxe Painted of approved make shade in two coats over and including the cost of one priming coat of lime wash including sand papering, dusting and filling the holes, crakes and inequalities, at any height in any floor. Page # 333/151				
i)	Ground Floor	10800	%Sft	1,052.54	<b>113,674.32</b>
ii)	First Floor	10800	%Sft	1,052.54	<b>113,674.32</b>
30	<b><u>WEATHER SHIELD PAINT:</u></b> Painting three coats with weather shield paint deluxe (ISI) make of approved shade on plaster surface external and including the cost of cleaning the surface, sand papering etc. complete at any height in any floor. (External) Page No. 334/172	5415	%Sft	1,406.88	<b>76,182.55</b>



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S. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
31	<b>IRON GRILL:</b> Providing and fixing iron grills with required section of flat iron as per approved design including welding all sides of the section at the junction and fixing with sunk iron screws, painting two coats of red oxide paint etc. complete as required in any floor in masonry or concrete work. Page # 239/32				
i)	Ground Floor	33	Cwt	7,634.08	<b>251,924.64</b>
ii)	First Floor	33	Cwt	7,634.08	<b>251,924.64</b>
32	<b>IRON PAINTING:</b> Painting iron work with synthetic enamel paint of approved makes and shade two coat over and including the cost of one priming coat complete at any height in any floor . Page No. 333/159 Second floor including stair tower.				
i)	Ground Floor	3000	%Sft	2,776.62	<b>83,298.60</b>
ii)	First Floor	2400	%Sft	2,776.62	<b>66,638.88</b>
33	<b>ALUMINUM SHEET:</b> Providing and fixing aluminum sheet 22 gauge (1.15 mm thick) on wooden surface with sunken aluminum screw of required size as per direction of the engineer - in - charge. Page # 357/130				
i)	Ground Floor	150	Sft	225.13	<b>33,769.50</b>
ii)	First Floor	150	Sft	225.13	<b>33,769.50</b>
34	<b>WOOD WORK PAINTING:</b> Painting wood work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coats over at any height in any floor. Page # 333/160				
i)	Ground Floor	150	%Sft	2,585.22	<b>3,877.83</b>
ii)	First Floor	150	%Sft	2,585.22	<b>3,877.83</b>



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S. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
35	<b>RAIN WATER DOWN PIPE:</b> Providing and fixing 3" (80 mm) dia polyvinyl chloride rain water (PVC) down pipe with milde steel clamps, bolts and nuts fixed in cement concrete 1:2:4 etc. complete Page # 352/64	200	Rft	210.55	<b>42,110.00</b>
36	<b>P.V.C SOCKET:</b> Providing and fixing 3" (80 mm) dia polyvinyl chloride (PVC) socket for rain water down pipe. Page # 352/66	10	Each	159.56	<b>1,595.60</b>
37	<b>P.V.C BEND:</b> Providing and fixing 3" (80 mm) dia polyvinyl chloride (PVC) bend for any degree for rain water down pipe with clamps, bolts and nuts in cement concrete 1:2:4 etc. complete. Page # 353/68	6	Each	629.85	<b>3,779.10</b>
	<b>TOTAL AMOUNT</b>				<b>31,945,242.94</b>
	<b>PERCENT ABOVE OR BELOW</b>				
	<b>BID AMOUNT</b>				



