

# **ESTABLISHMENT OF UNIVERSITY OF BALTISTAN SKARDU**



**CONSTRUCTION VC HOUSE, HOUSES FOR PROFESSOR & DEAN (04 NOS), HOUSES FOR ASSOCIATE / ASSISTANT PROFESSOR & MANAGEMENT STAFF (06 NOS), FLATS FOR LECTURERS, FLATS FOR ADMIN & SUPPORT STAFF, FLATS FOR SUPPORT STAFF.AT UNIVERSITY OF BALTISTAN SKARDU (UOBS)**

## **BILL OF QUANTITIES VOLUME-III**

**November 2023**



**EA Consulting Pvt Ltd**

*(Formerly Engineering Associates )*

**Engineering, Architecture & Project Management**

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**ESTABLISHMENT OF UNIVERSITY OF BALTISTAN, SKARDU**  
**(Houses & Flats)**

**BILL OF QUANTITIES**  
**MASTER SUMMARY**

S.No	Description	Amount (Rs.)
1	VC House (BPS 22)	
2	House for Professor & Dean (04 Nos)	
3	House for Associate / Assistant Professor & Management Staff (06 Nos)	
4	Flats for Lecturers	
5	Flats For Admin & Support Staff	
6	Flats For Support Staff	
GRAND TOTAL=		

**VC HOUSE**

BILL OF QUANTITIES

GRAND SUMMARY

S.NO:		Amount
1	Structure	
2	Architecture	
3	Electrical Works	
4	ELV Works	
5	Plumbing Works	
TOTAL CARRIED TO MASTER SUMMARY		

**CIVIL WORKS**  
**(STRUCTURE WORKS)**

## BILL OF QUANTITIES

## Civil SUMMARY

S.NO:	Description	Amount
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	EARTH WORKS	172,678
2	SUB STRUCTURE	3,702,419
3	SUPER STRUCTURE	3,927,195
4	EXTERNAL WORKS (STRUCTURE) OTHER THAN BUILDING (NON COVERED AREA)	4,332,814
	<b>Total of Schedule Items with Premium - A</b>	<b>12,135,106</b>
	Add _____% Premium on Civil Works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	EARTH WORKS	-
2	SUB STRUCTURE	-
3	SUPER STRUCTURE	-
4	EXTERNAL WORKS (STRUCTURE) OTHER THAN BUILDING (NON COVERED AREA)	-
	<b>Total of Non-Schedule Items - B</b>	<b>-</b>
<b>TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B)</b>		<b>-</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7 = 4 x 6
	<b>BUILDING</b>	<b>A-SCHEDULE ITEMS</b>				
<b>1</b>		<b>All items under this head (Structure work) to be carried out as per relevant Section of PWD &amp; technical specifications (Volume-II), Drawings, BSI/ASTM Standards, complete in all respect and to the entire satisfaction of the Engineer. Due to pitch roof second para of clause No 1.9 of General conditions of PWD schedule of rates-2022 will be applicable for the height of the higher side.</b>				
1.1	Code -103,	<b>EARTH WORKS</b> Excavation for foundation trenches and drains in <b>gravelly soil</b> and back filling the excavated material in foundation trenches, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) 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).				
	Item # 2	From ± 0'-0" to -5' - 0"	15855 Cft	100 Cft	613.14	97,213
	Item # 2+28	From -5' - 0" to -8' - 0"	4110 Cft	100 Cft	690.49	28,379
1.2	Code -104 Item #4	Filling bajri available at site in foundation plinth or under floor, etc. including dressing, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, complete within a lead of one chain (30.5 R.m) and lift of 5 feet (1.52 R.m). etc. complete, including all lifts etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	6560 Cft	100 Cft	261.80	17,174
1.3	Code -117 Item #1	Providing and laying soling stones 6 inches to 9 inches (152 mm to 229 mm) size under floors/foundations & where required etc. including packing with spralls and chips and consolidating etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	920 Cft	100 Cft	3,251.34	29,912
Amount Carried to Civil Summary						172,678

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
<b>2</b>		<b><u>SUB STRUCTURE</u></b>				
		<b>CONCRETE WORKS</b>				
2.1	Code -106	Providing and laying in situ <b>1:4:8</b> (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 11	Below plinth beam,situ,walls,tanks, over stone soling or where required <b>(Cylindrical 1000 Psi)</b>	1900 Cft	100 Cft	14,411.43	273,817
2.2	Code -106	Providing and laying in situ <b>1:3:6</b> (1 cement 3 sand and 6 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work, etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 12	For Cast in situ / mass concrete or where required <b>(Cylindrical 1500 Psi)</b>	335 Cft	100 Cft	15,840.97	53,067
2.3	Code -114	<b>REINFORCED CONCRETE WORKS</b> Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in columns footing of required shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 1+134+137	Foundation for any type <b>(Cylindrical Strength 3000 Psi)</b>	4710 Cft	100 Cft	21,685.85	1,021,404
2.4	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth. etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 4+135+138	Columns upto plinth <b>(Cylindrical Strength 3750 Psi)</b>	525 Cft	100 Cft	26,704.50	140,199
2.5	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in straight walls more than 6 inches (152 mm) thick including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 9+135+138	Rcc Wall <b>(Cylindrical Strength 3750 Psi)</b>	0 Cft	100 Cft	56,886.71	-
2.6	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in plinth beams of required shape and design including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 8+134+137	Plinth Beams i/c nibs / projections <b>(Cylindrical Strength 3000 Psi)</b>	905 Cft	100 Cft	22,344.09	202,214



## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
2.7	Code -114 Item # 166	Providing and laying hard grade ribbed deformed <b>(minimum yield point 60,000 psi or 414 Mpa)</b> reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>	15915 Kg	Kg	123.02	1,957,863
2.8	Code -108 Item # 12	Providing a coat of <b>bitumen emulsion at 10 Lbs. per % sft. (0.49 Kg/sm)</b> on walls and floor in ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	8310 Sft	100 Sft	648.08	53,855
Amount Carried to Civil Summary						3,702,419
<b>B-NON-SCHEDULE ITEMS</b>						
2.9		<b>SUB STRUCTURE</b> <b>TERMITE PROOFING</b> Providing and Carrying out termite proofing in foundation, 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 Engineer incharge.etc., complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Note: Plinth Area will be measured one time for payment where is the number of applications will be three times on all horizontal &amp; vertical surfaces of the excavation for termite proofing)</b>	2,375	Sft		-
Amount Carried to Civil Summary						-
<b>3</b>		<b>SUPER STRUCTURE</b>				
3.1	Code -114	<b>REINFORCED CONCRETE WORKS</b> Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in the ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.  Columns <b>(Cylindrical Strength 3750 Psi)</b> Item # 24+135+138 Ground Floor 515 Cft 100 Cft 30,389.36 156,505 Item # 24+135+138+92 First Floor 620 Cft 100 Cft 31,338.56 194,299 Item # 24+135+138+92+93 Second Floor 0 Cft 100 Cft -				
3.2	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in straight walls, vertical fins etc. more than 6 inches (152 mm) thick including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.  Rcc Wall <b>(Cylindrical Strength 3750 Psi)</b> Item # 30+135+138 Ground Floor 0 Cft 100 Cft 28,692.59 - Item # 30+135+138+92 First Floor 0 Cft 100 Cft 29,641.79 -				

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
3.3	Item # 30+135+138+92+93 Code -114	Second Floor Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in straight beams lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in basement and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	0 Cft	100 Cft	30,393.24	-
		Beams and projections <b>(Cylindrical Strength 3000 Psi)</b>				
	Item # 38+134+137	Ground Floor	725 Cft	100 Cft	24,839.57	180,087
	Item # 38+134+137+92	First Floor	810 Cft	100 Cft	25,788.77	208,889
3.4	Item # 38+134+137+92+93 Code -114	Second Floor Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3000 lbs. per sq. inch (20.68 N /mm 2 at 28 days)</b> with a mix not leaner than 1:2:4 in straight beams lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in basement and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	0 Cft	100 Cft		-
		Bracing beams / lintels / nibs / sills / bands /around opening <b>(Cylindrical Strength 2500 Psi)</b>				
	Item # 38+136	Ground Floor	110 Cft	100 Cft	20,668.60	22,735
	Item # 38+136+92	First Floor	125 Cft	100 Cft	21,617.80	27,022
	Item # 38+136+92+93x2	Second Floor	0 Cft	100 Cft		-
3.5	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in ordinary slab 5 inches (127 mm) to 6 inches (152mm) thick including form work and its removal compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
		Slab i/c projections (straight & sloping ) <b>(Cylindrical Strength 3000 Psi)</b>				
	Item # 56+134+137	Ground Floor	955 Cft	100 Cft	24,314.96	232,208
	Item # 56+134+137+92	First Floor	1170 Cft	100 Cft	25,264.16	295,591
3.6	Item # 56+134+137+92+93 Code -114	Second Floor Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in ordinary slab more than 6 inches (152 mm) thick including form work and its removal compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	0 Cft	100 Cft		-
		Slab i/c projections (straight & sloping ) <b>(Cylindrical Strength 3000 Psi)</b>				
	Item # 57+134+137	Ground Floor	0 Cft	100 Cft	23,691.64	-
	Item # 57+134+137+92	First Floor	0 Cft	100 Cft	24,640.84	-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
3.7	Item # 57+134+137+92 +93 Code -114	Second Floor Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm<sup>2</sup> at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in straight stairs and landing of required section including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	0 Cft	100 Cft		-
	Item # 50+134+137	Stair Case / steps / seats (Steps, Landing & Waist slab) <b>(Cylindrical Strength 3000 Psi)</b> Ground Floor	155 Cft	100 Cft	30,160.60	46,749
	Item # 50+134+137+92	First Floor	80 Cft	100 Cft	31,109.80	24,888
3.8	Item # 50+134+137+92 +93 Code -114	Second Floor Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm<sup>2</sup> at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in a square of rectangular bottom slab of over head water tank up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement .etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	0 Cft	100 Cft		-
	Item # 114+135+138	OH Water Tank Bottom Slab <b>(Cylindrical Strength 3750 Psi)</b>	45 Cft	100 Cft	33,233.11	14,955
3.9	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm<sup>2</sup> at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in straight walls in over head water tank bins, bunkers, intze tanks and silo up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
3.10	Item # 112+135+138 Code -114	OH Water Tank Walls <b>(Cylindrical Strength 3750 Psi)</b> Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm<sup>2</sup> at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in roof slab of over head water tank up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	55 Cft	100 Cft	33808.88	18,595
3.11	Item # 118+135+138 Code -114	OH Water Tank Top Slab <b>(Cylindrical Strength 3750 Psi)</b> Providing and laying hard grade ribbed deformed <b>(minimum yield point 60,000 psi or 414 Mpa)</b> reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>	35 Cft	100 Cft	65,041.55	22,765

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
	Item # 166	Ground Floor	9116 Kg	Kg	123.02	1,121,450
	Item # 166+174	First Floor	10930 Kg	Kg	124.47	1,360,457
	Item # 166+174+175	Second Floor	0 Kg	Kg		-
Amount Carried to Civil Summary						3,927,195
<b>EXTERNAL A-SCHEDULE ITEMS</b>						
<b>1</b>		<b><u>EARTH WORKS</u></b>				
1.1	Code -103,	Excavation for foundation trenches and drains in <b>gravelly soil</b> and back filling the excavated material in foundation trenches, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) 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).				
	Item # 2	From ± 0'-0" to -5' - 0"	10485 Cft	100 Cft	613.14	64,288
	Item # 2+28	From -5' - 0" to -8' - 0"	2385 Cft	100 Cft	690.49	16,468
1.2	Code -104 Item #4	Filling bajri available at site in foundation plinth or under floor, etc. including dressing, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, complete within a lead of one chain (30.5 R.m) and lift of 5 feet (1.52 R.m). etc. complete, including all lifts etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	2755 Cft	100 Cft	261.80	7,213
1.3	Code -117 Item #1	Providing and laying soling stones 6 inches to 9 inches (152 mm to 229 mm) size under floors/foundations & where required etc. including packing with spraws and chips and consolidating etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	425 Cft	100 Cft	3,251.34	13,818
<b>2</b>		<b><u>SUB STRUCTURE</u></b>				
		<b><u>CONCRETE WORKS</u></b>				
2.1	Code -106	Providing and laying in situ <b>1:4:8</b> (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 11	Below plinth beam, situ, walls, tanks, over stone soling or where required <b>(Cylindrical 1000 Psi)</b>	1290 Cft	100 Cft	14,411.43	185,907

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
2.2	Code -106	Providing and laying in situ <b>1:3:6</b> (1 cement 3 sand and 6 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work, etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 12	For Cast in situ / mass concrete or where required <b>(Cylindrical 1500 Psi)</b>	725 Cft	100 Cft	15,840.97	114,847
2.3	Code -114	<b>REINFORCED CONCRETE WORKS</b> Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in columns footing of required shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 1+134+137	Foundation for any type <b>(Cylindrical Strength 3000 Psi)</b>	2310 Cft	100 Cft	21,685.85	500,943
2.4	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth. etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 4+135+138	Columns upto plinth <b>(Cylindrical Strength 3750 Psi)</b>	710 Cft	100 Cft	26,704.50	189,602
2.5	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in straight walls more than 6 inches (152 mm) thick including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 9+135+138	Rcc Wall <b>(Cylindrical Strength 3750 Psi)</b>	0 Cft	100 Cft		-
2.6	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in plinth beams of required shape and design including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, foundation basement and plinth etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 8+134+137	Plinth Beams i/c nibs / projections <b>(Cylindrical Strength 3000 Psi)</b>	845 Cft	100 Cft	22,344.09	188,808

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
2.7	Code -114 Item # 166	Providing and laying hard grade ribbed deformed <b>(minimum yield point 60,000 psi or 414 Mpa)</b> reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>	11900 Kg	Kg	123.02	1,463,938
2.8	Code -108 Item # 12	Providing a coat of <b>bitumen emulsion at 10 Lbs. per % sft. (0.49 Kg/sm)</b> on walls and floor in ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	8555 Sft	100 Sft	648.08	55,443
2.9	Code -124 Item # 199	<b>TERMITE PROOFING</b> Providing and Carrying out termite proofing in foundation, 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 Engineer incharge.etc., complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Note: Plinth Area will be measured one time for payment where is the number of applications will be three times on all horizontal &amp; vertical surfaces of the excavation for termite proofing)</b>	845	Sft	13.13	11,095
<b>3</b>		<b><u>SUPER STRUCTURE</u></b> <b>REINFORCED CONCRETE WORKS</b>				
3.1	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in the ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
		Columns <b>(Cylindrical Strength 3750 Psi)</b>				
3.2	Item # 24+135+138 Code -114	Ground Floor Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in straight beams lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in basement and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	780 Cft	100 Cft	30,389.36	237,037
		Beams and projections <b>(Cylindrical Strength 3000 Psi)</b>				
	Item # 38+134+137	Ground Floor	570 Cft	100 Cft	24,839.57	141,586

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
3.3	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm<sup>2</sup> at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in ordinary slab 5 inches (127 mm) to 6 inches (152mm) thick including form work and its removal compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.  Slab i/c projections (straight & sloping ) <b>(Cylindrical Strength 3000 Psi)</b>				
3.4	Item # 56+134+137 Code -114	Ground Floor Providing and laying hard grade ribbed deformed <b>(minimum yield point 60,000 psi or 414 Mpa)</b> reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>	790 Cft	100 Cft	11,859.62	93,691
	Item # 166	Ground Floor	8520 Kg	Kg	123.02	1,048,130
Amount Carried to Civil Summary						4,332,814

**CIVIL WORKS**  
**(STRUCTURE WORKS)**



BILL OF QUANTITIES  
MASTER SUMMARY

S.NO:	DESCRIPTION	AMOUNT
A	SCHEDULE ITEMS	
4	BUILDING WORKS	
5	BOUNDARY WALL , GUARD ROOM & CAR PARKING	
	Total of Schedule Items with Premium - A	
B	NON-SCHEDULE ITEMS	
4	BUILDING WORKS	
5	BOUNDARY WALL , GUARD ROOM & CAR PARKING	
	Total of Non-Schedule Items - B	
	TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B)	

## BILL OF QUANTITIES

## CIVIL SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
4	MASONRY WORKS	1,008,065
5	THERMAL & MOISTURE PROTECTION	N/A
6	METAL WORKS	327,269
7	WOOD WORKS	159,269
8	FLOOR FINISHES	248,404
9	WALL FINISHES	647,577
10	CEILING FINISHES	104,704
11	ROOF FINISHES & WATER PROOFING	141,592
12	EXTERNAL FINISHES (BUILDING)	241,383
13	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	N/A
	<b>Total of Schedule Items</b>	<b>2,878,263</b>
	Add _____ % Premium on Civil works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
4	MASONRY WORKS	
5	THERMAL & MOISTURE PROTECTION	-
6	METAL WORKS	-
7	WOOD WORKS	-
8	FLOOR FINISHES	-
9	WALL FINISHES	N/A
10	CEILING FINISHES	N/A
11	ROOF FINISHES & WATER PROOFING	-
12	EXTERNAL FINISHES (BUILDING)	-
	<b>Total of Non-Schedule Items - B</b>	-
	<b>TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B)</b>	-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
<b>A-SCHEDULE ITEMS</b>						
<b>4</b>		<b>All items under this head (Architectural work) to be carried out as per relevant Section of PWD &amp; technical specifications (Volume-II), Drawings, BSI/ASTM Standards, complete in all respect and to the entire satisfaction of the Engineer. Due to pitch roof second para of clause No 1.9 of General conditions of PWD schedule of rates-2012 will be applicable for the height of the higher side.</b>				
		<b>DPC &amp; MASONRY WORKS</b>				
		<b>Damp Proof Course (DPC)</b>				
4.1	Code -108 Item # 3 + Code -109 Item # 123	Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded <b>crushed boulders (instead of Screened bajri)</b> of 3/4 inch (19 mm) and down gauge mixed with any approved water proofing agent including compacting, curing form work and its removal etc., complete, but excluding the cost of water proofing agent .etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
		2" thick DPC	350 Sft	100 Sft	2,812.71	9,844.49
4.2	Code -108 Item # 5	Extra for using water proofing agent pudlo in item Nos. 4.1 (quantity to be used as per manufacturer's specification/2.50Kg per 100Sft).etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	9 Kg	Kg	86.10	774.90
		<b>Solid Block Masonry</b>				
4.3		Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block <b>4 to 6 inches</b> (102mm to 152 mm) thick using graded <b>crushed boulders (instead of Screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-110 Item # 44+92+100+ Code-109 Item # 120	Ground Floor	1980 Cft	100 Cft	16897.84	334,577.23
	Code-110 Item # 44+70+92 +100 Code-109 Item # 120	First Floor & Above	2835 Cft	100 Cft	17721.61	502,477.50
4.5		Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block masonry more than 6 inches (152 mm) thick <b>in steps, stairs</b> of approved design using graded <b>crushed boulders (instead of screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:4 including scaffolding, raking out joints and curing etc. complete in ground floor superstructure etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-110 Item #2+68+74+92 code-109 Item# 120	FOR BLOCK MASONRY STEPS	700 Cft	100 Cft	17915.71	125,365.18
4.6	Code-112 Item #144	Providing and laying wall ties of mild steel flats of approved section and design placed at horizontal and vertical spacing in cavity wall of any description in any floor at any height..	193 Kg	Kg	181.84	35,025.25
		<b>Amount Carried to Civil Summary</b>				<b>1,008,065.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
6		<b>METAL WORKS</b>				
6.1	Code -119 Item # 43	Providing and fixing M.S. moulded steel door frame of 4" x 2-1/2" (102 mm x 64 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to BSS. 1245 having a single rebate size 1-1/2" x 1/2" (38 mm x 13 mm) with 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 No., 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. etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	305 Rft	Rft	157.12	47,921.60
6.2	Code -119 Item # 44	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	80 Rft	Rft	185.34	14,827.20
6.3	Code -122 Item #159	Painting Iron work with <b>synthetic enamel paint</b> of approved make and shade two coats over and including the cost of one priming coat at any height in any floor etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	340 Sft	100 Sft	2,776.62	9,440.51
6.4	Code -119 Item #102	Providing and fixing fully glazed Bronze anodized or powder coated aluminium Sliding / fixed & openable /Top hung windows & ventilators as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 95mm 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, but excluding the cost of glass pans.	325 Sft	Sft	568.07	184,622.75
6.5	Code -119 Item #121	Providing and fixing Tinted glass panes 5mm thick to M.S. Box pipe / Aluminium doors, windows and ventilators etc including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height. (For Doors, Windows & Fixed Glazing or where instructed)	664 Sft	Sft	106.11	70,457.04
6.6	Code -119 Item #120	Providing and fixing plain glass panes 5mm thick to M.S. Box pipe / Aluminium doors, windows and ventilators etc. including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height. (For vision panel of door shutters)	0 Sft	Sft	88.91	-
		<b>Amount Carried to Civil Summary</b>				<b>327,269.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
7		<b>WOOD WORKS</b>				
7.1	Code-120 Item # 02	<b>Door, windows &amp; partitions Frame</b> Providing and fixing best quality deodar frames for doors, windows, ventilators, clerestory windows, shelves, partitions, trellis work, etc., as required . Complete in all respect as per drawings, specification and as directed by the Engineer.	28 Cft	100 Cft	4,595.14	128,663.92
7.2	Code-120 Item # 278	<b>Architrave / Beading</b> Providing and fixing best quality deodar wood projected beading upto one Sq. inch (6.45 Sqm.) in sections and required design fixed around the panels of doors, windows etc., of any description , complete in all respect as per drawings, specification and as directed by the Engineer.	516 Rft	Rft	35.66	18,400.56
7.3	Code-122 Item # 189	Applying French or spirit polishing, two coat of approved make on wood work at any height in any floor.	650 Sft	100 Sft	1,878.96	12,204.66
		<b>Amount Carried to Civil Summary</b>				<b>159,269.00</b>
8		<b>INTERNAL FLOOR FINISHES</b>				
8.1		Providing and laying 1:5:10 cement concrete bed under floors using graded stone ballast 3/4 & down <b>instead of 2 inches (51 mm)</b> and down gauge with levelling, ramming, watering and curing etc. complete. <b>(under Mosaic &amp; Porcelain tiles).</b>				
	Code-117 Item # 3	Ground Floor	153 Cft	100 Cft	9,442.42	14,446.90
	Code-117 Item # 3+26	First Floor & Above	90 Cft	100 Cft	9,684.38	8,715.94
8.2	Code-117	<b>Mosaic Floor</b> Providing and laying terrazzo floor 1-1/2 inches (38 mm) thick consisting of 1/2 inch (13 mm) thicktopping 1:2 <b>white cement instead of grey cement</b> (one grey cement 2 approved marble chips No. 0 to 4) in ground floor over a base of 1:2:4 (one cement, two sand and four screened graded bajri) cement concrete 1 inch (25 mm) thick laid in panels or pattern including form work, curing, cutting, rubbing and polishing etc. complete.				
	Item # 12+18	Ground Floor	1240 Sft	100 Sft	6,163.94	76,432.86
	Item # 12+18+26	First Floor & Above	735 Sft	100 Sft	6,405.90	47,083.37
8.3		Providing and laying terrazzo floor 1-1/2 inches (38 mm) thick consisting of 1/2 inch (13 mm) thicktopping 1:2 (one grey cement 2 approved marble chips No. 0 to 4) in ground floor over a base of 1:2:4 (one cement, two sand and four screened graded bajri) cement concrete 1 inch (25 mm) thick laid in panels or pattern including form work, curing, cutting, rubbing and polishing etc. complete.				
	Code-117 Item # 12	Ground Floor	310 Sft	100 Sft	5,287.04	16,389.82
	Code-117 Item # 12+26	First Floor & Above	185 Sft	100 Sft	5,529.00	10,228.65

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
8.4	Code-117 Item # 179	Providing and laying light colour, glazed/non skid vitrified porcelean tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	420 Sft	100 Sft	17882.39	75,106.04
		<b>Amount Carried to Civil Summary</b>				<b>248,404.00</b>
9		<b>INTERNAL WALL FINISHES</b>				
9.1		<b>Internal Wall Plaster</b> 1/2" (13 mm) thick cement plaster 1:6 on wall columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 6	Ground Floor	5300 Sft	100 Sft	1730.74	91,729.22
	Code-122 Item # 6+87	First Floor & Above	7100 Sft	100 Sft	1884.61	133,807.31
9.2		<b>Dado &amp; Skirting</b> Providing and fixing marble mosaic tile 12" X 6" X 3/4" (305 mm X 152 X 19 mm) with chips No. 0 to 4 in <b>dado and skirting</b> of approved design in light shade over 1/2 inch (13 mm) thick base of 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 matching colour curing, grinding, rubbing and polishing etc. complete.				
	Code-118 Item # 54 + 56	Ground Floor	220 Sft	100 Sft	14,274.50	31,403.90
	Code-118 Item # 54 + 56 + 58	First Floor & Above	190 Sft	100 Sft	14,567.19	27,677.66
9.3		Providing and fixing cement tiles 6" X 6" X 3/4" (152 mm X 152 mm X 19 mm) in dado and skirting in grey colour 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 joints and washing the tiles with cement slurry, curing, grinding, rubbing and polishing etc. complete..				
		Ground Floor		100 Sft	12,294.08	-
		First Floor		100 Sft	12,489.21	-
9.4	Code-122 Item # 151	Distempering with vinyl distemper (ICI) Deluxe Paintex of approved make and shade in 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.	11070 Sft	100 Sft	1,053.54	116,626.88
9.5	Code-122	<b>Puddlo Plaster</b> 3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc.complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 8	U.G.W.T Plaster	0	100 Sft	2367.12	-
	Item # 8+88+ 4 x 91	O.H.W.T Plaster	140 Sft	100 Sft	3,268.04	4,575.26

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
9.6	Code-122	Providing and mixing water proofing agent pudlo in cement mortar of any description in any floor etc., complete in all respects as per specifications/2.50Kg per 100Sft). & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 30	U.G.W.T		Kg	86.15	-
	Item # 30	O.H.W.T	4 Kg	Kg	86.15	344.60
9.7	Code-117 Item # 179	Providing and laying light colour, glazed/non skid vitrified porcelan tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	1350 Sft	100 Sft	17882.39	241,412.27
		<b>Amount Carried to Civil Summary</b>				<b>647,577.00</b>
10		<b>INTERNAL CEILING FINISHES</b>				
		<b>Internal Ceiling Plaster</b>				
10.1	Code-122	1/2" (13 mm) thick cement plaster 1:6 on ceilings cantilever soffits others etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 6	Ground Floor	1650 Sft	100 Sft	1,730.74	28,557.21
	Code-122 Item # 6+87	First Floor & Above	2000 Sft	100 Sft	1,884.61	37,692.20
10.2	Code-122 Item # 151	Distempering with vinyl distemper (ICI) Deluxe Paintex of approved make and shade in 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.	3650 Sft	100 Sft	1,053.54	38,454.21
		<b>Amount Carried to Civil Summary</b>				<b>104,704.00</b>
11		<b>ROOF FINISHES &amp; WATER PROOFING</b>				
11.1	Code-117	Providing and laying floor of 3 inches (76 mm) thick 1:2:4 reinforced cement concrete using graded crushed bolders <b>instead of screened bajri</b> 3/4" (19 mm) and down gauge in ground floor including form work, consolidation, finishing and curing etc. complete but excluding the cost of reinforcement.				
	Code-117 Item #7+26	Roof Lev (+10'-6" upto +14'-6")	420 Sft	100 Sft	4,289.49	18,015.86
	Code-117 Item #7+26+27	Lev (+21'-0" upto +33'-7")	2230 Sft	100 Sft	4,726.58	105,402.73
11.2	Code-108 Item #27	Water proofing of roof slab using Bituflex @ 10 Kg per % sft in three coats, i/c cleaning /scraping the extra mortar etc. from the roof surface, and washing the surface with water and filling the depressions using Bituflex: sand mortar (1.2).Applying one primer coal, over moist surface using a mix of 50 %Bituflex and 50 % water blirded the surface with saul any floor in any light.	2650 Sft	100 Sft	685.80	18,173.70
		<b>Amount Carried to Civil Summary</b>				<b>141,592.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amout (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
12		<b>EXTERNAL WALL FINISHES (BUILDING)</b>				
		<b>External Plaster</b>				
12.1	Code-122	3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 8	Ground Floor	2880 Sft	100 Sft	2,367.12	68,173.06
	Code-122 Item # 8+88	First Floor & Above	2754 Sft	100 Sft	2,572.28	70,840.59
12.2	Code-122 Item # 83	Extra for providing horizontal or vertical joints or grooves 3/8" x 1/4" (9.5 mm x 6.4 mm) size of approved design over item No. 12.1	5634 Sft	100 Sft	518.48	29,211.16
12.3	Code-122	Painting three coats with <b>weather shield paint deluxe (ICI)</b> 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 etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 172	Ground Floor to Roof	5200 Sft	100 Sft	1,406.88	73,157.76
		<b>Amount Carried to Civil Summary</b>				<b>241,383.00</b>
<b>B-NON SCHEDULE ITEMS</b>						
5		<b>THERMAL &amp; MOISTURE PROTECTION</b>				
5.1	N.S.I	Providing and applying three coats of 2 component flexible polymer modified cementitious waterproof coating AQUAFIN-2C /BASF-Master seal-550/ SIKA top seal -107 or approved equivalent over RCC slabs and walls of any wet area e.g. Baths, Kitchens, Balcony's etc, at any height in any floor as per manufacturer's specifications & recommendations complete in all respects as per drawings, relevant specifications and as directed by the Engineer.				
		First Floor	160 Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-



## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amout (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
6		<b>METAL WORKS</b>				
6.1	N.S.I	<b><u>M.S Staircase Railing</u></b> Providing, fabricating, welding & fixing in position MS Staircase railing comprising of 50mm dia x 16 Swg MS pipe hand rail, 25mm dia x 16 Swg dia balustrade welded to handrail as shown in the drawing including all required accessories & hardware such as base plate, cap, nuts & bolts etc. fixing arrangement (Drilling & grouting)etc including three coat of approved colour enamel paint over one coat od primer (Paint will be paid in seaprte item, refer BOQ Item) complete in all respects as per drawing, standard, specifications and direction of the Engineer.	70	Rft		-
6.5	N.S.I	<b><u>Monkey Ladder</u></b> Providing, fabricating, welding, bolting & fixing in position MS Access/Monkey ladder comprising MS Flat steel 2" x 3/8" thick ( Vertical member) weld with 8" x 8" x 3/8" thick steel plate bolt to Rcc slab, 8" x 3" x 3/8" thick steel plate weld to vertical flat and bolted to wall, 3/4" dia solid steel bar welded to flat @ 12" C/C, as shown on drawing, three coat of approved colour enamel paint over one coat od primer (Paint will be paid in seaprte schedule item, refer BOQ Item # ..... ) etc, including required hard ware complete in all respect as per drawing, standard, specifications and direction of the Engineer. <b>The contractor shall submit shop drawings (without any additional cost) for approval prior to start of work.</b>	30 Kg	Kg		-
6.6	N.S.I	Providing and fixing Tinted glass panes 6mm thick to wooden door, fixed glazing, windows, ventilators or where required etc including the cost of wooden trim, rubber gasket packing and screw etc, in any floor at any height.	165 Sft	Sft		-
6.7	N.S.I	Providing and fixing Anti-Oxidation Aluminum Spacer Bar for Double Glazing Glass up to 10mm wide including sicon sealant bead to door, fixed glazing, windows, ventilators or where required etc. including the cost of rubber gasket packing and screw etc., in any floor at any height.	330 Rft	Rft		-
		<b>Amount Carried to Civil Summary</b>				-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amout (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
7		<b>WOOD WORKS</b>				
7.1	N.S.I	<b><u>DOOR SHUTTERS</u></b> Providing, Making & fixing in position 1-1/2" (38mm) thick solid core approved colour Formica finish flush door shutters with & without vision panel. Comprising of 6mm thick lamination sheet (manufacturer pressed lamination sheet over lasani board) on either side, over all around best quality Partal or approved wood frame 50mm wide horizontal, vertical & cross /diagonal & 150mm wide lock rail in full length, hollow area except framing to be filled with the approved rough wood, 1-1/2" x 1/2" thick Golden teak wood edge lipping all around. The door shutter mechanically pressed by standard manufacturers under power driven hydraulic press as approved by the Engineer, with and without vision glass panel (vision glass panel will be paid seapreatly, in BOQ item # ....) including with and without vision glass panel, nails, glue or any required hardware's and applying solignum for termite treatment, at any height & any floor etc., complete in all respects as per drawing, standard , specifications and direction of the Engineer. <b>(Note: Cost of Ironmongery such as Hinges, Tower bolts, Locks, Handles, kick &amp; push plate etc. paid in Separate item.)</b>	450Sft	Sft		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
7.2	N.S.I	Providing and fixing in position as per drawings & joinery schedule all of <b>"New ISE" Hong Kong, New Star Japan</b> or approved equivalent make as per relevant drawings, contractor to submit the sample / shop drawings for approval prior to execution etc, complete in all respects as per drawing, standard , specifications and direction of the Engineer.				
		S.S Door hinges 4" long	120.Each	Each		-
		SS Dead Lock complete set	4.Each	Each		-
		SS Handle 36 inch long	0.Each	Each		-
		SS Handle 12 inch long	8.Each	Each		-
		Motorized Door Lock complete set (Lock body, Cylinder & Liver handle) for rooms	22.Each	Each		-
		SS Tower Bolt 24" long	8.Each	Each		-
		SS Tower Bolt 8" long	22.Each	Each		-
		Stainless Steel Kick plate 3mm thick	0 Sft	Sft		-
7.3		<b>Wooden Cabinets</b> Providing making and fixing in position <b>floor mounted lower cabinets</b> (Pantry etc.) as per drawing at any height / floor, made of 3/4" thick coloured laminated (both face) Lasani board shutter free from formaldehyde including all around OAK wood lipping kitchen cabinet, 3" x 1-1/2" thick Partal wood frame, complete with all accessories i.e. imported hinges, locks, magnetic catchers, best quality handles etc., including any termite treatment, providing & applying 03 coats of approved colour shade lacquer polish by Jaffar Brothers or similar approved as per manufacturer's instruction & specification including all required hardware's for fixing etc,complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. <b>(Front face will be measured for payments)</b>	32 Sft	Sft		-
7.4		Providing making and fixing in position wall mounted cabinets for (Kitchen/Pantry etc.) as per drawing at any height / floor, made of 3/4" thick colored laminated (both side) Lasani board shutter free from formaldehyde including all around Deodar wood lipping 3/8" thick, 3" x 1-1/2" thick Partal wood frame, 6mm one side laminated Lasani board back complete with all accessories i.e. imported hinges, locks, magnetic catchers, best quality handles etc., including any termite treatment, providing & applying 03 coats of approved colour shade lacquer polish by Jaffar Brothers or similar approved equivalent as per manufacturer's instruction & specification including all required hardware's for fixing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. <b>(Front face will be measured for payments)</b>	20 Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
8		<b>INTERNAL FLOOR FINISHES</b>				
8.1		<b>Porcelain Tiles</b> Providing, laying and fixing Per-Polished (Boticena) Marble Counter Top of approved thickness as per drawing & finishing schedule activities include 40mm thick RCC slab, 1:4 C.S mortar with Dry Bond, fixing in wall, cutting/chiseling in RCC / CC members etc, jointing, grouting, chamfering edging/half D gola around the counter top, finishing, maintaining proper level with curing etc. where required complete in all respects as per specifications and as directed by the Engineer.	65 Sft	Sft		-
8.3		Providing and laying Terrazzo tiles 13" x 12" x 1" thick for Treads with bull nosing & 3nos horizontal V- grooves at any floor including 1:3 screed bedding with mortar including jointing with grouting material of approved quality & grinding, polishing etc (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.	125 Sft	Sft		-
8.4		Providing and laying Terrazzo tiles 12" x 6" x 1/2" thick for Risers at any floor including 1:3 screed bedding with mortar including jointing with grouting material of approved quality & grinding, polishing etc (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.	70 Sft	Sft		-
8.5		Providing & Laying Natural stone 24" x 12" & 12" x 12", 1" & 1-1/2" thick rough finished approved local stone on entrance steps & floor (straight, curved, arches etc.) with cement sand mortar 1:2 and in any pattern in as per direction of the engineer-in-charge including the cost of curing, making the stone surface rough flat etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	560 Sft	Sft		-
8.6		Providing & Laying Natural stone 24" x 12" & 12" x 6" x 1/2" thick rough finished approved local stone on Floor, wall/ Dado/ Skirting /coping with cement sand mortar 1:2 in ground floor setting of stone tiles in slurry of grey cement over mortar base including filling of joints with cement slurry of matching colour curing etc. complete.	120.Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-
11		<b>ROOF FINISHES &amp; WATER PROOFING</b> <b>Providing &amp; laying complete roof treatment at any floor and any height as shown in the drawing, details consisting of following items complete in all respects as per drawing, standards, specifications and direction of the Engineer.</b>				
11.1		Providing & laying in position 1-1/2" (38mm) thick Diamond jumbolon-Board from Diamond Foam or approved equivalent having density 35kg/cum, over above Water Proofing membrane with rebated edge as per manufacturer's specifications, instruction & as shown in the drawing etc, complete in all respects as per drawings, specification and as directed by the Engineer.	2650 Sft	Sft.		-
11.2		Providing and laying BRC mesh 4" x 4" x 10 swg from Al - Burhan (Pvt) Ltd or approved equivalent including cutting, binding with steel binding wire etc. complete in all respects as per drawings, specifications and as directed by the Engineer.	2650 Sft	Sft.		-

BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amout (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
		Amount Carried to Civil Summary				-
12 12.1		EXTERNAL WALL FINISHES (BUILDING) Providing & Laying free fom natural stone wall cladding random stone 1" & 1-1/2" thick rough finished approved local stone on wall (straight, curved, arches etc.) with cement sand mortar 1:2 and in any pattern in as per direction of the engineer in-charge including the cost of curing, making the stone surface smooth etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	440 Sft	Sft		-
		Amount Carried to Civil Summary				-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
<b>A-SCHEDULE ITEMS</b>						
1		<p><b>All items under this head (Architectural work) to be carried out as per relevant Section of PWD &amp; technical specifications (Volume-II), Drawings, BSI/ASTM Standards, complete in all respect and to the entire satisfaction of the Engineer.</b></p> <p><b>Due to pitch roof second para of clause No 1.9 of General conditions of PWD schedule of rates-2012 will be applicable for the height of the higher side.</b></p> <p><b>DPC &amp; MASONRY WORKS</b></p> <p><b>Damp Proof Course (DPC)</b></p>				
1.1	Code -108 Item # 3 + Code -109 Item # 123	<p>Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded <b>crushed boulders (instead of Screened bajri)</b> of 3/4 inch (19 mm) and down gauge mixed with any approved water proofing agent including compacting, curing form work and its removal etc. complete, but excluding the cost of water proofing agent .etc., complete in all respects as per specifications &amp; relevant drawings and all works to the satisfaction of the Engineer.</p> <p>2" thick DPC</p>	276 Sft	100 Sft	2,812.71	7,763.08
1.2	Code -108 Item # 5	<p>Extra for using water proofing agent pudlo in item Nos. 4.1 (quantity to be used as per manufacturer's specification/2.50Kg per 100Sft).etc., complete in all respects as per specifications &amp; relevant drawings and all works to the satisfaction of the Engineer.</p>	7 Kg	Kg	86.10	602.70
1.3	Code-110 & Code-109	<p><b>Solid Block Masonry</b></p> <p>Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block masonry <b>more than 6 inches (152 mm) thick</b> using graded <b>crushed boulders (instead of Screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete in ground floor superstructure etc, complete in all respects as per drawing, standard , specifications and direction of the Engineer.</p>				
	Code-110 Item # 34+92+100 Code-109 Item # 120	Ground Floor	125 Cft	100 Cft	16040.34	20,050.43
1.4		<p>Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block <b>4 to 6 inches</b> (102mm to 152 mm) thick using graded <b>crushed boulders (instead of Screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete in all respects as per specifications &amp; relevant drawings and all works to the satisfaction of the Engineer.</p>				
	Code-110 Item # 44+92+100+ Code-109 Item # 120	Ground Floor	1890 Cft	100 Cft	16897.84	319,369.18
1.5	Code-112 Item #144	<p>Providing and laying wall ties of mild steel flats of approved section and design placed at horizontal and vertical spacing in cavity wall of any description in any floor at any height..</p>	25 Kg	Kg	181.84	4,546.00

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
1.6	Code -119 Item # 43	<b>METAL WORKS</b> Providing and fixing M.S. moulded steel door frame of 4" x 2-1/2" (102 mm x 64 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to BSS. 1245 having a single rebate size 1-1/2" x 1/2" (38 mm x 13 mm) with 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 No., 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. etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	32 Rft	Rft	157.12	5,027.84
1.7	Code -119 Item # 44	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	8 Rft	Rft	185.34	1,482.72
1.8	Code -122 Item #159	Painting Iron work with <b>synthetic enamel paint</b> of approved make and shade two coats over and including the cost of one priming coat at any height in any floor etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	30 Sft	100 Sft	2,776.62	832.99
1.9	Code -119 Item #102	Providing and fixing fully glazed Bronze anodized or powder coated aluminium Sliding / fixed & openable /Top hung windows & ventilators as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 95mm 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, but excluding the cost of glass pans.	40 Sft	Sft	568.07	22,722.80
2.0	Code -119 Item #121	Providing and fixing Tinted glass panes 5mm thick to M.S. Box pipe / Aluminium doors, windows and ventilators etc including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height. (For Doors, Windows & Fixed Glazing or where instructed)	70 Sft	Sft	106.11	7,427.70

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
2.1	Code-120 Item # 284	<b>Architrave / Beading</b> Providing and fixing best quality deodar wood projected beading upto one Sq. inch (6.45 Sqm.) in sections and required design fixed around the panels of doors, windows etc., of any description , complete in all respect as per drawings, specification and as directed by the Engineer.	40 Rft	Rft	35.66	1,426.40
2.2	Code-122 Item # 189	Applying French or spirit polishing, two coat of approved make on wood work at any height in any floor.	15 Sft	100 Sft	1,878.96	281.84
2.3	Code-117	<b>INTERNAL FLOOR FINISHES</b> Providing and laying 1:5:10 cement concrete bed under floors using graded stone ballast 3/4 & down <b>instead of 2 inches (51 mm)</b> and down gauge with levelling, ramming, watering and curing etc. complete. <b>(under Mosaic &amp; Porcelain tiles).</b>				
	Code-117 Item # 3	Ground Floor	12 Cft	100 Cft	9,442.42	1,133.09
2.4	Code-117	<b>Mosaic Floor</b> Providing and laying terrazzo floor 1-1/2 inches (38 mm) thick consisting of 1/2 inch (13 mm) thicktopping 1:2 (one grey cement 2 approved marble chips No. 0 to 4) in ground floor over a base of 1:2:4 (one cement, two sand and four screened graded bajri) cement concrete 1 inch (25 mm) thick laid in panels or pattern including form work, curing, cutting, rubbing and polishing etc. complete.				
	Code-117 Item # 12	Ground Floor	130 Sft	100 Sft	5,287.04	6,873.15
2.5	Code-117	Providing and laying in floor C.C. 1:2:4: tuff paver 2-1/2" thick of approved design and colour pattren (average strength 7000 psi) 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)				
	Code-117 Item # 178	Ground Floor	4000 Sft	Sft	74.89	299,560.00
2.6	Code-122	<b>INTERNAL WALL FINISHES</b> 1/2" (13 mm) thick cement plaster 1:6 on wall columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 6	Ground Floor	750 Sft	100 Sft	1730.74	12,980.55
2.7		<b>Dado &amp; Skirting</b> Providing and fixing marble mosaic tile 12" X 6" X 3/4" (305 mm X 152 X 19 mm) with chips No. 0 to 4 in <b>dado and skirting</b> of approved design in light shade over 1/2 inch (13 mm) thick base of 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 matching colour curing, grinding, rubbing and polishing etc. complete.				
	Code-118 Item # 54+56	Ground Floor	35 Sft	100 Sft	14,274.50	4,996.08
2.8	Code-122 Item # 151	Distempering with vinyl distemper (ICI) Deluxe Paintex of approved make and shade in 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.	750 Sft	100 Sft	1,053.54	7,901.55