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BILL OF QUANTITY		NON SCHEDULE ITEMS (CIVIL WORKS)			
S. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	<b>CLEARING OF SITE:</b> Cleaning the site for proper execution of work including layout of structure with making centre lines, etc.. Complete as per drawing, specifications and instruction of Engineer-in-Charge.	1	Job		
2	<b>BOTICINA MARBLE FLOOR:</b> Providing and laying Boticina or approved quality marble floor using tile of size 12"x24" x 3/4 inch of approved quality laid over bed of C.C. 1:4 using cement and screened sand mix with larger grain size not exceeding 1" , in approved pattern including filling of joints using white cement and pigment (if required) in match color of marble tiles including, grinding and chemical polish complete in all respect as per instructions by the Architect / Engineer. (1st Floor).				
i)	Ground Floor	9632	Sft		
ii)	First Floor	9632	Sft		
3	<b>BOTICINA MARBLE SKIRTING:</b> Providing and laying Boticina or approved quality marble skirting using tile of size 24"x6" x 3/8 inch on walls wherever required or shown over drawing over 1/2" inch thick rough plaster of 1:6 cement sand mortar, including grinding, wax polishing, rounding corners, straightening of edges, levelling, curing and finishing etc. complete in all respect as per instructions by the Architect / Engineer. (1st Floor).				
i)	Ground Floor	1883	Sft		
ii)	First Floor	1883	Sft		
4	<b>BOTICINA MARBLE TO STAIR STEPS:</b> Providing and laying Boticina marble to stair steps using 1" thick full length marble slab of approved quality laid over bed of C.C. 1:3 using cement and screened sand mix with large grain size not exceeding 1/2" inch including filling joints using white cement and pigment(if required) in match color of marble tiles including, grinding and wax polish complete in all respect as per instructions by the Architect / Engineer. (1st Floor).	200	Sft		



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S. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
5	<b>BOTICINA MARBLE TO STAIR RISER:</b> Providing and laying Boticina marble to stair riser using 3/8" thick of approved quality laid over bed of C.C. 1:6 using cement and screened sand mix with large grain size not exceeding 1/2" inch including filling joints using white cement and pigment(if required) in match tiles including, grinding and wax polish complete in all respect as per instructions by the Architect / Engineer. (1st Floor).	150	Sft		
6	<b>EMERGENCY STAIR CASE:</b> Providing and fixing M.S. Stair Case 1"x1" M.S. Angle (06 Nos) in landing 1" x 1/4" plate M.S. 1/4" thick M.S. Chaquard Plate 1" x 1/4" M.S. Angle detail given in the drawing as per direction of the engineer incharge.	350	Sft		
7	<b>ROOF SCREED:</b> Providing and laying average 3" thick CC.1:2:4 screed using graded screened bajri 3/4" inch and down gauge laid in proper gradient and slope etc. complete including glass dividing strips and making 3" x 3" C.C gola at parapet and roof junction etc. complete with painting the surface with plastic bitumen No 3 or 4 @ of 15 lbs per %Sft blinded with sand @ 2 Cft Per %Sft complete in all respect as per instructions by the Architect/Engineer. (1st Floor)	10800	Sft		
8	<b>Stainless Staircase Hand Railing</b> providing and fixing stainless steel staircase hand railing floor mounted as per design comprising 2" dia s.s dia s.s pipe balustrades including all accessories complete in all respect as seen on the drawings and as directed by the Engineer (1st Floor)	80	Rft		
9	<b>Epoxy Coating</b> providing and coating 1mm epoxy,monolithic, nonabsorbent,skid proof,resistant to wear as per direction of Engineer incharge.				
i)	Ground Floor	9632	Sft		
ii)	First Floor	9632	Sft		



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S. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
10	<b>False Ceilings</b> providing and fixing monolithic suspended ceiling systemop Gypsum board with epoxy paint. The fiber reinforcement board shall have 12mm rthickness with tapped edge for smooth joints treatment. The board size shall 8' X 4'	10800	Sft		
11	<b>Wall Facing</b> P/L Envicrete or Equivalent wall facing tiles having minimum size (390 mm x 190mm x 90mm) (laid flat in courses) in cement mortar 1:3 cement painted in deep out grooves and in pattern as per direction of the engineer incharge including rubbing, curing etc. complete	12500	Sft		
	TOTAL AMOUNT				



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BILL OF QUANTITY		(PAK PWD SCHEDULE ITEMS-2012) CIVIL WORKS			
S. No.	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
1	<b><u>EXCAVATION:</u></b> Excavation for foundation trenches and drains in all kinds of soils (except gravelly and murum soil, wet silt, clay or mud conglomeration of gravel and boulders, soft, sandy, or dsintegrated sandy and hard rock) and back filing the excavated material in foundation, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exeeding 9 inches (229 m) in depth to full compaction, dressing and disposal of surplus excavated stuff as directed, lead upto one chain (30.5 R.m) and lift upto 5 feet (1.52 m). Page # 17/1, 17/5.				
i)	Ordinary Soil	13500	%Cft	535.09	72,237.15
ii)	Hard Rock	13500	%Cft	2,410.85	325,464.75
2	<b><u>Providing &amp; Filling:</u></b> Approved quality earth in depressions with in a radius of 5 miles (8km) breaking clouds,leveling,dressing,wattring and consolidating in 6 inches (152mm) layers etc. complete including all lifts. Page # 19, item# 14	16400	%Cft	2,314.41	379,563.24
3	<b><u>Stone Soling</u></b> Providing & Laying Soling Stone 6 to 9 inches (152 mm to 229 mm) size under floor including packing with spawly and chips and consolidating etc complete Page # 211, item # 1	3600	%Cft	3,251.34	117,048.24
4	<b><u>C.C. FLOOR:</u></b> Providing and laying 1:4:8 cement concrete bed under floors using graded stone ballest 2 inches (51 mm) and down gauge with leveling & ramming, watering and curing etc. complete. Page # 190/0	3000	%Cft	10,315.36	309,460.80
5	<b><u>C.C.1:3:6 CAST IN SITU:</u></b> Provding and laying in situ 1:3:6 cement concrete in walls more than 6 inch (152 mm) in thickness in superstruture using screened graded bajri 3/4 inch (19 mm) and down gauge including compating, curing, cost form work and its removal etc. Complete in ground ground floor	2000	%Cft	17,109.69	342,193.80





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S. No.	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
6	<b><u>R.C.C 1:2:4 FOUNDATION:</u></b> Providing and laying reinforced cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge having a minimum work cube crushing strenght of 2250 lbs. Per sq Inch (15.52 N/mm <sup>2</sup> ) at 28 days with mix not leaner than 1:2:4 in column footing of required shape including from work and its removal, compacting and curing etc. complete in foundation basement and plingth. Page # 135/1	5500	Cft%	16,626.18	914,439.90
7	<b><u>R.C.C 1:2:4 PLINTH BEAMS:</u></b> Providing laying reinforced cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge having a minimum works cube crushing strength of 2250 lbs. Per sq. inch (15.52 N/mm <sup>2</sup> ) at 28 days with mix not leaner than 1:2:4 in plinth beams of required shape and design including from work and its removal, compacting and curing etc. but excluding the cost of reinforcement in foundation basement and plingth. Page # 136/8	2700	Cft%	17,284.23	466,674.21
8	<b><u>R.C.C COLUMNS:</u></b> Providing & laying reinforced cement concrete using crush graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3750 lbs. Per sq. inch and 28 days with mix leaner than 1:1 1/2: 3 in columns of square or rectangular shape of regular section including from its work or removal, compacting and curing etc. but excluding the cost of reinforcement in foundation basement and plingth. Page # 138/24, 156/136, 150/92	1300	Cft%	23,343.45	303,464.85
9	<b><u>R.C.C BEAM &amp; LINTELS:</u></b> Providing and laying cement concrete using crush graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. Per sq. inch and 28 days with mix not leaner than 1:2:4 in straigh beams lintels cantilever beams of required shape section including from its work or removal, compacting and curing etc. complete but excluding the cost of reinforcement. Page # 141/38, 156/136, 150/92	1200	Cft%	22,030.50	264,366.00