BILL OF QUANTITIES						
S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amout (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
2.9	Code-122 Item # 6	<b>INTERNAL CEILING FINISHES</b> 1/2" (13 mm) thick cement plaster 1:6 on ceilings cantilever soffits others etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.  Ground Floor	1030 Sft	100 Sft	1,730.74	17,826.62

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
3.0	Code-122 Item # 151	Distempering with vinyl distemper (ICI) Deluxe Paintex of approved make and shade in 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.	1030 Sft	100 Sft	1,053.54	10,851.46
		<b>ROOF FINISHES &amp; WATER PROOFING</b> Providing and laying floor of 3 inches (76 mm) thick 1:2:4 reinforced cement concrete using graded crushed boulders <b>instead of screened bajri</b> 3/4" (19 mm) and down gauge in ground floor including form work, consolidation, finishing and curing etc. complete but excluding the cost of reinforcement.				
	Code-117 Item #7+26+27	Roof Lev (+8-6" upto +14'-10")	1280 Sft	100 Sft	4,289.49	54,905.47
3.1	Code-108 Item #27	Water proofing of roof slab using Bituflex @ 10 Kg per % sft in three coats, i/c cleaning /scraping the extra mortar etc. from the roof surface, and washing the surface with water and filling the depressions using Bituflex: sand mortar (1.2).Applying one primer coat, over moist surface using a mix of 50 %Bituflex and 50 % water blirded the surface with saul any floor in any light.	1280 Sft	100 Sft	685.80	8,778.24
3.2		<b>EXTERNAL WALL FINISHES (BUILDING)</b> 3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 8	Ground Floor	7700 Sft	100 Sft	2,367.12	182,268.24
3.3	Code-122	Painting three coats with <b>weather shield paint deluxe (ICI)</b> 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 etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 172	Ground Floor to Roof	7700 Sft	100 Sft	1,406.88	108,329.76
3.4	Code -117 Item # 33	Providing and laying floor of 3/4 inch (19 mm) thick white marble tiles upto 36 Sq. inch (232 sq.cm) size fine dressed on the surface without windings in ground floor and laid over 1 inch (25 mm) thick lime mortar 1:2 (one lime, two sand) setting the tiles with grey cement slurry over lime mortar, jointing & washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar.	100 Sft	100 Sft	15,685.68	15,685.68
3.5	Code-126 Item # 1	<b>HORTICULTURE WORK</b> Rough dressing of the area for lawn including picking stones, pebbles, stubble, grass roots and other injurious matters and breaking of clods complete including disposal of rubbish within 3 chains (92 m).	3600 Sft	100 Sft	103.32	3,719.52
3.6	Code-126 Item # 6	Supplying and stacking approved garden soil (sweet earth) free from salts, pebbles and grass roots etc. including all leads and lifts.	2988 Cft	100 Cft	4,003.42	119,622.19
3.7	Code-126 Item # 7	Spreading approved garden soil (sweet earth) in uniform thickness including mixing and breaking clods and dressing fine for grassing including disposal of rubbish within 3 chains (92 m) complete .	2988 Cft	100 Cft	193.38	5,778.19

BILL OF QUANTITIES

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1	2	3	4	5	6	7=4 x 6

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
3.8	Code-126 Item # 2	Supplying and stacking well decayed cowdung manure from approved source including all leads and lifts.	612 Cft	100 Cft	2,578.40	15,779.81
3.9	Code-126 Item # 3	Spreading cowdung manure and mixing the same upto any depth in the prepared bed including breaking clods, dressing fine for grassing, including, disposal of rubbish within 3 chains (92 m) complete.	612 Cft	100 Cft	107.74	659.37
4.0	Code-126 Item # 11	Supply live (Dacca) grass in slabs with earth intact including all lead and lifts.	3600 Sft	Sft	17.60	63,360.00
4.1	Code-126 Item # 13	Grassing fine by dribbling grass roots 3" apart including watering, weeding till such time the grass is set and becomes green and is fit for mowing	3600 Sft	100 Sft	244.19	8,790.84
		<b>Amount Carried to Civil Summary</b>				<b>1,341,333.00</b>
		<b>Add _____% Premium on Civil works of PWD-2012</b>				
		<b>Amount Carried to Master Summary</b>				
5		<b><u>MS Grill Door</u></b>				
5.1	N.S.I	Providing, fabricating, welding & fixing in position MS hollow tube folding grill door comprising of 1-1/2" x 3" x 16 Swg hollow tube & solid bar horizontal & vertical & 12 swg Ms sheet on either side as shown on drawing (EA-01012-GGWT-A6-0030), including hold fast (6 No), hinges, L-drop with lock & MS sheet 12 swg, heavy duty wheel up to 3" dia with cover, MS wheel track with 2" x 2" x 1/4" thick " T " iron including 1:2:4 concrete and all required fixing hardware including two coat of red oxide paint and three coat of epoxy paint of approved color & shades as per manufacturer's specification etc. complete in all respects as per drawing, standard, specifications and direction of the Engineer.	270Sft	Sft		-
5.2	N.S.I	Providing and fixing Anti-Oxidation Aluminum Spacer Bar for Double Glazing Glass up to 10mm wide including silicon sealant bead to door, fixed glazing, windows, ventilators or where required etc. including the cost of rubber gasket packing and screw etc., in any floor at any height.	20 Rft	Rft		-
5.3	N.S.I	<b>WOOD WORKS</b> Providing, Making & fixing in position 1-1/2" (38mm) thick solid core approved colour Formica finish flush door shutters with & without vision panel. Comprising of 6mm thick lamination sheet (manufacturer pressed lamination sheet over lasani board) on either side, over all around best quality Partal or approved wood frame 50mm wide horizontal, vertical & cross /diagonal & 150mm wide lock rail in full length, hollow area except framing to be filled with the approved rough wood, 1-1/2" x 1/2" thick Golden teak wood edge lipping all around. The door shutter mechanically pressed by standard manufacturers under power driven hydraulic press as approved by the Engineer, with and without vision glass panel (vision glass panel will be paid seapreatly, in BOQ item # ....) including with and without vision glass panel, nails, glue or any required hardware's and applying solignum for termite treatment, at any height & any floor etc., complete in all respects as per drawing, standard, specifications and direction of the Engineer. <b>(Note: Cost of Ironmongery such as Hinges, Tower bolts, Locks, Handles, kick &amp; push plate etc. paid in Separate item.)</b>	45Sft	Sft		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
5.4		<p>Providing and fixing in position as per drawings &amp; joinery schedule all of "New ISE" Hong Kong, New Star Japan or approved equivalent make as per relevant drawings, contractor to submit the sample / shop drawings for approval prior to execution etc, complete in all respects as per drawing, standard , specifications and direction of the Engineer.</p> <p>S.S Door hinges 4" long</p> <p>Motorized Door Lock complete set (Lock body, Cylinder</p> <p>SS Tower Bolt 8" long</p> <p><b>ROOF FINISHES &amp; WATER PROOFING</b>  <b>Providing &amp; laying complete roof treatment at any floor and any height as shown in the drawing, details consisting of following items complete in all respects as per drawing, standards, specifications and direction of the Engineer.</b></p>	8.Each	Each		-
			2.Each	Each		-
			2.Each	Each		-
5.5		<p>Providing &amp; laying in position 1-1/2" (38mm) thick Diamond jumbolon-Board from Diamond Foam or approved equivalent having density 35kg/cum, over above Water Proofing membrane with rebated edge as per manufacturer's specifications, instruction &amp; as shown in the drawing etc, complete in all respects as per drawings, specification and as directed by the Engineer.</p>	1280 Sft	Sft.		-
5.6		<p>Providing and laying BRC mesh 4" x 4" x 10 swg from Al - Burhan (Pvt) Ltd or approved equivalent including cutting, binding with steel binding wire etc. complete in all respects as per drawings, specifications and as directed by the Engineer.</p> <p><b>EXTERNAL WALL FINISHES (BUILDING)</b>          Providing &amp; Laying free form natural stone wall cladding random stone 1" &amp; 1-1/2" thick rough finished approved local stone on wall (straight, curved, arches etc.) with cement sand mortar 1:2 and in any pattern in as per direction of the engineer in-charge including the cost of curing, making the stone surface smooth etc. complete in all respects as per specifications &amp; relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)</p>	1280 Sft	Sft.		-
			900 Sft	Sft		-
Amount Carried to Civil Summary						-

# **ELECTRICAL WORKS**

BILL OF QUANTITIES

GRAND SUMMARY

S.NO:	DESCRIPTION	AMOUNT
1	ELECTRICAL WORKS	-
2	EXTRA LOW VOLTAGE (ELV) WORKS	-
TOTAL AMOUNT (Rs.)		-

## BILL OF QUANTITIES

## ELECTRICAL SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	SINGLE PVC INSULATED WIRE IN EXISTING CONDUIT	13,710
2	3 WIRE IN PVC RECESSED CONDUIT	679,505
3	uPVC CONDUIT & DUCT	36,083
4	"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD	64,554
5	BATTEN/ ANGLE HOLDER, CEILING ROSE, BELL/ INDICATORS	3,430
6	FITTING & FIXTURE (PHILIPS/SIGNIFY, OSRAM, GE, THORN)	1,141,202
7	CEILING FANS	125,006
8	WALL BRACKET FANS	11,708
9	PLASTIC BODY EXHAUST FANS	21,105
	<b>Total of Schedule Items</b>	2,096,303
	Add _____% Premium on Electrical Works of PWD-2022	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	CONDUITS & PIPES	-
2	L.V DISTRIBUTION BOARDS	-
3	LOW VOLTAGE CABLES AND WIRES	-
4	WIRING ACCESSORIES	-
5	LIGHTING FIXTURES	-
6	EARTHING SYSTEM	-
	<b>Total of Non-Schedule Items - B</b>	-
<b>TOTAL AMOUNT OF BUILDING (A+B)</b>		-



## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
<b>1</b>	<b>2-26</b>	<b><u>SINGLE PVC INSULATED WIRE IN EXISTING CONDUIT</u></b>				
a)	2-26-05	Supply & drawing of 10 mm <sup>2</sup> , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.	30	P/Meter	457	13,710
		<b>Amount Carried to Electrical Summary</b>				<b>13,710</b>
<b>2</b>	<b>2-34</b>	<b><u>3 WIRE IN PVC RECESSED CONDUIT</u></b>				
a)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to switch board / Light including wiring between switch on the same circuit)	100	P/Meter	510	51,000
b)	2-34-01	Wiring for sub-main with 3x 1.5 mm <sup>2</sup> , 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 as required. (Light point from switch board to point)	615	P/Meter	363	223,245
c)	2-34-01	Wiring for sub-main with 3x 1.5 mm <sup>2</sup> , 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 as required. (Light point to point)	130	P/Meter	363	47,190
d)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (For External Lighting, DB to switch board including wiring between switch on the same circuit)	40	P/Meter	510	20,400
e)	2-34-01	Wiring for sub-main with 3x 1.5 mm <sup>2</sup> , 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 as required. (For External Lighting, Light point from switch board to point)	190	P/Meter	363	68,970
f)	2-34-01	Wiring for sub-main with 3x 1.5 mm <sup>2</sup> , 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 as required. (For External Lighting, Light point to point)	175	P/Meter	363	63,525

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
g)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to 10A Outlet)	65	P/Meter	510	33,150
h)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (10A Outlet to 10A Outlet)	120	P/Meter	510	61,200
j)	2-34-03	Wiring for sub-main with 3x 4 mm <sup>2</sup> , 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 as required. (DB to 20A DP Switch for Electric Geyser)	40	P/Meter	715	28,600
k)	2-34-03	Wiring for sub-main with 3x 4 mm <sup>2</sup> , 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 as required. (20A DP Switch to Flex Outlet for Electric Geyser)	15	P/Meter	715	10,725
l)	2-34-03	Wiring for sub-main with 3x 4 mm <sup>2</sup> , 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 as required. (DB to 15A Outlet for Electric Heater)	100	P/Meter	715	71,500
		<b>Amount Carried to Electrical Summary</b>				<b>679,505</b>
<b>3</b>	<b>2-61</b>	<b><u>uPVC CONDUIT &amp; DUCT</u></b>				
a)	2-61-03	Supply & fixing 30mm (1-1/4") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	8	P/Meter	241	1,928
b)	2-61-05	Supply & fixing 50mm (2") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	45	P/Meter	759	34,155
		<b>Amount Carried to Electrical Summary</b>				<b>36,083</b>

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>4</b>	<b>2-66</b>	<b>"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD</b>				
a)	2-66-01	Providing & fixing 10 Amps Polycarbonate flame retardant S.P switch with fancy required gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Schneider / Philips)	6	Each.	471	2,826
b)	2-66-02	Providing & fixing 10 Amps Polycarbonate flame retardant Two way switch with fancy gang plate fixed on die fabricated, powder coated, metal board recessed in wall or column including connection as required. (Schneider / Philips)	2	Each.	531	1,062
c)	2-66-04	Providing & fixing 10 Amps Polycarbonate flame retardant 2-Pin switch socket unit (Universal) with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Schneider / Philips)	36	Each.	933	33,588
d)	2-66-06	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)	8	Each.	1,290	10,320
e)	2-66-11	Providing & fixing Polycarbonate flame retardant, fan dimmer with plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (Schneider / Philips)	14	Each.	1,197	16,758
		<b>Amount Carried to Electrical Summary</b>				<b>64,554</b>
<b>5</b>	<b>2-67</b>	<b>BATTEN/ ANGLE HOLDER, CEILING ROSE, BELL/ INDICATORS</b>				
a)	2-67-02	Providing & fixing 6 Amps Plastic ceiling rose on PVC Round block/Round Cover fitted on surface including connection as required.	14	Each.	245	3,430
		<b>Amount Carried to Electrical Summary</b>				<b>3,430</b>
<b>6</b>	<b>2-77</b>	<b>FITTING &amp; FIXTURE (PHILIPS/SIGNIFY, OSRAM, GE, THORN)</b>				
a)	2-77-02	Providing, Installation, Testing & Commissioning of recessed / surface mounted project / professional series ceiling lights / downlights including driver having warm / neutral white / cool white colour, 100-110 lm/watts efficiency, 0.9 or above power factor, 40000-50000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge.				
i	e	16-18 Watts	25	Each.	14,650	366,250
ii	f	19-21 Watts	46	Each.	14,870	684,020

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
b)	2-77-05	Providing, Installation, Testing & Commissioning of Flood Lights (IP66) including driver, having neutral white / cool white colour, 90-110 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.				
i	c	70-80 Watts	4	Each.	22,733	90,932
		<b>Amount Carried to Electrical Summary</b>				<b>1,141,202</b>
<b>7</b>	<b>2-80</b>	<b><u>CEILING FANS</u></b>				
a)	2-80-02	Providing & installing 120 Cm (48") 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.	6	Each.	8,369	50,214
b)	2-80-03	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.	8	Each.	9,349	74,792
		<b>Amount Carried to Electrical Summary</b>				<b>125,006</b>
<b>8</b>	<b>2-81</b>	<b><u>WALL BRACKET FANS</u></b>				
a)	2-81-03	Providing & installing 45 Cm (18") sweep wall bracket fan complete with blades, regulator & pulling cord switch, fitted on wall or column with GI clip including connection as required. Pak, Royal, GFC, Younas, Millat.	2	Each.	5,854	11,708
		<b>Amount Carried to Electrical Summary</b>				<b>11,708</b>
<b>9</b>	<b>2-84</b>	<b><u>PLASTIC BODY EXHAUST FANS</u></b>				
a)	2-84-01	Providing & installing 20 Cm (8") sweep, Plastic body Exhaust fan complete with blades, motor, etc fixed in existing hole including connection with 14.0076" flexible wire complete as required. Pak, Royal, GFC, Younas, Millat.	7	Each.	3,015	21,105
		<b>Amount Carried to Electrical Summary</b>				<b>21,105</b>

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>NON-SCHEDULE ITEMS</b>						
1		<b><u>CONDUITS &amp; PIPES</u></b>				
a)		Supply and installation of following size internal diameter PVC / uPVC Class-D pipe / Flexible PVC Conduit as race ways with all accessories, recessed / surface on wall / column / under floor, as per drawings and specifications, complete in all respect.				
i		50 mm dia PVC Conduit	5	Rm.		-
b)		Supply and installation of following size uPVC Pipe Class-D for Power cables, buried in ground / under floor as per specification, including excavation for laying of pipe, bricks and backfilling with new and fresh sand (6" under and 6" above pipe) etc., (wherever required), as shown on the specifications and drawings, complete in all respect.				
i		50mm dia uPVC Pipe (Class-D)	5	Rm.		-
c)		Supply and installation of Pull Boxes (Floor / Wall) with all installation accessories, as per drawings, specifications and approved brands, complete in all respect.	1	No.		-
d)		Providing and Construction of Handhole Size 1'-6" x 1'-6" x 2'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For Electrical cables)	1	No.		-
e)		Providing and Construction of Handhole Size 2'-0" x 2'-0" x 2'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For Electrical cables)	1	No.		-
		<b>Amount Carried to Electrical Summary</b>				-
2		<b><u>L.V. DISTRIBUTION BOARDS</u></b>				
a)		Supply, installation, testing and commissioning of following wall mounting / floor standing surface type Sub Main Distribution Boards (SMDB's) and Distribution Board (DB's) made with 16 SWG sheet metal, dust protected, vermin proof housing coated with approved color having all the necessary switching, energy analyzer etc., protections, as per drawing and specification, complete in all respect.				
i		SMDB-VC	1	No.		-
ii		DB-VC	1	No.		-

ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Amount Carried to Electrical Summary				-

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>3</b>		<b><u>LOW VOLTAGE CABLES AND WIRES</u></b>				
3.1		Supply, laying, termination, tagging, testing and commissioning of following size copper conductor multi core / single core, Cu/PVC, Cu/PVC/PVC, unarmoured, 0.6 kV/1 kV, 450/750V or 300/500V voltage grade copper cable in already laid uPVC conduit / cable tray / trench including all accessories lugs, cable gland etc. as per drawings and specification, complete in all respect.				
a)		<b>4 Core, Cu./PVC/PVC Cable (600/1000V)</b>				
i		4C, 10 Sqmm Cu/PVC/PVC	22	Rm.		-
		<b>Amount Carried to Electrical Summary</b>				-
<b>4</b>		<b><u>WIRING ACCESSORIES</u></b>				
a)		Supply, installation, testing and commissioning of following 10/15/20A, One/Two/Three/Four gang type switches, Dimmer Switches, Sockets including 16 SWG Sheet Steel powder coated back boxes with earth terminal, recessed in wall, with all accessories as per drawings and specification, complete in all respects.				
i		Two Gang Switch 10A	7	No.		-
ii		Two Gang Switch 10A (Weatherproof type)	2	No.		-
iii		Three Gang Switch 10A	10	No.		-
iv		Three Gang Switch 10A (Weatherproof type)	5	No.		-
v		Four Gang Switch 10A	4	No.		-
vi		Four Gang Switch 10A (Weatherproof type)	1	No.		-
vii		10A, 2-Pin Switch Socket Outlet (Weatherproof type)	1	No.		-
viii		20A, Double Pole Switch with neon indicator	4	No.		-
ix		20A, Flex Outlet	4	No.		-
x		Shaver Socket	5	No.		-
		<b>Amount Carried to Electrical Summary</b>				-
<b>5</b>		<b><u>LIGHTING FIXTURES</u></b>				
a)		Supply, installation, testing and commissioning of following Light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per drawings and specifications, complete in all respects. Lighting fixtures sample must be submitted to consultant for approval. Note: Refer light fixtures drawings for complete light fixtures details.				
i		Wall / Surface mounted LED Bi-Directional Light Fixture (IP-54) with 2x12W LED lamp	28	No.		-
ii		Suspended mounted LED Pendent Light Fixture (IP-20) with 1x25W LED lamp	3	No.		-

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
iii		Suspended mounted LED Chandelier Light Fixture with 50W LED lamp	3	No.		-
iv		Wall mounted LED Bulkhead Light Fixture (IP-65) with 1x12W LED lamp	15	No.		-
v		Wall mounted LED Mirror Light Fixture (IP-44) with 1x8W LED lamp	5	No.		-
vi		Wall / Surface mounted LED Wall Light Fixture (IP-20) with 1x20W LED lamp	9	No.		-
b)		Supply, installation, testing and commissioning of following items including all connecting accessories as per drawings, specifications, complete in all respects.				
i		Fan Hook M.S.Box with colour coated	14	No.		-
		<b>Amount Carried to Electrical Summary</b>				-
<b>6</b>		<b><u>EARTHING SYSTEM</u></b> Supply, installation, testing and commissioning of following items for complete earthing system including all connecting accessories as per drawings, specifications and as mentioned in General Notes, complete in all respects.				
a)		Supply, installation, testing and commissioning of following items for complete Power Earthing system, including Bentonite chemical, other all required materials and connecting accessories, boring, labor, tools, transportation etc., as per drawings and specifications, complete in all respects with detailed test reports.				
i		Earth pit with Rod type earth electrode, 3/4" dia and 9 Ft. long copper bonded rod.	1	No.		-
		<b>Amount Carried to Electrical Summary</b>				-



# **ELV WORKS**

## BILL OF QUANTITIES

## ELV SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	UPVC CONDUIT & DUCT	34,155
2	"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD	6,816
	<b>Total of Schedule Items</b>	40,971
	Add _____% Premium on ELV Works of PWD-2022	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	CONDUITS & PIPES	-
2	VOICE COMMUNICATION SYSTEM (Passive Equipment Only)	-
3	CABLE TELEVISION SYSTEM (CATV)	-
	<b>Total of Non-Schedule Items - B</b>	-
<b>TOTAL AMOUNT OF BUILDING (A+B)</b>		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
1	2-61	<b>uPVC CONDUIT &amp; DUCT</b>				
a)	2-61-05	Supply & fixing 50mm (2") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	45	P/Meter	759	34,155
		<b>Amount Carried to ELV Summary</b>				<b>34,155</b>
2	2-66	<b>"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD</b>				
a)	2-66-12	Providing & fixing Polycarbonate flame retardant T.V Socket with plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (Schneider / Philips)	6	Each.	1,136	6,816
		<b>Amount Carried to ELV Summary</b>				<b>6,816</b>
<b>NON-SCHEDULE ITEMS</b>						
1		<b>CONDUITS &amp; PIPES</b>				
a)		Supply and installation of following size internal diameter PVC / uPVC Class-D pipe / Flexible PVC Conduit as race ways with all accessories, recessed / surface on wall / column / under floor, as per drawings and specifications, complete in all respect.				
i		25 mm dia PVC Conduit	150	Rm.		-
ii		50 mm dia PVC Conduit	5	Rm.		-
iii		25 mm dia Flexible PVC Conduit	5	Rm.		-
b)		Supply and installation of following size uPVC Pipe Class-D for Telecommunication Cable (copper / optic fiber). Buried in ground / under floor as per specification, including excavation for laying of pipe, bricks and backfilling with new and fresh sand (6" under and 6" above pipe) etc., (whereever required), as shown on the specifications and drawings, complete in all respect.				
i		100mm dia uPVC Conduit (Class-D)	5	Rm.		-
c)		Supply and installation of Pull Boxes (Floor / Wall) with all installation accessories, as per drawings, specifications and approved brands, complete in all respect.	1	No.		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
d)		Providing and Construction of Handhole Size 1'-6" x 1'-6" x 2'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For ELV cables)	1	No.		-
e)		Providing and Construction of Handhole Size 2'-0" x 2'-0" x 2'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For ELV cables)	1	No.		-
		<b>Amount Carried to ELV Summary</b>				-
<b>2</b>		<b><u>VOICE COMMUNICATION SYSTEMS (Passive Equipment Only)</u></b> Supply, installation, testing and commissioning of following items for Voice Communication System as it may require to complete the entire passive and active network including all accessories, as per the single line diagram, drawings and specifications, complete in all respect.				
a)		Supply, installation, testing and commissioning of Single RJ-45, Cat-6 outlet for Voice with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.	8	No.		-
b)		Supply, laying, termination, testing and commissioning of CAT 6 - 4 pair cable for Single RJ-45 outlet (for Voice) in already laid 25mm dia PVC conduit concealed / surface from each outlet to TJB, including tagging and piping with all necessary accessories, complete in all respect.	115	Rm.		-
c)		Supply, installing, testing and commissioning of following 19" Tag blocks in Telephone Junction Box (TJB), as per drawing and specification, complete in all respect.				
i		TJB with 2x10 Pair IDC Block 19" type	1	No.		-
d)		Installation, testing and commissioning by Manufacturer Authorized Agent / Dealer and handing over complete Voice & Data System to Owner with Providing Training voice data fuke & OTDR Testing, as build drawing, Rack layouts and certification's Principal, complete equipment's Manual and Warranty Documents to Owners representative.	1	Job.		-
		<b>Amount Carried to ELV Summary</b>				-
<b>3</b>		<b><u>CABLE TELEVISION SYSTEM (CATV)</u></b>				
a)		Supply and installation of TVJB Splitter Box with 2x4 Way Splitter, complete in all respects.	1	No.		-
b)		Supply and installation of CATV RG-06 Co-axial 75 ohms shielded cable in already laid 25mm dia PVC conduit from box to TV outlet, complete in all respects.	95	Rm.		-
		<b>Amount Carried to ELV Summary</b>				-

# **PLUMBING WORKS**

## PLUMBING SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	MAN HOLES	114,220
2	U.P.V.C PIPE (EXTERNAL) "D" CLASS	101,816
	<b>Total of Schedule Items</b>	216,036
	Add _____% Premium on Plumbing Works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	PLUMBING FIXTURES	-
2	WATER SUPPLY WORKS	-
3	DRAINAGE WORKS	-
4	FIRE FIGHTING WORKS	-
	<b>Total of Non-Schedule Items - B</b>	-
<b>TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B)</b>		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
1		<b><u>MAN HOLES:</u></b>				
	315 -15 / Pg:82	Providing manhole type 'B' size 3 feet x 2-1/2 feet (914 mm x 762 mm) (inside dimensions) 4 feet (1219 m) 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 (1.22m to 2.66 m) depth with 18 inches (457 mm) dia. (inside) cast iron cover and frame (weight=1 cwt. 3 Qrs.) (88.90 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.	4	Nos	19,407.41	77,630
	313 -5 / Pg:73	Excavation in all kinds of soil, murum, hard, average or soft including lift up to 5 feet (1.52m) and lead upto one chain (30.48m)	252	%CFT	599.70	1,511
	315 -26 / Pg:84	providing & fixing C.I. Cover & Frame 18" dia (460mm) weight 1 cwt. 3 Qtr (88.90 Kg.)	4	Nos	8,769.90	35,080
2		<b><u>u.P.V.C PIPE (EXTERNAL) "D" CLASS:</u></b>				
	306 - 21 / Pg: 57	Providing and fixing un plasticized polyvinyl chloride pipe (P.V.C) "D" class and specials etc. including cutting and fitting complete with and including the cost of cutting trench up to 1-1/2 feet deep refilling, watering, ramming, and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 km.) (working pressure 12 kg/cm2 ) 1-1/4 inches (32 mm) dia.				
	306 - 27 / Pg: 57	6" inches (150 mm) dia pipe	200	Rft	509.08	101,816
		<b>Amount Carried to Plumbing Summary</b>				<b>216,036</b>

[illegible]



## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1		<b><u>WATER SUPPLY:</u></b> <b><u>COLD &amp; HOT WATER PIPING:</u></b> Supply, installation, testing and Commissioning of PPR PN - 20 Cold/Hot water pipes as per DIN 8077-8078 with molded fittings PN - 25 as per DIN 16962, including pipe supports, cutting, filling, testing/commissioning and all accessories as indicated on the drawing, as per specifications and Engineers approval.				
i		3/4" dia	240	Rft		-
ii		1" dia	290	Rft		-
iii		1 1/4" dia	80	Rft		-
iv		1 1/2" dia	270	Rft		-
v		2" dia	110	Rft		-
2		<b><u>ISOLATION VALVES:</u></b> Providing and fixing of PPR Coated PN-20 Gate valves of bronze material for diameter 2" and smaller and Cast Iron material for Diameter greater than 2" as per specifications and Engineers approval.				
i		3/4" dia	2	Nos		-
ii		1" dia	4	Nos		-
iii		1 1/4" dia	3	Nos		-
iv		1 1/2" dia	4	Nos		-
v		2" dia	1	Nos		-
3		<b><u>PLUMBING SPECIALITIES:</u></b> Supply and installation of the following including all fittings, fixings, accessories, etc., as indicated on the drawing, as per Specifications and Engineers approval.				
i		1/2" dia. Bib Tap	5	Nos.		-
ii		1" Air Relief Valve	-	Nos.		-
4		<b><u>HOT WATER PIPE INSULATION:</u></b> Supply, installation, testing and Commissioning of 20mm thick closed cell rubber foam inculation (NBR) for cold & hot water piping, as per specifications and Engineers approval.				
i		3/4" dia	240	Rft		-
ii		1" dia	290	Rft		-
iii		1 1/4" dia	80	Rft		-
iv		1 1/2" dia	270	Rft		-
v		2" dia	110	Rft		-
		Continued..				

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
5		<b><u>WATER COOLER:</u></b> Supply and installation of Stainless Steel Electric water cooler of below mentioned capacity with two taps, R-22 Refrigeration system, S.Steel Tank safety tested at 10kg/cm2 (142 p.s.i.) with recommended maximum working pressure of 3kg/cm2 (42 p.s.i.) including all accessories like Valves, interconnecting piping, Drain tray and drain connection s as indicated in the drawings, as per specifications and engineers approval. WC - ( Capacity 32 GPH )	-	Nos		-
6		<b><u>3 STAGE WATER FILTER:</u></b> Supply and installation of 3 stage filter having 5 Microns Pre Filter, Active Carbon Filter and UV Water filter having minimum flow rate of 200 Gallons per Day to be installed with Water cooler , including valves, piping, accessories, etc., as per specifications and Engineers approval.	-	Nos		-
7		<b><u>CEILING HUNG ELECTRIC HEATER:</u></b> Providing and fixing of ceiling hung Electric Hot water heater with all accessories like Clamps, isolation valves, Air relief valves as indicated in the drawings, as per specifications and engineers approval.				
i		EWH - ( Capacity 50 litre)	2	Nos		-
ii		EWH - ( Capacity 80 litre)	2	Nos		-
iii		EWH - ( Capacity 100 litre)	1	Nos		-
		<b>Continued..</b>				

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
8		<b><u>WATER TANK CONNECTION:</u></b> Connection for water tank including with valves, supports, excavation and Backfill, complete all in accordance with the drawing and specifications.				
i		Connection to overhead water tanks using Float valve	1	Nos		-
ii		Cast Iron Medium Duty Cover For RCC water tanks	1	Nos		-
9		<b><u>RECIRCULATION PUMP:</u></b> Supply and installation of below mentioned circulation pump sets including pump foundation, control panel, wiring, valves, piping, accessories, etc., as indicated on the drawing, as per specifications and Engineers approval.  Recirculation pump Pump ( for Water Body) Flow = 25 GPM @ 20Ft head				
			1	Nos		-
<b>Sub Total of Water Supply Works</b>						-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1		<b><u>DRAINAGE WORKS:</u></b> <b><u>SOIL, WASTE &amp; VENT PIPING:</u></b> Providing and fixing, uPVC pipes and fittings as per BS EN 1329 for above ground installations for Soil, Waste, Vent pipes with Kite mark on pipes and fittings including cleanout plug, clamps, hanger collars, supports, specials (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval.				
i		2" dia	80	Rft		-
ii		3" dia	420	Rft		-
iii		4" dia	200	Rft		-
2		<b><u>DRAINAGE SPECIALITIES:</u></b> Providing and fixing of Multi floor trap with multiple dia inlet and Single outlet and cleanout plug of the approved self cleaning design with S.Steel grating as specified by the architect, as indicated on the drawing, as per specifications, architectural finishing schedule and Engineers approval. Providing and fixing UPVC cowl for vent pipe of the following dia including all accessories complete in all respects.	12	Nos		-
i		2" dia	-	Nos		-
ii		3" dia	2	Nos		-
iii		4" dia	2	Nos		-
3		Providing and fixing of 8" X 8" X 12" ductile Iron catch basin with ductile iron grating and minimum 150mm side Outlet, as specified by the architect, as indicated on the drawing, as per specifications, architectural finishing schedule and Engineers approval.	6	Nos		-
		Continued..				

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
3		<b><u>GULLY TRAPS:</u></b> Construction of 12" x 12" gully trap with 8" P- trap and 12" x 12" cover (min Weight =45 kg) as specified and shown on the drawing, as per specifications and Engineers approval.	3	Nos		-
		<b>Sub Total of Drainage Works</b>				-

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**HOUSE FOR PROFESSORS & DEAN**  
**(4 No.)**

BILL OF QUANTITIES

GRAND SUMMARY

S.NO:		Amount
1	Structure	
2	Architecture	
3	Electrical Works	
4	ELV Works	
5	Plumbing Works	
TOTAL CARRIED TO MASTER SUMMARY		-



# **CIVIL WORKS**

## **(STRUCTURE)**

## BILL OF QUANTITIES

## Civil SUMMARY

S.NO:	Description	Amount
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	EARTH WORKS	84,883
2	SUB STRUCTURE	-
3	SUPER STRUCTURE	2,548,482
4	EXTERNAL WORKS (STRUCTURE) OTHER THAN BUILDING (NON COVERED AREA)	1,024,752
	<b>Total of Schedule Items with Premium - A</b>	<b>3,658,117</b>
	Add _____% Premium on Civil Works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	EARTH WORKS	-
2	SUB STRUCTURE	-
3	SUPER STRUCTURE	-
4	EXTERNAL WORKS (STRUCTURE) OTHER THAN BUILDING (NON COVERED AREA)	-
	<b>Total of Non-Schedule Items - B</b>	<b>-</b>
	<b>Total Amount of 01 House (A+B)</b>	<b>1</b>
	<b>TOTAL AMOUNT OF 04 NOS CARRIED TO GRAND SUMMARY</b>	<b>4</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7 = 4 x 6
<b>BUILDING</b>		<b>A-SCHEDULE ITEMS</b>				
<b>1</b>		<b>All items under this head (Structure work) to be carried out as per relevant Section of PWD &amp; technical specifications (Volume-II), Drawings, BSI/ASTM Standards, complete in all respect and to the entire satisfaction of the Engineer. Due to pitch roof second para of clause No 1.9 of General conditions of PWD schedule of rates-2022 will be applicable for the height of the higher side.</b>				
1.1	Code -103,	<b>EARTH WORKS</b> Excavation for foundation trenches and drains in <b>gravelly soil</b> and back filling the excavated material in foundation trenches, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) 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).				
	Item # 2	From ± 0'-0" to -5' - 0"	8105 Cft	100 Cft	613.14	49,695
	Item # 2+28	From -5' - 0" to -8' - 0"	2060 Cft	100 Cft	690.49	14,224
1.2	Code -104 Item #4	Filling bajri available at site in foundation plinth or under floor, etc. including dressing, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, complete within a lead of one chain (30.5 R.m) and lift of 5 feet (1.52 R.m), etc. complete, including all lifts etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	3040 Cft	100 Cft	261.80	7,959
1.3	Code -117 Item #1	Providing and laying soling stones 6 inches to 9 inches (152 mm to 229 mm) size under floors/foundations & where required etc. including packing with spraws and chips and consolidating etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	400 Cft	100 Cft	3,251.34	13,005
<b>Amount Carried to Civil Summary</b>						<b>84,883</b>
<b>2</b>		<b>SUB STRUCTURE</b>				
2.1	Code -106	<b>CONCRETE WORKS</b> Providing and laying in situ <b>1:4:8</b> (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 11	Below plinth beam, situ, walls, tanks, over stone soling or where required <b>(Cylindrical 1000 Psi)</b>	900 Cft	100 Cft	14,411.43	129,703

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
2.2	Code -106	Providing and laying in situ 1:3:6 (1 cement 3 sand and 6 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 12	For Cast in situ / mass concrete or where required (Cylindrical 1500 Psi)	280 Cft	100 Cft	15,840.97	44,355
2.3	Code -114	<b>REINFORCED CONCRETE WORKS</b> Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N/mm2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in columns footing of required shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 1+134+137	Foundation for any type (Cylindrical Strength 3000 Psi)	2060 Cft	100 Cft	21,685.85	446,729
2.4	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 4+135+138	Columns upto plinth (Cylindrical Strength 3750 Psi)	300 Cft	100 Cft	26,704.50	80,114
2.5	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in straight walls more than 6 inches (152 mm) thick including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 9+135+138	Rcc Wall (Cylindrical Strength 3750 Psi)	0 Cft	100 Cft	27,958.39	-
2.6	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in plinth beams of required shape and design including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 8+134+137	Plinth Beams i/c nibs / projections (Cylindrical Strength 3000 Psi)	500 Cft	100 Cft	22,344.09	111,720
2.7	Code -114 Item # 166	Providing and laying hard grade ribbed deformed (minimum yield point 60,000 psi or 414 Mpa) reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension,etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. (Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).				
			8000 Kg	Kg	123.02	984,160
2.8	Code -108 Item # 12	Providing a coat of bitumen emulsion at 10 Lbs. per % sft. (0.49 Kg/sm) on walls and floor in ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
			4850 Sft	100 Sft	648.08	31,432
Amount Carried to Civil Summary						1,828,213

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
<b>B-NON-SCHEDULE ITEMS</b>						
2.9		<b>SUB STRUCTURE</b> <b>TERMITE PROOFING</b> Providing and Carrying out termite proofing in foundation, 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 Engineer incharge,etc., complete in all respects as per drawing, standard, specifications and as directed by the Engineer. <i>(Note: Plinth Area will be measured one time for payment where is the number of applications will be three times on all horizontal &amp; vertical surfaces of the excavation for termite proofing)</i>	1,020	Sft		-
Amount Carried to Civil Summary						-
3		<b>SUPER STRUCTURE</b>				
3.1	Code -114	<b>REINFORCED CONCRETE WORKS</b> Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in the ground floor etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.  <b>Columns (Cylindrical Strength 3750 Psi)</b>				
	Item # 24+135+138	Ground Floor	330 Cft	100 Cft	30,389.36	100,285
	Item # 24+135+138+92	First Floor	285 Cft	100 Cft	31,338.56	89,315
3.2	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in straight walls, vertical fins etc. more than 6 inches (152 mm) thick including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in ground floor etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.  <b>Rcc Wall (Cylindrical Strength 3750 Psi)</b>				
	Item # 30+135+138	Ground Floor	0 Cft	100 Cft	28,692.59	-
3.3	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N/mm2 at 28 days)</b> with a mix not leaner than 1:1-1/2:2.3 in straight beams lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in basement and ground floor etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.  <b>Beams and projections (Cylindrical Strength 3000 Psi)</b> <b>Ground Floor</b>				
	Item # 38+134+137	Ground Floor	600 Cft	100 Cft	24,839.57	149,037
	Item # 38+134+137+92	First Floor	635 Cft	100 Cft	25,788.77	163,759
3.4	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3000 lbs. per sq. inch (20.68 N/mm2 at 28 days)</b> with a mix not leaner than 1:2:4 in straight beams lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in basement and ground floor etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.  <b>Bracing beams / lintels / nibs / sills / bands /around opening (Cylindrical Strength 2500 Psi)</b>				
	Item # 38+136	Ground Floor	100 Cft	100 Cft	20,668.60	20,669
	Item # 38+136+92	First Floor	80 Cft	100 Cft	21,617.80	17,294

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
3.5	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in ordinary slab 5 inches (127 mm) to 6 inches (152mm) thick including form work and its removal compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
		Slab i/c projections (straight & sloping ) <b>(Cylindrical Strength 3000 Psi)</b>				
	Item # 56+134+137	Ground Floor	450 Cft	100 Cft	24,314.96	109,417
	Item # 56+134+137+92	First Floor	675 Cft	100 Cft	25,264.16	170,533
3.6	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in ordinary slab more than 6 inches (152 mm) thick including form work and its removal compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
		Slab i/c projections (straight & sloping ) <b>(Cylindrical Strength 3000 Psi)</b>				
	Item # 57+134+137	Ground Floor	0 Cft	100 Cft	23,691.64	-
	Item # 57+134+137+92	First Floor	0 Cft	100 Cft	24,640.84	-
3.7	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in straight stairs and landing of required section including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor.etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
3.8	Item # 50+134+137	Stair Case / steps /seats (Steps, Landing & Waist slab) <b>(Cylindrical Strength 3000 Psi)</b>				
		Ground Floor	125 Cft	100 Cft	30,160.60	37,701
	Item # 50+134+137+92 Code -114	First Floor Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in a square of rectangular bottom slab of over head water tank up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement .etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	0 Cft	100 Cft	31,109.80	-
3.9	Item # Code -114	OH Water Tank Bottom Slab <b>(Cylindrical Strength 3750 Psi)</b> Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in straight walls in over head water tank bins, bunkers, intze tanks and silo up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	50 Cft	100 Cft	33,233.11	16,617
	Item #	OH Water Tank Walls <b>(Cylindrical Strength 3750 Psi)</b>	70 Cft	100 Cft	33,808.88	23,666
3.10	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in roof slab of over head water tank up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
3.11	Item # 118+135+138 Code -114	OH Water Tank Top Slab <b>(Cylindrical Strength 3750 Psi)</b> Providing and laying hard grade ribbed deformed <b>(minimum yield point 60,000 psi or 414 Mpa)</b> reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>	40 Cft	100 Cft	65,041.55	26,017
	Item # 166	Ground Floor	6120 Kg	Kg	123.02	752,882
	Item # 166+174	First Floor	7000 Kg	Kg	124.47	871,290
Amount Carried to Civil Summary						2,548,482

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
<b>EXTERNAL</b>						
<b>A-SCHEDULE ITEMS</b>						
<b>1</b>		<b>EARTH WORKS</b>				
1.1	Code -103,	Excavation for foundation trenches and drains in <b>gravelly soil</b> and back filling the excavated material in foundation trenches, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) 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).				
	Item # 2	From ± 0'-0" to -5' - 0"	2125 Cft	100 Cft	613.14	13,029
	Item # 2+28	From -5' - 0" to -8' - 0"	465 Cft	100 Cft	690.49	3,211
1.2	Code -104 Item #4	Filling bajri available at site in foundation plinth or under floor, etc. including dressing, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, complete within a lead of one chain (30.5 R.m) and lift of 5 feet (1.52 R.m). etc. complete, including all lifts etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	0 Cft	100 Cft	261.80	-
1.3	Code -117 Item #1	Providing and laying soling stones 6 inches to 9 inches (152 mm to 229 mm) size under floors/foundations & where required etc. including packing with spraws and chips and consolidating etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	0 Cft	100 Cft	3,251.34	-
<b>2</b>		<b>SUB STRUCTURE</b>				
		<b>CONCRETE WORKS</b>				
2.1	Code -106	Providing and laying in situ <b>1:4:8</b> (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 11	Below plinth beam,situ,walls,tanks, over stone soling or where required <b>(Cylindrical 1000 Psi)</b>	240 Cft	100 Cft	14,411.43	34,587
2.2	Code -106	Providing and laying in situ <b>1:3:6</b> (1 cement 3 sand and 6 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work, etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 12	For Cast in situ / mass concrete or where required <b>(Cylindrical 1500 Psi)</b>	100 Cft	100 Cft	15,840.97	15,841
2.3	Code -114	<b>REINFORCED CONCRETE WORKS</b> Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in columns footing of required shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 1+134+137	Foundation for any type <b>(Cylindrical Strength 3000 Psi)</b>	400 Cft	100 Cft	21,685.85	86,743
2.4	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth. etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 4+135+138	Columns upto plinth <b>(Cylindrical Strength 3750 Psi)</b>	275 Cft	100 Cft	26,704.50	73,437
2.5	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in plinth beams of required shape and design including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 8+134+137	Plinth Beams i/c nibs / projections <b>(Cylindrical Strength 3000 Psi)</b>	375 Cft	100 Cft	22,344.09	83,790



## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
2.6	Code -114 Item # 166	Providing and laying hard grade ribbed deformed <b>(minimum yield point 60,000 psi or 414 Mpa)</b> reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>	3785 Kg	Kg	123.02	465,631
2.7	Code -108 Item # 12	Providing a coat of <b>bitumen emulsion at 10 Lbs. per % sft. (0.49 Kg/sm)</b> on walls and floor in ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	2645 Sft	100 Sft	648.08	17,142
<b>3</b>		<b><u>SUPER STRUCTURE</u></b>				
		<b><u>REINFORCED CONCRETE WORKS</u></b>				
3.1	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in the ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 24+135+138	Ground Floor	235 Cft	100 Cft	30,389.36	71,415
	Item # 24+135+138+92	First Floor	0 Cft	100 Cft	31,338.56	-
3.2	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N/mm2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in straight beams lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in basement and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. Beams and projections <b>(Cylindrical Strength 3000 Psi)</b>				
	Item # 38+134+137	Ground Floor	0 Cft	100 Cft	24,839.57	-
	Item # 38+134+137+92	First Floor	0 Cft	100 Cft	25,788.77	-
3.3	Code -114	Providing and laying hard grade ribbed deformed <b>(minimum yield point 60,000 psi or 414 Mpa)</b> reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>				
	Item # 166	Ground Floor	1300 Kg	Kg	123.02	159,926
	Item # 166+174	First Floor	0 Kg	Kg	124.47	-
Amount Carried to Civil Summary						1,024,752

# **CIVIL WORKS**

## **(STRUCTURE)**

BILL OF QUANTITIES  
CIVIL SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b>SCHEDULE ITEMS</b>	
4	MASONRY WORKS	553,331
5	THERMAL & MOISTURE PROTECTION	N/A
6	METAL WORKS	241,173
7	WOOD WORKS	35,693
8	FLOOR FINISHES	138,299
9	WALL FINISHES	400,586
10	CEILING FINISHES	51,190
11	ROOF FINISHES & WATER PROOFING	67,655
12	EXTERNAL FINISHES (BUILDING)	187,149
13	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	278,531
	<b>Total of Schedule Items</b>	1,953,607
	Add _____% Suitable Premium on Civil works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b>NON-SCHEDULE ITEMS</b>	
4	MASONRY WORKS	N/A
5	THERMAL & MOISTURE PROTECTION	-
6	METAL WORKS	-
7	WOOD WORKS	-
8	FLOOR FINISHES	-
9	WALL FINISHES	N/A
10	CEILING FINISHES	N/A
11	ROOF FINISHES & WATER PROOFING	-
12	EXTERNAL FINISHES (BUILDING)	-
12	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	-
	<b>Total of Non-Schedule Items - B</b>	-
<b>TOTAL AMOUNT FOR 1 UNIT</b>		-
<b>TOTAL AMOUNT FOR 4 UNIT CARRIED TO GRAND SUMMARY</b>		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
<b>A-SCHEDULE ITEMS</b>						
<b>4</b>		<b>All items under this head (Architectural work) to be carried out as per relevant Section of PWD &amp; technical specifications (Volume-II), Drawings, BSI/ASTM Standards, complete in all respect and to the entire satisfaction of the Engineer.</b> <b>Due to pitch roof second para of clause No 1.9 of General conditions of PWD schedule of rates-2012 will be applicable for the height of the higher side.</b>				
		<b>DPC &amp; MASONRY WORKS</b>				
		<b>Damp Proof Course (DPC)</b>				
4.1	Code -108 Item # 3 + Code -109 Item # 123	Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded <b>crushed boulders (instead of Screened bajri)</b> of 3/4 inch (19 mm) and down gauge mixed with any approved water proofing agent including compacting, curing form work and its removal etc. complete, but excluding the cost of water proofing agent .etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
		2" thick DPC	211 Sft	100 Sft	2,812.71	5,934.82
4.2	Code -108 Item # 5	Extra for using water proofing agent pudlo in item Nos. 4.1 (quantity to be used as per manufacturer's specification/2.50Kg per 100Sft).etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	5 Kg	Kg	86.10	430.50
		<b>Solid Block Masonry</b>				
4.3	Code-110 & Code-109	Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block <b>4 to 6 inches</b> (102mm to 152 mm) thick using graded <b>crushed boulders (instead of Screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
a	Code-110 Item # 44+92+100+ Code-109 Item # 120	Ground Floor	1400 Cft	100 Cft	16897.84	236,569.76
b	Code-110 Item # 44+70+92 +100 Code-109 Item # 120	First Floor & Above	1745 Cft	100 Cft	17721.61	309,320.55
4.5	Code-110	Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block masonry more than 6 inches (152 mm) thick <b>in steps, stairs</b> of approved design using graded <b>crushed boulders (instead of screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:4 including scaffolding, raking out joints and curing etc. complete in ground floor superstructure etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-110 Item#2+68+74+92 Code-109 Item# 120	FOR BLOCK MASONRY STEPS	6 Cft	100 Cft	17915.71	1,074.94
4.6	Code-112 Item #144	Providing and laying wall ties of mild steel flats of approved section and design placed at horizontal and vertical spacing in cavity wall of any description in any floor at any height..	0 Kg	Kg	181.84	-
		<b>Amount Carried to Civil Summary</b>				<b>553,331.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
6		<b>METAL WORKS</b>				
6.1	Code -119 Item # 43	Providing and fixing M.S. moulded steel door frame of 4" x 2-1/2" (102 mm x 64 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to BSS. 1245 having a single rebate size 1-1/2" x 1/2" (38 mm x 13 mm) with 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 No., 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. etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	160 Rft	Rft	157.12	25,139.20
6.2	Code -119 Item # 44	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	45 Rft	Rft	185.34	8,340.30
6.3	Code -122 Item #159	Painting Iron work with <b>synthetic enamel paint</b> of approved make and shade two coats over and including the cost of one priming coat at any height in any floor etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	160 Sft	100 Sft	2,776.62	4,442.59
6.4	Code -119 Item #103	Providing and fixing fully glazed Bronze anodized or powder coated aluminium Sliding / fixed & openable /Top hung windows & ventilators as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 95mm 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, but excluding the cost of glass pans.	270 Sft	Sft	568.07	153,378.90
6.5	Code -119 Item #121	Providing and fixing Tinted glass panes 5mm thick to M.S. Box pipe / Aluminium doors, windows and ventilators etc including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height. (For Doors, Windows & Fixed Glazing or where instructed)	470 Sft	Sft	106.11	49,871.70
6.6	Code -119 Item #120	Providing and fixing plain glass panes 5mm thick to M.S. Box pipe / Aluminium doors, windows and ventilators etc. including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height. (For vision panel of door shutters)	0 Sft	Sft	88.91	-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
		<b>Amount Carried to Civil Summary</b>				<b>241,173.00</b>
7		<b>WOOD WORKS</b>				
7.1	Code-120 Item # 02	<b>Door, windows &amp; partitions Frame</b> Providing and fixing best quality deodar frames for doors, windows, ventilators, clerestory windows, shelves, partitions, trellis work, etc., as required . Complete in all respect as per drawings, specification and as directed by the Engineer.	6 Cft	Cft	4,595.14	27,570.84
7.2	Code-120 Item # 284	<b>Architrave / Beading</b> Providing and fixing best quality deodar wood projected beading upto one Sq. inch (6.45 Sqm.) in sections and required design fixed around the panels of doors, windows etc., of any description , complete in all respect as per drawings, specification and as directed by the Engineer.	220 Rft	Rft	35.66	7,845.20
7.3	Code-122 Item # 189	Applying French or spirit polishing, two coat of approved make on wood work at any height in any floor.	15 Sft	100 Sft	1,878.96	276.65
		<b>Amount Carried to Civil Summary</b>				<b>35,693.00</b>
8		<b>INTERNAL FLOOR FINISHES</b>				
8.1	Code-117	Providing and laying 1:5:10 cement concrete bed under floors using graded stone ballast 3/4 & down <b>instead of 2 inches (51 mm)</b> and down gauge with levelling, ramming, watering and curing etc. complete. <b>(under Mosaic &amp; Porcelain tiles).</b>				
a	Code-117 Item # 3	Ground Floor	2 Cft	100 Cft	9,442.42	188.85
b	Code-117 Item # 3+26	First Floor & Above	1 Cft	100 Cft	9,684.38	96.84
8.2	Code-117	<b>Mosaic Floor</b> Providing and laying terrazzo floor 1-1/2 inches (38 mm) thick consisting of 1/2 inch (13 mm) thicktopping 1:2 <b>white cement instead of grey cement</b> (one grey cement 2 approved marble chips No. 0 to 4) in ground floor over a base of 1:2:4 (one cement, two sand and four screened graded bajri) cement concrete 1 inch (25 mm) thick laid in panels or pattern including form work, curing, cutting, rubbing and polishing etc. complete.				
	Code-117 Item # 12+17	Ground Floor	680 Sft	100 Sft	6,163.94	41,914.79
	Code-117 Item # 12+17+26	First Floor & Above	465 Sft	100 Sft	6,405.90	29,787.44
8.3	Code-117	Providing and laying terrazzo floor 1-1/2 inches (38 mm) thick consisting of 1/2 inch (13 mm) thicktopping 1:2 (one grey cement 2 approved marble chips No. 0 to 4) in ground floor over a base of 1:2:4 (one cement, two sand and four screened graded bajri) cement concrete 1 inch (25 mm) thick laid in panels or pattern including form work, curing, cutting, rubbing and polishing etc. complete.				
	Code-117 Item # 12	Ground Floor	170 Sft	100 Sft	5,287.04	8,987.97
	Code-117 Item # 12+26	First Floor & Above	115 Sft	100 Sft	5,529.00	6,358.35

## BILL OF QUANTITIES

S.No	PWD Schedule 2012	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
8.4	Code-117 Item # 179	Providing and laying light colour, glazed/non skid vitrified porcelan tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	285 Sft	100 Sft	17882.39	50,964.81
		<b>Amount Carried to Civil Summary</b>				<b>138,299.00</b>
9		<b>INTERNAL WALL FINISHES</b>				
9.1	Code-122	<b>Internal Wall Plaster</b> 1/2" (13 mm) thick cement plaster 1:6 on wall columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
a	Code-122 Item # 6	Ground Floor	3000 Sft	100 Sft	1730.74	51,922.20
b	Code-122 Item # 6+87	First Floor & Above	3750 Sft	100 Sft	1884.61	70,672.88
9.2	Code-118	<b>Dado &amp; Skirting</b> Providing and fixing marble mosaic tile 12" X 6" X 3/4" (305 mm X 152 X 19 mm) with chips No. 0 to 4 in <b>dado and skirting</b> of approved design in light shade over 1/2 inch (13 mm) thick base of 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 matching colour curing, grinding, rubbing and polishing etc. complete.				
	Code-118 Item # 54+56	Ground Floor	125 Sft	100 Sft	14,274.50	17,843.13
	Code-118 Item # 54+56+58	First Floor & Above	120 Sft	100 Sft	14,567.19	17,480.63
9.3	Code-118	Providing and fixing cement tiles 6" X 6" X 3/4" (152 mm X 152 mm X 19 mm) in dado and skirting in grey colour 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 joints and washing the tiles with cement slurry, curing, grinding, rubbing and polishing etc. complete..				
	Code-118 Item # 60	Ground Floor		100 Sft	12,294.08	-
	Code-118 Item # 60+67	First Floor		100 Sft	12,489.21	-
9.4	Code-122 Item # 151	Distempering with vinyl distemper (ICI) Deluxe Paintex of approved make and shade in 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.	6750 Sft	100 Sft	1,053.54	71,113.95

## BILL OF QUANTITIES

S.No	PWD Schedule 2012	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
9.5	Code-122	Puddlo Plaster 3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
a	Item # 8	U.G.W.T Plaster		100 Sft	2367.12	-
b	Item # 8+88+4 x 91	O.H.W.T Plaster	150 Sft	100 Sft	3,268.04	4,902.06
9.6	Code-122	Providing and mixing water proofing agent pudlo in cement mortar of any description in any floor etc., complete in all respects as per specifications/2.50Kg per 100Sft). & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 30	U.G.W.T		Kg	86.15	-
	Item # 30	O.H.W.T	4 Kg	Kg	86.15	344.60
9.7	Code-117 Item # 179	Providing and laying light colour, glazed/non skid vitrified porcelean tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	930 Sft	100 Sft	17882.39	166,306.23
		<b>Amount Carried to Civil Summary</b>				<b>400,586.00</b>
10		<b>INTERNAL CEILING FINISHES</b>				
10.1	Code-122	<b>Internal Ceiling Plaster</b> 1/2" (13 mm) thick cement plaster 1:6 on ceilings cantilever soffits others etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
a	Code-122 Item # 6	Ground Floor	625 Sft	100 Sft	1,730.74	10,817.13
b	Code-122 Item # 6+87	First Floor & Above	1150 Sft	100 Sft	1,884.61	21,673.02
10.2	Code-122 Item # 151	Distempering with vinyl distemper (ICI) Deluxe Paintex of approved make and shade in 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.	1775 Sft	100 Sft	1,053.54	18,700.34
		<b>Amount Carried to Civil Summary</b>				<b>51,190.00</b>
11		<b>ROOF FINISHES &amp; WATER PROOFING</b>				
11.1	Code-117 Item #7+25+26	Providing and laying floor of 3 inches (76 mm) thick 1:2:4 reinforced cement concrete using graded crushed bolders <b>instead of screened bajri</b> 3/4" (19 mm) and down gauge in ground floor including form work, consolidation, finishing and curing etc. complete but excluding the cost of reinforcement.				
a	Code-117 Item #7+26	Roof Lev (+10'-6" upto +14'-6")	0 Sft	100 Sft	4,289.49	-
b	Code-117 Item #7+26+27	Lev (+19'-3" upto +33'-0")	1250 Sft	100 Sft	4,726.58	59,082.25



## BILL OF QUANTITIES

S.No	PWD Schedule 2012	Description	Qty	Unit	Rate (Pak Rs.)	Amout (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
11.2	Code-108 Item #27	Water proofing of roof slab using Bituflex @ 10 Kg per % sft in three coats, i/c cleaning /scraping the extra mortar etc. from the roof surface,and washing the surface with water and filling the depressions using Bituflex: sand mortar (1.2).Applyingone one primer coal, over moist surface using a mix of 50 %Bituflex and 50 % water blirded the surface with saul any floor in any height.	1250 Sft	100 Sft	685.80	8,572.50
		<b>Amount Carried to Civil Summary</b>				<b>67,655.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
12		<b>EXTERNAL WALL FINISHES (BUILDING)</b>				
		<b>External Plaster</b>				
12.1	Code-122	3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the				
a	Code-122 Item # 8	Ground Floor	1950 Sft	100 Sft	2,367.12	46,158.84
b	Code-122 Item # 8+88	First Floor & Above	2300 Sft	100 Sft	2,572.28	59,162.44
12.2	Code-122 Item # 83	Extra for providing horizontal or vertical joints or grooves 3/8" x 1/4" (9.5 mm x 6.4 mm) size of approved design over item No. 12.1	4250 Sft	100 Sft	518.48	22,035.40
12.3	Code-122	Painting three coats with <b>weather shield paint deluxe (ICI)</b> 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 etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 172	Ground Floor to Roof	4250 Sft	100 Sft	1,406.88	59,792.40
		<b>Amount Carried to Civil Summary</b>				<b>187,149.00</b>
13		<b>EXTERNAL WALL FINISHES (OTHER THAN BUILDING)</b>				
		<b>External Plaster</b>				
13.1	Code -108 Item # 3 + Code -109 Item # 123	Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded <b>crushed boulders (instead of Screened bajri)</b> of 3/4 inch (19 mm) and down gauge mixed with any approved water proofing agent including compacting, curing form work and its removal etc. complete, but excluding the cost of water proofing agent .etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
		2" thick DPC	105 Sft	100 Sft	2,812.71	2,953.35
13.2	Code -108 Item # 5	Extra for using water proofing agent pudlo in item Nos. 4.1 (quantity to be used as per manufacturer's specification/2.50Kg per 100Sft).etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	3 Kg	Kg	86.10	226.01
13.3	Code-110 & Code-109	<b>Solid Block Masonry</b> Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block masonry <b>more than 6 inches (152 mm) thick</b> using graded <b>crushed boulders (instead of Screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete in ground floor superstructure etc, complete in all respects as per drawing, standard , specifications and direction of the Engineer.				
	Code-110 Item # 34+92+100 Code-109 Item # 120	Ground Floor	650 Cft	100 Cft	16040.34	104,262.21

## BILL OF QUANTITIES

S.No	PWD Schedule 2012	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
13.4	Code-122	3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 8	Ground Floor	2290 Sft	100 Sft	2,367.12	54,207.05
13.5	Code-122	Painting three coats with <b>weather shield paint deluxe (ICI)</b> 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 etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 172	Ground Floor to Roof	2290 Sft	100 Sft	1,406.88	32,217.55
13.6	Code-126 Item # 1	<b>HORTICULTURE WORK</b> Rough dressing of the area for lawn including picking stones, pebbles, stubble, grass roots and other injurious matters and breaking of clods complete including disposal of rubbish within 3 chains (92 m).	1400 Sft	100 Sft	103.32	1,446.48
13.7	Code-126 Item # 6	Supplying and stacking approved garden soil (sweet earth) free from salts, pebbles and grass roots etc. including all leads and lifts.	1162 Cft	100 Cft	4,003.42	46,519.74
13.8	Code-126 Item # 7	Spreading approved garden soil (sweet earth) in uniform thickness including mixing and breaking clods and dressing fine for grassing including disposal of rubbish within 3 chains (92 m) complete .	1162 Cft	100 Cft	193.38	2,247.08
13.9	Code-126 Item # 2	Supplying and stacking well decayed cowdung manure from approved source including all leads and lifts.	238 Cft	100 Cft	2,578.40	6,136.59
14.0	Code-126 Item # 3	Spreading cowdung manure and mixing the same upto any depth in the prepared bed including breaking clods, dressing fine for grassing, including, disposal of rubbish within 3 chains (92 m) complete.	238 Cft	100 Cft	107.74	256.42
14.1	Code-126 Item # 11	Supply live (Dacca) grass in slabs with earth intact including all lead and lifts.	1400 Sft	Sft	17.60	24,640.00
14.2	Code-126 Item # 13	Grassing fine by dribbling grass roots 3" apart including watering, weeding till such time the grass is set and becomes green and is fit for mowing	1400 Sft	100 Sft	244.19	3,418.66
		<b>Amount Carried to Civil Summary</b>				<b>278,531.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
<b>B-NON SCHEDULE ITEMS</b>						
5		<b>THERMAL &amp; MOISTURE PROTECTION</b>				
5.1	N.S.I	Providing and applying three coats of 2 component flexible polymer modified cementitious waterproof coating AQUAFIN-2C /BASF-Master seal-550/ Sika top seal -107 or approved equivalent over RCC slabs and walls of any wet area e.g. Baths, Kitchens, Balcony's etc, at any height in any floor as per manufacturer's specifications & recommendations complete in all respects as per drawings, relevant specifications and as directed by the Engineer. First Floor	120 Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-
6		<b>METAL WORKS</b>				
		<b><u>M.S Staircase Railing</u></b>				
6.1	N.S.I	Providing, fabricating, welding & fixing in position MS Staircase railing comprising of 50mm dia x 16 Swg MS pipe hand rail, 25mm dia x 16 Swg dia balustrade welded to handrail as shown in the drawing including all required accessories & hardware such as base plate, cap, nuts & bolts etc. fixing arrangement (Drilling & grouting)etc including three coat of approved colour enamel paint over one coat od primer (Paint will be paid in seaprate item, refer BOQ Item) complete in all respects as per drawing, standard, specifications and direction of the Engineer.	50	Rft		-
6.5	N.S.I	<b><u>Monkey Ladder</u></b> Providing, fabricating, welding, bolting & fixing in position MS Access/Monkey ladder comprising MS Flat steel 2" x 3/8" thick ( Vertical member) weld with 8" x 8" x 3/8" thick steel plate bolt to Rcc slab, 8" x 3" x 3/8" thick steel plate weld to vertical flat and bolted to wall, 3/4" dia solid steel bar welded to flat @ 12" C/C, as shown on drawing, three coat of approved colour enamel paint over one coat od primer (Paint will be paid in seaprate schedule item, refer BOQ Item # ..... ) etc, including required hard ware complete in all respect as per drawing, standard, specifications and direction of the Engineer. <b>The contractor shall submit shop drawings (without any additional cost) for approval prior to start of work.</b>	30 Kg	Kg		-
6.6	N.S.I	Providing and fixing Tinted glass panes 6mm thick to wooden door, fixed glazing, windows, ventilators or where required etc including the cost of wooden trim, rubber gasket packing and screw etc, in any floor at any height.	25 Sft	Sft		-
6.7	N.S.I	Providing and fixing Anti-Oxidation Aluminum Spacer Bar for Double Glazing Glass up to 10mm wide including sicon sealant bead to door, fixed glazing, windows, ventilators or where required etc. including the cost of rubber gasket packing and screw etc., in any floor at any height.	135 Rft	Rft		-
6.3	N.S.I	<b><u>Aluminium Louvered Window/Shutter</u></b> Providing, fabricating and fixing of approved coloured anodized aluminum louver window/shutter open able casement using premium quality aluminum sections of Pakistan Cable / or equivalent approved with fixed on Rcc & masonry surface, including all required hardware, pivots heavy duty handles, locks, stays etc.Including silicon sealant to all external junction been structure and windows/Shutter to give water / wind proof seal. Complete in all respect as per drawings, specifications and to the entire satisfaction of the Engineer. (Note: minimum wall thickness for all sections shall be 1.6mm or according to the design) <b>The contractor shall submit shop drawings (without any additional cost) for approval prior to start of work.</b>	25Sft	Sft		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
		<b>Amount Carried to Civil Summary</b>				-
7		<b>WOOD WORKS</b>				
7.1	N.S.I	<b>DOOR SHUTTERS</b> Providing, Making & fixing in position 1-1/2" (38mm) thick solid core approved colour Formica finish flush door shutters with & without vision panel. Comprising of 6mm thick lamination sheet (manufacturer pressed lamination sheet over lasani board) on either side, over all around best quality Partal or approved wood frame 50mm wide horizontal, vertical & cross /diagonal & 150mm wide lock rail in full length, hollow area except framing to be filled with the approved rough wood, 1-1/2" x 1/2" thick Golden teak wood edge lipping all around. The door shutter mechanically pressed by standard manufacturers under power driven hydraulic press as approved by the Engineer, with and without vision glass panel (vision glass panel will be paid seapreatly, in BOQ item # ....) including with and without vision glass panel, nails, glue or any required hardware's and applying solignum for termite treatment, at any height & any floor etc., complete in all respects as per drawing, standard , specifications and direction of the Engineer. <b>(Note: Cost of Ironmongery such as Hinges, Tower bolts, Locks, Handles, kick &amp; push plate etc. paid in Separate item.)</b>	230Sft	Sft		-
7.2	N.S.I	Providing and fixing in position as per drawings & joinery schedule all of <b>"New ISE" Hong Kong, New Star Japan</b> or approved equivalent make as per relevant drawings, contractor to submit the sample / shop drawings for approval prior to execution etc, complete in all respects as per drawing, standard , specifications and direction of the Engineer.  S.S Door hinges 4" long  SS Dead Lock complete set  SS Handle 36 inch long  SS Handle 12 inch long  Motorized Door Lock complete set (Lock body, Cylinder  SS Tower Bolt 24" long  SS Tower Bolt 8" long  Stainless Steel Kick plate 3mm thick	52.Each  1.Each  0.Each  2.Each  11.Each  2.Each  11.Each  0 Sft	Each  Each  Each  Each  Each  Each  Sft		-  -  -  -  -  -  -
7.3	N.S.I	<b>Wooden Cabinets</b> Providing making and fixing in position <b>floor mounted lower cabinets</b> (Pantry etc.) as per drawing at any height / floor, made of 3/4" thick coloured laminated (both face) Lasani board shutter free from formaldehyde including all around OAK wood lipping kitchen cabinet, 3" x 1-1/2" thick Partal wood frame, complete with all accessories i.e. imported hinges, locks, magnetic catchers, best quality handles etc., including any termite treatment, providing & applying 03 coats of approved colour shade lacquer polish by Jaffar Brothers or similar approved as per manufacturer's instruction & specification including all required hardware's for fixing etc,complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. <b>(Front face will be measured for payments)</b>	30 Sft	Sft		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
7.4	N.S.I	Providing making and fixing in position wall mounted cabinets for (Kitchen/Pantry etc.) as per drawing at any height / floor, made of 3/4" thick colored laminated (both side) Lasani board shutter free from formaldehyde including all around Deodar wood lipping 3/8" thick, 3" x 1-1/2" thick Partal wood frame, 6mm one side laminated Lasani board back complete with all accessories i.e. imported hinges, locks, magnetic catchers, best quality handles etc., including any termite treatment, providing & applying 03 coats of approved colour shade lacquer polish by Jaffar Brothers or similar approved equivalent as per manufacturer's instruction & specification including all required hardware's for fixing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. <b>(Front face will be measured for payments)</b>	30 Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-
8		<b>INTERNAL FLOOR FINISHES</b>				
8.1	N.S.I	Providing, laying and fixing 3/4" thick Per-Polished (Boticena) Marble Counter Top of approved thickness as per drawing & finishing schedule activities include 40mm thick RCC slab, 1:4 C.S mortar with Dry Bond, fixing in wall, cutting/chiseling in RCC / CC members etc, jointing, grouting, chamfering edging/half D gola around the counter top, finishing, maintaining proper level with curing etc. where required complete in all respects as per specifications and as directed by the Engineer.	30 Sft	Sft		-
8.3	N.S.I	Providing and laying Terrazzo tiles 13" x 12" x 1" thick for Treads with bull nosing & 3nos horizontal V- grooves at any floor including 1:3 screed bedding with mortar including jointing with grouting material of approved quality & grinding, polishing etc (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.	110 Sft	Sft		-
8.4	N.S.I	Providing and laying Terrazzo tiles 12" x 6" x 1/2" thick for Risers at any floor including 1:3 screed bedding with mortar including jointing with grouting material of approved quality & grinding, polishing etc (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.	65 Sft	Sft		-
8.5	N.S.I	Providing & Laying Natural stone 24" x 12" & 12" x 12", 1" & 1-1/2" thick rough finished approved local stone on entrance steps & floor (straight, curved, arches etc.) with cement sand mortar 1:2 and in any pattern in as per direction of the engineer-in-charge including the cost of curing, making the stone surface rough flat etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	50 Sft	Sft		-
8.6	N.S.I	Providing & Laying Natural stone 24" x 12" & 12" x 6" x 1/2" thick rough finished approved local stone on Floor, wall/ Dado/ Skirting /coping with cement sand mortar 1:2 in ground floor setting of stone tiles in slurry of grey cement over mortar base including filling of joints with cement slurry of matching colour curing etc. complete.	25.Sft	Sft		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
		<b>Amount Carried to Civil Summary</b>				-
11		<b>ROOF FINISHES &amp; WATER PROOFING</b> Providing & laying complete roof treatment at any floor and any height as shown in the drawing, details consisting of following items complete in all respects as per drawing, standards, specifications and direction of the Engineer.				
11.1	N.S.I	Providing & laying in position 1-1/2" (38mm) thick Diamond jumbolon-Board from Diamond Foam or approved equivalent having density 35kg/cum, over above Water Proofing membrane with rebated edge as per manufacturer's specifications, instruction & as shown in the drawing etc, complete in all respects as per drawings, specification and as directed by the Engineer.	1250 Sft	Sft.		-
11.2	N.S.I	Providing and laying BRC mesh 4" x 4" x 10 swg from Al - Burhan (Pvt) Ltd or approved equivalent including cutting, binding with steel binding wire etc. complete in all respects as per drawings, specifications and as directed by the Engineer.	1250 Sft	Sft.		-
		<b>Amount Carried to Civil Summary</b>				-
12		<b>EXTERNAL WALL FINISHES (BUILDING)</b>				
12.1	N.S.I	Providing & Laying free fom natural stone wall cladding random stone 1" & 1-1/2" thick rough finished approved local stone on wall (straight, curved, arches etc.) with cement sand mortar 1:2 and in any pattern in as per direction of the engineer in-charge including the cost of curing, making the stone surface smooth etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	475 Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-
13		<b>EXTERNAL WALL FINISHES (OTHER THAN BUILDING)</b>				
13.1	N.S.I	Providing & Laying free fom natural stone wall cladding random stone 1" & 1-1/2" thick rough finished approved local stone on wall (straight, curved, arches etc.) with cement sand mortar 1:2 and in any pattern in as per direction of the engineer in-charge including the cost of curing, making the stone surface smooth etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	325 Sft	Sft		-
13.2	N.S.I	Providing, fabricating, welding & fixing in position MS hallow tube folding grill door comprising of 1-1/2" x 3" x 16 Swg hollow tube & solid bar horizontal & vertical & 12 swg Ms sheet on either side as shown on drawing (EA-01012-UPDS-A6-0020), including hold fast (4 No), hinges, L-drop with lock & MS sheet 12 swg, heavy duty wheel up to 3" dia with cover, MS wheel track with 2" x 2" x 1/4" thick " T " iron including 1:2:4 concrete and all required fixing hardware including two coat of red oxide paint and three coat of epoxy paint of approved color & shades as per manufacturer's specification etc. complete in all respects as per drawing, standard, specifications and direction of the Engineer.	55Sft	Sft		-

BILL OF QUANTITIES

S.No	PWD Schedule 2012	Description	Qty	Unit	Rate (Pak Rs.)	Amout (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
		Amount Carried to Civil Summary				-



# **ELECTRICAL WORKS**

BILL OF QUANTITIES

GRAND SUMMARY

S.NO:	DESCRIPTION	AMOUNT
1	ELECTRICAL WORKS	-
2	EXTRA LOW VOLTAGE (ELV) WORKS	-
TOTAL AMOUNT OF 01 NO. BUILDING (Rs.)		-
TOTAL AMOUNT OF 04 NO. BUILDINGS (Rs.)		-

## BILL OF QUANTITIES

## ELECTRICAL SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	SINGLE PVC INSULATED WIRE IN EXISTING CONDUIT	2,285
2	3 WIRE IN PVC RECESSED CONDUIT	362,115
3	UPVC CONDUIT & DUCT	23,975
4	"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD	15,093
5	BATTEN/ ANGLE HOLDER, CEILING ROSE, BELL/ INDICATORS	1,225
6	FITTING & FIXTURE (PHILIPS/SIGNIFY, OSRAM, GE, THORN)	564,816
7	CEILING FANS	46,745
8	WALL BRACKET FANS	5,854
9	PLASTIC BODY EXHAUST FANS	15,075
	<b>Total of Schedule Items</b>	1,037,183
	Add _____% Premium on Electrical Works of PWD-2022	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	CONDUITS & PIPES	-
2	L.V DISTRIBUTION BOARD	-
3	WIRING ACCESSORIES	-
4	LIGHTING FIXTURES	-
5	EARTHING SYSTEM	-
	<b>Total of Non-Schedule Items - B</b>	-
	<b>TOTAL AMOUNT OF BUILDING (A+B)</b>	-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
<b>1</b>	<b>2-26</b>	<b><u>SINGLE PVC INSULATED WIRE IN EXISTING CONDUIT</u></b>				
a)	2-26-05	Supply & drawing of 10 mm <sup>2</sup> , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.	5	P/Meter	457	2,285
		<b>Amount Carried to Electrical Summary</b>				<b>2,285</b>
<b>2</b>	<b>2-34</b>	<b><u>3 WIRE IN PVC RECESSED CONDUIT</u></b>				
a)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to switch board / Light including wiring between switch on the same circuit)	90	P/Meter	510	45,900
b)	2-34-01	Wiring for sub-main with 3x 1.5 mm <sup>2</sup> , 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 as required. (Light point from switch board to point)	400	P/Meter	363	145,200
c)	2-34-01	Wiring for sub-main with 3x 1.5 mm <sup>2</sup> , 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 as required. (Light point to point)	155	P/Meter	363	56,265
d)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to 13A Outlet)	60	P/Meter	510	30,600
e)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (13A Outlet to 13A Outlet)	45	P/Meter	510	22,950
f)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to 20A DP Switch for Electric Geyser)	50	P/Meter	510	25,500

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
g)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (20A DP Switch to Flex Outlet for Electric Geyser)	20	P/Meter	510	10,200
h)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to 15A Outlet for Electric Heater)	50	P/Meter	510	25,500
		<b>Amount Carried to Electrical Summary</b>				<b>362,115</b>
<b>3</b>	<b>2-61</b>	<b><u>uPVC CONDUIT &amp; DUCT</u></b>				
a)	2-61-03	Supply & fixing 30mm (1-1/4") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	5	P/Meter	241	1,205
b)	2-61-05	Supply & fixing 50mm (2") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	30	P/Meter	759	22,770
		<b>Amount Carried to Electrical Summary</b>				<b>23,975</b>
<b>4</b>	<b>2-66</b>	<b><u>"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD</u></b>				
a)	2-66-01	Providing & fixing 10 Amps Polycarbonate flame retardant S.P switch with fancy required gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Schneider / Philips)	5	Each.	471	2,355
b)	2-66-02	Providing & fixing 10 Amps Polycarbonate flame retardant Two way switch with fancy gang plate fixed on die fabricated, powder coated, metal board recessed in wall or column including connection as required. (Schneider / Philips)	3	Each.	531	1,593
c)	2-66-06	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)	4	Each.	1,290	5,160
d)	2-66-11	Providing & fixing Polycarbonate flame retardant, fan dimmer with plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (Schneider / Philips)	5	Each.	1,197	5,985
		<b>Amount Carried to Electrical Summary</b>				<b>15,093</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
5	2-67	<b>BATTEN/ ANGLE HOLDER, CEILING ROSE, BELL/ INDICATORS</b>				
a)	2-67-02	Providing & fixing 6 Amps Plastic ceiling rose on PVC Round block/Round Cover fitted on surface including connection as required.	5	Each.	245	1,225
		<b>Amount Carried to Electrical Summary</b>				<b>1,225</b>
6	2-77	<b>FITTING &amp; FIXTURE (PHILIPS/SIGNIFY, OSRAM, GE, THORN)</b>				
a)	2-77-02	Providing, Installation, Testing & Commissioning of recessed / surface mounted project / professional series ceiling lights / downlights including driver having warm / neutral white / cool white colour, 100-110 lm/watts efficiency, 0.9 or above power factor, 40000-50000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge.				
i	e	16-18 Watts	5	Each.	14,650	73,250
ii	f	19-21 Watts	30	Each.	14,870	446,100
b)	2-77-05	Providing, Installation, Testing & Commissioning of Flood Lights (IP66) including driver, having neutral white / cool white colour, 90-110 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.				
i	c	70-80 Watts	2	Each.	22,733	45,466
		<b>Amount Carried to Electrical Summary</b>				<b>564,816</b>
7	2-80	<b>CEILING FANS</b>				
a)	2-80-03	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.	5	Each.	9,349	46,745
		<b>Amount Carried to Electrical Summary</b>				<b>46,745</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
8 a)	2-81 2-81-03	<b>WALL BRACKET FANS</b> Providing & installing 45 Cm (18") sweep wall bracket fan complete with blades, regulator & pulling cord switch, fitted on wall or column with GI clip including connection as required. Pak, Royal, GFC, Younas, Millat.	1	Each.	5,854	5,854
		<b>Amount Carried to Electrical Summary</b>				<b>5,854</b>
9 a)	2-84 2-84-01	<b>PLASTIC BODY EXHAUST FANS</b> Providing & installing 20 Cm (8") sweep, Plastic body Exhaust fan complete with blades, motor, etc fixed in existing hole including connection with 14/0.0076" flexible wire complete as required. Pak, Royal, GFC, Younas, Millat.	5	Each.	3,015	15,075
		<b>Amount Carried to Electrical Summary</b>				<b>15,075</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>NON-SCHEDULE ITEMS</b>						
<b>1</b>		<b><u>CONDUITS &amp; PIPES</u></b>				
a)		Supply and installation of following size internal diameter PVC / uPVC Class-D pipe / Flexible PVC Conduit as race ways with all accessories, recessed / surface on wall / column / under floor, as per drawings and specifications, complete in all respect.				
i		50 mm dia PVC Conduit	5	Rm.		-
b)		Supply and installation of following size uPVC Pipe Class-D for Power cables, buried in ground / under floor as per specification, including excavation for laying of pipe, bricks and backfilling with new and fresh sand (6" under and 6" above pipe) etc., (wherever required), as shown on the specifications and drawings, complete in all respect.				
i		50mm dia uPVC Pipe (Class-D)	5	Rm.		-
c)		Supply and installation of Pull Boxes (Floor / Wall) with all installation accessories, as per drawings, specifications and approved brands, complete in all respect.	1	No.		-
d)		Providing and Construction of Handhole Size 1'-6" x 1'-6" x 2'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For Electrical cables)	1	No.		-
e)		Providing and Construction of Handhole Size 2'-0" x 2'-0" x 2'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For Electrical cables)	1	No.		-
		<b>Amount Carried to Electrical Summary</b>				-



## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
2		<b><u>L.V. DISTRIBUTION BOARD</u></b>				
a)		Supply, installation, testing and commissioning of following wall mounting / floor standing surface type Distribution Board (DB) made with 16 SWG sheet metal, dust protected, vermin proof housing coated with approved color having all the necessary switching, energy analyzer etc., protections, as per drawing and specification, complete in all respect.				
i		DB-PD	1	No.		-
Amount Carried to Electrical Summary						-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>3</b>		<b><u>WIRING ACCESSORIES</u></b>				
a)		Supply, installation, testing and commissioning of following 10/15/20A, One/Two/Three/Four gang type switches, Dimmer Switches, Sockets including 16 SWG Sheet Steel powder coated back boxes with earth terminal, recessed in wall, with all accessories as per drawings and specification, complete in all respects.				
i		Two Gang Switch 10A	5	No.		-
ii		Two Gang Switch 10A (Weatherproof type)	1	No.		-
iii		Three Gang Switch 10A	3	No.		-
iv		Four Gang Switch 10A	5	No.		-
v		13A, International Switch Socket Outlet	17	No.		-
vi		20A, Double Pole Switch with neon indicator	4	No.		-
vii		20A, Flex Outlet	4	No.		-
viii		Shaver Socket	3	No.		-
<b>Amount Carried to Electrical Summary</b>						-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>4</b>		<b><u>LIGHTING FIXTURES</u></b>				
a)		Supply, installation, testing and commissioning of following Light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per drawings and specifications, complete in all respects. Lighting fixtures sample must be submitted to consultant for approval. Note: Refer light fixtures drawings for complete light fixtures details.				
i		Wall / Surface mounted LED Bi-Directional Light Fixture (IP-54) with 2x12W LED lamp	21	No.		-
ii		Suspended mounted LED Pendent Light Fixture (IP-20) with 1x25W LED lamp	4	No.		-
iii		Wall mounted LED Bulkhead Light Fixture (IP-65) with 1x12W LED lamp	8	No.		-
iv		Wall mounted LED Mirror Light Fixture (IP-44) with 1x8W LED lamp	3	No.		-
v		Wall / Surface mounted LED Wall Light Fixture (IP-20) with 1x20W LED lamp	7	No.		-
b)		Supply, installation, testing and commissioning of following items including all connecting accessories as per drawings, specifications, complete in all respects.				
i		Fan Hook M.S.Box with colour coated	5	No.		-
		<b>Amount Carried to Electrical Summary</b>				-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
5		<b>EARTHING SYSTEM</b> Supply, installation, testing and commissioning of following items for complete earthing system including all connecting accessories as per drawings, specifications and as mentioned in General Notes, complete in all respects.				
a)		Supply, installation, testing and commissioning of following items for complete Power Earthing system, including Bentonite chemical, other all required materials and connecting accessories, boring, labor, tools, transportation etc., as per drawings and specifications, complete in all respects with detailed test reports.				
i		Earth pit with Rod type earth electrode, 3/4" dia and 9 Ft. long copper bonded rod.	1	No.		-
Amount Carried to Electrical Summary						-