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BILL OF QUANTITY		(PAK PWD SCHEDULE ITEMS-2012) CIVIL WORKS			
S. No.	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
10	<b><u>SLAB &amp; PROJECTION:</u></b> Providing and laying cement concrete using crush graded boulders 3/4 inch and down gauge having a minimum works cube crushing strength of 3000 lbs. Per sq. inch and 28 days with mix not leaner than 1:2:4 in ordinary slab 5 inch to 6 inches thick, including from its work or removal, compacting and curing etc. complete but excluding the cost of reinforcement. Page # 144/56, 156/136, 150/92				
i)	Ground Floor	4500	Cft%	26,050.18	1,172,258.10
11	<b><u>STEEL REINFORCEMENT:</u></b> Providing and laying cold worked twisted ribbed steel reinforcement bars with minimum yield stress of 60,00 psi with and including the cost of straightening, cutting, bending, binding, wastage, complete in all kinds of RCC work. Page #159/68	50000	Kg	110.89	5,544,500.00
12	<b><u>BLOCK MASONRY:</u></b> Providing and laying 1:3:6 cement concrete solid machine made block masonry 4 to 6 inches (102 mm to 152 mm) thick using graded screened bajri 3/4 inch (19 mm) and down gauge set in cement sand mortar 1:6 including scaffolding raking out joints and curing etc. complete in frist floor superstructure. Page # 76/34, 81/92, 82/100				
	Ground Floor	5000	Cft%	15,752.92	787,646.00
13	<b><u>MS DOOR FRAMES:</u></b> Providing and fixing M.S. moulded steel door frames of 5.73" X 2-1/2" (146 mm X 63 mm) maunfactures from mild steel sheet of 18 gauge (1.41 mm) conforming to B.S.S 1245 having a double rebatee 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 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. Page # 240/44	500	Rft	185.34	92,670.00



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BILL OF QUANTITY		(PAK PWD SCHEDULE ITEMS-2012) CIVIL WORKS			
S. No.	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
14	<b>FULLY VENEERED SHUTTERS:</b> Providing and fixing 1-1/2" thick solid core deodar wood flushed veneered door shutters, with and including the cost of commercial plywood facing 3 mm thick (3 ply) on both faces, fixed over best quality deodar wood frame 2 inches wide around 6 inches wide lock rail and 2 nd class deodar wood solid core, including 1/4" thick best quality deodar wood lapping on all sides as per approved drawing, manufactured under power driven hydraulic press, including the cost of approved iron fitting but excluding the cost handles and locking arrangements. Page # 265/61-a	550	Sft	571.68	3,144.24
15	Porviding and fixing with brass screws Alpa knob set lock of approved design (No. 7000) Japan make, cutting wood to required shape and size with two operating keys as per direction of the engineer - in - charge. Page 303/76	18	Each	2,531.56	45,568.08
16	<b>DOOR CLOSER:</b> Provding and fixing with brass screws or specially supplied screws hydraulic door closer Rayobi or approved design and shape No. 72, Japan make, cutting wood etc to required shape and size as per direction of Engineer - in - Charge. Page # 303/70 Second floor including stair tower.	18	Each	2,420.50	43,569.00
17	<b>SPIRIT POLISHING:</b> Applying French or spirit polishing, two coats of approved make on wood work at any height in any floor. Page # 336/89-90	1200	Sft%	3,193.92	38,327.04
18	<b>PLAIN GLASS:</b> Proving and fixing plain glass planes 5 mm thick to M.S. Box Pipe / Aluminum doors, windows and ventilator etc including the most cost of labor but excluding the cost of M.S square pipe beading, rubber packing and screw in any floor at any height. Page # 254/119	2200	Sft	88.91	195,602.00



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S. No.	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
19	<b><u>ALUMINUM SLIDING WINDOW:</u></b> Providing and fixing fully glazed bronz anodized aluminum slizing window as per british standard manufactured by lucky, Alcop, Krusdon, Pakistan cable and A.C.P. (fixing through their approved fabricators), Executive model section double or single glazed 101 mm x 37 mm and 1.6 mm thick including the cost of aluminum netting, fitting, with all accessories cutting hole etc and making good damages to wall etc. complete as required in any floor as per direction of engineer - in - charge but excluding the cost of glass panes. Page # 245/71	150	Sft	683.72	102,558.00
20	<b><u>PLASTER (CEILING):</u></b> 1/2" (13 mm) thick cement plaster 1:3 on ceiling, walls and columns etc.. In basement, plinth, first and ground floor including making eges, corns and curing etc, complete. Page # 320/3, 327/87	35000	Sft%	2,237.47	783,114.50
21	<b><u>PLASTER (EXTERNAL):</u></b> 3/4" thick cement plaster 1:6 on walls and columns etc. in basement, plinth, first and ground floor including edges, corners, and curing etc. complete Page # 320/10, 327/87	7000	Sft%	2,247.90	157,353.00
22	<b><u>PLASTIC EMULSION PAINT:</u></b> Painting with (ICI) Deluxe plastic emulsion paint VIP of approved shade two coats over and including the cost of one priming coat complete over plastered surface at any floor. Page # 334/162	29000	Sft%	2,742.08	795,203.20
23	<b><u>VINYL DISTEMPER:</u></b> Distempering with vinyl distemper (ICI) Deluxe Painted of approved make shade in two coats over and including the cost of one priming coat of lime wash including sand papering, dusting and filling the holes, crakes and inequalities, at any height in any floor. Page # 333/151	7000	Sft%	1,053.54	73,747.80



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S. No.	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
24	<b><u>WEATHER SHIELD PAINT:</u></b> Painting three coats with weather shield paint deluxe (ISI) make of approved shade on plaster surface external and including the cost of cleaning the surface, sand papering etc. complete at any height in any floor. (External) Page No. 334/172	2500	Sft%	1,406.88	35,172.00
25	<b><u>IRON GRILL:</u></b> Providing and fixing iron grills with required section of flat iron as per approved design including welding all sides of the section at the junction and fixing with sunk iron screws, painting two coats of red oxide paint etc. complete as required in any floor in masonry or concrete work. Page # 239/32	10	Cwt	7,634.08	76,340.80
26	<b><u>IRON PAINTING:</u></b> Painting iron work with synthetic enamel paint of approved make and shade two coat over and including the cost of one priming coat complete at any height in any floor . Page No. 333/159 Second floor including stair tower.	4500	Sft%	2,776.62	124,947.90
27	<b><u>ALUMINUM SHEET:</u></b> Providing and fixing aluminum sheet 22 gauge (1.15 mm thick) on wooden surface with sunken aluminum screw of required size as per direction of the engineer - in - charge. Page # 357/130	200	Sft	225.13	45,026.00



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S. No.	DESCRIPTION	QUANTITY	UNIT	RATE	AMOUNT
28	<b>WOOD WORK PAINTING:</b> Painting wood work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coats over at any height in any floor. Page # 333/160	1100	Sft%	2,585.22	28,437.42
29	<b>RAIN WATER DOWN PIPE:</b> Providing and fixing 3" (80 mm) dia polyvinyl chloride rain water (PVC) down pipe with milde steel clamps, bolts and nuts fixed in cement concrete 1:2:4 etc. complete Page # 352/64	70	Rft	210.55	14,738.50
30	<b>P.V.C SOCKET:</b> Providing and fixing 3" (80 mm) dia polyvinyl chloride (PVC) socket for rain water down pipe. Page # 352/66	8	Each	159.56	1,276.48
31	<b>P.V.C BEND:</b> Providing and fixing 3" (80 mm) dia polyvinyl chloride (PVC) bend for any degree for rain water down pipe with clamps, bolts and nuts in cement concrete 1:2:4 etc. complete. Page # 353/68	4	Each	629.85	2,519.40
	<b>TOTAL AMOUNT</b>				<b>13,658,632.40</b>
	<b>PERCENT ABOVE OR BELOW</b>				
	<b>BID AMOUNT</b>				