# **ELV WORKS**

## BILL OF QUANTITIES

## ELV SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	uPVC CONDUIT & DUCT	22,770
2	"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD	5,680
	<b>Total of Schedule Items</b>	28,450
	Add _____% Premium on ELV Works of PWD-2022	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	CONDUITS & PIPES	-
2	VOICE COMMUNICATION SYSTEM (Passive Equipment Only)	-
3	CABLE TELEVISION SYSTEM (CATV)	-
4	SELF CONTAINED EMERGENCY LIGHTS	-
	<b>Total of Non-Schedule Items - B</b>	-
	<b>TOTAL AMOUNT OF BUILDING (A+B)</b>	-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
1 a)	2-61 2-61-05	<b><u>uPVC CONDUIT &amp; DUCT</u></b> Supply & fixing 50mm (2") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	30	P/Meter	759	22,770
<b>Amount Carried to ELV Summary</b>						<b>22,770</b>
2 a)	2-66 2-66-12	<b><u>"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD</u></b> Providing & fixing Polycarbonate flame retardant T.V Socket with plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (Schneider / Philips)	5	Each.	1,136	5,680
<b>Amount Carried to ELV Summary</b>						<b>5,680</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>NON-SCHEDULE ITEMS</b>						
<b>1</b>		<b><u>CONDUITS &amp; PIPES</u></b>				
a)		Supply and installation of following size internal diameter PVC / uPVC Class-D pipe / Flexible PVC Conduit as race ways with all accessories, recessed / surface on wall / column / under floor, as per drawings and specifications, complete in all respect.				
i		25 mm dia PVC Conduit	85	Rm.		-
ii		50 mm dia PVC Conduit	5	Rm.		-
iii		25 mm dia Flexible PVC Conduit	5	Rm.		-
b)		Supply and installation of following size uPVC Pipe Class-D for Telecommunication Cable (copper / optic fiber). Buried in ground / under floor as per specification, including excavation for laying of pipe, bricks and backfilling with new and fresh sand (6" under and 6" above pipe) etc., (wherever required), as shown on the specifications and drawings, complete in all respect.				
i		50mm dia uPVC Conduit (Class-D)	5	Rm.		-
c)		Supply and installation of Pull Boxes (Floor / Wall) with all installation accessories, as per drawings, specifications and approved brands, complete in all respect.	1	No.		-
d)		Providing and Construction of Handhole Size 1'-6" x 1'-6" x 2'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For ELV cables)	1	No.		-
e)		Providing and Construction of Handhole Size 2'-0" x 2'-0" x 2'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For ELV cables)	1	No.		-
		<b>Amount Carried to ELV Summary</b>				-



## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
2		<b><u>VOICE COMMUNICATION SYSTEM (Passive Equipment Only)</u></b> Supply, installation, testing and commissioning of following items for Voice Communication System as it may require to complete the entire passive and active network including all accessories, as per the single line diagram, drawings and specifications, complete in all respect.				
a)		Supply, installation, testing and commissioning of Single RJ-45, Cat-6 outlet for Voice with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.	5	No.		-
b)		Supply, laying, termination, testing and commissioning of CAT 6 - 4 pair cable for Single RJ-45 outlet (for Voice) in already laid 25mm dia PVC conduit concealed / surface from each outlet to TJB, including tagging and piping with all necessary accessories, complete in all respect.	65	Rm.		-
c)		Supply, installation, testing and commissioning of CAT-6 UTP (RJ-45 to RJ-45) for the above Patch Panels including with all necessary accessories, as per drawing and specification, complete in all respect.				
i		CAT-6 (2m) Long Patch Cord	5	No.		-
d)		Supply, installing, testing and commissioning of following 19" Tag blocks in Telephone Junction Box (TJB), as per drawing and specification, complete in all respect.				
i		TJB with 2x10 Pair IDC Block 19" type	1	No.		-
e)		Installation, testing and commissioning by Manufacturer Authorized Agent / Dealer and handing over complete Voice & Data System to Owner with Providing Training voice data fuke & OTDR Testing, as build drawing, Rack layouts and certification's Principal, complete equipment's Manual and Warranty Documents to Owners representative.	1	Job.		-
		<b>Amount Carried to ELV Summary</b>				-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
3		<b><u>CABLE TELEVISION SYSTEM (CATV)</u></b>				
a)		Supply and installation of TVJB Splitter Box with 1x6 Way Splitter, complete in all respects.	1	No.		-
b)		Supply and installation of CATV RG-06 Co-axial 75 ohms shielded cable in already laid 25mm dia PVC conduit from box to TV outlet, complete in all respects.	50	Rm.		-
Amount Carried to ELV Summary						-

[illegible]

# **PLUMBING WORKS**

## BILL OF QUANTITIES

## PLUMBING SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	MAN HOLES	38,815
2	U.P.V.C PIPE (EXTERNAL) "D" CLASS	61,090
	<b>Total of Schedule Items</b>	99,904
	Add _____% Premium on Plumbing Works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	PLUMBING FIXTURES	-
2	WATER SUPPLY WORKS	-
3	DRAINAGE WORKS	-
4	FIRE FIGHTING WORKS	-
	<b>Total of Non-Schedule Items - B</b>	-
	<b>TOTAL AMOUNT FOR 1 UNIT</b>	-
	<b>TOTAL AMOUNT CARRIED TO GRAND SUMMARY FOR 4 UNITS</b>	-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
SCHEDULE ITEMS						
1		<b><u>MAN HOLES:</u></b>				
	315 -15 / Pg:82	Providing manhole type 'B' size 3 feet x 2-1/2 feet (914 mm x 762 mm) (inside dimensions) 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 (1.22m to 2.66 m) depth with 18 inches (457 mm) dia. (inside) cast iron cover and frame (weight=1 cwt. 3 Qrs.) (88.90 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.	2	Nos	19,407.41	38,815
	313 -5 / Pg:73	Excavation in all kinds of soil, murum, hard, average or soft including lift up to 5 feet (1.52m) and lead upto one chain (30.48m)	126	CFT	599.70	756
	315 -26 / Pg:84	providing & fixing C.I. Cover & Frame 18" dia (460mm) weight 1 cwt. 3 Qtr (88.90 Kg.)	2	Nos	8,769.90	17,540
2		<b><u>u.P.V.C PIPE (EXTERNAL) "D" CLASS:</u></b>				
	306 - 21 / Pg: 57	Providing and fixing un plasticized polyvinyl chloride pipe (P.V.C) "D" class and specials etc. including cutting and fitting complete with and including the cost of cutting trench up to 1-1/2 feet deep refilling, watering, ramming, and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 km.) (working pressure 12 kg/cm <sup>2</sup> ) 1-1/4 inches (32 mm) dia.				
	306 - 27 / Pg: 57	6" inches (150 mm) dia pipe	120	Rft	509.08	61,090

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Amount Carried to Plumbing Summary				118,200

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>NON-SCHEDULE ITEMS</b>						
		<b><u>PLUMBING FIXTURES:</u></b>				
1		Providing and fixing European type water closet with (one piece) dual flush Tank with 6.0 liters main flush tank and 3 liters secondary flush tank, build in S/P-Trap , Stop cock with flexible pipe as specified by architect in Fixture schedule, per drawings, specifications and Engineers Approval.	4	Nos		-
2		Providing and fixing Eastern water closet with 6 liters main flush tank, build in S-Trap, Stop cock with Drain pipe till flush tank as per drawings, specifications and Engineers Approval.	-	Nos		-
3		Providing and fixing wash basin with mixer having flow of 6.0 lpm or less with two (2) nos. Stop cocks, Flexible Connection , flexible drain pipe to floor drain as specified by architect in Fixture schedule, per drawings, specifications and Engineers Approval.	4	Nos		-
4		Providing and fixing of kitchen/Pantry Sink with mixer, waste trap, Stop cocks with flexible pipes, Flexible drain pipe as per drawings , specifications and engineers approval.	1	Nos		-
5		Providing and fixing of Shower head with shower mixer having maximum flow of 9.5 lpm, as specified by architect in Fixture schedule, per drawings, specifications and Engineers Approval.	3	Nos		-
6		Providing and fixing bath toilet accessories as under:				-
a		Toilet Paper Holder	4	Nos		-
b		Hand Spray / Muslim shower	4	Nos		-
c		Liquid Soap Dispenser/ Soap dish	4	Nos		-
d		WC Cleaning Brush	4	Nos		-
e		Robe Hooks	4	Nos		-
f		Towel Railing	4	Nos		-
		<b>Sub Total of Plumbing Fixtures</b>				-



## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1		<b><u>WATER SUPPLY:</u></b> <b><u>COLD &amp; HOT WATER PIPING:</u></b> Supply, installation, testing and Commissioning of PPR PN - 20 Cold/Hot water pipes as per DIN 8077-8078 with molded fittings PN - 25 as per DIN 16962, including pipe supports, cutting, filling, testing/commissioning and all accessories as indicated on the drawing, as per specifications and Engineers approval.				
i		3/4" dia	150	Rft		-
ii		1" dia	230	Rft		-
iii		1 1/4" dia	165	Rft		-
iv		1 1/2" dia	30	Rft		-
v		2" dia	-	Rft		-
2		<b><u>ISOLATION VALVES:</u></b> Providing and fixing of PPR Coated PN-20 Gate valves of bronze material for diameter 2" and smaller and Cast Iron material for Diameter greater than 2" as per specifications and Engineers approval.				
i		3/4" dia	1	Nos		-
ii		1" dia	4	Nos		-
iii		1 1/4" dia	4	Nos		-
iv		1 1/2" dia	1	Nos		-
v		2" dia	-	Nos		-
3		<b><u>PLUMBING SPECIALITIES:</u></b> Supply and installation of the following including all fittings, fixings, accessories, etc., as indicated on the drawing, as per Specifications and Engineers approval.				
i		1/2" dia. Bib Tap	4	Nos.		-
ii		1" Air Relief Valve	-	Nos.		-
4		<b><u>COLD &amp; HOT WATER PIPE INSULATION:</u></b> Supply, installation, testing and Commissioning of 20mm thick closed cell rubber foam inculation (NBR) for cold & hot water piping, as per specifications and Engineers approval.				
i		3/4" dia	150	Rft		-
ii		1" dia	230	Rft		-
iii		1 1/4" dia	165	Rft		-
iv		1 1/2" dia	30	Rft		-
v		2" dia	-	Rft		-
		Continued..				

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
5		<b><u>WATER COOLER:</u></b> Supply and installation of Stainless Steel Electric water cooler of below mentioned capacity with two taps, R-22 Refrigeration system, S.Steel Tank safety tested at 10kg/cm2 (142 p.s.i.) with recommended maximum working pressure of 3kg/cm2 (42 p.s.i.) including all accessories like Valves, interconnecting piping, Drain tray and drain connection s as indicated in the drawings, as per specifications and engineers approval. WC - 01 to 06 ( Capacity 32 GPH )	-	Nos		-
6		<b><u>3 STAGE WATER FILTER:</u></b> Supply and installation of 3 stage filter having 5 Microns Pre Filter, Active Carbon Filter and UV Water filter having minimum flow rate of 200 Gallons per Day to be installed with Water cooler , including valves, piping, accessories, etc., as per specifications and Engineers approval.	-	Nos		-
7		<b><u>CEILING HUNG ELECTRIC HEATER:</u></b> Providing and fixing of ceiling hung Electric Hot water heater with all accessories like Clamps, isolation valves, Air relief valves as indicated in the drawings, as per specifications and engineers approval.				
i		EWH - ( Capacity 50 litre)	4	Nos		-
ii		EWH - ( Capacity 80 litre)	-	Nos		-
iii		EWH - ( Capacity 100 litre)	-	Nos		-

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Continued..				

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
8		<b><u>WATER TANK CONNECTION:</u></b> Connection for water tank including with valves, supports, excavation and Backfill, complete all in accordance with the drawing and specifications.				
i		Connection to RCC water tanks	-	Nos		-
ii		Connection to overhead water tanks using Float valve	1	Nos		-
iii		Cast Iron Medium Duty Cover For RCC water tanks	1	Nos		-

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Sub Total of Water Supply Works				-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1		<b><u>DRAINAGE WORKS:</u></b> <b><u>SOIL, WASTE &amp; VENT PIPING:</u></b> Providing and fixing, uPVC pipes and fittings as per BS EN 1329 for above ground installations for Soil, Waste, Vent pipes with Kite mark on pipes and fittings including cleanout plug, clamps, hanger collars, supports, specials (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval.				
i		2" dia	40	Rft		-
ii		3" dia	110	Rft		-
iii		4" dia	90	Rft		-
2		<b><u>DRAINAGE SPECIALITIES:</u></b> Providing and fixing of Multi floor trap with multiple dia inlet and Single outlet and cleanout plug of the approved self cleaning design with S.Steel grating as specified by the architect, as indicated on the drawing, as per specifications, architectural finishing schedule and Engineers approval.  Providing and fixing UPVC cowl for vent pipe of the following dia including all accessories complete in all respects.	10	Nos		-
i		2" dia	-	Nos		-
ii		3" dia	1	Nos		-
iii		4" dia	1	Nos		-

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Continued..				

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
3		<p><b><u>GULLY TRAPS:</u></b></p> <p>Construction of 12" x 12" gully trap with 8" P- trap and 12" x 12" cover (min Weight =45 kg) as specified and shown on the drawing, as per specifications and Engineers approval.</p>	2	Nos		-



BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Sub Total of Drainage Works				-

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1		<b><u>FIRE FIGHTING WORKS:</u></b> <b><u>FIRE EXTINGUISHERS:</u></b> Supply and installation of below mentioned Portable Fire extinguishers with Wall mount brackets as indicated on the drawings, as per specifications and Engineers Recommendation				
i		5 Kg CO2 wall mounted fire extinguisher	1	Nos		-
ii		6 Kg Dry powder wall mounted fire extinguisher	1	Nos		-

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Sub Total of Fire Fighting Works				-

**HOUSE FOR ASSOCIATE &  
ASSISTANT PROFESSORS**  
(6 No.)

ENGINEER'S ESTIMATE

GRAND SUMMARY

S.NO:		Amount
1	Structure	
2	Architecture	
3	Electrical Works	
4	ELV Works	
5	Plumbing Works	
TOTAL CARRIED TO MASTER SUMMARY		

# **CIVIL WORKS**

## **(STRUCTURE)**

## BILL OF QUANTITIES

## Civil SUMMARY

S.NO:	Description	Amount
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	EARTH WORKS	58,038
2	SUB STRUCTURE	1,498,211
3	SUPER STRUCTURE	2,357,805
4	EXTERNAL WORKS (STRUCTURE) OTHER THAN BUILDING (NON COVERED AREA)	695,308
	<b>Total of Schedule Items</b>	<b>4,609,362</b>
	Add _____% Premium on Civil Works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	EARTH WORKS	-
2	SUB STRUCTURE	-
3	SUPER STRUCTURE	-
4	EXTERNAL WORKS (STRUCTURE) OTHER THAN BUILDING (NON COVERED AREA)	-
	<b>Total of Non-Schedule Items - B</b>	<b>-</b>
	<b>Total Amount of 01 House (A+B)</b>	<b>1</b>
	<b>TOTAL AMOUNT OF 06 NOS CARRIED TO GRAND SUMMARY</b>	<b>6</b>

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7 = 4 x 6
	<b>BUILDING</b>	<b>A-SCHEDULE ITEMS</b>				
<b>1</b>		<p>All items under this head (Structure work) to be carried out as per relevant Section of PWD &amp; technical specifications (Volume-II), Drawings, BSI/ASTM Standards, complete in all respect and to the entire satisfaction of the Engineer.</p> <p>Due to pitch roof second para of clause No 1.9 of General conditions of PWD schedule of rates-2022 will be applicable for the height of the higher side.</p> <p><b>EARTH WORKS</b></p>				
1.1	Code -103,	Excavation for foundation trenches and drains in <b>gravelly soil</b> and back filling the excavated material in foundation trenches, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) 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).				
	Item # 2	From ± 0'-0" to -5' - 0"	5300 Cft	100 Cft	613.14	32,496
	Item # 2+28	From -5' - 0" to -8' - 0"	1320 Cft	100 Cft	690.49	9,114
1.2	Code -104 Item #4	Filling bajri available at site in foundation plinth or under floor, etc. including dressing, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, complete within a lead of one chain (30.5 R.m) and lift of 5 feet (1.52 R.m). etc. complete, including all lifts etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	2425 Cft	100 Cft	261.80	6,349
1.3	Code -117 Item #1	Providing and laying soling stones 6 inches to 9 inches (152 mm to 229 mm) size under floors/foundations & where required etc. including packing with spraws and chips and consolidating etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	310 Cft	100 Cft	3,251.34	10,079
Amount Carried to Civil Summary						58,038



S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
<b>2</b>		<b><u>SUB STRUCTURE</u></b>				
		<b>CONCRETE WORKS</b>				
2.1	Code -106	Providing and laying in situ <b>1:4:8</b> (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 11	Below plinth beam,situ,walls,tanks, over stone soling or where required <b>(Cylindrical 1000 Psi)</b>	650 Cft	100 Cft	14,411.43	93,674
2.2	Code -106	Providing and laying in situ <b>1:3:6</b> (1 cement 3 sand and 6 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work, etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 12	For Cast in situ / mass concrete or where required <b>(Cylindrical 1500 Psi)</b>	385 Cft	100 Cft	15,840.97	55,484
2.3	Code -114	<b>REINFORCED CONCRETE WORKS</b> Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in columns footing of required shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 1+134+137	Foundation for any type <b>(Cylindrical Strength 3000 Psi)</b>	1350 Cft	100 Cft	21,685.85	292,759
2.4	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth. etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 4+135+138	Columns upto plinth <b>(Cylindrical Strength 3750 Psi)</b>	300 Cft	100 Cft	26,704.50	80,114
2.5	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in straight walls more than 6 inches (152 mm) thick including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 9+135+138	Rcc Wall <b>(Cylindrical Strength 3750 Psi)</b>	0 Cft	100 Cft	27,958.39	-
2.6	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in plinth beams of required shape and design including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 8+134+137	Plinth Beams i/c nibs / projections <b>(Cylindrical Strenath 3000 Psi)</b>	500 Cft	100 Cft	22,344.09	111,720

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
2.7	Code -114 Item # 166	Providing and laying hard grade ribbed deformed <b>(minimum yield point 60,000 psi or 414 Mpa)</b> reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension,etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>	6335 Kg	Kg	123.02	779,332
2.8	Code -108 Item # 12	Providing a coat of <b>bitumen emulsion at 10 Lbs. per % sft. (0.49 Kg/sm)</b> on walls and floor in ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	4180 Sft	100 Sft	648.08	27,090
Amount Carried to Civil Summary						1,498,211
<b>B-NON-SCHEDULE ITEMS</b>						
2.9	Code -124 Item # 199	<b><u>SUB STRUCTURE</u></b>  <b><u>TERMITE PROOFING</u></b> Providing and Carrying out termite proofing in foundation, 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 Engineer incharge.etc., complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Note: Plinth Area will be measured one time for payment where is the number of applications will be three times on all horizontal &amp; vertical surfaces of the excavation for termite proofing)</b>	830	Sft		-

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
3		<b>SUPER STRUCTURE</b>				
3.1	Code -114	<b>REINFORCED CONCRETE WORKS</b> Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in the ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 24+135+138	Columns ( <b>Cylindrical Strength 3750 Psi</b> ) Ground Floor	280 Cft	100 Cft	30,389.36	85,090
3.2	Item # 24+135+138+92 Code -114	First Floor Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in straight walls, vertical fins etc. more than 6 inches (152 mm) thick including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	400 Cft	100 Cft	31,338.56	125,354
3.3	Item # 30+135+138 Code -114	Rcc Wall ( <b>Cylindrical Strength 3750 Psi</b> ) Ground Floor	0 Cft	100 Cft	28,692.59	-
	Item # 38+134+137 Item # 38+134+137+92 Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in straight beams lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in basement and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. Beams and projections ( <b>Cylindrical Strength 3000 Psi</b> ) Ground Floor	525 Cft	100 Cft	24,839.57	130,408
3.4		First Floor	550 Cft	100 Cft	25,788.77	141,838
	Item # 38+136	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3000 lbs. per sq. inch (20.68 N /mm 2 at 28 days)</b> with a mix not leaner than <b>1:2:4</b> in straight beams lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in basement and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. Bracing beams / lintels / nibs / sills / bands /around opening ( <b>Cylindrical Strength 2500 Psi</b> ) Ground Floor	85 Cft	100 Cft	20,668.60	17,568
3.5	Item # 38+136+92 Code -114	First Floor Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in ordinary slab 5 inches (127 mm) to 6 inches (152mm) thick including form work and its removal compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. Slab i/c projections (straight & sloping ) ( <b>Cylindrical Strength 3000 Psi</b> )	70 Cft	100 Cft	21,617.80	15,132
	Item # 56+134+137 Item # 56+134+137+92	Ground Floor	365 Cft	100 Cft	24,314.96	88,750
		First Floor	565 Cft	100 Cft	25,264.16	142,743

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
3.6	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in ordinary slab more than 6 inches (152 mm) thick including form work and its removal compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 57+134+137	Ground Floor	0 Cft	100 Cft	23,691.64	-
	Item # 57+134+137+92	First Floor	0 Cft	100 Cft	24,640.84	-
3.7	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in straight stairs and landing of required section including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 50+134+137	Stair Case / steps /seats (Steps, Landing & Waist slab) (Cylindrical Strength 3000 Psi)				
	Item # 50+134+137+92	Ground Floor	120 Cft	100 Cft	30,160.60	36,193
	Code -114	First Floor	0 Cft	100 Cft	31,109.80	-
3.8	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in a square of rectangular bottom slab of over head water tank up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement .etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # Code -114	OH Water Tank Bottom Slab (Cylindrical Strength 3750 Psi)	55 Cft	100 Cft	33,233.11	18,278
3.9	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in straight walls in over head water tank bins, bunkers, intze tanks and silo up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # Code -114	OH Water Tank Walls (Cylindrical Strength 3750 Psi)	75 Cft	100 Cft	33,808.88	25,357
3.10	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in roof slab of over head water tank up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # Code -114	OH Water Tank Top Slab (Cylindrical Strength 3750 Psi)	40 Cft	100 Cft	30,836.67	12,335
3.11	Code -114	Providing and laying hard grade ribbed deformed (minimum yield point 60,000 psi or 414 Mpa) reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>				
	Item # 166	Ground Floor	5425 Kg	Kg	123.02	667,384
	Item # 166+174	First Floor	6840 Kg	Kg	124.47	851,375
Amount Carried to Civil Summary						2,357,805

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
<b>EXTERNAL A-SCHEDULE ITEMS</b>						
<b>1</b>		<b>EARTH WORKS</b>				
1.1	Code -103,	Excavation for foundation trenches and drains in <b>gravelly soil</b> and back filling the excavated material in foundation trenches, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) 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)				
	Item # 2	From ± 0'-0" to -5' - 0"	1950 Cft	100 Cft	613.14	11,956
	Item # 2+28	From -5' - 0" to -8' - 0"	465 Cft	100 Cft	690.49	3,211
1.2	Code -104 Item #4	Filling bajri available at site in foundation plinth or under floor, etc. including dressing, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, complete within a lead of one chain (30.5 R.m) and lift of 5 feet (1.52 R.m), etc. complete, including all lifts etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	0 Cft	100 Cft	261.80	-
1.3	Code -117 Item #1	Providing and laying soling stones 6 inches to 9 inches (152 mm to 229 mm) size under floors/foundations & where required etc. including packing with spralls and chips and consolidating etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	0 Cft	100 Cft	3,251.34	-
<b>2</b>		<b>SUB STRUCTURE</b>				
		<b>CONCRETE WORKS</b>				
2.1	Code -106	Providing and laying in situ <b>1:4:8</b> (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 11	Below plinth beam, situ, walls, tanks, over stone soling or where required <b>(Cylindrical 1000 Psi)</b>	185 Cft	100 Cft	14,411.43	26,661
2.2	Code -106	Providing and laying in situ <b>1:3:6</b> (1 cement 3 sand and 6 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work, etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 12	For Cast in situ / mass concrete or where required <b>(Cylindrical 1500 Psi)</b>	50 Cft	100 Cft	15,840.97	7,920
		<b>REINFORCED CONCRETE WORKS</b>				
2.3	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in columns footing of required shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 1+134+137	Foundation for any type <b>(Cylindrical Strength 3000 Psi)</b>	400 Cft	100 Cft	21,685.85	86,743
2.4	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 4+135+138	Columns upto plinth <b>(Cylindrical Strength 3750 Psi)</b>	180 Cft	100 Cft	26,704.50	48,068
2.5	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in plinth beams of required shape and design including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, foundation basement and plinth etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 8+134+137	Plinth Beams i/c nibs / projections <b>(Cylindrical Strength 3000 Psi)</b>	180 Cft	100 Cft	22,344.09	40,219

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
2.6	Code -114 Item # 166	Providing and laying hard grade ribbed deformed <b>(minimum yield point 60,000 psi or 414 Mpa)</b> reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>	2500 Kg	Kg	123.02	307,550
2.7	Code -108 Item # 12	Providing a coat of <b>bitumen emulsion at 10 Lbs. per % sft. (0.49 Kg/sm)</b> on walls and floor in ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	1745 Sft	100 Sft	648.08	11,309
<b>3</b>		<b><u>SUPER STRUCTURE</u></b> <b>REINFORCED CONCRETE WORKS</b>				
3.1	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in the ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>Columns (Cylindrical Strength 3750 Psi)</b>	155 Cft	100 Cft	30,389.36	47,104
3.2	Item # 24+135+138 Item # 24+135+138+92 Code -114	Ground Floor First Floor Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in straight beams lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in basement and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>Beams and projections (Cylindrical Strength 3000 Psi)</b>	0 Cft	100 Cft	31,338.56	-
3.3	Item # 38+134+137 Item # 38+134+137+92 Code -114	Ground Floor First Floor Providing and laying hard grade ribbed deformed <b>(minimum yield point 60,000 psi or 414 Mpa)</b> reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>	0 Cft	100 Cft	24,839.57	-
	Item # 166	Ground Floor	850 Kg	Kg	123.02	104,567
	Item # 166+174	First Floor	0 Kg	Kg	124.47	-
<b>Amount Carried to Civil Summary</b>						<b>695,308</b>

# **ARCHITECTURE WORKS**

## BILL OF QUANTITIES

## CIVIL SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
4	MASONRY WORKS	471,663
5	THERMAL & MOISTURE PROTECTION	N/A
6	METAL WORKS	193,633
7	WOOD WORKS	32,048
8	FLOOR FINISHES	100,302
9	WALL FINISHES	336,913
10	CEILING FINISHES	52,011
11	ROOF FINISHES & WATER PROOFING	55,206
12	EXTERNAL FINISHES (BUILDING)	158,489
13	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	192,341
	<b>Total of Schedule Items</b>	1,592,606
	Add _____% Suitable Premium on Civil works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
4	MASONRY WORKS	N/A
5	THERMAL & MOISTURE PROTECTION	-
6	METAL WORKS	-
7	WOOD WORKS	-
8	FLOOR FINISHES	-
9	WALL FINISHES	N/A
10	CEILING FINISHES	N/A
11	ROOF FINISHES & WATER PROOFING	-
12	EXTERNAL FINISHES (BUILDING)	-
12	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	-
	<b>Total of Non-Schedule Items - B</b>	-
<b>TOTAL AMOUNT FOR 1 UNIT</b>		-
<b>TOTAL AMOUNT FOR 6 UNIT CARRIED TO GRAND SUMMARY</b>		-



## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
<b>A-SCHEDULE ITEMS</b>						
<b>4</b>		<b>All items under this head (Architectural work) to be carried out as per relevant Section of PWD &amp; technical specifications (Volume-II), Drawings, BSI/ASTM Standards, complete in all respect and to the entire satisfaction of the Engineer. Due to pitch roof second para of clause No 1.9 of General conditions of PWD schedule of rates-2012 will be applicable for the height of the higher side.</b>				
		<b>DPC &amp; MASONRY WORKS</b>				
		<b>Damp Proof Course (DPC)</b>				
4.1	Code -108 Item # 3 + Code -109 Item # 123	Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded <b>crushed boulders (instead of Screened bajri)</b> of 3/4 inch (19 mm) and down gauge mixed with any approved water proofing agent including compacting, curing form work and its removal etc. complete, but excluding the cost of water proofing agent .etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
		2" thick DPC	150 Sft	100 Sft	2,812.71	4,219.07
4.2	Code -108 Item # 5	Extra for using water proofing agent pudlo in item Nos. 4.1 (quantity to be used as per manufacturer's specification/2.50Kg per 100Sft).etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	4 Kg	Kg	86.10	344.40
		<b>Solid Block Masonry</b>				
4.3	Code-110 & Code-109	Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block <b>4 to 6 inches</b> (102mm to 152 mm) thick using graded <b>crushed boulders (instead Screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-110 Item # 44+92+100+ Code-109 Item # 120	Ground Floor	1280 Cft	100 Cft	16897.84	216,292.35
	Code-110 Item # 44+70+92 +100 Code-109 Item # 120	First Floor & Above	1380 Cft	100 Cft	17721.61	244,552.40
4.5	Code-110 Page # 72, 80 & 81	Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block masonry more than 6 inches (152 mm) thick <b>in steps, stairs</b> of approved design using graded <b>crushed boulders (instead of screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:4 including scaffolding, raking out joints and curing etc. complete in ground floor superstructure etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-110 Item #2+68+74+92 code-109 Item# 120	FOR BLOCK MASONRY STEPS	35 Cft	100 Cft	17915.71	6,255.27
4.6	Code-112 Item #144	Providing and laying wall ties of mild steel flats of approved section and design placed at horizontal and vertical spacing in cavity wall of any description in any floor at any height..	0 Kg	Kg	181.84	-
		<b>Amount Carried to Civil Summary</b>				<b>471,663.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
6		<b>METAL WORKS</b>				
6.1	Code -119 Item # 43	Providing and fixing M.S. moulded steel door frame of 4" x 2-1/2" (102 mm x 64 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to BSS. 1245 having a single rebate size 1-1/2" x 1/2" (38 mm x 13 mm) with 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 No., 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. etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	160 Rft	Rft	157.12	25,139.20
6.2	Code -119 Item # 44	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	40 Rft	Rft	185.34	7,413.60
6.3	Code -122 Item #159	Painting Iron work with <b>synthetic enamel paint</b> of approved make and shade two coats over and including the cost of one priming coat at any height in any floor etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	200 Sft	100 Sft	2,776.62	5,553.24
6.4	Code -119 Item #102 Page # 251	Providing and fixing fully glazed Bronze anodized or powder coated aluminium Sliding / fixed & openable /Top hung windows & ventilators as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 95mm 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, but excluding the cost of glass pans.	200 Sft	Sft	568.07	113,614.00
6.5	Code -119 Item #121	Providing and fixing Tinted glass panes 5mm thick to M.S. Box pipe / Aluminium doors, windows and ventilators etc including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height. (For Doors, Windows & Fixed Glazing or where instructed)	395 Sft	Sft	106.11	41,913.45
6.6	Code -119 Item #120	Providing and fixing plain glass panes 5mm thick to M.S. Box pipe / Aluminium doors, windows and ventilators etc. including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height. (For vision panel of door shutters)	0 Sft	Sft	88.91	-
		<b>Amount Carried to Civil Summary</b>				<b>193,633.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
7		<b>WOOD WORKS</b>				
7.1	Code-120 Item # 02	<b>Door, windows &amp; partitions Frame</b> Providing and fixing best quality deodar frames for doors, windows, ventilators, clerestory windows, shelves, partitions, trellis work, etc., as required . Complete in all respect as per drawings, specification and as directed by the Engineer.	5 Cft	Cft	4,595.14	22,975.70
7.2	Code-120 Item # 284	<b>Architrave / Beading</b> Providing and fixing best quality deodar wood projected beading upto one Sq. inch (6.45 Sqm.) in sections and required design fixed around the panels of doors, windows etc., of any description , complete in all respect as per drawings, specification and as directed by the Engineer.	220 Rft	Rft	35.66	7,845.20
7.3	Code-122 Item # 189	Applying French or spirit polishing, two coat of approved make on wood work at any height in any floor.	65 Sft	100 Sft	1,878.96	1,226.68
		<b>Amount Carried to Civil Summary</b>				<b>32,048.00</b>
8		<b>INTERNAL FLOOR FINISHES</b>				
8.1	Code-117	Providing and laying 1:5:10 cement concrete bed under floors using graded stone ballast 3/4 & down <b>instead of 2 inches (51 mm)</b> and down gauge with levelling, ramming, watering and curing etc. complete. <b>(under Mosaic &amp; Porcelain tiles).</b>				
	Code-117 Item # 3	Ground Floor	2 Cft	100 Cft	9,442.42	188.85
	Code-117 Item # 3+26	First Floor & Above	1 Cft	100 Cft	9,684.38	96.84
8.2	Code-117	<b>Mosaic Floor</b> Providing and laying terrazzo floor 1-1/2 inches (38 mm) thick consisting of 1/2 inch (13 mm) thicktopping 1:2 <b>white cement instead of grey cement</b> (one grey cement 2 approved marble chips No. 0 to 4) in ground floor over a base of 1:2:4 (one cement, two sand and four screened graded bajri) cement concrete 1 inch (25 mm) thick laid in panels or pattern including form work, curing, cutting, rubbing and polishing etc. complete.				
	Code-117 Item # 12+17	Ground Floor	425 Sft	100 Sft	6,163.94	26,196.75
	Code-117 Item # 12+17+26	First Floor & Above	360 Sft	100 Sft	6,405.90	23,061.24
8.3	Code-117	Providing and laying terrazzo floor 1-1/2 inches (38 mm) thick consisting of 1/2 inch (13 mm) thicktopping 1:2 (one grey cement 2 approved marble chips No. 0 to 4) in ground floor over a base of 1:2:4 (one cement, two sand and four screened graded bajri) cement concrete 1 inch (25 mm) thick laid in panels or pattern including form work, curing, cutting, rubbing and polishing etc. complete.				
	Code-117 Item # 12	Ground Floor	107 Sft	100 Sft	5,287.04	5,657.13
	Code-117 Item # 12+26	First Floor & Above	88 Sft	100 Sft	5,529.00	4,865.52
8.4	Code-117 Item # 159	Providing and laying light colour, glazed/non skid vitrified porcelan tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	225 Sft	100 Sft	17882.39	40,235.38
		<b>Amount Carried to Civil Summary</b>				<b>100,302.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
9		<b>INTERNAL WALL FINISHES</b>				
9.1	Code-122	<b>Internal Wall Plaster</b> 1/2" (13 mm) thick cement plaster 1:6 on wall columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 6	Ground Floor	2760 Sft	100 Sft	1730.74	47,768.42
	Code-122 Item # 6+87	First Floor & Above	2930 Sft	100 Sft	1884.61	55,219.07
9.2	Code-118 Item # 55 + 58	Dado & Skirting Providing and fixing marble mosaic tile 12" X 6" X 3/4" (305 mm X 152 X 19 mm) with chips No. 0 to 4 in <b>dado and skirting</b> of approved design in light shade over 1/2 inch (13 mm) thick base of 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 matching colour curing, grinding, rubbing and polishing etc. complete.				
	Code-118 Item # 54+56	Ground Floor	100 Sft	100 Sft	14,274.50	14,274.50
	Code-118 Item # 54+56+58	First Floor & Above	110 Sft	100 Sft	14,567.19	16,023.91
9.3	Code-118	Providing and fixing cement tiles 6" X 6" X 3/4" (152 mm X 152 mm X 19 mm) in dado and skirting in grey colour 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 joints and washing the tiles with cement slurry, curing, grinding, rubbing and polishing etc. complete..				
	Code-118 Item # 60	Ground Floor		100 Sft	12,294.08	-
	Code-118 Item # 60+67	First Floor		100 Sft	12,489.21	-
9.4	Code-122 Item # 151	Distempering with vinyl distemper (ICI) Deluxe Paintex of approved make and shade in 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.	5690 Sft	100 Sft	1,053.54	59,946.43
9.5	Code-122	Puddlo Plaster 3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc,complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 8 Item # 8+88+ 4 x 91	U.G.W.T Plaster		100 Sft	2367.12	-
9.6	Code-122	O.H.W.T Plaster Providing and mixing water proofing agent pudlo in cement mortar of any description in any floor etc., complete in all respects as per specifications/2.50Kg per 100Sft). & relevant drawings and all works to the satisfaction of the Engineer.	170 Sft	100 Sft	3,268.04	5,555.67
	Item # 30	U.G.W.T		Kg	86.15	-
	Item # 30	O.H.W.T	5 Kg	Kg	86.15	430.75

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
9.7	Code-117 Item # 159	Providing and laying light colour, glazed/non skid vitrified porcelean tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	770 Sft	100 Sft	17882.39	137,694.40
		<b>Amount Carried to Civil Summary</b>				<b>336,913.00</b>
10		<b>INTERNAL CEILING FINISHES</b>				
10.1	Code-122	<b>Internal Ceiling Plaster</b> 1/2" (13 mm) thick cement plaster 1:6 on ceilings cantilever soffits others etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 6	Ground Floor	760 Sft	100 Sft	1,730.74	13,153.62
	Code-122 Item # 6+87	First Floor & Above	1050 Sft	100 Sft	1,884.61	19,788.41
10.2	Code-122 Item # 151	Distempering with vinyl distemper (ICI) Deluxe Paintex of approved make and shade in 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.	1810 Sft	100 Sft	1,053.54	19,069.07
		<b>Amount Carried to Civil Summary</b>				<b>52,011.00</b>
11		<b>ROOF FINISHES &amp; WATER PROOFING</b>				
11.1	Code-117 Item #7+25+26	Providing and laying floor of 3 inches (76 mm) thick 1:2:4 reinforced cement concrete using graded crushed bolders <b>instead of screened bajri</b> 3/4" (19 mm) and down gauge in ground floor including form work, consolidation, finishing and curing etc. complete but excluding the cost of reinforcement.				
	Code-117 Item #7+26	Roof Lev (+10'-6" upto +14'-6")	0 Sft	100 Sft	4,289.49	-
	Code-117 Item #7+26+27	Lev (+19'-3" upto +33'-1")	1020 Sft	100 Sft	4,726.58	48,211.12
11.2	Code-108 Item #27	Water proofing of roof slab using Bituflex @ 10 Kg per % sft in three coats, i/c cleaning /scraping the extra mortar etc. from the roof surface, and washing the surface with water and filling the depressions using Bituflex: sand mortar (1:2).Applying one primer coal, over moist surface using a mix of 50 %Bituflex and 50 % water blirded the surface with saul any floor in any light.	1020 Sft	100 Sft	685.80	6,995.16
		<b>Amount Carried to Civil Summary</b>				<b>55,206.00</b>
12		<b>EXTERNAL WALL FINISHES (BUILDING)</b>				
12.1	Code-122	<b>External Plaster</b> 3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 8	Ground Floor	1670 Sft	100 Sft	2,367.12	39,530.90
	Code-122 Item # 8+88	First Floor & Above	1930 Sft	100 Sft	2,572.28	49,645.00
12.2	Code-122 Item # 83	Extra for providing horizontal or vertical joints or grooves 3/8" x 1/4" (9.5 mm x 6.4 mm) size of approved design over item No. 12.1	3600 Sft	100 Sft	518.48	18,665.28

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
12.3	Code-122	Painting three coats with <b>weather shield paint deluxe (ICI)</b> 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 etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 172	Ground Floor to Roof	3600 Sft	100 Sft	1,406.88	50,647.68
		<b>Amount Carried to Civil Summary</b>				<b>158,489.00</b>
13		<b>EXTERNAL WALL FINISHES (OTHER THAN BUILDING)</b>				
		<b>External Plaster</b>				
13.1	Code -108 Item # 3 + Code -109 Item # 123	Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded <b>crushed boulders (instead of Screened bajri)</b> of 3/4 inch (19 mm) and down gauge mixed with any approved water proofing agent including compacting, curing form work and its removal etc. complete, but excluding the cost of water proofing agent .etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
		2" thick DPC	75 Sft	100 Sft	2,812.71	2,109.53
13.2	Code -108 Item # 5	Extra for using water proofing agent pudlo in item Nos. 4.1 (quantity to be used as per manufacturer's specification/2.50Kg per 100Sft).etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	2 Kg	Kg	86.10	161.44
		<b>Solid Block Masonry</b>				
13.3	Code-110 & Code-109	Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block masonry <b>more than 6 inches (152 mm) thick</b> using graded <b>crushed boulders (instead Screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete in ground floor superstructure etc, complete in all respects as per drawing, standard , specifications and direction of the Engineer.				
	Code-110 Item # 34+92+100 Code-109 Item # 120	Ground Floor	465 Cft	100 Cft	16040.34	74,587.58
13.4	Code-122	3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 8	Ground Floor	1650 Sft	100 Sft	2,367.12	39,057.48
13.5	Code-122	Painting three coats with <b>weather shield paint deluxe (ICI)</b> 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 etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 172	Ground Floor to Roof	1650 Sft	100 Sft	1,406.88	23,213.52
		<b>HORTICULTURE WORK</b>				

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
13.6	Code-126 Item # 1	Rough dressing of the area for lawn including picking stones, pebbles, stubble, grass roots and other injurious matters and breaking of clods complete including disposal of rubbish within 3 chains (92 m).	880 Sft	100 Sft	103.32	909.22
13.7	Code-126 Item # 6	Supplying and stacking approved garden soil (sweet earth) free from salts, pebbles and grass roots etc. including all leads and lifts.	730 Cft	100 Cft	4,003.42	29,224.97
13.8	Code-126 Item # 7	Spreading approved garden soil (sweet earth) in uniform thickness including mixing and breaking clods and dressing fine for grassing including disposal of rubbish within 3 chains (92 m) complete .	730 Cft	100 Cft	193.38	1,411.67
13.9	Code-126 Item # 2	Supplying and stacking well decayed cowdung manure from approved source including all leads and lifts.	150 Cft	100 Cft	2,578.40	3,867.60
14.0	Code-126 Item # 3	Spreading cowdung manure and mixing the same upto any depth in the prepared bed including breaking clods, dressing fine for grassing, including, disposal of rubbish within 3 chains (92 m) complete.	150 Cft	100 Cft	107.74	161.61
14.1	Code-126 Item # 11	Supply live (Dacca) grass in slabs with earth intact including all lead and lifts.	880 Sft	Sft	17.60	15,488.00
14.2	Code-126 Item # 13	Grassing fine by dribbling grass roots 3" apart including watering, weeding till such time the grass is set and becomes green and is fit for mowing	880 Sft	100 Sft	244.19	2,148.87
		<b>Amount Carried to Civil Summary</b>				<b>192,341.00</b>
<b>B-NON SCHEDULE ITEMS</b>						
5		<b>THERMAL &amp; MOISTURE PROTECTION</b>				
5.1	N.S.I	Providing and applying three coats of 2 component flexible polymer modified cementitious waterproof coating AQUAFIN-2C /BASF-Master seal-550/ SIKA top seal -107 or approved equivalent over RCC slabs and walls of any wet area e.g. Baths, Kitchens, Balcony's etc, at any height in any floor as per manufacturer's specifications & recommendations complete in all respects as per drawings, relevant specifications and as directed by the Engineer.  First Floor	85 Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-
6		<b>METAL WORKS</b>				
6.1	N.S.I	<b><u>M.S Staircase Railing</u></b> Providing, fabricating, welding & fixing in position MS Staircase railing comprising of 50mm dia x 16 Swg MS pipe hand rail, 25mm dia x 16 Swg dia balustrade welded to handrail as shown in the drawing including all required accessories & hardware such as base plate, cap, nuts & bolts etc. fixing arrangement (Drilling & grouting)etc including three coat of approved colour enamel paint over one coat od primer (Paint will be paid in seaprte item, refer BOQ Item) complete in all respects as per drawing, standard, specifications and direction of the Engineer.	40	Rft		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
6.5	N.S.I	<b>Monkey Ladder</b> Providing, fabricating, welding, bolting & fixing in position MS Access/Monkey ladder comprising MS Flat steel 2" x 3/8" thick ( Vertical member) weld with 8" x 8" x 3/8" thick steel plate bolt to Rcc slab, 8" x 3" x 3/8" thick steel plate weld to vertical flat and bolted to wall, 3/4" dia solid steel bar welded to flat @ 12" C/C, as shown on drawing, three coat of approved colour enamel paint over one coat od primer (Paint will be paid in seaprate schedule item, refer BOQ Item # ..... ) etc, including required hard ware complete in all respect as per drawing, standard, specifications and direction of the Engineer. <b>The contractor shall submit shop drawings (without any additional cost) for approval prior to start of work.</b>	35 Kg	Kg		-
6.6	N.S.I	Providing and fixing Tinted glass panes 6mm thick to wooden door, fixed glazing, windows, ventilators or where required etc including the cost of wooden trim, rubber gasket packing and screw etc, in any floor at any height.	30 Sft	Sft		-
6.7	N.S.I	Providing and fixing Anti-Oxidation Aluminum Spacer Bar for Double Glazing Glass up to 10mm wide including slicon sealant bead to door, fixed glazing, windows, ventilators or where required etc. including the cost of rubber gasket packing and screw etc., in any floor at any height.	130 Rft	Rft		-
6.3	N.S.I	<b>Aluminium Louvered Window/Shutter</b> Providing, fabricating and fixing of approved coloured anodized aluminum louver window/shutter open able casement using premium quality aluminum sections of Pakistan Cable / or equivalent approved with fixed on Rcc & masonry surface, including all required hardware, pivots heavy duty handles, locks, stays etc.Including silicon sealant to all external junction been structure and windows/Shutter to give water / wind proof seal. Complete in all respect as per drawings, specifications and to the entire satisfaction of the Engineer. (Note: minimum wall thickness for all sections shall be 1.6mm or according to the design) <b>The contractor shall submit shop drawings (without any additional cost) for approval prior to start of work.</b>	22Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-
7		<b>WOOD WORKS</b> <b>DOOR SHUTTERS</b>				



## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
7.1	N.S.I	Providing, Making & fixing in position 1-1/2" (38mm) thick solid core approved colour Formica finish flush door shutters with & without vision panel. Comprising of 6mm thick lamination sheet (manufacturer pressed lamination sheet over lasani board) on either side, over all around best quality Partal or approved wood frame 50mm wide horizontal, vertical & cross /diagonal & 150mm wide lock rail in full length, hollow area except framing to be filled with the approved rough wood, 1-1/2" x 1/2" thick Golden teak wood edge lipping all around. The door shutter mechanically pressed by standard manufacturers under power driven hydraulic press as approved by the Engineer, with and without vision glass panel (vision glass panel will be paid seapreatly, in BOQ item # ....) including with and without vision glass panel, nails, glue or any required hardware's and applying solignum for termite treatment, at any height & any floor etc., complete in all respects as per drawing, standard , specifications and direction of the Engineer. <b>(Note: Cost of Ironmongery such as Hinges, Tower bolts, Locks, Handles, kick &amp; push plate etc. paid in Separate item.)</b>	230Sft	Sft		-
7.2	N.S.I	Providing and fixing in position as per drawings & joinery schedule all of <b>"New ISE" Hong Kong, New Star Japan</b> or approved equivalent make as per relevant drawings, contractor to submit the sample / shop drawings for approval prior to execution etc, complete in all respects as per drawing, standard , specifications and direction of the Engineer.  S.S Door hinges 4" long  SS Dead Lock complete set  SS Handle 36 inch long  SS Handle 12 inch long  Motorized Door Lock complete set (Lock body, Cylander & Liver handle) for rooms  SS Tower Bolt 24" long  SS Tower Bolt 8" long  Stainless Steel Kick plate 3mm thick  <b>Wooden Cabinets</b> Providing making and fixing in position <b>floor mounted lower cabinets</b> (Pantry etc.) as per drawing at any height / floor, made of 3/4" thick coloured laminated (both face) Lasani board shutter free from formaldehyde including all around OAK wood lipping kitchen cabinet, 3" x 1-1/2" thick Partal wood frame, complete with all accessories i.e. imported hinges, locks, magnetic catchers, best quality handles etc., including any termite treatment, providing & applying 03 coats of approved colour shade lacquer polish by Jaffar Brothers or similar approved as per manufacturer's instruction & specification including all required hardware's for fixing etc,complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. <b>(Front face will be measured for payments)</b>	48.Each  1.Each  0.Each  1.Each  11.Each  0.Each  12.Each  0 Sft	Each  Each  Each  Each  Each  Each  Sft		-  -  -  -  -  -  -
7.3	N.S.I		0 Sft	Sft		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
7.4	N.S.I	Providing making and fixing in position wall mounted cabinets for (Kitchen/Pantry etc.) as per drawing at any height / floor, made of 3/4" thick colored laminated (both side) Lasani board shutter free from formaldehyde including all around Deodar wood lipping 3/8" thick, 3" x 1-1/2" thick Partal wood frame, 6mm one side laminated Lasani board back complete with all accessories i.e. imported hinges, locks, magnetic catchers, best quality handles etc., including any termite treatment, providing & applying 03 coats of approved colour shade lacquer polish by Jaffar Brothers or similar approved equivalent as per manufacturer's instruction & specification including all required hardware's for fixing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. <b>(Front face will be measured for payments)</b>	0 Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-
8		<b>INTERNAL FLOOR FINISHES</b>				
8.1	N.S.I	Providing, laying and fixing Per-Polished (Boticena) Marble Counter Top of approved thickness as per drawing & finishing schedule activities include 40mm thick RCC slab, 1:4 C.S mortar with Dry Bond, fixing in wall, cutting/chiseling in RCC / CC members etc, jointing, grouting, chamfering edging/half D gola around the counter top, finishing, maintaining proper level with curing etc. where required complete in all respects as per specifications and as directed by the Engineer.	0 Sft	Sft		-
8.3	N.S.I	Providing and laying Terrazzo tiles 13" x 12" x 1" thick for Treads with bull nosing & 3nos horizontal V- grooves at any floor including 1:3 screed bedding with mortar including jointing with grouting material of approved quality & grinding, polishing etc (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.	75 Sft	Sft		-
8.4	N.S.I	Providing and laying Terrazzo tiles 12" x 6" x 1/2" thick for Risers at any floor including 1:3 screed bedding with mortar including jointing with grouting material of approved quality & grinding, polishing etc (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.	45 Sft	Sft		-
8.5	N.S.I	Providing & Laying Natural stone 24" x12" & 12" x12", 1" & 1-1/2" thick rough finished approved local stone on entrance steps & floor (straight, curved, arches etc.) with cement sand mortar 1:2 and in any pattern in as per direction of the engineer-in-charge including the cost of curing, making the stone surface rough flat etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	60 Sft	Sft		-
8.6	N.S.I	Providing & Laying Natural stone 24" x 12" & 12" x6" x 1/2" thick rough finished approved local stone on Floor, wall/ Dado/ Skirting /coping with cement sand mortar 1:2 in ground floor setting of stone tiles in slurry of grey cement over mortar base including filling of joints with cement slurry of matching colour curing etc. complete.	30.Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-
11		<b>ROOF FINISHES &amp; WATER PROOFING</b> Providing & laying complete roof treatment at any floor and any height as shown in the drawing, details consisting of following items complete in all respects as per drawing, standards, specifications and direction of the Engineer.				

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
11.1	N.S.I	Providing & laying in position 1-1/2" (38mm) thick Diamond jumbolon-Board from Diamond Foam or approved equivalent having density 35kg/cum, over above Water Proofing membrane with rebated edge as per manufacturer's specifications, instruction & as shown in the drawing etc, complete in all respects as per drawings, specification and as directed by the Engineer.	1020 Sft	Sft.		-
11.2	N.S.I	Providing and laying BRC mesh 4" x 4" x 10 swg from Al - Burhan (Pvt) Ltd or approved equivalent including cutting, binding with steel binding wire etc. complete in all respects as per drawings, specifications and as directed by the Engineer.	1020 Sft	Sft.		-
		<b>Amount Carried to Civil Summary</b>				-
12		<b>EXTERNAL WALL FINISHES (BUILDING)</b>				
12.1	N.S.I	Providing & Laying free fom natural stone wall cladding random stone 1" & 1-1/2" thick rough finished approved local stone on wall (straight, curved, arches etc.) with cement sand mortar 1:2 and in any pattern in as per direction of the engineer-in-charge including the cost of curing, making the stone surface smooth etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	400 Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-
13		<b>EXTERNAL WALL FINISHES (OTHER THAN BUILDING)</b>				
13.1	N.S.I	Providing & Laying free fom natural stone wall cladding random stone 1" & 1-1/2" thick rough finished approved local stone on wall (straight, curved, arches etc.) with cement sand mortar 1:2 and in any pattern in as per direction of the engineer-in-charge including the cost of curing, making the stone surface smooth etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	230 Sft	Sft		-
13.2	N.S.I	Providing, fabricating, welding & fixing in position MS hallow tube folding grill door comprising of 1-1/2" x 3" x 16 Swg hollow tube & solid bar horizontal & vertical & 12 swg Ms sheet on either side as shown on drawing (EA-01012-GGWT-A6-0030), including hold fast (6 No), hinges, L-drop with lock & MS sheet 12 swg, heavy duty wheel up to 3" dia with cover, MS wheel track with 2" x 2" x 1/4" thick " T " iron including 1:2:4 concrete and all required fixing hardware including two coat of red oxide paint and three coat of epoxy paint of approved color & shades as per manufacturer's specification etc. complete in all respects as per drawing, standard, specifications and direction of the Engineer.	55Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-

# **ELECTRICAL WORKS**

BILL OF QUANTITIES

GRAND SUMMARY

S.NO:	DESCRIPTION	AMOUNT
1	ELECTRICAL WORKS	-
2	EXTRA LOW VOLTAGE (ELV) WORKS	-
TOTAL AMOUNT OF 01 NO. BUILDING (Rs.)		-
TOTAL AMOUNT OF 06 NO. BUILDINGS (Rs.)		-

## BILL OF QUANTITIES

## ELECTRICAL SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	SINGLE PVC INSULATED WIRE IN EXISTING CONDUIT	3,656
2	3 WIRE IN PVC RECESSED CONDUIT	266,910
3	UPVC CONDUIT & DUCT	23,975
4	"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD	14,562
5	BATTEN/ ANGLE HOLDER, CEILING ROSE, BELL/ INDICATORS	1,225
6	FITTING & FIXTURE (PHILIPS/SIGNIFY, OSRAM, GE, THORN)	267,000
7	CEILING FANS	46,745
8	PLASTIC BODY EXHAUST FANS	15,075
	<b>Total of Schedule Items</b>	639,148
	Add _____% Premium on Electrical Works of PWD-2022	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	CONDUITS & PIPES	-
2	L.V DISTRIBUTION BOARD	-
3	WIRING ACCESSORIES	-
4	LIGHTING FIXTURES	-
5	EARTHING SYSTEM	-
	<b>Total of Non-Schedule Items - B</b>	-
<b>TOTAL AMOUNT OF BUILDING (A+B)</b>		-

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
<b>1</b>	<b>2-26</b>	<b><u>SINGLE PVC INSULATED WIRE IN EXISTING CONDUIT</u></b>				
a)	2-26-05	Supply & drawing of 10 mm <sup>2</sup> , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.	8	P/Meter	457	3,656
		<b>Amount Carried to Electrical Summary</b>				<b>3,656</b>
<b>2</b>	<b>2-34</b>	<b><u>3 WIRE IN PVC RECESSED CONDUIT</u></b>				
a)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to switch board / Light including wiring between switch on the same circuit)	80	P/Meter	510	40,800
b)	2-34-01	Wiring for sub-main with 3x 1.5 mm <sup>2</sup> , 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 as required. (Light point from switch board to point)	300	P/Meter	363	108,900
c)	2-34-01	Wiring for sub-main with 3x 1.5 mm <sup>2</sup> , 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 as required. (Light point to point)	70	P/Meter	363	25,410
d)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to 13A Outlet)	50	P/Meter	510	25,500
e)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (13A Outlet to 13A Outlet)	40	P/Meter	510	20,400
f)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to 20A DP Switch for Electric Geyser)	40	P/Meter	510	20,400

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
g)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (20A DP Switch to Flex Outlet for Electric Geyser)	15	P/Meter	510	7,650
h)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to 15A Outlet for Electric Heater)	35	P/Meter	510	17,850
<b>Amount Carried to Electrical Summary</b>						<b>266,910</b>
<b>3</b>	<b>2-61</b>	<b><u>uPVC CONDUIT &amp; DUCT</u></b>				
a)	2-61-03	Supply & fixing 30mm (1-1/4") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	5	P/Meter	241	1,205
b)	2-61-05	Supply & fixing 50mm (2") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	30	P/Meter	759	22,770
<b>Amount Carried to Electrical Summary</b>						<b>23,975</b>
<b>4</b>	<b>2-66</b>	<b><u>"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD</u></b>				
a)	2-66-01	Providing & fixing 10 Amps Polycarbonate flame retardant S.P switch with fancy required gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Schneider / Philips)	5	Each.	471	2,355
b)	2-66-02	Providing & fixing 10 Amps Polycarbonate flame retardant Two way switch with fancy gang plate fixed on die fabricated, powder coated, metal board recessed in wall or column including connection as required. (Schneider / Philips)	2	Each.	531	1,062
c)	2-66-06	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)	4	Each.	1,290	5,160
d)	2-66-11	Providing & fixing Polycarbonate flame retardant, fan dimmer with plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (Schneider / Philips)	5	Each.	1,197	5,985



## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		<b>Amount Carried to Electrical Summary</b>				<b>14,562</b>
5	2-67	<b><u>BATTEN/ ANGLE HOLDER, CEILING ROSE, BELL/ INDICATORS</u></b>				
a)	2-67-02	Providing & fixing 6 Amps Plastic ceiling rose on PVC Round block/Round Cover fitted on surface including connection as required.	5	Each.	245	1,225
		<b>Amount Carried to Electrical Summary</b>				<b>1,225</b>
6	2-77	<b><u>FITTING &amp; FIXTURE (PHILIPS/SIGNIFY, OSRAM, GE, THORN)</u></b>				
a)	2-77-02	Providing, Installation, Testing & Commissioning of recessed / surface mounted project / professional series ceiling lights / downlights including driver having warm / neutral white / cool white colour, 100-110 lm/watts efficiency, 0.9 or above power factor, 40000-50000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge.				
i	e	16-18 Watts	3	Each.	14,650	43,950
ii	f	19-21 Watts	15	Each.	14,870	223,050
		<b>Amount Carried to Electrical Summary</b>				<b>267,000</b>
7	2-80	<b><u>CEILING FANS</u></b>				
a)	2-80-03	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.	5	Each.	9,349	46,745
		<b>Amount Carried to Electrical Summary</b>				<b>46,745</b>
8	2-84	<b><u>PLASTIC BODY EXHAUST FANS</u></b>				
a)	2-84-01	Providing & installing 20 Cm (8") sweep, Plastic body Exhaust fan complete with blades, motor, etc fixed in existing hole including connection with 14/0.0076" flexible wire complete as required. Pak, Royal, GFC, Younas, Millat.	5	Each.	3,015	15,075
		<b>Amount Carried to Electrical Summary</b>				<b>15,075</b>

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>NON-SCHEDULE ITEMS</b>						
<b>1</b>		<b><u>CONDUITS &amp; PIPES</u></b>				
a)		Supply and installation of following size internal diameter PVC / uPVC Class-D pipe / Flexible PVC Conduit as race ways with all accessories, recessed / surface on wall / column / under floor, as per drawings and specifications, complete in all respect.				
i		50 mm dia PVC Conduit	5	Rm.		-
b)		Supply and installation of following size uPVC Pipe Class-D for Power cables, buried in ground / under floor as per specification, including excavation for laying of pipe, bricks and backfilling with new and fresh sand (6" under and 6" above pipe) etc., (wherever required), as shown on the specifications and drawings, complete in all respect.				
i		50mm dia uPVC Pipe (Class-D)	5	Rm.		-
c)		Supply and installation of Pull Boxes (Floor / Wall) with all installation accessories, as per drawings, specifications and approved brands, complete in all respect.	1	No.		-
d)		Providing and Construction of Handhole Size 1'-6" x 1'-6" x 2'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For Electrical cables)	1	No.		-
e)		Providing and Construction of Handhole Size 2'-0" x 2'-0" x 2'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For Electrical cables)	1	No.		-
		<b>Amount Carried to Electrical Summary</b>				-
<b>2</b>		<b><u>L.V. DISTRIBUTION BOARD</u></b>				
a)		Supply, installation, testing and commissioning of following wall mounting / floor standing surface type Distribution Board (DB) made with 16 SWG sheet metal, dust protected, vermin proof housing coated with approved color having all the necessary switching, energy analyzer etc., protections, as per drawing and specification, complete in all respect.				
i		DB-AP	1	No.		-

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		<b>Amount Carried to Electrical Summary</b>				-
<b>3</b>		<b><u>WIRING ACCESSORIES</u></b>				
a)		Supply, installation, testing and commissioning of following 10/15/20A, One/Two/Three/Four gang type switches, Dimmer Switches, Sockets including 16 SWG Sheet Steel powder coated back boxes with earth terminal, recessed in wall, with all accessories as per drawings and specification, complete in all respects.				
i		Two Gang Switch 10A	4	No.		-
ii		Two Gang Switch 10A (Weatherproof type)	1	No.		-
iii		Three Gang Switch 10A	3	No.		-
iv		Three Gang Switch 10A (Weatherproof type)	1	No.		-
v		Four Gang Switch 10A	2	No.		-
vi		13A, International Switch Socket Outlet	16	No.		-
vii		20A, Double Pole Switch with neon indicator	4	No.		-
viii		20A, Flex Outlet	4	No.		-
		<b>Amount Carried to Electrical Summary</b>				-
<b>4</b>		<b><u>LIGHTING FIXTURES</u></b>				
a)		Supply, installation, testing and commissioning of following Light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per drawings and specifications, complete in all respects. Lighting fixtures sample must be submitted to consultant for approval. Note: Refer light fixtures drawings for complete light fixtures details.				
i		Wall / Surface mounted LED Bi-Directional Light Fixture (IP-54) with 2x12W LED lamp	13	No.		-
ii		Wall / Surface mounted LED Wall Light Fixture (IP-20) with 1x20W LED lamp	15	No.		-
b)		Supply, installation, testing and commissioning of following items including all connecting accessories as per drawings, specifications, complete in all respects.				
i		Fan Hook M.S.Box with colour coated	5	No.		-
		<b>Amount Carried to Electrical Summary</b>				-

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
5		<b><u>EARTHING SYSTEM</u></b> Supply, installation, testing and commissioning of following items for complete earthing system including all connecting accessories as per drawings, specifications and as mentioned in General Notes, complete in all respects.				
a)		Supply, installation, testing and commissioning of following items for complete Power Earthing system, including Bentonite chemical, other all required materials and connecting accessories, boring, labor, tools, transportation etc., as per drawings and specifications, complete in all respects with detailed test reports.				
i		Earth pit with Rod type earth electrode, 3/4" dia and 9 Ft. long copper bonded rod.	1	No.		-
		<b>Amount Carried to Electrical Summary</b>				-

# **ELV WORKS**

## BILL OF QUANTITIES

## ELV SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	uPVC CONDUIT & DUCT	22,770
2	"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD	4,544
	<b>Total of Schedule Items</b>	27,314
	Add _____% Premium on ELV Works of PWD-2022	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	CONDUITS & PIPES	-
2	VOICE COMMUNICATION SYSTEM (Passive Equipment Only)	-
3	CABLE TELEVISION SYSTEM (CATV)	-
4	SELF CONTAINED EMERGENCY LIGHTS	-
	<b>Total of Non-Schedule Items - B</b>	-
	<b>TOTAL AMOUNT OF BUILDING (A+B)</b>	-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
1 a)	2-61 2-61-05	<b><u>uPVC CONDUIT &amp; DUCT</u></b> Supply & fixing 50mm (2") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	30	P/Meter	759	22,770
		<b>Amount Carried to ELV Summary</b>				<b>22,770</b>
2 a)	2-66 2-66-12	<b><u>"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD</u></b> Providing & fixing Polycarbonate flame retardant T.V Socket with plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (Schneider / Philips)	4	Each.	1,136	4,544
		<b>Amount Carried to ELV Summary</b>				<b>4,544</b>
<b>NON-SCHEDULE ITEMS</b>						
1 a)		<b><u>CONDUITS &amp; PIPES</u></b> Supply and installation of following size internal diameter PVC / uPVC Class-D pipe / Flexible PVC Conduit as race ways with all accessories, recessed / surface on wall / column / under floor, as per drawings and specifications, complete in all respect.				
i		25 mm dia PVC Conduit	80	Rm.		-
ii		50 mm dia PVC Conduit	5	Rm.		-
iii		25 mm dia Flexible PVC Conduit	5	Rm.		-
b)		Supply and installation of following size uPVC Pipe Class-D for Telecommunication Cable (copper / optic fiber). Buried in ground / under floor as per specification, including excavation for laying of pipe, bricks and backfilling with new and fresh sand (6" under and 6" above pipe) etc., (wherever required), as shown on the specifications and drawings, complete in all respect.				
i		50mm dia uPVC Conduit (Class-D)	5	Rm.		-
c)		Supply and installation of Pull Boxes (Floor / Wall) with all installation accessories, as per drawings, specifications and approved brands, complete in all respect.	1	No.		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
d)		Providing and Construction of Handhole Size 1'-6" x 1'-6" x 2'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For ELV cables)	1	No.		-
e)		Providing and Construction of Handhole Size 2'-0" x 2'-0" x 2'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For ELV cables)	1	No.		-
		<b>Amount Carried to ELV Summary</b>				-
<b>2</b>		<b><u>VOICE COMMUNICATION SYSTEM (Passive Equipment Only)</u></b> Supply, installation, testing and commissioning of following items for Voice Communication System as it may require to complete the entire passive and active network including all accessories, as per the single line diagram, drawings and specifications, complete in all respect.				
a)		Supply, installation, testing and commissioning of Single RJ-45, Cat-6 outlet for Voice with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.	5	No.		-
b)		Supply, laying, termination, testing and commissioning of CAT 6 - 4 pair cable for Single RJ-45 outlet (for Voice) in already laid 25mm dia PVC conduit concealed / surface from each outlet to TJB, including tagging and piping with all necessary accessories, complete in all respect.	60	Rm.		-
c)		Supply, installation, testing and commissioning of CAT-6 UTP (RJ-45 to RJ-45) for the above Patch Panels including with all necessary accessories, as per drawing and specification, complete in all respect.				
i		CAT-6 (2m) Long Patch Cord	5	No.		-
d)		Supply, installing, testing and commissioning of following 19" Tag blocks in Telephone Junction Box (TJB), as per drawing and specification, complete in all respect.				
i		TJB with 2x10 Pair IDC Block 19" type	1	No.		-



## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
e)		Installation, testing and commissioning by Manufacturer Authorized Agent / Dealer and handing over complete Voice & Data System to Owner with Providing Training voice data fuke & OTDR Testing, as build drawing, Rack layouts and certification's Principal, complete equipment's Manual and Warranty Documents to Owners representative.	1	Job.		-
		<b>Amount Carried to ELV Summary</b>				-
<b>3</b>		<b><u>CABLE TELEVISION SYSTEM (CATV)</u></b>				
a)		Supply and installation of TVJB Splitter Box with 1x6 Way Splitter, complete in all respects.	1	No.		-
b)		Supply and installation of CATV RG-06 Co-axial 75 ohms shielded cable in already laid 25mm dia PVC conduit from box to TV outlet, complete in all respects.	45	Rm.		-
		<b>Amount Carried to ELV Summary</b>				-
<b>4</b>		<b><u>SELF CONTAINED EMERGENCY LIGHTS</u></b>				
		Supply, installation, testing and commissioning of following items for self contained emergency lights with all fixing accessories, as per drawing and specification, complete in all respect.				
a)		3W, Emergency light with self contained Battery, Ceiling / Wall mounted IP-20 rated, UL 924 Listed, as per specification and drawing, complete in all respect. (non-maintained)	2	No.		-
b)		3W, Exit light with self contained Battery, 24m viewing, Directional Pandent, IP-65 rated, UL 924 Listed, as per specification and drawing, complete in all respect. (non-maintained)	1	No.		-
		Note: Selection of Exit Light is as per Architect's approval.				
		<b>Amount Carried to ELV Summary</b>				-

# **PLUMBING WORKS**

## ENGINEER'S ESTIMATE

## PLUMBING SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	MAN HOLES	58,222
2	U.P.V.C PIPE (EXTERNAL) "D" CLASS	61,090
	<b>Total of Schedule Items</b>	119,312
	Add _____% Premium on Plumbing Works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	PLUMBING FIXTURES	-
2	WATER SUPPLY WORKS	-
3	DRAINAGE WORKS	-
4	FIRE FIGHTING WORKS	-
	<b>Total of Non-Schedule Items - B</b>	-
	<b>TOTAL AMOUNT FOR 1 UNIT</b>	-
	<b>TOTAL AMOUNT CARRIED TO GRAND SUMMARY FOR 6 UNITS</b>	-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
1		<b><u>MAN HOLES:</u></b>				
	315 -15 / Pg:82	Providing manhole type 'B' size 3 feet x 2-1/2 feet (914 mm x 762 mm) (inside dimensions) 4 feet (1219 m) 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 (1.22m to 2.66 m) depth with 18 inches (457 mm) dia. (inside) cast iron cover and frame (weight=1 cwt. 3 Qrs.) (88.90 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.	3	Nos	19,407.41	58,222
	313 -5 / Pg:73	Excavation in all kinds of soil, murum, hard, average or soft including lift up to 5 feet (1.52m) and lead upto one chain (30.48m)	189	CFT	599.70	1,133
	315 -26 / Pg:84	providing & fixing C.I. Cover & Frame 18" dia (460mm) weight 1 cwt. 3 Qtr (88.90 Kg.)	3	Nos	8,769.90	26,310
2		<b><u>U.P.V.C PIPE (EXTERNAL) "D" CLASS:</u></b>				
	306 - 21 / Pg: 57	Providing and fixing un plasticized polyvinyl chloride pipe (P.V.C) "D" class and specials etc. including cutting and fitting complete with and including the cost of cutting trench up to 1-1/2 feet deep refilling, watering, ramming, and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 km.) (working pressure 12 kg/cm2 ) 1-1/4 inches (32 mm) dia.				
	306 - 27 / Pg: 57	6" inches (150 mm) dia pipe	120	Rft	509.08	61,090
		<b>Amount Carried to Plumbing Summary</b>				<b>146,755</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>NON-SCHEDULE ITEMS</b>						
		<b><u>PLUMBING FIXTURES:</u></b>				
1		Providing and fixing European type water closet with (one piece) dual flush Tank with 6.0 liters main flush tank and 3 liters secondary flush tank, build in S/P-Trap , Stop cock with flexible pipe as specified by architect in Fixture schedule, per drawings, specifications and Engineers Approval.	3	Nos		-
2		Providing and fixing Eastern water closet with 6 liters main flush tank, build in S-Trap, Stop cock with Drain pipe till flush tank as per drawings, specifications and Engineers Approval.	-	Nos		-
3		Providing and fixing wash basin with mixer having flow of 6.0 lpm or less with two (2) nos. Stop cocks, Flexible Connection , flexible drain pipe to floor drain as specified by architect in Fixture schedule, per drawings, specifications and Engineers Approval.	4	Nos		-
4		Providing and fixing of kitchen/Pantry Sink with mixer, waste trap, Stop cocks with flexible pipes, Flexible drain pipe as per drawings , specifications and engineers approval.	1	Nos		-
5		Providing and fixing of Shower head with shower mixer having maximum flow of 9.5 lpm, as specified by architect in Fixture schedule, per drawings, specifications and Engineers Approval.	3	Nos		-
6		Providing and fixing bath toilet accessories as under:				-
a		Toilet Paper Holder	3	Nos		-
b		Hand Spray / Muslim shower	3	Nos		-
c		Liquid Soap Dispenser/ Soap dish	3	Nos		-
d		WC Cleaning Brush	3	Nos		-
e		Robe Hooks	3	Nos		-
f		Towel Railing	3	Nos		-
		<b>Sub Total of Plumbing Fixtures</b>				-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1		<b><u>WATER SUPPLY:</u></b> <b><u>COLD &amp; HOT WATER PIPING:</u></b> Supply, installation, testing and Commissioning of PPR PN - 20 Cold/Hot water pipes as per DIN 8077-8078 with molded fittings PN - 25 as per DIN 16962, including pipe supports, cutting, filling, testing/commissioning and all accessories as indicated on the drawing, as per specifications and Engineers approval.				
i		3/4" dia	110	Rft		-
ii		1" dia	200	Rft		-
iii		1 1/4" dia	80	Rft		-
iv		1 1/2" dia	20	Rft		-
v		2" dia	-	Rft		-
2		<b><u>ISOLATION VALVES:</u></b> Providing and fixing of PPR Coated PN-20 Gate valves of bronze material for diameter 2" and smaller and Cast Iron material for Diameter greater than 2" as per specifications and Engineers approval.				
i		3/4" dia	1	Nos		-
ii		1" dia	3	Nos		-
iii		1 1/4" dia	4	Nos		-
iv		1 1/2" dia	1	Nos		-
v		2" dia	-	Nos		-
3		<b><u>PLUMBING SPECIALITIES:</u></b> Supply and installation of the following including all fittings, fixings, accessories, etc., as indicated on the drawing, as per Specifications and Engineers approval.				
i		1/2" dia. Bib Tap	2	Nos.		-
ii		1" Air Relief Valve	-	Nos.		-
4		<b><u>COLD &amp; HOT WATER PIPE INSULATION:</u></b> Supply, installation, testing and Commissioning of 20mm thick closed cell rubber foam inculation (NBR) for cold & hot water piping, as per specifications and Engineers approval.				
i		3/4" dia	110	Rft		-
ii		1" dia	200	Rft		-
iii		1 1/4" dia	80	Rft		-
iv		1 1/2" dia	20	Rft		-
v		2" dia	-	Rft		-
		Continued..				

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## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
8		<b><u>WATER TANK CONNECTION:</u></b> Connection for water tank including with valves, supports, excavation and Backfill, complete all in accordance with the drawing and specifications.				
i		Connection to RCC water tanks	-	Nos		-
ii		Connection to overhead water tanks using Float valve	1	Nos		-
iii		Cast Iron Medium Duty Cover For RCC water tanks	1	Nos		-
<b>Sub Total of Water Supply Works</b>						-



## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1		<b><u>DRAINAGE WORKS:</u></b> <b><u>SOIL, WASTE &amp; VENT PIPING:</u></b> Providing and fixing, uPVC pipes and fittings as per BS EN 1329 for above ground installations for Soil, Waste, Vent pipes with Kite mark on pipes and fittings including cleanout plug, clamps, hanger collars, supports, specials (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval.				
i		2" dia	40	Rft		-
ii		3" dia	160	Rft		-
iii		4" dia	90	Rft		-
2		<b><u>DRAINAGE SPECIALITIES:</u></b> Providing and fixing of Multi floor trap with multiple dia inlet and Single outlet and cleanout plug of the approved self cleaning design with S.Steel grating as specified by the architect, as indicated on the drawing, as per specifications, architectural finishing schedule and Engineers approval. Providing and fixing UPVC cowl for vent pipe of the following dia including all accessories complete in all respects.	8	Nos		-
i		2" dia	-	Nos		-
ii		3" dia	1	Nos		-
iii		4" dia	1	Nos		-
		Continued..				

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
3		<b><u>GULLY TRAPS:</u></b> Construction of 12" x 12" gully trap with 8" P- trap and 12" x 12" cover (min Weight =45 kg) as specified and shown on the drawing, as per specifications and Engineers approval.	3	Nos		-
		<b>Sub Total of Drainage Works</b>				-

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## **FLATS FOR LECTURERS**

BILL OF QUANTITIES

GRAND SUMMARY

S.NO:		Amount
1	Structure	
2	Architecture	
3	Electrical Works	
4	ELV Works	
5	Plumbing Works	
TOTAL CARRIED TO MASTER SUMMARY		

**CIVIL WORKS**  
**(STRUCTURE WORKS)**

## BILL OF QUANTITIES

## Civil SUMMARY

S.NO:	Description	Amount
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	EARTH WORKS	205,559
2	SUB STRUCTURE	4,132,503
3	SUPER STRUCTURE	7,464,223
4	EXTERNAL WORKS (STRUCTURE) OTHER THAN BUILDING (NON COVERED AREA)	95,668
	<b>Total of Schedule Items</b>	<b>11,897,953</b>
	Add _____% Premium on Civil Works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	EARTH WORKS	-
2	SUB STRUCTURE	-
3	SUPER STRUCTURE	-
4	EXTERNAL WORKS (STRUCTURE) OTHER THAN BUILDING (NON COVERED AREA)	-
	<b>Total of Non-Schedule Items - B</b>	<b>-</b>
<b>TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B)</b>		<b>-</b>

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7 = 4 x 6
<b>BUILDING</b>		<b>A-SCHEDULE ITEMS</b>				
<b>1</b>		<b>All items under this head (Structure work) to be carried out as per relevant Section of PWD &amp; technical specifications (Volume-II), Drawings, BSI/ASTM Standards, complete in all respect and to the entire satisfaction of the Engineer. Due to pitch roof second para of clause No 1.9 of General conditions of PWD schedule of rates-2022 will be applicable for the height of the higher side.</b>				
1.1	Code -103,	<b>EARTH WORKS</b> Excavation for foundation trenches and drains in <b>gravelly soil</b> and back filling the excavated material in foundation trenches, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) 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).				
	Item # 2	From ± 0'-0" to -5' - 0"	18070 Cft	100 Cft	613.14	110,794
	Item # 2+28	From -5' - 0" to -8' - 0"	4410 Cft	100 Cft	690.49	30,451
1.2	Code -104 Item #4	Filling bajri available at site in foundation plinth or under floor, etc. including dressing, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, complete within a lead of one chain (30.5 R.m) and lift of 5 feet (1.52 R.m), etc. complete, including all lifts etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	9415 Cft	100 Cft	261.80	24,648
1.3	Code -117 Item #1	Providing and laying soling stones 6 inches to 9 inches (152 mm to 229 mm) size under floors/foundations & where required etc. including packing with spraws and chips and consolidating etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	1220 Cft	100 Cft	3,251.34	39,666
<b>Amount Carried to Civil Summary</b>						<b>205,559</b>



S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
<b>2</b>		<b><u>SUB STRUCTURE</u></b>				
		<b><u>CONCRETE WORKS</u></b>				
2.1	Code -106	Providing and laying in situ <b>1:4:8</b> (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 11	Below plinth beam,situ,walls,tanks, over stone soling or where required <b>(Cylindrical 1000 Psi)</b>	2205 Cft	100 Cft	14,411.43	317,772
2.2	Code -106	Providing and laying in situ <b>1:3:6</b> (1 cement 3 sand and 6 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work, etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 12	For Cast in situ / mass concrete or where required <b>(Cylindrical 1500 Psi)</b>	535 Cft	100 Cft	15,840.97	84,749
		<b><u>REINFORCED CONCRETE WORKS</u></b>				
2.3	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in columns footing of required shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 1+134+137	Foundation for any type <b>(Cylindrical Strength 3000 Psi)</b>	4495 Cft	100 Cft	21,685.85	974,779
2.4	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth. etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 4+135+138	Columns upto plinth <b>(Cylindrical Strength 3750 Psi)</b>	780 Cft	100 Cft	26,704.50	208,295
2.5	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in straight walls more than 6 inches (152 mm) thick including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 9+135+138	Rcc Wall <b>(Cylindrical Strength 3750 Psi)</b>	0 Cft	100 Cft	27,958.39	-
2.6	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in plinth beams of required shape and design including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 8+134+137	Plinth Beams i/c nibs / projections <b>(Cylindrical Strength 3000 Psi)</b>	1200 Cft	100 Cft	22,344.09	268,129

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
2.7	Code -114 Item # 166	Providing and laying hard grade ribbed deformed <b>(minimum yield point 60,000 psi or 414 Mpa)</b> reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>	18000 Kg	Kg	123.02	2,214,360
2.8	Code -108 Item # 12	Providing a coat of <b>bitumen emulsion at 10 Lbs. per % sft. (0.49 Kg/sm)</b> on walls and floor in ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	9940 Sft	100 Sft	648.08	64,419
Amount Carried to Civil Summary						4,132,503
<b>B-NON-SCHEDULE ITEMS</b>						
<b>SUB STRUCTURE</b>						
<b>TERMITE PROOFING</b>						
2.9	Code -124 Item # 199	Providing and Carrying out termite proofing in foundation, 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 Engineer incharge.etc., complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Note: Plinth Area will be measured one time for payment where is the number of applications will be three times on all horizontal &amp; vertical surfaces of the excavation for termite proofing)</b>	3,115	Sft		-
Amount Carried to Civil Summary						-
<b>3 SUPER STRUCTURE</b>						
<b>REINFORCED CONCRETE WORKS</b>						
3.1	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in the ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 24+135+138	Columns <b>(Cylindrical Strength 3750 Psi)</b>  <b>Ground Floor</b>	715 Cft	100 Cft	30,389.36	217,284
	Item # 24+135+138+92	<b>First Floor</b>	645 Cft	100 Cft	31,338.56	202,134
	Item # 24+135+138+92+ 93	<b>Second Floor</b>	975 Cft	100 Cft	32,090.01	312,878
3.2	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in straight walls, vertical fins etc. more than 6 inches (152 mm) thick including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 30+135+138	Rcc Wall <b>(Cylindrical Strength 3750 Psi)</b>  <b>Ground Floor</b>	0 Cft	100 Cft	28,692.59	-

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
3.3	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in straight beams lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in basement and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
		Beams and projections <b>(Cylindrical Strength 3000 Psi)</b>				
	Item # 38+134+137	<b>Ground Floor</b>	925 Cft	100 Cft	24,839.57	229,766
	Item # 38+134+137+92	<b>First Floor</b>	810 Cft	100 Cft	25,788.77	208,889
	Item # 38+134+137+92 +93	<b>Second Floor</b>	960 Cft	100 Cft	26,540.22	254,786
3.4	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3000 lbs. per sq. inch (20.68 N /mm 2 at 28 days)</b> with a mix not leaner than <b>1:2:4</b> in straight beams lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in basement and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
		Bracing beams / lintels / nibs / sills / bands /around opening <b>(Cylindrical Strength 2500 Psi)</b>				
	Item # 38+136	<b>Ground Floor</b>	110 Cft	100 Cft	20,668.60	22,735
	Item # 38+136+92	<b>First Floor</b>	105 Cft	100 Cft	21,617.80	22,699
	Item # 38+136+92+93x2	<b>Second Floor</b>	125 Cft	100 Cft	22,369.25	27,962
3.5	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in ordinary slab 5 inches (127 mm) to 6 inches (152mm) thick including form work and its removal compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
		Slab i/c projections (straight & sloping ) <b>(Cylindrical Strength 3000 Psi)</b>				
	Item # 56+134+137	<b>Ground Floor</b>	1235 Cft	100 Cft	24,314.96	300,290
	Item # 56+134+137+92	<b>First Floor</b>	1265 Cft	100 Cft	25,264.16	319,592
	Item # 56+134+137+92 +93	<b>Second Floor</b>	1733 Cft	100 Cft	26,015.61	450,851
3.6	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in ordinary slab more than 6 inches (152 mm) thick including form work and its removal compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
		Slab i/c projections (straight & sloping ) <b>(Cylindrical Strength 3000 Psi)</b>				
	Item # 57+134+137	<b>Ground Floor</b>	0 Cft	100 Cft	23,691.64	-
	Item # 57+134+137+92	<b>First Floor</b>	0 Cft	100 Cft	24,640.84	-
	Item # 57+134+137+92 +93	<b>Second Floor</b>	0 Cft	100 Cft	25,392.29	-

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
3.7	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in straight stairs and landing of required section including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 50+134+137	Stair Case / steps /seats (Steps, Landing & Waist slab) <b>(Cylindrical Strength 3000 Psi)</b> <b>Ground Floor</b>	105 Cft	100 Cft	30,160.60	31,669
	Item # 50+134+137+92	<b>First Floor</b>	105 Cft	100 Cft	31,109.80	32,665
	Item # 50+134+137+92 +93	<b>Second Floor</b>	105 Cft	100 Cft	31,861.25	33,454
3.8	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in a square of rectangular bottom slab of over head water tank up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement .etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 114+135+138+127 x 2	OH Water Tank Bottom Slab <b>(Cylindrical Strength 3750 Psi)</b>	75 Cft	100 Cft	34,550.73	25,913
3.9	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in straight walls in over head water tank bins, bunkers, intze tanks and silo up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 112+135+138+127 x 2	OH Water Tank Walls <b>(Cylindrical Strength 3750 Psi)</b>	115 Cft	100 Cft	35,126.50	40,395
3.10	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in roof slab of over head water tank up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 118+135+138+127x 2	OH Water Tank Top Slab <b>(Cylindrical Strength 3750 Psi)</b>	55 Cft	100 Cft	32,154.29	17,685
3.11	Code -114	Providing and laying hard grade ribbed deformed <b>(minimum yield point 60,000 psi or 414 Mpa)</b> reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>				
	Item # 166	<b>Ground Floor</b>	11665 Kg	Kg	123.02	1,435,028
	Item # 166+174	<b>First Floor</b>	10785 Kg	Kg	124.47	1,342,409
	Item # 166+174+175	<b>Second Floor</b>	15368 Kg	Kg	125.92	1,935,139

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
Amount Carried to Civil Summary						7,464,223
<b>EXTERNAL A-SCHEDULE ITEMS</b>						
<b>1</b>		<b><u>EARTH WORKS</u></b>				
1.1	Code -103,	Excavation for foundation trenches and drains in <b>gravelly soil</b> and back filling the excavated material in foundation trenches, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) 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).				
	Item # 2	From ± 0'-0" to -5' - 0"	515 Cft	100 Cft	613.14	3,158
	Item # 2+28	From -5' - 0" to -8' - 0"	0 Cft	100 Cft	690.49	-
1.2	Code -104 Item #4	Filling bajri available at site in foundation plinth or under floor, etc. including dressing, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, complete within a lead of one chain (30.5 R.m) and lift of 5 feet (1.52 R.m), etc. complete, including all lifts etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	1490 Cft	100 Cft	261.80	3,901
1.3	Code -117 Item #1	Providing and laying soling stones 6 inches to 9 inches (152 mm to 229 mm) size under floors/foundations & where required etc. including packing with spralls and chips and consolidating etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	310 Cft	100 Cft	3,251.34	10,079
<b>2</b>		<b><u>SUB STRUCTURE</u></b>				
		<b><u>CONCRETE WORKS</u></b>				
2.1	Code -106	Providing and laying in situ <b>1:4:8</b> (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 11	Below plinth beam,situ,walls,tanks, over stone soling or where required <b>(Cylindrical 1000 Psi)</b>	230 Cft	100 Cft	14,411.43	33,146