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BILL OF QUANTITY		NON SCHEDULE ITEMS (CIVIL WORKS)			
1	<b><u>CLEARING OF SITE:</u></b> Cleaning the site for proper execution of work including layout of structure with making centre lines, etc.. Complete as per drawing, specifications and instruction of Engineer-in-Charge.	1	Job		
2	<b><u>BOTICINA MARBLE FLOOR:</u></b> Providing and laying Boticina or approved quality marble floor using tile of size 12"x24" x 3/4 inch of approved quality laid over bed of C.C. 1:4 using cement and screened sand mix with larger grain size not exceeding 1" , in approved pattern including filling of joints using white cement and pigment (if required) in match color of marble tiles including, grinding and chemical polish complete in all respect as per instructions by the Architect / Engineer. (1st Floor).	6050	Sft		
3	<b><u>BOTICINA MARBLE SKIRTING:</u></b> Providing and laying Boticina or approved quality marble skirting using tile of size 24"x6" x 3/8 inch on walls wherever required or shown over drawing over 1/2" inch thick rough plaster of 1:6 cement sand mortar, including grinding, wax polishing, rounding corners, straightening of edges, levelling, curing and finishing etc. complete in all respect as per instructions by the Architect / Engineer. (1st Floor).	1700	Sft		
4	<b><u>ROOF SCREED:</u></b> Providing and laying average 3" thick CC.1:2:4 screed using graded screened bajri 3/4" inch and down gauge laid in proper gradient and slope etc. complete including glass dividing strips and making 3" x 3" C.C gola at parapet and roof junction etc. complete with painting the surface with plastic bitumen No 3 or 4 @ of 15 lbs per %Sft blinded with sand @ 2 Cft Per %Sft complete in all respect as per instructions by the Architect/Engineer. (1st Floor)	5900	Sft		
5	<b><u>Epoxy Coating</u></b> providing and coating 2mm epoxy, monolithic, nonabsorbent, skidproof, resistant to wear as per direction of Engineer incharge.	6050	Sft		
6	<b><u>False Ceilings</u></b> providing and fixing monolithic suspended ceiling system on Gypsum board with epoxy paint. The fiber reinforcement board shall have 12mm thickness with tapered edge for smooth joints treatment. The board size shall 8' X 4'	5000	Sft		
7	<b><u>Wall Facing</u></b> P/L Envicrete or Equivalent wall facing tiles having minimum size (390 mm x 190mm x 90mm) (laid flat in courses) in cement mortar 1:3 cement painted in deep out grooves and in pattern as per direction of the engineer incharge including rubbing, curing etc. complete	3500	Sft		
8	<b><u>S.S. Steel Door:</u></b> Providing/Fixing Alcop or Equivalent steel door, with vision panelled 300 x 900 mm. Complete as per approved drawing by the Consultant.	200	Sft		



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BILL OF QUANTITY		NON SCHEDULE ITEMS (CIVIL WORKS)			
1	<b><u>CLEARING OF SITE:</u></b> Cleaning the site for proper execution of work including layout of structure with making centre lines, etc.. Complete as per drawing, specifications and instruction of Engineer-in-Charge.	1	Job		
9	<b><u>MS STEEL LOUVER DOOR AND VENTILATOR:</u></b> Providing and fixing framed doors and gates prepared attachment of Covering through Gi Sheet Louvers (16 Gauge) including hinges, door fittings, fastening, tower bolts, aldrops and hanging including welding complete and including applying one primer coat of red oxide and three coats of dulux (ICI) / Berger Enamel Paint of approved shade and colour complete as per drawings, specifications and instructions of Consultant (Shop drawings shall be provided for the approval of Consultant).	550	Sft		
	TOTAL AMOUNT				