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
2.2	Code -106	Providing and laying in situ 1:3:6 (1 cement 3 sand and 6 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work, etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 12	For Cast in situ / mass concrete or where required (Cylindrical 1500 Psi)	255 Cft	100 Cft	15,840.97	40,394
2.3	Code -108 Item # 12	Providing a coat of bitumen emulsion at 10 Lbs. per % sft. (0.49 Kg/sm) on walls and floor in ground floor etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	770 Sft	100 Sft	648.08	4,990
Amount Carried to Civil Summary						95,668

**CIVIL WORKS**  
**(STRUCTURE WORKS)**

## BILL OF QUANTITIES

## CIVIL SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
4	MASONRY WORKS	2,044,495
5	THERMAL & MOISTURE PROTECTION	N/A
6	METAL WORKS	724,611
7	WOOD WORKS	62,699
8	FLOOR FINISHES	582,071
9	WALL FINISHES	1,277,738
10	CEILING FINISHES	204,068
11	ROOF FINISHES & WATER PROOFING	179,691
12	EXTERNAL FINISHES (BUILDING)	571,269
13	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	3,632
	<b>Total of Schedule Items</b>	<b>5,650,274</b>
	Add _____% Premium on Civil Works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
4	MASONRY WORKS	N/A
5	THERMAL & MOISTURE PROTECTION	-
6	METAL WORKS	-
7	WOOD WORKS	-
8	FLOOR FINISHES	-
9	WALL FINISHES	N/A
10	CEILING FINISHES	N/A
11	ROOF FINISHES & WATER PROOFING	-
12	EXTERNAL FINISHES (BUILDING)	-
	<b>Total of Non-Schedule Items - B</b>	<b>-</b>
<b>TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B)</b>		<b>-</b>



## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
<b>A-SCHEDULE ITEMS</b>						
<b>4</b>		<b>All items under this head (Architectural work) to be carried out as per relevant Section of PWD &amp; technical specifications (Volume-II), Drawings, BSI/ASTM Standards, complete in all respect and to the entire satisfaction of the Engineer.</b> <b>Due to pitch roof second para of clause No 1.9 of General conditions of PWD schedule of rates-2012 will be applicable for the height of the higher side.</b>  <b>DPC &amp; MASONRY WORKS</b> <b>Damp Proof Course (DPC)</b> Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded <b>crushed boulders (instead of Screened bajri)</b> of 3/4 inch (19 mm) and down gauge mixed with any approved water proofing agent including compacting, curing form work and its removal etc. complete, but excluding the cost of water proofing agent .etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
4.1	Code -108 Item # 3 + Code -109 Item # 123	2" thick DPC	440 Sft	100 Sft	2,812.71	12,375.93
4.2	Code -108 Item # 5	Extra for using water proofing agent pudlo in item Nos. 4.1 (quantity to be used as per manufacturer's specification/2.50Kg per 100Sft).etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	11 Kg	Kg	86.10	947.10
4.3	Code-110 & Code-109	<b>Solid Block Masonry</b> Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block masonry <b>more than 6 inches (152 mm) thick</b> using graded <b>crushed boulders (instead of Screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete in ground floor superstructure etc, complete in all respects as per drawing, standard , specifications and direction of the Engineer.				
	Code-110 Item # 34+92+100 Code-109 Item # 120	Ground Floor	0 Cft	100 Cft	16040.34	-
	Code-110 Item # 34+92+100+70 Code-109 Item # 120	First Floor	0 Cft	100 Cft	16864.11	-
	Code-110 Item # 34+92+100+70 +71 Code-109 Item # 120	Second Floor	0 Cft	100 Cft	17543.59	-
	Code-110 Item # 34+92+100+70 +71x2 Code-109 Item # 120	Second Floor (+31'-0" to Above)	0 Cft	100 Cft	18223.07	-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amout (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
4.4	Code-110 & Code-109	Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block <b>4 to 6 inches</b> (102mm to 152 mm) thick using graded <b>crushed boulders (instead Screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-110 Item # 44+92+100+ Code-109 Item # 120	Ground Floor	2715 Cft	100 Cft	16897.84	458,827.05
	Code-110 Item # 44+70+92 +100 Code-109 Item # 120	First Floor	2715 Cft	100 Cft	17721.61	481,194.88
	Code-110 Item # 44+70+92 +100+71 Code-109 Item # 120	Second Floor	4365 Cft	100 Cft	18401.09	803,152.38
	Code-110 Item # 44+70+92 +100+2x71 Code-109 Item # 120	Second Floor (+31'-0" to Above)	460 Cft	100 Cft	19080.57	87,770.62
4.5	Code-110 Page # 72, 80 & 81	Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block masonry more than 6 inches (152 mm) thick <b>in steps, stairs</b> of approved design using graded <b>crushed boulders (instead of screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:4 including scaffolding, raking out joints and curing etc. complete in ground floor superstructure etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-110 Item #2+68+74+92 code-109 Item# 120	FOR BLOCK MASONRY STEPS	700 Cft	100 Cft	17915.71	125,490.59
4.6	Code-112 Item #144	Providing and laying wall ties of mild steel flats of approved section and design placed at horizontal and vertical spacing in cavity wall of any description in any floor at any height..	411 Kg	Kg	181.84	74,736.24
		<b>Amount Carried to Civil Summary</b>				<b>2,044,495.00</b>
5		<b>THERMAL &amp; MOISTURE PROTECTION</b>				
		<b>Amount Carried to Civil Summary</b>				

Not Applicable

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
6		<b>METAL WORKS</b>				
6.1	Code -119 Item # 43	Providing and fixing M.S. moulded steel door frame of 4" x 2-1/2" (102 mm x 64 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to B.S. 1245 having a single rebate size 1-1/2" x 1/2" (38 mm x 13 mm) with 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 No., 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. etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	636 Rft	Rft	157.12	99,928.32
6.2	Code -119 Item # 44	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	159 Rft	Rft	185.34	29,469.06
6.3	Code -122 Item #159	Painting Iron work with <b>synthetic enamel paint</b> of approved make and shade two coats over and including the cost of one priming coat at any height in any floor etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	630 Sft	100 Sft	2,776.62	17,492.71
6.4	Code -119 Item #102	Providing and fixing fully glazed Bronze anodized or powder coated aluminium Sliding / fixed & openable /Top hung windows & ventilators as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 95mm 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, but excluding the cost of glass pans.	750 Sft	Sft	568.07	426,052.50
6.5	Code -119 Item #121	Providing and fixing Tinted glass panes 5mm thick to M.S. Box pipe / Aluminium doors, windows and ventilators etc including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height. (For Doors, Windows & Fixed Glazing or where instructed)	1410 Sft	Sft	106.11	149,615.10
6.6	Code -119 Item #120	Providing and fixing plain glass panes 5mm thick to M.S. Box pipe / Aluminium doors, windows and ventilators etc. including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height. (For vision panel of door shutters)	23 Sft	Sft	88.91	2,052.90
		<b>Amount Carried to Civil Summary</b>				<b>724,611.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
7		<b>WOOD WORKS</b>				
7.1	Code-120 Item # 02	<b>Door, windows &amp; partitions Frame</b> Providing and fixing best quality deodar frames for doors, windows, ventilators, clerestory windows, shelves, partitions, trellis work, etc., as required . Complete in all respect as per drawings, specification and as directed by the Engineer.	10 Cft	Cft	4,595.14	459.51
7.2	Code-120 Item # 278	<b>Architrave / Beading</b> Providing and fixing best quality deodar wood projected beading upto one Sq. inch (6.45 Sqm.) in sections and required design fixed around the panels of doors, windows etc., of any description , complete in all respect as per drawings, specification and as directed by the Engineer.	1440 Rft	Rft	35.66	51,350.40
7.3	Code-122 Item # 189	Applying French or spirit polishing, two coat of approved make on wood work at any height in any floor.	580 Sft	100 Sft	1,878.96	10,889.51
		<b>Amount Carried to Civil Summary</b>				<b>62,699.00</b>
8		<b>INTERNAL FLOOR FINISHES</b>				
8.1	Code-117	Providing and laying 1:5:10 cement concrete bed under floors using graded stone ballast 3/4 & down <b>instead of 2 inches (51 mm)</b> and down gauge with levelling, ramming, watering and curing etc. complete. <b>(under Mosaic &amp; Porcelain tiles).</b>				
	Code-117 Item # 3	Ground Floor	194 Cft	100 Cft	9,442.42	18,318.29
	Code-117 Item # 3+26	First Floor	175 Cft	100 Cft	9,684.38	16,947.67
	Code-117 Item # 3+26+27	Second Floor	175 Cft	100 Cft	9,879.51	17,289.14
8.2	Code-117	<b>Mosaic Floor</b> Providing and laying terrazzo floor 1-1/2 inches (38 mm) thick consisting of 1/2 inch (13 mm) thicktopping 1:2 (one grey cement 2 approved marble chips No. 0 to 4) in ground floor over a base of 1:2:4 (one cement, two sand and four screened graded bajri) cement concrete 1 inch (25 mm) thick laid in panels or pattern including form work, curing, cutting, rubbing and polishing etc. complete.				
	Code-117 Item # 12+17	Ground Floor	1540 Sft	100 Sft	6,163.94	94,924.68
	Code-117 Item # 12+17+26	First Floor	1295 Sft	100 Sft	6,405.90	82,956.41
	Code-117 Item # 12+17+26+27	Second Floor	1295 Sft	100 Sft	6,601.03	85,483.34
8.3	Code-117	Providing and laying terrazzo floor 1-1/2 inches (38 mm) thick consisting of 1/2 inch (13 mm) thicktopping 1:2 (one grey cement 2 approved marble chips No. 0 to 4) in ground floor over a base of 1:2:4 (one cement, two sand and four screened graded bajri) cement concrete 1 inch (25 mm) thick laid in panels or pattern including form work, curing, cutting, rubbing and polishing etc. complete.				

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
8.4	Code-117 Item # 12	Ground Floor	385 Sft	100 Sft	5,287.04	20,355.10
	Code-117 Item # 12+26	First Floor	325 Sft	100 Sft	5,529.00	17,969.25
	Code-117 Item # 12+26+27	Second Floor	325 Sft	100 Sft	5,724.13	18,603.42
	Code-117 Item # 179	Providing and laying light colour, glazed/non skid vitrified porcelean tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	1170 Sft	100 Sft	17882.39	209,223.96
		<b>Amount Carried to Civil Summary</b>				<b>582,071.00</b>
9		<b>INTERNAL WALL FINISHES</b>				
9.1	Code-122	<b>Internal Wall Plaster</b> 1/2" (13 mm) thick cement plaster 1:6 on wall columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 6	Ground Floor	6890 Sft	100 Sft	1730.74	119,247.99
	Code-122 Item # 6+87	First Floor	6920 Sft	100 Sft	1884.61	130,415.01
	Code-122 Item # 6+87+90	Second Floor	9560 Sft	100 Sft	2015.07	192,640.69
	Code-122 Item # 6+87+2x90	Second Floor (+35'-1" to Above)	480 Sft	100 Sft	2,145.53	10,298.54
9.2	Code-118 Item # 55 + 58	<b>Dado &amp; Skirting</b> Providing and fixing marble mosaic tile 12" X 6" X 3/4" (305 mm X 152 X 19 mm) with chips No. 0 to 4 in <b>dado and skirting</b> of approved design in light shade over 1/2 inch (13 mm) thick base of 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 matching colour curing, grinding, rubbing and polishing etc. complete.				
	Code-118 Item # 54 + 56	Ground Floor	270 Sft	100 Sft	14,274.50	38,541.15
	Code-118 Item # 54 + 56 + 58	First Floor	265 Sft	100 Sft	14,567.19	38,603.05
	Code-118 Item # 54 + 56 + 58 + 59	Second Floor	270 Sft	100 Sft	14,813.05	39,995.24

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
9.3	Code-122 Item # 151	Distemping with vinyl distemper (ICI) Deluxe Paintex of approved make and shade in 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.	23850 Sft	100 Sft	1,053.54	251,269.29
9.4	Code-122	Puddlo Plaster 3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 8	U.G.W.T Plaster		100 Sft	2367.12	-
	Item # 8+88+ 4 x 91	O.H.W.T Plaster	250 Sft	100 Sft	3,268.04	8,170.10
9.5	Code-122	Providing and mixing water proofing agent pudlo in cement mortar of any description in any floor etc., complete in all respects as per specifications/2.50Kg per 100Sft). & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 30	U.G.W.T		Kg	86.15	-
	Item # 30	O.H.W.T	7 Kg	Kg	86.15	603.05
9.6	Code-117 Item # 179	Providing and laying light colour, glazed/non skid vitrified porcelan tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	2505 Sft	100 Sft	17882.39	447,953.87
		<b>Amount Carried to Civil Summary</b>				<b>1,277,738.00</b>
10		<b>INTERNAL CEILING FINISHES</b>				
10.1	Code-122	<b>Internal Ceiling Plaster</b> 1/2" (13 mm) thick cement plaster 1:6 on ceilings cantilever soffits others etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 6	Ground Floor	2125 Sft	100 Sft	1,730.74	36,778.23
	Code-122 Item # 6+87	First Floor	2170 Sft	100 Sft	1,884.61	40,896.04
	Code-122 Item # 6+87+90	Second Floor	2170 Sft	100 Sft	2,015.07	43,727.02
	Code-122 Item # 6+87+2x90	Second Floor (+35'-1" to Above)	455 Sft	100 Sft	2,145.53	9,762.16
10.2	Code-122 Item # 151	Distemping with vinyl distemper (ICI) Deluxe Paintex of approved make and shade in 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.	6920 Sft	100 Sft	1,053.54	72,904.97
		<b>Amount Carried to Civil Summary</b>				<b>204,068.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
11		<b>ROOF FINISHES &amp; WATER PROOFING</b>				
11.1	Code-117	Providing and laying floor of 3 inches (76 mm) thick 1:2:4 reinforced cement concrete using graded crushed boulders <b>instead of screened bajri</b> 3/4" (19 mm) and down gauge in ground floor including form work, consolidation, finishing and curing etc. complete but excluding the cost of reinforcement.				
	Code-117 Item #7+26	Roof Lev (+14'-4" upto +17'-0")	0 Sft	100 Sft	4,531.45	-
	Code-117 Item #7+26+27	Lev (+31'-6" upto +46'-6")	3320 Sft	100 Sft	4,726.58	156,922.46
11.2	Code-108 Item #27	Water proofing of roof slab using Bituflex @ 10 Kg per % sft in three coats, i/c cleaning /scraping the extra mortar etc. from the roof surface, and washing the surface with water and filling the depressions using Bituflex: sand mortar (1.2).Applying one primer coat, over moist surface using a mix of 50 %Bituflex and 50 % water blirded the surface with saul any floor in any light.	3320 Sft	100 Sft	685.80	22,768.56
		<b>Amount Carried to Civil Summary</b>				<b>179,691.00</b>
12		<b>EXTERNAL WALL FINISHES (BUILDING)</b>				
		<b>External Plaster</b>				
12.1	Code-122	3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 8	Ground Floor	4405 Sft	100 Sft	2,367.12	104,271.64
	Code-122 Item # 8+88	First Floor	3005 Sft	100 Sft	2,572.28	77,297.01
	Code-122 Item # 8+88+91	Second Floor	4370 Sft	100 Sft	2,746.22	120,009.81
	Code-122 Item # 8+88+2x91	Second Floor (+31'-6" to Above)	885 Sft	100 Sft	2,920.16	25,843.42
12.2	Code-122 Item # 83	Extra for providing horizontal or vertical joints or grooves 3/8" x 1/4" (9.5 mm x 6.4 mm) size of approved design over Item No. 12.1	12665 Sft	100 Sft	518.48	65,665.49
12.3	Code-122	Painting three coats with <b>weather shield paint deluxe (ICI)</b> 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 etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 172	Ground Floor to Roof	12665 Sft	100 Sft	1,406.88	178,181.35
		<b>Amount Carried to Civil Summary</b>				<b>571,269.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
13		<b>EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)</b>				
13.1	Code-122	3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, <b>grooves</b> as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 8+37	Ground Floor	0 Sft	100 Sft	3,100.23	-
13.2	Code -108 Item # 5	Extra for using water proofing agent pudlo in item No. 13.4 (quantity to be used as per manufacturer's specification/2.50Kg per 100Sft).etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	0 Kg	Kg	86.15	-
13.3	Code -117 Item # 33	Providing and laying floor of 3/4 inch (19 mm) thick white marble tiles upto 36 Sq. inch (232 sq.cm) size fine dressed on the surface without windings in ground floor and laid over 1 inch (25 mm) thick lime mortar 1:2 (one lime, two sand) setting the tiles with grey cement slurry over lime mortar, jointing & washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar.		100 Sft	15,685.68	-
13.4	Code-126 Item # 1	<b>HORTICULTURE WORK</b> Rough dressing of the area for lawn including picking stones, pebbles, stubble, grass roots and other injurious matters and breaking of clods complete including disposal of rubbish within 3 chains (92 m).	60 Sft	100 Sft	103.32	61.99
13.5	Code-126 Item # 6	Supplying and stacking approved garden soil (sweet earth) free from salts, pebbles and grass roots etc. including all leads and lifts.	50 Cft	100 Cft	4,003.42	2,001.71
13.6	Code-126 Item # 7	Spreading approved garden soil (sweet earth) in uniform thickness including mixing and breaking clods and dressing fine for grassing including disposal of rubbish within 3 chains (92 m) complete .	50 Cft	100 Cft	193.38	96.69
13.7	Code-126 Item # 2	Supplying and stacking well decayed cowdung manure from approved source including all leads and lifts.	10 Cft	100 Cft	2,578.40	257.84
13.8	Code-126 Item # 3	Spreading cowdung manure and mixing the same upto any depth in the prepared bed including breaking clods, dressing fine for grassing, including, disposal of rubbish within 3 chains (92 m) complete.	10 Cft	100 Cft	107.74	10.77
13.9	Code-126 Item # 11	Supply live (Dacca) grass in slabs with earth intact including all lead and lifts.	60 Sft	Sft	17.60	1,056.00
13.10	Code-126 Item # 13	Grassing fine by dribbling grass roots 3" apart including watering, weeding till such time the grass is set and becomes green and is fit for mowing	60 Sft	100 Sft	244.19	146.51
13.11	Code-122 Item # 172	Painting three coats with weather shield paint deluxe (ICI) 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 etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	0 Sft	100 Sft	1,406.88	-
		<b>Amount Carried to Civil Summary</b>				<b>3,632.00</b>



## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
<b>B-NON SCHEDULE ITEMS</b>						
4		<b>DPC &amp; MASONRY WORKS</b>				
4.1	N.S.I	<b>40mm thick Master Thermoshield sheet.</b> Providing & laying in position 1-1/2"(40mm) thick Master Thermoshield sheet or approved equivalent having density 35kg/cum, complete in all respect as per drawing, standard, specifications and direction of the Engineer.				
				Sft		-
		<b>Amount Carried to Civil Summary</b>				-
5		<b>THERMAL &amp; MOISTURE PROTECTION</b>				
5.1	N.S.I	Providing and applying three coats of 2 component flexible polymer modified cementitious waterproof coating AQUAFIN-2C /BASF-Master seal-550/ SIKA top seal -107 or approved equivalent over RCC slabs and walls of any wet area e.g. Baths, Kitchens, Balcony's etc, at any height in any floor as per manufacturer's specifications & recommendations complete in all respects as per drawings, relevant specifications and as directed by the Engineer.				
		Ground Floor	380 Sft	Sft		-
		First Floor	380 Sft	Sft		-
		Second Floor	380 Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-
6		<b>METAL WORKS</b>				
6.1	N.S.I	<b><u>M.S Staircase Railing</u></b> Providing, fabricating, welding & fixing in position MS Staircase railing comprising of 50mm dia x 16 Swg MS pipe hand rail, 25mm dia x 16 Swg dia balustrade welded to handrail as shown in the drawing including all required accessories & hardware such as base plate, cap, nuts & bolts etc. fixing arrangement (Drilling & grouting)etc including three coat of approved colour enamel paint over one coat of primer (Paint will be paid in seaprate item, refer BOQ Item) complete in all respects as per drawing, standard, specifications and direction of the Engineer.	20	Rft		-
6.2	N.S.I	<b><u>Aluminium Louvered Window/Shutter</u></b> Providing, fabricating and fixing of approved coloured anodized aluminum louver window/shutter open able casement using premium quality aluminum sections of Pakistan Cable / or equivalent approved with fixed on Rcc & masonry surface, including all required hardware, pivots heavy duty handles, locks, stays etc.Including silicon sealant to all external junction been structure and windows/Shutter to give water / wind proof seal. Complete in all respect as per drawings, specifications and to the entire satisfaction of the Engineer. (Note: minimum wall thickness for all sections shall be 1.6mm or according to the design) <b>The contractor shall submit shop drawings (without any additional cost) for approval prior to start of work.</b>	130Sft	Sft		-

Not Applicable

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
6.3	N.S.I	<b><u>MS Grill Door</u></b> Providing, fabricating, welding & fixing in position MS hollow tube folding grill door comprising of 1-1/2" x 3" x 16 Swg hollow tube & solid bar horizontal & vertical & 12 swg Ms sheet on either side as shown on drawing (EA-01012-GGWT-A6-0030), including hold fast (6 No), hinges, L-drop with lock & MS sheet 12 swg, heavy duty wheel up to 3" dia with cover, MS wheel track with 2" x 2" x 1/4" thick " T " iron including 1:2:4 concrete and all required fixing hardware including two coat of red oxide paint and three coat of epoxy paint of approved color & shades as per manufacturer's specification etc. complete in all respects as per drawing, standard, specifications and direction of the Engineer.	65Sft	Sft		-
6.4	N.S.I	Providing and fixing Tinted glass panes 6mm thick to wooden door, fixed glazing, windows, ventilators or where required etc including the cost of wooden trim, rubber gasket packing and screw etc, in any floor at any height.	0 Sft	Sft		-
6.5	N.S.I	Providing and fixing Anti-Oxidation Aluminum Spacer Bar for Double Glazing Glass up to 10mm wide including silicon sealant bead to door, fixed glazing, windows, ventilators or where required etc. including the cost of rubber gasket packing and screw etc., in any floor at any height.	130 Rft	Rft		-
<b>Amount Carried to Civil Summary</b>						-
7		<b>WOOD WORKS</b>				
7.1	N.S.I	<b><u>DOOR SHUTTERS</u></b> Providing, Making & fixing in position 1-1/2" (38mm) thick solid core approved colour Formica finish flush door shutters with & without vision panel. Comprising of 6mm thick lamination sheet (manufacturer pressed lamination sheet over lasani board) on either side, over all around best quality Partal or approved wood frame 50mm wide horizontal, vertical & cross /diagonal & 150mm wide lock rail in full length, hollow area except framing to be filled with the approved rough wood, 1-1/2" x 1/2" thick Golden teak wood edge lipping all around. The door shutter mechanically pressed by standard manufacturers under power driven hydraulic press as approved by the Engineer, with and without vision glass panel (vision glass panel will be paid seapreatly, in BOQ item # ....) including with and without vision glass panel, nails, glue or any required hardware's and applying solignum for termite treatment, at any height & any floor etc., complete in all respects as per drawing, standard, specifications and direction of the Engineer. <b>(Note: Cost of Ironmongery such as Hinges, Tower bolts, Locks, Handles, kick &amp; push plate etc. paid in Separate item.)</b>	1010Sft	Sft		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
7.2	N.S.I	Providing and fixing in position as per drawings & joinery schedule all of <b>"New ISE" Hong Kong, New Star Japan</b> or approved equivalent make as per relevant drawings, contractor to submit the sample / shop drawings for approval prior to execution etc, complete in all respects as per drawing, standard , specifications and direction of the Engineer.				
		S.S Door hinges 4" long	204.Each	Each		-
		SS Dead Lock complete set	0.Each	Each		-
		SS Handle 36 inch long	0.Each	Each		-
		SS Handle 12 inch long	0.Each	Each		-
		Motorized Door Lock complete set (Lock body, Cylinder	54.Each	Each		-
		SS Tower Bolt 24" long	0.Each	Each		-
		SS Tower Bolt 8" long	54.Each	Each		-
		Stainless Steel Kick plate 3mm thick	0 Sft	Sft		-
		Stainless Steel Kick Door Stopper	54.Each	Each		-
7.5	N.S.I	<b>Wooden Cabinets</b> Providing making and fixing in position <b>floor mounted lower cabinets</b> (Pantry etc.) as per drawing at any height / floor, made of 3/4" thick coloured laminated (both face) Lasani board shutter free from formaldehyde including all around OAK wood lipping kitchen cabinet, 3" x 1-1/2" thick Partal wood frame, complete with all accessories i.e. imported hinges, locks, magnetic catchers, best quality handles etc., including any termite treatment, providing & applying 03 coats of approved colour shade lacquer polish by Jaffar Brothers or similar approved as per manufacturer's instruction & specification including all required hardware's for fixing etc,complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. <b>(Front face will be measured for payments)</b>	156 Sft	Sft		-
7.6	N.S.I	Providing making and fixing in position wall mounted cabinets for (Kitchen/Pantry etc.) as per drawing at any height / floor, made of 3/4" thick colored laminated (both side) Lasani board shutter free from formaldehyde including all around Deodar wood lipping 3/8" thick, 3" x 1-1/2" thick Partal wood frame, 6mm one side laminated Lasani board back complete with all accessories i.e. imported hinges, locks, magnetic catchers, best quality handles etc., including any termite treatment, providing & applying 03 coats of approved colour shade lacquer polish by Jaffar Brothers or similar approved equivalent as per manufacturer's instruction & specification including all required hardware's for fixing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. <b>(Front face will be measured for payments)</b>	100 Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
8		<b>INTERNAL FLOOR FINISHES</b>				
8.1	N.S.I	Providing and laying light colour, glazed/non skid vitrified porcelean tiles 12" x 24" (imported but not made od china/Pak made) on floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer in charge..complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. Base price of tile 1800/Sqm.				
8.2	N.S.I	Providing, laying and fixing Per-Polished (Boticena) Marble Counter Top of approved thickness as per drawing & finishing schedule activities include 40mm thick RCC slab, 1:4 C.S mortar with Dry Bond, fixing in wall, cutting/chiseling in RCC / CC members etc, jointing, grouting, chamfering edging/half D gola around the counter top, finishing, maintaining proper level with curing etc. where required complete in all respects as per specifications and as directed by the Engineer.	160 Sft	Sft		-
8.3	N.S.I	Providing and laying Terrazzo tiles 13" x 12" x 1" thick for Treads with bull nosing & 3nos horizontal V- grooves at any floor including 1:3 screed bedding with mortar including jointing with grouting material of approved quality & grinding, polishing etc (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.	200 Sft	Sft		-
8.4	N.S.I	Providing and laying Terrazzo tiles 12" x 6" x 1/2" thick for Risers at any floor including 1:3 screed bedding with mortar including jointing with grouting material of approved quality & grinding, polishing etc (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.	130 Sft	Sft		-
8.5	N.S.I	Providing & Laying Natural stone 24" x12" & 12" x12", 1" & 1-1/2" thick rough finished approved local stone on entrance steps & floor (straight, curved, arches etc.) with cement sand mortar 1:2 and in any pattern in as per direction of the engineer-in-charge including the cost of curing, making the stone surface rough flat etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	300 Sft	Sft		-
8.6	N.S.I	Providing & Laying Natural stone 24" x 12" & 12" x6" x 1/2" thick rough finished approved local stone on Floor, wall/ Dado/ Skirting /coping with cement sand mortar 1:2 in ground floor setting of stone tiles in slurry of grey cement over mortar base including filling of joints with cement slurry of matching colour curing etc. complete.	100.Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-
9		<b>INTERNAL WALL FINISHES</b>				
9.1	N.S.I	Porcelain Tiles Providing and laying light colour, glazed/non skid vitrified porcelean tiles 12" x 24" (Polished), ( <b>imported but not made od china/Pak made</b> ) on walls, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer in charge..complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. Base price of tile 1800/Sqm.				
				Sft		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
10	N.S.I	<b>CEILING FINISHES</b> Providing, fabricating and fixing Gypsum board (4'-0" x 8'-0" x 1/2" (12mm) thick false ceiling including adjustable metal framing suspension system, MS flashgap and required hard wares jointing tap etc, all cutting for light fixtures & other design feature with providing & applying three coat of matte enamel paint of approved make & color shade over one coat of primer coat, filling putty etc complete in all respects as per drawings, relevant specifications and as directed by the Engineer. (Rates for False Ceiling shall include Bulkheads, Light Pelmet etc.)	0	Sft		-
		<b>Amount Carried to Civil Summary</b>				
11		<b>ROOF FINISHES &amp; WATER PROOFING</b> <b>Providing &amp; laying complete roof treatment at any floor and any height as shown in the drawing, details consisting of following items complete in all respects as per drawing, standards, specifications and direction of the Engineer.</b>				
11.1	N.S.I	Providing and laying 1" thick average levelling CC screed over Rcc slab for achieving leveled surface with (1:4) cement sand mortar, complete in all respect and as per drawing & specification and to the entire satisfaction of the Engineer.		Cft		-
11.2	N.S.I	Providing and laying in position Water proofing membrane Hi Grip Elastomer SUNTAN PP4000 4mm thick from Pak Hy-Oils limited or approved equivalent over above leveled surface including primer coating, overlapping (horizontal & vertical) complete as per manufacturer's specifications, instruction & as shown in the drawing etc, complete in all respects as per drawings, specification and as directed by the Engineer.		Sft.		-
11.3	N.S.I	Providing & laying in position 1-1/2"(40mm) thick Diamond jumbolon-Board from Diamond Foam or approved equivalent having density 35kg/cum, over above Water Proofing membrane with rebated edge as per manufacturer's specifications, instruction & as shown in the drawing etc, complete in all respects as per drawings, specification and as directed by the Engineer.	3320 Sft	Sft.		-
11.4	N.S.I	Providing and laying BRC mesh 4" x 4" x 10 swg from Al - Burhan (Pvt) Ltd or approved equivalent including cutting, binding with steel binding wire etc. complete in all respects as per drawings, specifications and as directed by the Engineer.	3320 Sft	Sft.		-
		<b>Amount Carried to Civil Summary</b>				-
12		<b>EXTERNAL WALL FINISHES (BUILDING)</b>				
12.1	N.S.I	Providing & Laying free from natural stone wall cladding random stone 1" & 1-1/2" thick rough finished approved local stone on wall (straight, curved, arches etc.) with cement sand mortar 1:2 and in any pattern in as per direction of the engineer in-charge including the cost of curing, making the stone surface smooth etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	935 Sft	Sft		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amout (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
12.2	N.S.I	Providing and making screen wall 6" thick (with 2" thick double screen) comprising of 1:2 precast reinforced cement concrete jali 6"x6"x3" (Square shape Jali 3" depth with approved wall thickness, outer size of jali) ingrey colour & required shape/Pattern including 1/4" dia steel reinforcement mesh as per design center to center, formworks and its removal, compacting and curing etc. in any floor & any height, complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer	410 Sft	Sft		-
		Amount Carried to Civil Summary				-

# **ELECTRICAL WORKS**

BILL OF QUANTITIES

GRAND SUMMARY

S.NO:	DESCRIPTION	AMOUNT
1	ELECTRICAL WORKS	-
2	EXTRA LOW VOLTAGE (ELV) WORKS	-
TOTAL AMOUNT (Rs.)		-



## ENGINEER'S ESTIMATE

## ELECTRICAL SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	SINGLE PVC INSULATED WIRE IN EXISTING CONDUIT	15,007
2	3 WIRE IN PVC RECESSED CONDUIT	1,027,545
3	UPVC CONDUIT & DUCT	13,927
4	"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD	79,803
5	BATTEN/ ANGLE HOLDER, CEILING ROSE, BELL/ INDICATORS	7,350
6	FITTING & FIXTURE (PHILIPS/SIGNIFY, OSRAM, GE, THORN)	1,720,960
7	CEILING FANS	280,470
8	PLASTIC BODY EXHAUST FANS	72,360
	<b>Total of Schedule Items</b>	3,217,422
	Add _____% Premium on Electrical Works of PWD-2022	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	CONDUITS & PIPES	-
2	L.V DISTRIBUTION BOARDS	-
3	LOW VOLTAGE CABLES AND WIRES	-
4	WIRING ACCESSORIES	-
5	LIGHTING FIXTURES	-
6	EARTHING SYSTEM	-
	<b>Total of Non-Schedule Items - B</b>	-
	<b>TOTAL AMOUNT OF BUILDING (A+B)</b>	-

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
<b>1</b>	<b>2-26</b>	<b><u>SINGLE PVC INSULATED WIRE IN EXISTING CONDUIT</u></b>				
a)	2-26-05	Supply & drawing of 10 mm <sup>2</sup> , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.	15	P/Meter	457	6,855
b)	2-26-07	Supply & drawing of 25 mm <sup>2</sup> , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.	8	P/Meter	1,019	8,152
		<b>Amount Carried to Electrical Summary</b>				<b>15,007</b>
<b>2</b>	<b>2-34</b>	<b><u>3 WIRE IN PVC RECESSED CONDUIT</u></b>				
a)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to switch board / Light including wiring between switch on the same circuit)	275	P/Meter	510	140,250
b)	2-34-01	Wiring for sub-main with 3x 1.5 mm <sup>2</sup> , 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 as required. (Light point from switch board to point)	1,030	P/Meter	363	373,890
c)	2-34-01	Wiring for sub-main with 3x 1.5 mm <sup>2</sup> , 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 as required. (Light point to point)	185	P/Meter	363	67,155
d)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to 13A Outlet)	180	P/Meter	510	91,800
e)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (13A Outlet to 13A Outlet)	170	P/Meter	510	86,700
f)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to 20A DP Switch for Electric Geyser)	235	P/Meter	510	119,850

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
g)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (20A DP Switch to Flex Outlet for Electric Geyser)	75	P/Meter	510	38,250
h)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to 15A Outlet for Electric Heater)	215	P/Meter	510	109,650
		<b>Amount Carried to Electrical Summary</b>				<b>1,027,545</b>
<b>3</b>	<b>2-61</b>	<b><u>uPVC CONDUIT &amp; DUCT</u></b>				
a)	2-61-03	Supply & fixing 30mm (1-1/4") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	7	P/Meter	241	1,687
b)	2-61-04	Supply & fixing 40mm (1-1/2") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	15	P/Meter	310	4,650
c)	2-61-05	Supply & fixing 50mm (2") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	10	P/Meter	759	7,590
		<b>Amount Carried to Electrical Summary</b>				<b>13,927</b>
<b>4</b>	<b>2-66</b>	<b><u>"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD</u></b>				
a)	2-66-01	Providing & fixing 10 Amps Polycarbonate flame retardant S.P switch with fancy required gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Schneider / Philips)	36	Each.	471	16,956
b)	2-66-02	Providing & fixing 10 Amps Polycarbonate flame retardant Two way switch with fancy gang plate fixed on die fabricated, powder coated, metal board recessed in wall or column including connection as required. (Schneider / Philips)	7	Each.	531	3,717
c)	2-66-06	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)	18	Each.	1,290	23,220
d)	2-66-11	Providing & fixing Polycarbonate flame retardant, fan dimmer with plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (Schneider / Philips)	30	Each.	1,197	35,910
		<b>Amount Carried to Electrical Summary</b>				<b>79,803</b>
<b>5</b>	<b>2-67</b>	<b><u>BATTEN/ ANGLE HOLDER, CEILING ROSE, BELL/ INDICATORS</u></b>				

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
a)	2-67-02	Providing & fixing 6 Amps Plastic ceiling rose on PVC Round block/Round Cover fitted on surface including connection as required.	30	Each.	245	7,350
		<b>Amount Carried to Electrical Summary</b>				<b>7,350</b>
<b>6</b>	<b>2-77</b>	<b><u>FITTING &amp; FIXTURE</u></b> <b><u>(PHILIPS/SIGNIFY, OSRAM, GE, THORN)</u></b>				
a)	2-77-02	Providing, Installation, Testing & Commissioning of recessed / surface mounted project / professional series ceiling lights / downlights including driver having warm / neutral white / cool white colour, 100-110 lm/watts efficiency, 0.9 or above power factor, 40000-50000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge.				
i	e	16-18 Watts	18	Each.	14,650	263,700
ii	f	19-21 Watts	98	Each.	14,870	1,457,260
		<b>Amount Carried to Electrical Summary</b>				<b>1,720,960</b>
<b>7</b>	<b>2-80</b>	<b><u>CEILING FANS</u></b>				
a)	2-80-03	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.	30	Each.	9,349	280,470
		<b>Amount Carried to Electrical Summary</b>				<b>280,470</b>
<b>8</b>	<b>2-84</b>	<b><u>PLASTIC BODY EXHAUST FANS</u></b>				
a)	2-84-01	Providing & installing 20 Cm (8") sweep, Plastic body Exhaust fan complete with blades, motor, etc fixed in existing hole including connection with 14/0.0076" flexible wire complete as required. Pak, Royal, GFC, Younas, Millat.	24	Each.	3,015	72,360
		<b>Amount Carried to Electrical Summary</b>				<b>72,360</b>
<b>NON-SCHEDULE ITEMS</b>						
1		<b><u>CONDUITS &amp; PIPES</u></b>				

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
a)		Supply and installation of following size internal diameter PVC / uPVC Class-D pipe / Flexible PVC Conduit as race ways with all accessories, recessed / surface on wall / column / under floor, as per drawings and specifications, complete in all respect.				
i		50 mm dia PVC Conduit	5	Rm.		-
b)		Supply and installation of following size uPVC Pipe Class-D for Power cables, buried in ground / under floor as per specification, including excavation for laying of pipe, bricks and backfilling with new and fresh sand (6" under and 6" above pipe) etc., (wherever required), as shown on the specifications and drawings, complete in all respect.				
i		50mm dia uPVC Pipe (Class-D)	5	Rm.		-
c)		Supply and installation of Pull Boxes (Floor / Wall) with all installation accessories, as per drawings, specifications and approved brands, complete in all respect.	1	No.		-
d)		Providing and Construction of Handhole Size 2'-0" x 2'-0" x 2'-0" deep, 6" thick, concrete 1:2:4 ratio with 2" round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For Electrical cables)	1	No.		-
		<b>Amount Carried to Electrical Summary</b>				-
<b>2</b>		<b><u>L.V. DISTRIBUTION BOARDS</u></b>				
a)		Supply, installation, testing and commissioning of following wall mounting / floor standing surface type Main Distribution Board (MDB), Sub Main Distribution Boards (SMDB's) and Distribution Board (DB's) made with 16 SWG sheet metal, dust protected, vermin proof housing coated with approved color having all the necessary switching, energy analyzer etc., protections, as per drawing and specification, complete in all respect.				
i		SMDB-FL	1	No.		-
ii		DB-GF	1	No.		-
iii		DB-1F	1	No.		-
iv		DB-2F	1	No.		-
		<b>Amount Carried to Electrical Summary</b>				-
<b>3</b>		<b><u>LOW VOLTAGE CABLES AND WIRES</u></b>				

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
3.1		Supply, laying, termination, tagging, testing and commissioning of following size copper conductor multi core / single core, Cu/PVC, Cu/PVC/PVC, unarmoured, 0.6 kV/1 kV, 450/750V or 300/500V voltage grade copper cable in already laid PVC conduit / cable tray / trench including all accessories lugs, cable gland etc. as per drawings and specification, complete in all respect.				
a)		<b>4 Core, Cu./PVC/PVC Cable (600/1000V)</b>				
i		4C, 10 Sqmm Cu/PVC/PVC	15	Rm.		-
		<b>Amount Carried to Electrical Summary</b>				-
<b>4</b>		<b><u>WIRING ACCESSORIES</u></b>				
a)		Supply, installation, testing and commissioning of following 10/13/15/20A, One/Two/Three/Four gang type switches, Dimmer Switches, Sockets including 16 SWG Sheet Steel powder coated back boxes with earth terminal, recessed in wall, with all accessories as per drawings and specification, complete in all respects.				
i		Two Gang Switch 10A	15	No.		-
ii		Three Gang Switch 10A	18	No.		-
iii		Four Gang Switch 10A (Weatherproof type)	2	No.		-
iv		13A, International Switch Socket Outlet	60	No.		-
v		20A, Double Pole Switch with neon indicator	18	No.		-
vi		20A, Flex Outlet	18	No.		-
		<b>Amount Carried to Electrical Summary</b>				-
<b>5</b>		<b><u>LIGHTING FIXTURES</u></b>				
a)		Supply, installation, testing and commissioning of following Light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per drawings and specifications, complete in all respects. Lighting fixtures sample must be submitted to consultant for approval. Note: Refer light fixtures drawings for complete light fixtures details.				
i		Wall / Surface mounted LED Bi-Directional Light Fixture (IP-54) with 2x12W LED lamp	16	No.		-
ii		Suspended mounted LED Chandelier Light Fixture with 50W LED lamp	6	No.		-
iii		Wall / Surface mounted LED Wall Light Fixture (IP-20) with 1x20W LED lamp	36	No.		-
b)		Supply, installation, testing and commissioning of following items including all connecting accessories as per drawings, specifications, complete in all respects.				
i		Fan Hook M.S.Box with colour coated	30	No.		-
		<b>Amount Carried to Electrical Summary</b>				-

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
6		<b><u>EARTHING SYSTEM</u></b> Supply, installation, testing and commissioning of following items for complete earthing system including all connecting accessories as per drawings, specifications and as mentioned in General Notes, complete in all respects.				
a)		Supply, installation, testing and commissioning of following items for complete Power Earthing system, including Bentonite chemical, other all required materials and connecting accessories, boring, labor, tools, transportation etc., as per drawings and specifications, complete in all respects with detailed test reports.				
i		Earth pit with Rod type earth electrode, 3/4" dia and 9 Ft. long copper bonded rod.	1	No.		-
		<b>Amount Carried to Electrical Summary</b>				-

# **ELV WORKS**



## BILL OF QUANTITIES

## ELV SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	uPVC CONDUIT & DUCT	15,180
2	"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD	13,632
	<b>Total of Schedule Items</b>	28,812
	Add _____% Premium on ELV Works of PWD-2022	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	CONDUITS & PIPES	-
2	VOICE COMMUNICATION SYSTEM (Passive Equipment Only)	-
3	CABLE TELEVISION SYSTEM (CATV)	-
4	SELF CONTAINED EMERGENCY LIGHTS	-
	<b>Total of Non-Schedule Items - B</b>	-
	<b>TOTAL AMOUNT OF BUILDING (A+B)</b>	-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
1 a)	2-61 2-61-05	<b>uPVC CONDUIT &amp; DUCT</b> Supply & fixing 50mm (2") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	20	P/Meter	759	15,180
		<b>Amount Carried to ELV Summary</b>				<b>15,180</b>
2 a)	2-66 2-66-12	<b>"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD</b> Providing & fixing Polycarbonate flame retardant T.V Socket with plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (Schneider / Philips)	12	Each.	1,136	13,632
		<b>Amount Carried to ELV Summary</b>				<b>13,632</b>
<b>NON-SCHEDULE ITEMS</b>						
1 a)		<b>CONDUITS &amp; PIPES</b> Supply and installation of following size internal diameter PVC / uPVC Class-D pipe / Flexible PVC Conduit as race ways with all accessories, recessed / surface on wall / column / under floor, as per drawings and specifications, complete in all respect.				
i		25 mm dia PVC Conduit	320	Rm.		-
ii		50 mm dia PVC Conduit	5	Rm.		-
iii		25 mm dia Flexible PVC Conduit	5	Rm.		-
b)		Supply and installation of following size uPVC Pipe Class-D for Telecommunication Cable (copper / optic fiber). Buried in ground / under floor as per specification, including excavation for laying of pipe, bricks and backfilling with new and fresh sand (6" under and 6" above pipe) etc., (wherever required), as shown on the specifications and drawings, complete in all respect.				
i		50mm dia uPVC Conduit (Class-D)	5	Rm.		-
c)		Supply and installation of Pull Boxes (Floor / Wall) with all installation accessories, as per drawings, specifications and approved brands, complete in all respect.	1	No.		-
d)		Providing and Construction of Handhole Size 2'-0" x 2'-0" x 2'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For ELV cables)	1	No.		-
		<b>Amount Carried to ELV Summary</b>				-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>2</b>		<b><u>VOICE COMMUNICATION SYSTEM (Passive Equipment Only)</u></b>				
a)		Supply, installation, testing and commissioning of Single RJ-45, Cat-6 outlet for Voice with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.	18	No.		-
b)		Supply, laying, termination, testing and commissioning of CAT 6 - 4 pair cable for Single RJ-45 outlet (for Voice) in already laid 25mm dia PVC conduit concealed / surface from each outlet to TJB, including tagging and piping with all necessary accessories, complete in all respect.	250	Rm.		-
c)		Supply, laying, termination, testing and commissioning of Cat-5e, 10 pair cable from MTJB / TJB to TJB in already laid conduit / cable tray including with all the necessary accessories as per drawing and specifications, complete in all respect.	10	Rm.		-
d)		Supply, installation, testing and commissioning of CAT-6 UTP (RJ-45 to RJ-45) for the above Patch Panels including with all necessary accessories, as per drawing and specification, complete in all respect.				
i		CAT-6 (2m) Long Patch Cord	18	No.		-
e)		Supply, installing, testing and commissioning of following 19" Tag blocks in Data racks, as per drawing and specification, complete in all respect.				
i		MTJB with 2x10 Pair IDC Block 19" type	1	No.		-
ii		TJB with 1x10 Pair IDC Block 19" type	2	No.		-
f)		Installation, testing and commissioning by Manufacturer Authorized Agent / Dealer and handing over complete Voice & Data System to Owner with Providing Training voice data fuke & OTDR Testing, as build drawing, Rack layouts and certification's Principal, complete equipment's Manual and Warranty Documents to Owners representative.	1	Job.		-
		<b>Amount Carried to ELV Summary</b>				-
<b>3</b>		<b><u>CABLE TELEVISION SYSTEM (CATV)</u></b>				
a)		Supply and installation of MTVJB Splitter Box with 1x6 Way Splitter, complete in all respects.	1	No.		-
b)		Supply and installation of TVJB Splitter Box with 1x6 Way Splitter, complete in all respects.	2	No.		-
c)		Supply and installation of CATV RG-06 Co-axial 75 ohms shielded cable in already laid 25mm dia PVC conduit from box to TV outlet, complete in all respects.	185	Rm.		-
		<b>Amount Carried to ELV Summary</b>				-
<b>4</b>		<b><u>SELF CONTAINED EMERGENCY LIGHTS</u></b>				

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
a)		Supply, installation, testing and commissioning of following items for self contained emergency lights with all fixing accessories, as per drawing and specification, complete in all respect. 3W, Emergency light with self contained Battery, Ceiling / Wall mounted IP-20 rated, UL 924 Listed, as per specification and drawing, complete in all respect. (non-maintained)	5	No.		-
b)		3W, Emergency light with self contained Battery, Ceiling / Wall mounted IP-65 rated, UL 924 Listed, as per specification and drawing, complete in all respect. (non-maintained)	1	No.		-
c)		3W, Exit light with self contained Battery, 24m viewing, Directional Pendent, IP-65 rated, UL 924 Listed, as per specification and drawing, complete in all respect. (non-maintained)  Note: Selection of Exit Light is as per Architect's approval.	3	No.		-
		<b>Amount Carried to ELV Summary</b>				-

# **PLUMBING WORKS**

## BILL OF QUANTITIES

## PLUMBING SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	MAN HOLES	155,259
2	U.P.V.C PIPE (EXTERNAL) "D" CLASS	178,178
	<b>Total of Schedule Items</b>	333,437
	Add _____% Premium on Plumbing Works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	PLUMBING FIXTURES	-
2	WATER SUPPLY WORKS	-
3	DRAINAGE WORKS	-
4	FIRE FIGHTING WORKS	-
	<b>Total of Non-Schedule Items - B</b>	-
<b>TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B)</b>		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
1	315 -15 / Pg:82	<b><u>MAN HOLES:</u></b>  Providing manhole type 'B' size 3 feet x 2-1/2 feet (914 mm x 762 mm) (inside dimensions) 4 feet (1219 m) 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 (1.22m to 2.66 m) depth with 18 inches (457 mm) dia. (inside) cast iron cover and frame (weight=1 cwt. 3 Qrs.) (88.90 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.	8	Nos	19,407.41	155,259
	313 -5 / Pg:73	Excavation in all kinds of soil, murum, hard, average or soft including lift up to 5 feet (1.52m) and lead upto one chain (30.48m)	504	CFT	599.70	3,022
	315 -26 / Pg:84	providing & fixing C.I. Cover & Frame 18" dia (460mm) weight 1 cwt. 3 Qtr (88.90 Kg.)	8	Nos	8,769.90	70,159
2		<b><u>u.P.V.C PIPE (EXTERNAL) "D" CLASS:</u></b>  Providing and fixing un plasticized polyvinyl chloride pipe (P.V.C) "D" class and specials etc. including cutting and fitting complete with and including the cost of cutting trench up to 1-1/2 feet deep refilling, watering, ramming, and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 km.) (working pressure 12 kg/cm2 ) 1-1/4 inches (32 mm) dia.				
	306 - 21 / Pg: 57					
	306 - 27 / Pg: 57	6" inches (150 mm) dia pipe	350	Rft	509.08	178,178

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Amount Carried to Plumbing Summary				406,619



## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>NON-SCHEDULE ITEMS</b>						
		<b><u>PLUMBING FIXTURES:</u></b>				
1		Providing and fixing European type water closet with (one piece) dual flush Tank with 6.0 liters main flush tank and 3 liters secondary flush tank, build in S/P-Trap , Stop cock with flexible pipe as specified by architect in Fixture schedule, per drawings, specifications and Engineers Approval.	6	Nos		-
2		Providing and fixing Eastern water closet with 6 liters main flush tank, build in S-Trap, Stop cock with Drain pipe till flush tank as per drawings, specifications and Engineers Approval.	12	Nos		-
3		Providing and fixing wash basin with mixer having flow of 6.0 lpm or less with two (2) nos. Stop cocks, Flexible Connection , flexible drain pipe to floor drain as specified by architect in Fixture schedule, per drawings, specifications and Engineers Approval.	16	Nos		-
4		Providing and fixing of kitchen/Pantry Sink with mixer, waste trap, Stop cocks with flexible pipes, Flexible drain pipe as per drawings , specifications and engineers approval.	6	Nos		-
5		Providing and fixing of Shower head with shower mixer having maximum flow of 9.5 lpm, as specified by architect in Fixture schedule, per drawings, specifications and Engineers Approval.	12	Nos		-
6		Providing and fixing bath toilet accessories as under:				-
a		Toilet Paper Holder	12	Nos		-
b		Hand Spray / Muslim shower	12	Nos		-
c		Liquid Soap Dispenser/ Soap dish	12	Nos		-
d		WC Cleaning Brush	12	Nos		-
e		Robe Hooks	12	Nos		-
f		Towel Railing	12	Nos		-
		<b>Sub Total of Plumbing Fixtures</b>				-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1		<b><u>WATER SUPPLY:</u></b> <b><u>COLD &amp; HOT WATER PIPING:</u></b> Supply, installation, testing and Commissioning of PPR PN - 20 Cold/Hot water pipes as per DIN 8077-8078 with molded fittings PN - 25 as per DIN 16962, including pipe supports, cutting, filling, testing/commissioning and all accessories as indicated on the drawing, as per specifications and Engineers approval.				
i		3/4" dia	900	Rft		-
ii		1" dia	160	Rft		-
iii		1 1/4" dia	180	Rft		-
iv		1 1/2" dia	200	Rft		-
v		2" dia	140	Rft		-
2		<b><u>ISOLATION VALVES:</u></b> Providing and fixing of PPR Coated PN-20 Gate valves of bronze material for diameter 2" and smaller and Cast Iron material for Diameter greater than 2" as per specifications and Engineers approval.				
i		3/4" dia	2	Nos		-
ii		1" dia	6	Nos		-
iii		1 1/4" dia	2	Nos		-
iv		1 1/2" dia	8	Nos		-
v		2" dia	2	Nos		-
3		<b><u>PLUMBING SPECIALITIES:</u></b> Supply and installation of the following including all fittings, fixings, accessories, etc., as indicated on the drawing, as per Specifications and Engineers approval.				
i		1/2" dia. Bib Tap	4	Nos.		-
ii		1" Air Relief Valve	-	Nos.		-
4		<b><u>COLD &amp; HOT WATER PIPE INSULATION:</u></b> Supply, installation, testing and Commissioning of 20mm thick closed cell rubber foam inculation (NBR) for cold & hot water piping, as per specifications and Engineers approval.				
i		3/4" dia	900	Rft		-
ii		1" dia	160	Rft		-
iii		1 1/4" dia	180	Rft		-
iv		1 1/2" dia	200	Rft		-
v		2" dia	140	Rft		-
		Continued..				

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
5		<b><u>WATER COOLER:</u></b> Supply and installation of Stainless Steel Electric water cooler of below mentioned capacity with two taps, R-22 Refrigeration system, S.Steel Tank safety tested at 10kg/cm2 (142 p.s.i.) with recommended maximum working pressure of 3kg/cm2 (42 p.s.i.) including all accessories like Valves, interconnecting piping, Drain tray and drain connection s as indicated in the drawings, as per specifications and engineers approval. WC - 01 to 06 ( Capacity 32 GPH )	-	Nos		-
6		<b><u>3 STAGE WATER FILTER:</u></b> Supply and installation of 3 stage filter having 5 Microns Pre Filter, Active Carbon Filter and UV Water filter having minimum flow rate of 200 Gallons per Day to be installed with Water cooler , including valves, piping, accessories, etc., as per specifications and Engineers approval.	-	Nos		-
7		<b><u>CEILING HUNG ELECTRIC HEATER:</u></b> Providing and fixing of ceiling hung Electric Hot water heater with all accessories like Clamps, isolation valves, Air relief valves as indicated in the drawings, as per specifications and engineers approval.				
i		EWB - ( Capacity 50 litre)	12	Nos		-
ii		EWB - ( Capacity 80 litre)	-	Nos		-
iii		EWB - ( Capacity 100 litre)	-	Nos		-
		<b>Continued..</b>				

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
8		<b><u>WATER TANK CONNECTION:</u></b> Connection for water tank including with valves, supports, excavation and Backfill, complete all in accordance with the drawing and specifications.				
i		Connection to RCC water tanks	-	Nos		-
ii		Connection to overhead water tanks using Float valve	1	Nos		-
iii		Cast Iron Medium Duty Cover For RCC water tanks	1	Nos		-

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Sub Total of Water Supply Works				-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1		<b><u>DRAINAGE WORKS:</u></b> <b><u>SOIL, WASTE &amp; VENT PIPING:</u></b> Providing and fixing, uPVC pipes and fittings as per BS EN 1329 for above ground installations for Soil, Waste, Vent pipes with Kite mark on pipes and fittings including cleanout plug, clamps, hanger collars, supports, specials (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval.				
i		2" dia	180	Rft		-
ii		3" dia	380	Rft		-
iii		4" dia	180	Rft		-
2		<b><u>DRAINAGE SPECIALITIES:</u></b> Providing and fixing of Multi floor trap with multiple dia inlet and Single outlet and cleanout plug of the approved self cleaning design with S.Steel grating as specified by the architect, as indicated on the drawing, as per specifications, architectural finishing schedule and Engineers approval. Providing and fixing UPVC cowl for vent pipe of the following dia including all accessories complete in all respects.	48	Nos		-
i		2" dia	-	Nos		-
ii		3" dia	6	Nos		-
iii		4" dia	6	Nos		-

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Continued..				

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
3		<p><b><u>GULLY TRAPS:</u></b></p> <p>Construction of 12" x 12" gully trap with 8" P- trap and 12" x 12" cover (min Weight =45 kg) as specified and shown on the drawing, as per specifications and Engineers approval.</p>	6	Nos		-



BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Sub Total of Drainage Works				-

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1		<p><b><u>FIRE FIGHTING WORKS:</u></b></p> <p><b><u>FIRE EXTINGUISHERS:</u></b></p> <p>Supply and installation of below mentioned Portable Fire extinguishers with Wall mount brackets as indicated on the drawings, as per specifications and Engineers Recommendation</p>				
i		5 Kg CO2 wall mounted fire extinguisher	6	Nos		-
ii		6 Kg Dry powder wall mounted fire extinguisher	6	Nos		-

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Sub Total of Fire Fighting Works				-

# **FLATS FOR ADMIN & SUPPORT STAFF**

BILL OF QUANTITIES

GRAND SUMMARY

S.NO:		Amount
1	Structure	
2	Architecture	
3	Electrical Works	
4	ELV Works	
5	Plumbing Works	
TOTAL CARRIED TO MASTER SUMMARY		

**CIVIL WORKS**  
**(STRUCTURE WORKS)**

## BILL OF QUANTITIES

## Civil SUMMARY

S.NO:	Description	Amount
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	EARTH WORKS	135,719
2	SUB STRUCTURE	2,800,785
3	SUPER STRUCTURE	5,277,677
4	EXTERNAL WORKS (STRUCTURE) OTHER THAN BUILDING (NON COVERED AREA)	115,662
	<b>Total of Schedule Items</b>	<b>8,329,843</b>
	Add _____ % Premium on Civil Works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	EARTH WORKS	-
2	SUB STRUCTURE	-
3	SUPER STRUCTURE	-
4	EXTERNAL WORKS (STRUCTURE) OTHER THAN BUILDING (NON COVERED AREA)	-
	<b>Total of Non-Schedule Items - B</b>	<b>-</b>
<b>TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B)</b>		<b>-</b>

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7 = 4 x 6
<b>BUILDING</b>		<b>A-SCHEDULE ITEMS</b>				
<b>1</b>		All items under this head (Structure work) to be carried out as per relevant Section of PWD & technical specifications (Volume-II), Drawings, BSI/ASTM Standards, complete in all respect and to the entire satisfaction of the Engineer. Due to pitch roof second para of clause No 1.9 of General conditions of PWD schedule of rates-2022 will be applicable for the height of the higher side.				
1.1	Code -103,	<b>EARTH WORKS</b> Excavation for foundation trenches and drains in <b>gravelly soil</b> and back filling the excavated material in foundation trenches, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) 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).				
	Item # 2	From ± 0'-0" to -5' - 0"	11500 Cft	100 Cft	613.14	70,511
	Item # 2+28	From -5' - 0" to -8' - 0"	2900 Cft	100 Cft	690.49	20,024
1.2	Code -104 Item #4	Filling bajri available at site in foundation plinth or under floor, etc. including dressing, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, complete within a lead of one chain (30.5 R.m) and lift of 5 feet (1.52 R.m), etc. complete, including all lifts etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	6330 Cft	100 Cft	261.80	16,572
1.3	Code -117 Item #1	Providing and laying soling stones 6 inches to 9 inches (152 mm to 229 mm) size under floors/foundations & where required etc. including packing with sprawls and chips and consolidating etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	880 Cft	100 Cft	3,251.34	28,612
Amount Carried to Civil Summary						135,719



S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
<b>2</b>		<b>SUB STRUCTURE</b>				
		<b>CONCRETE WORKS</b>				
2.1	Code -106	Providing and laying in situ <b>1:4:8</b> (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 11	Below plinth beam,situ,walls,tanks, over stone soling or where required <b>(Cylindrical 1000 Psi)</b>	1600 Cft	100 Cft	14,411.43	230,583
2.2	Code -106	Providing and laying in situ <b>1:3:6</b> (1 cement 3 sand and 6 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work, etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 12	For Cast in situ / mass concrete or where required <b>(Cylindrical 1500 Psi)</b>	660 Cft	100 Cft	15,840.97	104,550
2.3	Code -114	<b>REINFORCED CONCRETE WORKS</b> Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in columns footing of required shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 1+134+137	Foundation for any type <b>(Cylindrical Strength 3000 Psi)</b>	2840 Cft	100 Cft	21,685.85	615,878
2.4	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth, etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 4+135+138	Columns upto plinth <b>(Cylindrical Strength 3750 Psi)</b>	560 Cft	100 Cft	26,704.50	149,545
2.5	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in straight walls more than 6 inches (152 mm) thick including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 9+135+138	Rcc Wall <b>(Cylindrical Strength 3750 Psi)</b>	0 Cft	100 Cft	27,958.39	-
2.6	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in plinth beams of required shape and design including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 8+134+137	Plinth Beams i/c nibs / projections <b>(Cylindrical Strength 3000 Psi)</b>	800 Cft	100 Cft	22,344.09	178,753

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
2.7	Code -114 Item # 166	Providing and laying hard grade ribbed deformed <b>(minimum yield point 60,000 psi or 414 Mpa)</b> reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>	12000 Kg	Kg	123.02	1,476,240
2.8	Code -108 Item # 12	Providing a coat of <b>bitumen emulsion at 10 Lbs. per % sft. (0.49 Kg/sm)</b> on walls and floor in ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	6980 Sft	100 Sft	648.08	45,236
Amount Carried to Civil Summary						<b>2,800,785</b>
<b>B-NON-SCHEDULE ITEMS</b>						
2.9	Code -124 Item # 199	<b>SUB STRUCTURE</b> <b>TERMITE PROOFING</b> Providing and Carrying out termite proofing in foundation, 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 Engineer incharge.etc., complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Note: Plinth Area will be measured one time for payment where is the number of applications will be three times on all horizontal &amp; vertical surfaces of the excavation for termite proofing)</b>	2,230	Sft		-
Amount Carried to Civil Summary						-
<b>3</b>		<b>SUPER STRUCTURE</b>				
3.1	Code -114	<b>REINFORCED CONCRETE WORKS</b> Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in the ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.  <b>Columns (Cylindrical Strength 3750 Psi)</b>				
	Item # 24+135+138	Ground Floor	520 Cft	100 Cft	30,389.36	158,025
	Item # 24+135+138+92	First Floor	455 Cft	100 Cft	31,338.56	142,590
	Item # 24+135+138+92+ 93	Second Floor	715 Cft	100 Cft	32,090.01	229,444
3.2	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in straight walls, vertical fins etc. more than 6 inches (152 mm) thick including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.  <b>Rcc Wall (Cylindrical Strength 3750 Psi)</b>				
	Item # 30+135+138	Ground Floor	15 Cft	100 Cft	28,692.59	4,304

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
3.3	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in straight beams lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in basement and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
		Beams and projections <b>(Cylindrical Strength 3000 Psi)</b>				
	Item # 38+134+137	Ground Floor	690 Cft	100 Cft	24,839.57	171,393
	Item # 38+134+137+92	First Floor	620 Cft	100 Cft	25,788.77	159,890
	Item # 38+134+137+92 +93	Second Floor	750 Cft	100 Cft	26,540.22	199,052
3.4	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3000 lbs. per sq. inch (20.68 N /mm 2 at 28 days)</b> with a mix not leaner than 1:2:4 in straight beams lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in basement and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
		Bracing beams / lintels / nibs / sills / bands /around opening <b>(Cylindrical Strength 2500 Psi)</b>				
	Item # 38+136	<b>Ground Floor</b>	110 Cft	100 Cft	20,668.60	22,735
	Item # 38+136+92	<b>First Floor</b>	110 Cft	100 Cft	21,617.80	23,780
	Item # 38+136+92+93x2	<b>Second Floor</b>	110 Cft	100 Cft	22,369.25	24,606
3.5	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in ordinary slab 5 inches (127 mm) to 6 inches (152mm) thick including form work and its removal compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
		Slab i/c projections (straight & sloping ) <b>(Cylindrical Strength 3000 Psi)</b>				
	Item # 56+134+137	Ground Floor	605 Cft	100 Cft	24,314.96	147,106
	Item # 56+134+137+92	First Floor	664 Cft	100 Cft	25,264.16	167,754
	Item # 56+134+137+92 +93	Second Floor	1155 Cft	100 Cft	26,015.61	300,480
3.6	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in ordinary slab more than 6 inches (152 mm) thick including form work and its removal compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
		Slab i/c projections (straight & sloping ) <b>(Cylindrical Strength 3000 Psi)</b>				
	Item # 57+134+137	Ground Floor	0 Cft	100 Cft	23,691.64	-
	Item # 57+134+137+92	First Floor	0 Cft	100 Cft	24,640.84	-
	Item # 57+134+137+92 +93	Second Floor	0 Cft	100 Cft	25,392.29	-

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
3.7	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm<sup>2</sup> at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in straight stairs and landing of required section including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 50+134+137	Stair Case / steps /seats (Steps, Landing & Waist slab) <b>(Cylindrical Strength 3000 Psi)</b> Ground Floor	80 Cft	100 Cft	30,160.60	24,128
	Item # 50+134+137+92	First Floor	80 Cft	100 Cft	31,109.80	24,888
	Item # 50+134+137+92 +93	Second Floor	80 Cft	100 Cft	31,861.25	25,489
3.8	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm<sup>2</sup> at 28 days)</b> with a mix not leaner than 1:1:2 in a square of rectangular bottom slab of over head water tank up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement .etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 114+135+138+127 x 2	OH Water Tank Bottom Slab <b>(Cylindrical Strength 3750 Psi)</b>	60 Cft	100 Cft	34,550.73	20,730
3.9	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm<sup>2</sup> at 28 days)</b> with a mix not leaner than 1:1:2 in straight walls in over head water tank bins, bunkers, intze tanks and silo up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 112+135+138+127 x 2	OH Water Tank Walls <b>(Cylindrical Strength 3750 Psi)</b>	130 Cft	100 Cft	35,126.50	45,664
3.10	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm<sup>2</sup> at 28 days)</b> with a mix not leaner than 1:1:2 in roof slab of over head water tank up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	118+135+138+127 x 2	OH Water Tank Top Slab <b>(Cylindrical Strength 3750 Psi)</b>	50 Cft	100 Cft	32,154.29	16,077
3.11	Code -114	Providing and laying hard grade ribbed deformed <b>(minimum yield point 60,000 psi or 414 Mpa)</b> reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>				
	Item # 166	Ground Floor	8020 Kg	Kg	123.02	986,620
	Item # 166+174	First Floor	7460 Kg	Kg	124.47	928,546
	Item # 166+174+175	Second Floor	11550 Kg	Kg	125.92	1,454,376
Amount Carried to Civil Summary						5,277,677

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
<b>EXTERNAL</b>		<b>A-SCHEDULE ITEMS</b>				
<b>1</b>		<b><u>EARTH WORKS</u></b>				
1.1	Code -103,	Excavation for foundation trenches and drains in <b>gravelly soil</b> and back filling the excavated material in foundation trenches, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) 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).				
	Item # 2	From ± 0'-0" to -5' - 0"	715 Cft	100 Cft	613.14	4,384
	Item # 2+28	From -5' - 0" to -8' - 0"		100 Cft	690.49	-
1.2	Code -104 Item # 4	Filling bajri available at site in foundation plinth or under floor, etc. including dressing, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, complete within a lead of one chain (30.5 R.m) and lift of 5 feet (1.52 R.m), etc. complete, including all lifts etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	2075 Cft	100 Cft	261.80	5,432
1.3	Code -117 Item # 1	Providing and laying soling stones 6 inches to 9 inches (152 mm to 229 mm) size under floors/foundations & where required etc. including packing with sprawls and chips and consolidating etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	345 Cft	100 Cft	3,251.34	11,217
<b>2</b>		<b><u>SUB STRUCTURE</u></b>				
		<b><u>CONCRETE WORKS</u></b>				
2.1	Code -106	Providing and laying in situ <b>1:4:8</b> (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 11	Below plinth beam, situ, walls, tanks, over stone soling or where required <b>(Cylindrical 1000 Psi)</b>	280 Cft	100 Cft	14,411.43	40,352
2.2	Code -106	Providing and laying in situ <b>1:3:6</b> (1 cement 3 sand and 6 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work, etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 12	For Cast in situ / mass concrete or where required <b>(Cylindrical 1500 Psi)</b>	305 Cft	100 Cft	15,840.97	48,315
2.3	Code -108 Item # 12	Providing a coat of <b>bitumen emulsion at 10 Lbs. per % sft. (0.49 Kg/sm)</b> on walls and floor in ground floor etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	920 Sft	100 Sft	648.08	5,962
<b>Amount Carried to Civil Summary</b>						<b>115,662</b>

**CIVIL WORKS**  
**(STRUCTURE WORKS)**

## BILL OF QUANTITIES

## CIVIL SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
4	MASONRY WORKS	1,120,916
5	THERMAL & MOISTURE PROTECTION	-
6	METAL WORKS	735,818
7	WOOD WORKS	37,158
8	FLOOR FINISHES	426,345
9	WALL FINISHES	1,020,406
10	CEILING FINISHES	156,608
11	ROOF FINISHES & WATER PROOFING	113,138
12	EXTERNAL FINISHES (BUILDING)	342,342
13	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	44,615
	<b>Total of Schedule Items</b>	3,997,346
	Add _____% Suitable Premium on Civil Works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
4	MASONRY WORKS	-
5	THERMAL & MOISTURE PROTECTION	-
6	METAL WORKS	-
7	WOOD WORKS	-
8	FLOOR FINISHES	-
9	WALL FINISHES	-
10	CEILING FINISHES	-
11	ROOF FINISHES & WATER PROOFING	-
12	EXTERNAL FINISHES (BUILDING)	-
	<b>Total of Non-Schedule Items - B</b>	-
<b>TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B)</b>		<b>-</b>





## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
4.4	Code-110 & Code-109	Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block 4 to 6 inches (102mm to 152 mm) thick using graded <b>crushed boulders (instead Screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-110 Item # 44+92+100+ Code-109 Item # 120	Ground Floor	1681 Cft	100 Cft	16897.84	284,052.69
	Code-110 Item # 44+70+92 +100 Code-109 Item # 120	First Floor	1558 Cft	100 Cft	17721.61	276,102.68
	Code-110 Item # 44+70+92 +100+71 Code-109 Item # 120	Second Floor	1668 Cft	100 Cft	18401.09	306,930.18
	Code-110 Item # 44+70+92 +100+2x71 Code-109 Item # 120	Second Floor (+31'-0" to Above)	591 Cft	100 Cft	19080.57	112,766.17
4.5	Code-110	Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block masonry more than 6 inches (152 mm) thick <b>in steps, stairs</b> of approved design using graded <b>curshed boulders (instead of screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:4 including scaffolding, raking out joints and curing etc. complete in ground floor superstructure etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-110 Item #2+68+74+92 code-109 Item# 120	FOR BLOCK MASONRY STEPS	498 Cft	100 Cft	17915.71	89,220.24
4.6	Code-112 Item #144	Providing and laying wall ties of mild steel flats of approved section and design placed at horizontal and vertical spacing in cavity wall of any description in any floor at any height..	220 Kg	Kg	181.84	40,004.80
		<b>Amount Carried to Civil Summary</b>				<b>1,120,916.00</b>
5		<b>THERMAL &amp; MOISTURE PROTECTION</b>				
		<b>Amount Carried to Civil Summary</b>				

Not Applicable

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
6		<b>METAL WORKS</b>				
6.1	Code -119 Item # 43	Providing and fixing M.S. moulded steel door frame of 4" x 2-1/2" (102 mm x 64 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to BSS. 1245 having a single rebate size 1-1/2" x 1/2" (38 mm x 13 mm) with 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 No., 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. etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	111 Rft	Rft	157.12	17,440.32
6.2	Code -119 Item # 44	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	528 Rft	Rft	185.34	97,859.52
6.3	Code -122 Item #159	Painting Iron work with <b>synthetic enamel paint</b> of approved make and shade two coats over and including the cost of one priming coat at any height in any floor etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	453 Sft	100 Sft	2,776.62	12,578.09
6.4	Code -119 Item #102	Providing and fixing fully glazed Bronze anodized or powder coated aluminium Sliding / fixed & openable /Top hung windows & ventilators as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 95mm 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, but excluding the cost of glass pans.	790 Sft	Sft	568.07	448,775.30
6.5	Code -119 Item #121	Providing and fixing Tinted glass panes 5mm thick to M.S. Box pipe / Aluminium doors, windows and ventilators etc including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height. (For Doors, Windows & Fixed Glazing or where instructed)	1500 Sft	Sft	106.11	159,165.00
6.6	Code -119 Item #120	Providing and fixing plain glass panes 5mm thick to M.S. Box pipe / Aluminium doors, windows and ventilators etc. including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height. (For vision panel of door shutters)	0 Sft	Sft	88.91	-
		<b>Amount Carried to Civil Summary</b>				<b>735,818.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
7		<b>WOOD WORKS</b>				
7.1	Code-120 Item # 02	<b>Door, windows &amp; partitions Frame</b> Providing and fixing best quality deodar frames for doors, windows, ventilators, clerestory windows, shelves, partitions, trellis work, etc., as required . Complete in all respect as per drawings, specification and as directed by the Engineer.	0 Cft	Cft	4,595.14	-
7.2	Code-120 Item # 278	<b>Architrave / Beading</b> Providing and fixing best quality deodar wood projected beading upto one Sq. inch (6.45 Sqm.) in sections and required design fixed around the panels of doors, windows etc., of any description , complete in all respect as per drawings, specification and as directed by the Engineer.	1042 Rft	Rft	35.66	37,157.72
7.3	Code-122 Item # 189	Applying French or spirit polishing, two coat of approved make on wood work at any height in any floor.	0 Sft	100 Sft	1,878.96	-
		<b>Amount Carried to Civil Summary</b>				<b>37,158.00</b>
8		<b>INTERNAL FLOOR FINISHES</b>				
8.1	Code-117	Providing and laying 1:5:10 cement concrete bed under floors using graded stone ballast 3/4 & down <b>instead of 2 inches (51 mm)</b> and down gauge with levelling, ramming, watering and curing etc. complete. <b>(under Mosaic &amp; Porcelain tiles).</b>				
	Code-117 Item # 3	Ground Floor	139 Cft	100 Cft	9,442.42	13,124.96
	Code-117 Item # 3+26	First Floor	119 Cft	100 Cft	9,684.38	11,524.41
	Code-117 Item # 3+26+27	Second Floor	141 Cft	100 Cft	9,879.51	13,930.11
8.2	Code-117	<b>Mosaic Floor</b> Providing and laying terrazzo floor 1-1/2 inches (38 mm) thick consisting of 1/2 inch (13 mm) thicktopping 1:2 (one grey cement 2 approved marble chips No. 0 to 4) in ground floor over a base of 1:2:4 (one cement, two sand and four screened graded bajri) cement concrete 1 inch (25 mm) thick laid in panels or pattern including form work, curing, cutting, rubbing and polishing etc. complete.				
	Code-117 Item # 12+17	Ground Floor	1022 Sft	100 Sft	6,163.94	62,995.47
	Code-117 Item # 12+17+26	First Floor	824 Sft	100 Sft	6,405.90	52,784.62
	Code-117 Item # 12+17+26+27	Second Floor	1082 Sft	100 Sft	6,601.03	71,423.14
8.3	Code-117	Providing and laying terrazzo floor 1-1/2 inches (38 mm) thick consisting of 1/2 inch (13 mm) thicktopping 1:2 (one grey cement 2 approved marble chips No. 0 to 4) in ground floor over a base of 1:2:4 (one cement, two sand and four screened graded bajri) cement concrete 1 inch (25 mm) thick laid in panels or pattern including form work, curing, cutting, rubbing and polishing etc. complete.				
	Code-117 Item # 12	Ground Floor	320 Sft	100 Sft	5,287.04	16,918.53

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
8.4	Code-117 Item # 12+26	First Floor	206 Sft	100 Sft	5,529.00	11,389.74
	Code-117 Item # 12+26+27	Second Floor	207 Sft	100 Sft	5,724.13	11,848.95
	Code-117 Item # 179	Providing and laying light colour, glazed/non skid vitrified porcelan tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	897 Sft	100 Sft	17882.39	160,405.04
		<b>Amount Carried to Civil Summary</b>				<b>426,345.00</b>
9		<b>INTERNAL WALL FINISHES</b>				
9.1	Code-122	<b>Internal Wall Plaster</b> 1/2" (13 mm) thick cement plaster 1:6 on wall columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 6	Ground Floor	5109 Sft	100 Sft	1730.74	88,423.51
	Code-122 Item # 6+87	First Floor	1187 Sft	100 Sft	1884.61	22,370.32
	Code-122 Item # 6+87+90	Second Floor	6714 Sft	100 Sft	2015.07	135,291.80
	Code-122 Item # 6+87+2x90	Second Floor (+35'-1" to Above)	718 Sft	100 Sft	2,145.53	15,404.91
9.2	Code-118	Dado & Skirting Providing and fixing marble mosaic tile 12" X 6" X 3/4" (305 mm X 152 X 19 mm) with chips No. 0 to 4 in <b>dado and skirting</b> of approved design in light shade over 1/2 inch (13 mm) thick base of 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 matching colour curing, grinding, rubbing and polishing etc. complete.				-
	Code-118 Item # 54 + 56	Ground Floor	161 Sft	100 Sft	14,274.50	22,981.95
	Code-118 Item # 54 + 56 + 58	First Floor	128 Sft	100 Sft	14,567.19	18,646.00
	Code-118 Item # 54 + 56 + 58 + 59	Second Floor	128 Sft	100 Sft	14,813.05	18,960.70
9.3	Code-122 Item # 151	Distemping with vinyl distemper (ICI) Deluxe Paintex of approved make and shade in 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.	13728 Sft	100 Sft	1,053.54	144,629.97
		Puddlo Plaster				-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
9.4	Code-122 Page # 320	3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 8	U.G.W.T Plaster		100 Sft	2367.12	-
	Item # 8+88+ 4 x 91	O.H.W.T Plaster	416 Sft	100 Sft	3,268.04	13,595.05
9.5	Code-122	Providing and mixing water proofing agent pudlo in cement mortar of any description in any floor etc., complete in all respects as per specifications/2.50Kg per 100Sft). & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 30	U.G.W.T		Kg	86.15	-
	Item # 30	O.H.W.T	11 Kg	Kg	86.15	947.65
9.6	Code-117 Item # 179	Providing and laying light colour, glazed/non skid vitrified porcelan tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	3015 Sft	100 Sft	17882.39	539,154.06
		<b>Amount Carried to Civil Summary</b>				<b>1,020,406.00</b>
10		<b>INTERNAL CEILING FINISHES</b>				
10.1	Code-122	<b>Internal Ceiling Plaster</b> 1/2" (13 mm) thick cement plaster 1:6 on ceilings cantilever soffits others etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 6	Ground Floor	1542 Sft	100 Sft	1,730.74	26,688.01
	Code-122 Item # 6+87	First Floor	1542 Sft	100 Sft	1,884.61	29,060.69
	Code-122 Item # 6+87+90	Second Floor	1542 Sft	100 Sft	2,015.07	31,072.38
	Code-122 Item # 6+87+2x90	Second Floor (+35'-1" to Above)	658 Sft	100 Sft	2,145.53	14,117.59
10.2	Code-122 Item # 151	Distempering with vinyl distemper (ICI) Deluxe Paintex of approved make and shade in 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.	5284 Sft	100 Sft	1,053.54	55,669.05
		<b>Amount Carried to Civil Summary</b>				<b>156,608.00</b>
11		<b>ROOF FINISHES &amp; WATER PROOFING</b>				

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
11.1	Code-117 Item #7+25+26 Page# 190 &192	Providing and laying floor of 3 inches (76 mm) thick 1:2:4 reinforced cement concrete using graded crushed bolders <b>instead of screened bajri</b> 3/4" (19 mm) and down gauge in ground floor including form work, consolidation, finishing and curing etc. complete but excluding the cost of reinforcement.				
	Code-117 Item #7+26	Roof Lev (+32'-6" )	1599 Sft	100 Sft	4,531.45	72,457.89
	Code-117 Item #7+26+27	Lev (+42'-6" )	549 Sft	100 Sft	4,726.58	25,948.92
11.2	Code-108 Item #27	Water proofing of roof slab using Bituflex @ 10 Kg per % sft in three coats, i/c cleaning /scraping the extra mortar etc. from the roof surface, and washing the surface with water and filling the depressions using Bituflex: sand mortar (1.2).Applying one primer coat, over moist surface using a mix of 50 %Bituflex and 50 % water blirded the surface with saul any floor in any light.	2148 Sft	100 Sft	685.80	14,730.98
		<b>Amount Carried to Civil Summary</b>				<b>113,138.00</b>
12		<b>EXTERNAL WALL FINISHES (BUILDING)</b>				
12.1	Code-122	<b>External Plaster</b> 3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 8	Ground Floor	2556 Sft	100 Sft	2,367.12	60,503.59
	Code-122 Item # 8+88	First Floor	1965 Sft	100 Sft	2,572.28	50,545.30
	Code-122 Item # 8+88+91	Second Floor	2147 Sft	100 Sft	2,746.22	58,961.34
	Code-122 Item # 8+88+2x91	Second Floor (+31'-6" to Above)	907 Sft	100 Sft	2,920.16	26,485.85
12.2	Code-122 Item # 83	Extra for providing horizontal or vertical joints or grooves 3/8" x 1/4" (9.5 mm x 6.4 mm) size of approved design over item No. 12.1	7575 Sft	100 Sft	518.48	39,274.86
12.3	Code-122	Painting three coats with <b>weather shield paint deluxe (ICI)</b> 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 etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 172	Ground Floor to Roof	7575 Sft	100 Sft	1,406.88	106,571.16
		<b>Amount Carried to Civil Summary</b>				<b>342,342.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
13		<b>EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)</b>				
13.1	Code-122	3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, <b>grooves</b> as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 8+37	Ground Floor	1100 Sft	100 Sft	3,100.23	34,102.53
13.2	Code -108 Item # 5	Extra for using water proofing agent pudlo in item No. 13.4 (quantity to be used as per manufacturer's specification/2.50Kg per 100Sft).etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	28 Kg	Kg	86.15	2,412.20
13.3	Code -117 Item # 33	Providing and laying floor of 3/4 inch (19 mm) thick white marble tiles upto 36 Sq. inch (232 sq.cm) size fine dressed on the surface without windings in ground floor and laid over 1 inch (25 mm) thick lime mortar 1:2 (one lime, two sand) setting the tiles with grey cement slurry over lime mortar, jointing & washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar.		100 Sft	15,685.68	-
13.4	Code-126 Item # 1	<b>HORTICULTURE WORK</b> Rough dressing of the area for lawn including picking stones, pebbles, stubble, grass roots and other injurious matters and breaking of clods complete including disposal of rubbish within 3 chains (92 m).	134 Sft	100 Sft	103.32	138.45
13.5	Code-126 Item # 6	Supplying and stacking approved garden soil (sweet earth) free from salts, pebbles and grass roots etc. including all leads and lifts.	111 Cft	100 Cft	4,003.42	4,443.80
13.6	Code-126 Item # 7	Spreading approved garden soil (sweet earth) in uniform thickness including mixing and breaking clods and dressing fine for grassing including disposal of rubbish within 3 chains (92 m) complete .	111 Cft	100 Cft	193.38	214.65
13.7	Code-126 Item # 2	Supplying and stacking well decayed cowdung manure from approved source including all leads and lifts.	23 Cft	100 Cft	2,578.40	593.03
13.8	Code-126 Item # 3	Spreading cowdung manure and mixing the same upto any depth in the prepared bed including breaking clods, dressing fine for grassing, including, disposal of rubbish within 3 chains (92 m) complete.	23 Cft	100 Cft	107.74	24.78
13.9	Code-126 Item # 11	Supply live (Dacca) grass in slabs with earth intact including all lead and lifts.	134 Sft	Sft	17.60	2,358.40
13.10	Code-126 Item # 13	Grassing fine by dribbling grass roots 3" apart including watering, weeding till such time the grass is set and becomes green and is fit for mowing	134 Sft	100 Sft	244.19	327.21
13.11	Code-122 Item # 172	Painting three coats with weather shield paint deluxe (ICI) 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 etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.		100 Sft	1,406.88	-
		<b>Amount Carried to Civil Summary</b>				<b>44,615.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
<b>B-NON SCHEDULE ITEMS</b>						
4		<b>DPC &amp; MASONRY WORKS</b>				
4.1	N.S.I	<b>40mm thick Master Thermoshield sheet.</b> Providing & laying in position 1-1/2"(40mm) thick Master Thermoshield sheet or approved equivalent having density 35kg/cum, complete in all respect as per drawing, standard, specifications and direction of the Engineer.				
				Sft		-
		<b>Amount Carried to Civil Summary</b>				-
5		<b>THERMAL &amp; MOISTURE PROTECTION</b>				
5.1	N.S.I	Providing and applying three coats of 2 component flexible polymer modified cementitious waterproof coating AQUAFIN-2C /BASF-Master seal-550/ SIKA top seal -107 or approved equivalent over RCC slabs and walls of any wet area e.g. Baths, Kitchens, Balcony's etc, at any height in any floor as per manufacturer's specifications & recommendations complete in all respects as per drawings, relevant specifications and as directed by the Engineer.				
		First Floor	299 Sft	Sft		-
		Second Floor	299 Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-
6		<b>METAL WORKS</b>				
6.1	N.S.I	<b>MS Screen</b> Providing, fabricating, welding & fixing in position decorative MS screen comprising of MS tube 75mm x 50mm x 2.5mm main outer frame fixed with 50mm x 50mm x 6mm thick MS angle, design pattern with MS tube 100mm x 50mm x 2.5mm as shown on drawing including all required hard ware & arrangement for fixing, providing & applying epoxy paint not less than 300 micron of approved colour & shades as per manufacturer's specification etc, complete in all respect as per drawing, standard, specifications and direction of the Engineer. <b>NOTE: The contractor shall submit shop drawings (without any additional cost) for approval prior to start of work.</b>				
				Each		-
6.2	N.S.I	<b>M.S Staircase Railing</b> Providing, fabricating, welding & fixing in position MS Staircase railing comprising of 50mm dia x 16 Swg MS pipe hand rail, 25mm dia x 16 Swg dia balustrade welded to handrail as shown in the drawing including all required accessories & hardware such as base plate, cap, nuts & bolts etc. fixing arrangement (Drilling & grouting)etc including three coat of approved colour enamel paint over one coat of primer (Paint will be paid in seaprate item, refer BOQ Item) complete in all respects as per drawing, standard, specifications and direction of the Engineer.				
			102	Rft		-
6.3	N.S.I	<b>Aluminium Louvered Window/Shutter</b> Providing, fabricating and fixing of approved coloured anodized aluminum louver window/shutter open able casement using premium quality aluminum sections of Pakistan Cable / or equivalent approved with fixed on Rcc & masonry surface, including all required hardware, pivots heavy duty handles, locks, stays etc.Including silicon sealant to all external junction between structure and windows/Shutter to give water / wind proof seal. Complete in all respect as per drawings, specifications and to the entire satisfaction of the Engineer. (Note: minimum wall thickness for all sections shall be 1.6mm or according to the design) <b>The contractor shall submit shop drawings (without any additional cost) for approval prior to start of work.</b>				
			131Sft	Sft		-



## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
6.4	N.S.I	<b>MS Grill Door</b> Providing, fabricating, welding & fixing in position MS hollow tube folding grill door comprising of 1-1/2" x 3" x 16 Swg hollow tube & solid bar horizontal & vertical & 12 swg Ms sheet on either side as shown on drawing (EA-01012-GGWT-A6-0030), including hold fast (6 No), hinges, L-drop with lock & MS sheet 12 swg, heavy duty wheel up to 3" dia with cover, MS wheel track with 2" x 2" x 1/4" thick " T " iron including 1:2:4 concrete and all required fixing hardware including two coat of red oxide paint and three coat of epoxy paint of approved color & shades as per manufacturer's specification etc. complete in all respects as per drawing, standard, specifications and direction of the Engineer.	0Sft	Sft		-
6.5	N.S.I	<b>Monkey Ladder</b> Providing, fabricating, welding, bolting & fixing in position MS Access / Monkey ladder comprising MS Flat steel 2" x 3/8" thick ( Vertical member) weld with 8" x 8" x 3/8" thick steel plate bolt to Rcc slab, 8" x 3" x 3/8" thick steel plate weld to vertical flat and bolted to wall, 3/4" dia solid steel bar welded to flat @ 12" C/C, as shown on drawing, three coat of approved colour enamel paint over one coat of primer (Paint will be paid in seaprate schedule item, refer BOQ Item # ..... ) etc, including required hard ware complete in all respect as per drawing, standard, specifications and direction of the Engineer. <b>The contractor shall submit shop drawings (without any additional cost) for approval prior to start of work.</b>	40 Kg	Kg		-
6.6	N.S.I	Providing and fixing Tinted glass panes 6mm thick to wooden door, fixed glazing, windows, ventilators or where required etc including the cost of wooden trim, rubber gasket packing and screw etc, in any floor at any height.	0 Sft	Sft		-
6.7	N.S.I	Providing and fixing Anti-Oxidation Aluminum Spacer Bar for Double Glazing Glass up to 10mm wide including silicon sealant bead to door, fixed glazing, windows, ventilators or where required etc. including the cost of rubber gasket packing and screw etc., in any floor at any height.	863 Rft	Rft		-
		<b>Amount Carried to Civil Summary</b>				-
7		<b>WOOD WORKS</b>				
7.1	N.S.I	<b>DOOR SHUTTERS</b> Providing, Making & fixing in position 1-1/2" (38mm) thick solid core approved colour Formica finish flush door shutters with & without vision panel. Comprising of 6mm thick lamination sheet (manufacturer pressed lamination sheet over lasani board) on either side, over all around best quality Partal or approved wood frame 50mm wide horizontal, vertical & cross /diagonal & 150mm wide lock rail in full length, hollow area except framing to be filled with the approved rough wood, 1-1/2" x 1/2" thick Golden teak wood edge lipping all around. The door shutter mechanically pressed by standard manufacturers under power driven hydraulic press as approved by the Engineer, with and without vision glass panel (vision glass panel will be paid seapreatly, in BOQ item # ....) including with and without vision glass panel, nails, glue or any required hardware's and applying solignum for termite treatment, at any height & any floor etc., complete in all respects as per drawing, standard, specifications and direction of the Engineer. <b>(Note: Cost of Ironmongery such as Hinges, Tower bolts, Locks, Handles, kick &amp; push plate etc. paid in Separate item.)</b>	662Sft	Sft		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
7.2	N.S.I	Providing, Making & fixing in position Solid Phenolic Core frame less door shutter of approved colour & thickness, equivalent approved manufacturer, including door hardware's such as corner fasteners, Auto return Hinges, Latch, indicator door Locks, Stay, Handle, etc., in any floor & any height as shown in drawings, complete in all respect as per drawing, specifications and entire satisfaction of the Engineer	<b>Not Applicable</b>			
7.3	N.S.I	Providing, fabricating and fixing Aluminum frame door comprising of 17mm thick water proof laminated board (lamination should be on both side of board) , premium quality aluminum sections Frame of Pakistan Cable/ Krudson or equivalent approved manufacturers fixed on Rcc & masonry surface , fitted in Neoprene Gaskets including all required Hardware (all hardware should be in stainless steel ) hinges, handles, latch,locks, stays etc. Including silicon sealant to all external junction between structure and door to give water/wind proof seal . complete in all respect as per drawing, standard specifications and direction of the Engineer.(Contractor to submit the shop drawing for approval before start of work)	0 Sft	Sft		-
7.4	N.S.I	Providing and fixing in position as per drawings & joinery schedule all of <b>"New ISE" Hong Kong, New Star Japan</b> or approved equivalent make as per relevant drawings, contractor to submit the sample / shop drawings for approval prior to execution etc, complete in all respects as per drawing, standard , specifications and direction of the Engineer.				
		S.S Door hinges 4" long	120	Each		-
		SS Dead Lock complete set	0.Each	Each		-
		SS Handle 36 inch long	0.Each	Each		-
		SS Handle 12 inch long	0.Each	Each		-
		Motorized Door Lock complete set (Lock body, Cylinder	30.Each	Each		-
		SS Tower Bolt 24" long	0.Each	Each		-
		SS Tower Bolt 8" long	30.Each	Each		-
		Stainless Steel Kick plate 3mm thick	0 Sft	Sft		-
		Stainless Steel Kick Door Stopper	30.Each	Each		-
7.5	N.S.I	<b>Wooden Cabinets</b> Providing making and fixing in position <b>floor mounted lower cabinets</b> (Pantry etc.) as per drawing at any height / floor, made of 3/4" thick coloured laminated (both face) Lasani board shutter free from formaldehyde including all around OAK wood lipping kitchen cabinet, 3" x 1-1/2" thick Partal wood frame, complete with all accessories i.e. imported hinges, locks, magnetic catchers, best quality handles etc., including any termite treatment, providing & applying 03 coats of approved colour shade lacquer polish by Jaffar Brothers or similar approved as per manufacturer's instruction & specification including all required hardware's for fixing etc,complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. <b>(Front face will be measured for payments)</b>	227 Sft	Sft		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
7.6	N.S.I	Providing making and fixing in position wall mounted cabinets for (Kitchen/Pantry etc.) as per drawing at any height / floor, made of 3/4" thick colored laminated (both side) Lasani board shutter free from formaldehyde including all around Deodar wood lipping 3/8" thick, 3" x 1-1/2" thick Partal wood frame, 6mm one side laminated Lasani board back complete with all accessories i.e. imported hinges, locks, magnetic catchers, best quality handles etc., including any termite treatment, providing & applying 03 coats of approved colour shade lacquer polish by Jaffar Brothers or similar approved equivalent as per manufacturer's instruction & specification including all required hardware's for fixing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. <b>(Front face will be measured for payments)</b>	189 Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-
8		<b>INTERNAL FLOOR FINISHES</b>				
		<b>Porcelain Tiles</b>				
8.1	N.S.I	Providing and laying light colour, glazed/non skid vitrified porcelean tiles 12" x 24" (imported but not made od china/Pak made) on floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer in charge..complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. Base price of tile 1800/Sqm.		Sft	-	-
8.2	N.S.I	Providing, laying and fixing Per-Polished (Boticena) Marble Counter Top of approved thickness as per drawing & finishing schedule activities include 40mm thick RCC slab, 1:4 C.S mortar with Dry Bond, fixing in wall, cutting/chiseling in RCC / CC members etc, jointing, grouting, chamfering edging/half D gola around the counter top, finishing, maintaining proper level with curing etc. where required complete in all respects as per specifications and as directed by the Engineer.	198 Sft	Sft		-
8.3	N.S.I	Providing and laying Terrazzo tiles 13" x 12" x 1" thick for Treads with bull nosing & 3nos horizontal V- grooves at any floor including 1:3 screed bedding with mortar including jointing with grouting material of approved quality & grinding, polishing etc (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.	227 Sft	Sft		-
8.4	N.S.I	Providing and laying Terrazzo tiles 12" x 6" x 1/2" thick for Risers at any floor including 1:3 screed bedding with mortar including jointing with grouting material of approved quality & grinding, polishing etc (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.	93 Sft	Sft		-
8.5	N.S.I	Providing and laying C.C tiles 13" x 12" x 1" thick for Treads with bull nosing & 3nos horizontal V- grooves at any floor including 1:3 screed bedding with mortar including jointing with grouting material of approved quality & grinding, polishing etc (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.		Sft		-

Not Applicable

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
8.6	N.S.I	Providing and laying C.C tiles 12" x 6" x 1/2" thick for Risers at any floor including 1:3 screed bedding with mortar including jointing with grouting material of approved quality & grinding, polishing etc (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.		Sft		-
8.7	N.S.I	Providing & Laying Natural stone 24" x12" & 12" x12", 1" & 1-1/2" thick rough finished approved local stone on entrance steps & floor (straight, curved, arches etc.) with cement sand mortar 1:2 and in any pattern in as per direction of the engineer-in-charge including the cost of curing, making the stone surface rough flat etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	290 Sft	Sft		-
8.8	N.S.I	Providing & Laying Natural stone 24" x 12" & 12" x6" x 1/2" thick rough finished approved local stone on Floor, wall/ Dado/ Skirting /coping with cement sand mortar 1:2 in ground floor setting of stone tiles in slurry of grey cement over mortar base including filling of joints with cement slurry of matching colour curing etc. complete.	305 Sft	Sft		-
		<b>Amount Carried to Civil Summary</b>				-
9		<b>INTERNAL WALL FINISHES</b>				
9.1	N.S.I	Porcelain Tiles Providing and laying light colour, glazed/non skid vitrified porcelan tiles 12" x 24" (Polished), <b>(imported but not made od china/Pak made)</b> on walls, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer in charge..complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. Base price of tile 1800/Sqm.		Sft	-	-
		<b>Amount Carried to Civil Summary</b>				-
10	N.S.I	<b>CEILING FINISHES</b> Providing, fabricating and fixing Gypsum board (4'-0" x 8'-0" x 1/2" (12mm) thick false ceiling including adjustable metal framing suspension system, MS flashgap and required hard wares jointing tap etc, all cutting for light fixtures & other design feature with providing & applying three coat of matte enamel paint of approved make & color shade over one coat of primer coat, filling putty etc complete in all respects as per drawings, relevant specifications and as directed by the Engineer. (Rates for False Ceiling shall include Bulkheads, Light Pelmets etc.)	0	Sft		-
		<b>Amount Carried to Civil Summary</b>				-
11		<b>ROOF FINISHES &amp; WATER PROOFING</b> <b>Providing &amp; laying complete roof treatment at any floor and any height as shown in the drawing, details consisting of following items complete in all respects as per drawing, standards, specifications and direction of the Engineer.</b>				
11.1	N.S.I	Providing and laying 1" thick average levelling CC screed over Rcc slab for achieving leveled surface with (1:4) cement sand mortar, complete in all respect and as per drawing & specification and to the entire satisfaction of the Engineer.		Cft		-

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
11.2	N.S.I	Providing and laying in position Water proofing membrane Hi Grip Elastomer SUNTAN PP4000 4mm thick from Pak Hy-Oils limited or approved equivalent over above leveled surface including primer coating, overlapping (horizontal & vertical) complete as per manufacturer's specifications, instruction & as shown in the drawing etc, complete in all respects as per drawings, specification and as directed by the Engineer.		Sft.	-	-
11.3	N.S.I	Providing & laying in position 1-1/2"(40mm) thick Diamond jumbolon-Board from Diamond Foam or approved equivalent having density 35kg/cum, over above Water Proofing membrane with rebated edge as per manufacturer's specifications, instruction & as shown in the drawing etc, complete in all respects as per drawings, specification and as directed by the Engineer.	2148 Sft	Sft.		-
11.4	N.S.I	Providing and laying BRC mesh 4" x 4" x 10 swg from Al - Burhan (Pvt) Ltd or approved equivalent including cutting, binding with steel binding wire etc. complete in all respects as per drawings, specifications and as directed by the Engineer.	2148 Sft	Sft.		-
		<b>Amount Carried to Civil Summary</b>				-
12		<b>EXTERNAL WALL FINISHES (BUILDING)</b>				
12.1	N.S.I	Providing & Laying free form natural stone wall cladding random stone 1" & 1-1/2" thick rough finished approved local stone on wall (straight, curved, arches etc.) with cement sand mortar 1:2 and in any pattern in as per direction of the engineer-in-charge including the cost of curing, making the stone surface smooth etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	856 Sft	Sft		-
12.2	N.S.I	Providing and making screen wall 6" thick (with 2" thick double screen) comprising of 1:2 precast reinforced cement concrete jali 6"x6"x3" (Square shape Jali 3" depth with approved wall thickness, outer size of jali) ingrey colour & required shape/Pattern including 1/4" dia steel reinforcement mesh as per design center to center, formworks and its removal, compacting and curing etc. in any floor & any height, complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	250 Sft	Sft		-
12.3	N.S.I	<b>Fair Faced Plaster</b> Providing and applying Ressi Plastorend-110 (6mm thick) with sealer Silblock of approved grey & beige colour over rough cast cement sand plaster on external walls, columns or where required including chamfered edges, round off corner, scaffolding, curing etc at any height & any floor etc, complete in all respects as per drawing, specifications and or as directed by the consultant / Engineer. (excluding cost of rough cast plaster)		Sft		-
		i) Grey colour		Sft		-
		ii) Beige colour		Sft		-
12.3	N.S.I	<b>LOGO</b> Providing, making, finishing and fixing in position of university LOGO, IMAGE & LETTERING. 10'-0" dia LOGO made of 12 swg MS Sheet with the university symbolic image & letter "UNIVERSITY OF BALTISTAN SKARDU" (In English & Urdu), fixed to walls 3" projected with 1" dia & 6" long steel hilti/rawal bolts including three coats of approved colour enamel paint over a one coat of red oxide primer paint etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.		Each		-
		<b>Amount Carried to Civil Summary</b>				-

# **ELECTRICAL WORKS**

BILL OF QUANTITIES

GRAND SUMMARY

S.NO:	DESCRIPTION	AMOUNT
1	ELECTRICAL WORKS	-
2	EXTRA LOW VOLTAGE (ELV) WORKS	-
TOTAL AMOUNT (Rs.)		-

## ENGINEER'S ESTIMATE

## ELECTRICAL SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	SINGLE PVC INSULATED WIRE IN EXISTING CONDUIT	15,007
2	3 WIRE IN PVC RECESSED CONDUIT	741,705
3	UPVC CONDUIT & DUCT	13,927
4	"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD	57,492
5	BATTEN/ ANGLE HOLDER, CEILING ROSE, BELL/ INDICATORS	4,410
6	FITTING & FIXTURE (PHILIPS/SIGNIFY, OSRAM, GE, THORN)	993,650
7	CEILING FANS	168,282
8	PLASTIC BODY EXHAUST FANS	54,270
	<b>Total of Schedule Items</b>	2,048,743
	Add _____% Premium on Electrical Works of PWD-2022	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	CONDUITS & PIPES	-
2	L.V DISTRIBUTION BOARDS	-
3	LOW VOLTAGE CABLES AND WIRES	-
4	WIRING ACCESSORIES	-
5	LIGHTING FIXTURES	-
6	EARTHING SYSTEM	-
	<b>Total of Non-Schedule Items - B</b>	-
	<b>TOTAL AMOUNT OF BUILDING (A+B)</b>	-



## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
<b>1</b>	<b>2-26</b>	<b><u>SINGLE PVC INSULATED WIRE IN EXISTING CONDUIT</u></b>				
a)	2-26-05	Supply & drawing of 10 mm <sup>2</sup> , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.	15	P/Meter	457	6,855
b)	2-26-07	Supply & drawing of 25 mm <sup>2</sup> , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.	8	P/Meter	1,019	8,152
		<b>Amount Carried to Electrical Summary</b>				<b>15,007</b>
<b>2</b>	<b>2-34</b>	<b><u>3 WIRE IN PVC RECESSED CONDUIT</u></b>				
a)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to switch board / Light including wiring between switch on the same circuit)	185	P/Meter	510	94,350
b)	2-34-01	Wiring for sub-main with 3x 1.5 mm <sup>2</sup> , 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 as required. (Light point from switch board to point)	710	P/Meter	363	257,730
c)	2-34-01	Wiring for sub-main with 3x 1.5 mm <sup>2</sup> , 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 as required. (Light point to point)	125	P/Meter	363	45,375
d)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to 13A Outlet)	120	P/Meter	510	61,200
e)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (13A Outlet to 13A Outlet)	145	P/Meter	510	73,950
f)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to 20A DP Switch for Electric Geyser)	145	P/Meter	510	73,950

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
g)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (20A DP Switch to Flex Outlet for Electric Geyser)	50	P/Meter	510	25,500
h)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to 15A Outlet for Electric Heater)	215	P/Meter	510	109,650
		<b>Amount Carried to Electrical Summary</b>				<b>741,705</b>
<b>3</b>	<b>2-61</b>	<b><u>uPVC CONDUIT &amp; DUCT</u></b>				
a)	2-61-03	Supply & fixing 30mm (1-1/4") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	7	P/Meter	241	1,687
b)	2-61-04	Supply & fixing 40mm (1-1/2") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	15	P/Meter	310	4,650
c)	2-61-05	Supply & fixing 50mm (2") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	10	P/Meter	759	7,590
		<b>Amount Carried to Electrical Summary</b>				<b>13,927</b>
<b>4</b>	<b>2-66</b>	<b><u>"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD</u></b>				
a)	2-66-01	Providing & fixing 10 Amps Polycarbonate flame retardant S.P switch with fancy required gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Schneider / Philips)	18	Each.	471	8,478
b)	2-66-02	Providing & fixing 10 Amps Polycarbonate flame retardant Two way switch with fancy gang plate fixed on die fabricated, powder coated, metal board recessed in wall or column including connection as required. (Schneider / Philips)	8	Each.	531	4,248
c)	2-66-06	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)	18	Each.	1,290	23,220
d)	2-66-11	Providing & fixing Polycarbonate flame retardant, fan dimmer with plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (Schneider / Philips)	18	Each.	1,197	21,546
		<b>Amount Carried to Electrical Summary</b>				<b>57,492</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
5	2-67	<b>BATTEN/ ANGLE HOLDER, CEILING ROSE, BELL/ INDICATORS</b>				
a)	2-67-02	Providing & fixing 6 Amps Plastic ceiling rose on PVC Round block/Round Cover fitted on surface including connection as required.	18	Each.	245	4,410
		<b>Amount Carried to Electrical Summary</b>				<b>4,410</b>
6	2-77	<b>FITTING &amp; FIXTURE (PHILIPS/SIGNIFY, OSRAM, GE, THORN)</b>				
a)	2-77-02	Providing, Installation, Testing & Commissioning of recessed / surface mounted project / professional series ceiling lights / downlights including driver having warm / neutral white / cool white colour, 100-110 lm/watts efficiency, 0.9 or above power factor, 40000-50000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge.				
i	e	16-18 Watts	12	Each.	14,650	175,800
ii	f	19-21 Watts	55	Each.	14,870	817,850
		<b>Amount Carried to Electrical Summary</b>				<b>993,650</b>
7	2-80	<b>CEILING FANS</b>				
a)	2-80-03	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.	18	Each.	9,349	168,282
		<b>Amount Carried to Electrical Summary</b>				<b>168,282</b>
8	2-84	<b>PLASTIC BODY EXHAUST FANS</b>				
a)	2-84-01	Providing & installing 20 Cm (8") sweep, Plastic body Exhaust fan complete with blades, motor, etc fixed in existing hole including connection with 14/.0076" flexible wire complete as required. Pak, Royal, GFC, Younas, Millat.	18	Each.	3,015	54,270
		<b>Amount Carried to Electrical Summary</b>				<b>54,270</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>NON-SCHEDULE ITEMS</b>						
<b>1</b>		<b><u>CONDUITS &amp; PIPES</u></b>				
a)		Supply and installation of following size internal diameter PVC / uPVC Class-D pipe / Flexible PVC Conduit as race ways with all accessories, recessed / surface on wall / column / under floor, as per drawings and specifications, complete in all respect.				
i		50 mm dia PVC Conduit	5	Rm.		-
b)		Supply and installation of following size uPVC Pipe Class-D for Power cables, buried in ground / under floor as per specification, including excavation for laying of pipe, bricks and backfilling with new and fresh sand (6" under and 6" above pipe) etc., (wherever required), as shown on the specifications and drawings, complete in all respect.				
i		50mm dia uPVC Pipe (Class-D)	5	Rm.		-
c)		Supply and installation of Pull Boxes (Floor / Wall) with all installation accessories, as per drawings, specifications and approved brands, complete in all respect.	1	No.		-
d)		Providing and Construction of Handhole Size 2'-0" x 2'-0" x 2'-0" deep, 6" thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For Electrical cables)	1	No.		-
		<b>Amount Carried to Electrical Summary</b>				-
<b>2</b>		<b><u>L.V. DISTRIBUTION BOARDS</u></b>				
a)		Supply, installation, testing and commissioning of following wall mounting / floor standing surface type Main Distribution Board (MDB), Sub Main Distribution Boards (SMDB's) and Distribution Board (DB's) made with 16 SWG sheet metal, dust protected, vermin proof housing coated with approved color having all the necessary switching, energy analyzer etc., protections, as per drawing and specification, complete in all respect.				
i		SMDB-FA	1	No.		-
ii		DB-GF	1	No.		-
iii		DB-1F	1	No.		-
iv		DB-2F	1	No.		-
		<b>Amount Carried to Electrical Summary</b>				-
<b>3</b>		<b><u>LOW VOLTAGE CABLES AND WIRES</u></b>				

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
3.1		Supply, laying, termination, tagging, testing and commissioning of following size copper conductor multi core / single core, Cu/PVC, Cu/PVC/PVC, unarmoured, 0.6 kV/1 kV, 450/750V or 300/500V voltage grade copper cable in already laid PVC conduit / cable tray / trench including all accessories lugs, cable gland etc. as per drawings and specification, complete in all respect.				
a) i		<b>4 Core, Cu./PVC/PVC Cable (600/1000V)</b> 4C, 10 Sqmm Cu/PVC/PVC	15	Rm.		-
		<b>Amount Carried to Electrical Summary</b>				-
<b>4</b> a)		<b><u>WIRING ACCESSORIES</u></b> Supply, installation, testing and commissioning of following 10/13/15/20A, One/Two/Three/Four gang type switches, Dimmer Switches, Sockets including 16 SWG Sheet Steel powder coated back boxes with earth terminal, recessed in wall, with all accessories as per drawings and specification, complete in all respects.				
i		Two Gang Switch 10A	13	No.		-
ii		Three Gang Switch 10A	12	No.		-
iii		Four Gang Switch 10A (Weatherproof type)	1	No.		-
iv		13A, International Switch Socket Outlet	48	No.		-
v		20A, Double Pole Switch with neon indicator	12	No.		-
vi		20A, Flex Outlet	12	No.		-
		<b>Amount Carried to Electrical Summary</b>				-

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>5</b>		<b><u>LIGHTING FIXTURES</u></b>				
a)		Supply, installation, testing and commissioning of following Light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per drawings and specifications, complete in all respects. Lighting fixtures sample must be submitted to consultant for approval. Note: Refer light fixtures drawings for complete light fixtures details.				
i		Wall / Surface mounted LED Bi-Directional Light Fixture (IP-54) with 2x12W LED lamp	14	No.		-
ii		Wall / Surface mounted LED Wall Light Fixture (IP-20) with 1x20W LED lamp	36	No.		-
b)		Supply, installation, testing and commissioning of following items including all connecting accessories as per drawings, specifications, complete in all respects.				
i		Fan Hook M.S.Box with colour coated	18	No.		-
		<b>Amount Carried to Electrical Summary</b>				-
<b>6</b>		<b><u>EARTHING SYSTEM</u></b>				
a)		Supply, installation, testing and commissioning of following items for complete earthing system including all connecting accessories as per drawings, specifications and as mentioned in General Notes, complete in all respects.				
i		Supply, installation, testing and commissioning of following items for complete Power Earthing system, including Bentonite chemical, other all required materials and connecting accessories, boring, labor, tools, transportation etc., as per drawings and specifications, complete in all respects with detailed test reports.				
i		Earth pit with Rod type earth electrode, 3/4" dia and 9 Ft. long copper bonded rod.	1	No.		-
		<b>Amount Carried to Electrical Summary</b>				-

# **ELV WORKS**

## ENGINEER'S ESTIMATE

## ELV SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	UPVC CONDUIT & DUCT	11,385
2	"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD	20,448
	<b>Total of Schedule Items</b>	31,833
	Add _____ % Premium on ELV Works of PWD-2022	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	CONDUITS & PIPES	-
2	VOICE COMMUNICATION SYSTEM (Passive Equipment Only)	-
3	CABLE TELEVISION SYSTEM (CATV)	-
4	SELF CONTAINED EMERGENCY LIGHTS	-
	<b>Total of Non-Schedule Items - B</b>	-
	<b>TOTAL AMOUNT OF BUILDING (A+B)</b>	-



## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
1	2-61	<b><u>uPVC CONDUIT &amp; DUCT</u></b>				
a)	2-61-05	Supply & fixing 50mm (2") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	15	P/Meter	759	11,385
		<b>Amount Carried to ELV Summary</b>				<b>11,385</b>
2	2-66	<b><u>"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD</u></b>				
a)	2-66-12	Providing & fixing Polycarbonate flame retardant T.V Socket with plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (Schneider / Philips)	18	Each.	1,136	20,448
		<b>Amount Carried to ELV Summary</b>				<b>20,448</b>
<b>NON-SCHEDULE ITEMS</b>						
1		<b><u>CONDUITS &amp; PIPES</u></b>				
a)		Supply and installation of following size internal diameter PVC / uPVC Class-D pipe / Flexible PVC Conduit as race ways with all accessories, recessed / surface on wall / column / under floor, as per drawings and specifications, complete in all respect.				
i		25 mm dia PVC Conduit	285	Rm.		-
ii		50 mm dia PVC Conduit	5	Rm.		-
iii		25 mm dia Flexible PVC Conduit	5	Rm.		-
b)		Supply and installation of following size uPVC Pipe Class-D for Telecommunication Cable (copper / optic fiber). Buried in ground / under floor as per specification, including excavation for laying of pipe, bricks and backfilling with new and fresh sand (6" under and 6" above pipe) etc., (wherever required), as shown on the specifications and drawings, complete in all respect.				
i		50mm dia uPVC Conduit (Class-D)	5	Rm.		-
c)		Supply and installation of Pull Boxes (Floor / Wall) with all installation accessories, as per drawings, specifications and approved brands, complete in all respect.	1	No.		-
d)		Providing and Construction of Handhole Size 2'-0" x 2'-0" x 2'-0" deep, 6" thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For ELV cables)	1	No.		-
		<b>Amount Carried to ELV Summary</b>				<b>-</b>

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
2		<b><u>VOICE COMMUNICATION SYSTEM (Passive Equipment Only)</u></b>				
a)		Supply, installation, testing and commissioning of Single RJ-45, Cat-6 outlet for Voice with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.	12	No.		-
b)		Supply, laying, termination, testing and commissioning of CAT 6 - 4 pair cable for Single RJ-45 outlet (for Voice) in already laid 25mm dia PVC conduit concealed / surface from each outlet to TJB, including tagging and piping with all necessary accessories, complete in all respect.	175	Rm.		-
c)		Supply, laying, termination, testing and commissioning of Cat-5e, 10 pair cable from MTJB / TJB to TJB in already laid conduit / cable tray including with all the necessary accessories as per drawing and specifications, complete in all respect.	10	Rm.		-
d)		Supply, installation, testing and commissioning of CAT-6 UTP (RJ-45 to RJ-45) for the above Patch Panels including with all necessary accessories, as per drawing and specification, complete in all respect.				
i		CAT-6 (2m) Long Patch Cord	12	No.		-
e)		Supply, installing, testing and commissioning of following 19" Tag blocks in Data racks, as per drawing and specification, complete in all respect.				
i		MTJB with 2x10 Pair IDC Block 19" type	1	No.		-
ii		TJB with 1x10 Pair IDC Block 19" type	2	No.		-
f)		Installation, testing and commissioning by Manufacturer Authorized Agent / Dealer and handing over complete Voice & Data System to Owner with Providing Training voice data fuke & OTDR Testing, as build drawing, Rack layouts and certification's Principal, complete equipment's Manual and Warranty Documents to Owners representative.	1	Job.		-
		<b>Amount Carried to ELV Summary</b>				-

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>3</b>		<b><u>CABLE TELEVISION SYSTEM (CATV)</u></b>				
a)		Supply and installation of MTVJB Splitter Box with 1x8 Way Splitter, complete in all respects.	1	No.		-
b)		Supply and installation of TVJB Splitter Box with 1x8 Way Splitter, complete in all respects.	2	No.		-
c)		Supply and installation of CATV RG-06 Co-axial 75 ohms shielded cable in already laid 25mm dia PVC conduit from box to TV outlet, complete in all respects.	200	Rm.		-
		<b>Amount Carried to ELV Summary</b>				-
<b>4</b>		<b><u>SELF CONTAINED EMERGENCY LIGHTS</u></b>				
		Supply, installation, testing and commissioning of following items for self contained emergency lights with all fixing accessories, as per drawing and specification, complete in all respect.				
a)		3W, Emergency light with self contained Battery, Ceiling / Wall mounted IP-20 rated, UL 924 Listed, as per specification and drawing, complete in all respect. (non-maintained)	5	No.		-
b)		3W, Emergency light with self contained Battery, Ceiling / Wall mounted IP-65 rated, UL 924 Listed, as per specification and drawing, complete in all respect. (non-maintained)	1	No.		-
c)		3W, Exit light with self contained Battery, 24m viewing, Directional Pendant, IP-65 rated, UL 924 Listed, as per specification and drawing, complete in all respect. (non-maintained)	3	No.		-
		Note: Selection of Exit Light is as per Architect's approval.				
		<b>Amount Carried to ELV Summary</b>				-

# **PLUMBING WORKS**

## BILL OF QUANTITIES

## PLUMBING SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	MAN HOLES	155,259
2	U.P.V.C PIPE (EXTERNAL) "D" CLASS	157,815
	<b>Total of Schedule Items</b>	313,074
	Add _____% Premium on Plumbing Works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	PLUMBING FIXTURES	-
2	WATER SUPPLY WORKS	-
3	DRAINAGE WORKS	-
4	FIRE FIGHTING WORKS	-
	<b>Total of Non-Schedule Items - B</b>	-
<b>TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B)</b>		-

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
1	315 -15 / Pg:82	<b><u>MAN HOLES:</u></b>  Providing manhole type 'B' size 3 feet x 2-1/2 feet (914 mm x 762 mm) (inside dimensions) 4 feet (1219 m) 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 (1.22m to 2.66 m) depth with 18 inches (457 mm) dia. (inside) cast iron cover and frame (weight=1 cwt. 3 Qrs.) (88.90 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.	8	Nos	19,407.41	155,259
	313 -5 / Pg:73	Excavation in all kinds of soil, murum, hard, average or soft including lift up to 5 feet (1.52m) and lead upto one chain (30.48m)	504	CFT	599.70	3,022
	315 -26 / Pg:84	providing & fixing C.I. Cover & Frame 18" dia (460mm) weight 1 cwt. 3 Qtr (88.90 Kg.)	8	Nos	8,769.90	70,159
2	306 - 21 / Pg: 57	<b><u>u.P.V.C PIPE (EXTERNAL) "D" CLASS:</u></b>  Providing and fixing un plasticized polyvinyl chloride pipe (P.V.C) "D" class and specials etc. including cutting and fitting complete with and including the cost of cutting trench up to 1-1/2 feet deep refilling, watering, ramming, and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 km.) (working pressure 12 kg/cm2 ) 1-1/4 inches (32 mm) dia.				
	306 - 27 / Pg: 57	6" inches (150 mm) dia pipe	310	Rft	509.08	157,815

ENGINEER'S ESTIMATE

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Amount Carried to Plumbing Summary				386,256

[illegible]



## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1		<b><u>WATER SUPPLY:</u></b> <b><u>COLD &amp; HOT WATER PIPING:</u></b> Supply, installation, testing and Commissioning of PPR PN - 20 Cold/Hot water pipes as per DIN 8077-8078 with molded fittings PN - 25 as per DIN 16962, including pipe supports, cutting, filling, testing/commissioning and all accessories as indicated on the drawing, as per specifications and Engineers approval.				
i		3/4" dia	530	Rft		-
ii		1" dia	100	Rft		-
iii		1 1/4" dia	180	Rft		-
iv		1 1/2" dia	160	Rft		-
v		2" dia	150	Rft		-
2		<b><u>ISOLATION VALVES:</u></b> Providing and fixing of PPR Coated PN-20 Gate valves of bronze material for diameter 2" and smaller and Cast Iron material for Diameter greater than 2" as per specifications and Engineers approval.				
i		3/4" dia	2	Nos		-
ii		1" dia	10	Nos		-
iii		1 1/4" dia	3	Nos		-
iv		1 1/2" dia	6	Nos		-
v		2" dia	3	Nos		-
3		<b><u>PLUMBING SPECIALITIES:</u></b> Supply and installation of the following including all fittings, fixings, accessories, etc., as indicated on the drawing, as per Specifications and Engineers approval.				
i		1/2" dia. Bib Tap	4	Nos.		-
ii		1" Air Relief Valve	-	Nos.		-
4		<b><u>COLD &amp; HOT WATER PIPE INSULATION:</u></b> Supply, installation, testing and Commissioning of 20mm thick closed cell rubber foam inculation (NBR) for cold & hot water piping, as per specifications and Engineers approval.				
i		3/4" dia	530	Rft		-
ii		1" dia	100	Rft		-
iii		1 1/4" dia	180	Rft		-
iv		1 1/2" dia	160	Rft		-
v		2" dia	150	Rft		-
		Continued..				

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
5		<b><u>WATER COOLER:</u></b> Supply and installation of Stainless Steel Electric water cooler of below mentioned capacity with two taps, R-22 Refrigeration system, S.Steel Tank safety tested at 10kg/cm2 (142 p.s.i.) with recommended maximum working pressure of 3kg/cm2 (42 p.s.i.) including all accessories like Valves, interconnecting piping, Drain tray and drain connection s as indicated in the drawings, as per specifications and engineers approval. WC - 01 to 06 ( Capacity 32 GPH )	-	Nos		-
6		<b><u>3 STAGE WATER FILTER:</u></b> Supply and installation of 3 stage filter having 5 Microns Pre Filter, Active Carbon Filter and UV Water filter having minimum flow rate of 200 Gallons per Day to be installed with Water cooler , including valves, piping, accessories, etc., as per specifications and Engineers approval.	-	Nos		-
7		<b><u>CEILING HUNG ELECTRIC HEATER:</u></b> Providing and fixing of ceiling hung Electric Hot water heater with all accessories like Clamps, isolation valves, Air relief valves as indicated in the drawings, as per specifications and engineers approval.				
i		EWB - ( Capacity 50 litre)	12	Nos		-
ii		EWB - ( Capacity 80 litre)	-	Nos		-
iii		EWB - ( Capacity 100 litre)	-	Nos		-
		<b>Continued..</b>				

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
8		<b><u>WATER TANK CONNECTION:</u></b> Connection for water tank including with valves, supports, excavation and Backfill, complete all in accordance with the drawing and specifications.				
i		Connection to RCC water tanks	-	Nos		-
ii		Connection to overhead water tanks using Float valve	1	Nos		-
iii		Cast Iron Medium Duty Cover For RCC water tanks	1	Nos		-

ENGINEER'S ESTIMATE

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Sub Total of Water Supply Works				-

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1		<b><u>DRAINAGE WORKS:</u></b> <b><u>SOIL, WASTE &amp; VENT PIPING:</u></b> Providing and fixing, uPVC pipes and fittings as per BS EN 1329 for above ground installations for Soil, Waste, Vent pipes with Kite mark on pipes and fittings including cleanout plug, clamps, hanger collars, supports, specials (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval.				
i		2" dia	110	Rft		-
ii		3" dia	340	Rft		-
iii		4" dia	180	Rft		-
2		<b><u>DRAINAGE SPECIALITIES:</u></b> Providing and fixing of Multi floor trap with multiple dia inlet and Single outlet and cleanout plug of the approved self cleaning design with S.Steel grating as specified by the architect, as indicated on the drawing, as per specifications, architectural finishing schedule and Engineers approval. Providing and fixing UPVC cowl for vent pipe of the following dia including all accessories complete in all respects.	30	Nos		-
i		2" dia	-	Nos		-
ii		3" dia	6	Nos		-
iii		4" dia	6	Nos		-

ENGINEER'S ESTIMATE

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Continued..				

## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
3		<b><u>GULLY TRAPS:</u></b> Construction of 12" x 12" gully trap with 8" P- trap and 12" x 12" cover (min Weight =45 kg) as specified and shown on the drawing, as per specifications and Engineers approval.	4	Nos		-

ENGINEER'S ESTIMATE

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Sub Total of Drainage Works				-



## ENGINEER'S ESTIMATE

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1		<b><u>FIRE FIGHTING WORKS:</u></b> <b><u>FIRE EXTINGUISHERS:</u></b> Supply and installation of below mentioned Portable Fire extinguishers with Wall mount brackets as indicated on the drawings, as per specifications and Engineers Recommendation				
i		5 Kg CO2 wall mounted fire extinguisher	4	Nos		-
ii		6 Kg Dry powder wall mounted fire extinguisher	4	Nos		-

ENGINEER'S ESTIMATE

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
		Sub Total of Fire Fighting Works				-

**ESTABLISHMENT OF UNIVERSITY OF BALTISTAN, SKARDU  
FLATS FOR SUPPORT STAFF**

**BILL OF QUANTITIES**



**November, 2023**



**EA Consulting Pvt Ltd**

(Formerly Engineering Associates )

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BILL OF QUANTITIES

GRAND SUMMARY

S.NO:		Amount
1	Structure	
2	Architecture	
3	Electrical Works	
4	ELV Works	
5	Plumbing Works	
TOTAL CARRIED TO MASTER SUMMARY		

**CIVIL WORKS**  
**(STRUCTURE WORKS)**

## BILL OF QUANTITIES

## Civil SUMMARY

S.NO:	Description	Amount
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	EARTH WORKS	162,917
2	SUB STRUCTURE	4,053,682
3	SUPER STRUCTURE	7,518,914
4	EXTERNAL WORKS (STRUCTURE) OTHER THAN BUILDING (NON COVERED AREA)	159,741
	<b>Total of Schedule Items</b>	<b>11,895,254</b>
	Add _____% Premium on Civil Works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	EARTH WORKS	
2	SUB STRUCTURE	
3	SUPER STRUCTURE	
4	EXTERNAL WORKS (STRUCTURE) OTHER THAN BUILDING (NON COVERED AREA)	
	<b>Total of Non-Schedule Items - B</b>	
<b>TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B)</b>		

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7 = 4 x 6
	<b>BUILDING</b>	<b>A-SCHEDULE ITEMS</b>				
		All items under this head (Structure work) to be carried out as per relevant Section of PWD & technical specifications (Volume-II), Drawings, BSI/ASTM Standards, complete in all respect and to the entire satisfaction of the Engineer. Due to pitch roof second para of clause No 1.9 of General conditions of PWD schedule of rates-2022 will be applicable for the height of the higher side.				
<b>1</b>		<b>EARTH WORKS</b>				
1.1	Code -103,	Excavation for foundation trenches and drains in <b>gravelly soil</b> and back filling the excavated material in foundation trenches, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) 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).				
	Item # 2	From ± 0'-0" to -5' - 0"	16320 Cft	100 Cft	613.14	100,064
	Item # 2+28	From -5' - 0" to -8' - 0"	4110 Cft	100 Cft	690.49	28,379
1.2	Code -104 Item #4	Filling bajri available at site in foundation plinth or under floor, etc. including dressing, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, complete within a lead of one chain (30.5 R.m) and lift of 5 feet (1.52 R.m). etc. complete, including all lifts etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	5530 Cft	100 Cft	261.80	14,478
1.3	Code -117 Item #1	Providing and laying soling stones 6 inches to 9 inches (152 mm to 229 mm) size under floors/foundations & where required etc. including packing with sprawls and chips and consolidating etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	615 Cft	100 Cft	3,251.34	19,996
Amount Carried to Civil Summary						162,917

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
<b>2</b>		<b><u>SUB STRUCTURE</u></b>				
2.1	Code -106	<b>CONCRETE WORKS</b> Providing and laying in situ <b>1:4:8</b> (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 11	Below plinth beam,situ,walls,tanks, over stone soling or where required <b>(Cylindrical 1000 Psi)</b>	1720 Cft	100 Cft	14,411.43	247,877
2.2	Code -106	Providing and laying in situ <b>1:3:6</b> (1 cement 3 sand and 6 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work, etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 12	For Cast in situ / mass concrete or where required <b>(Cylindrical 1500 Psi)</b>	675 Cft	100 Cft	15,840.97	106,927
2.3	Code -114	<b>REINFORCED CONCRETE WORKS</b> Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N/mm<sup>2</sup> at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in columns footing of required shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 1+134+137	Foundation for any type <b>(Cylindrical Strength 3000 Psi)</b>	4155 Cft	100 Cft	21,685.85	901,047
2.4	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm<sup>2</sup> at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth. etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 4+135+138	Columns upto plinth <b>(Cylindrical Strength 3750 Psi)</b>	700 Cft	100 Cft	26,704.50	186,932
2.5	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm<sup>2</sup> at 28 days)</b> with a mix not leaner than <b>1:1:2</b> in straight walls more than 6 inches (152 mm) thick including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 9+135+138	Rcc Wall <b>(Cylindrical Strength 3750 Psi)</b>	0 Cft	100 Cft	27,958.39	-
2.6	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm<sup>2</sup> at 28 days)</b> with a mix not leaner than <b>1:1-1/2:3</b> in plinth beams of required shape and design including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, foundation basement and plinth etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 8+134+137	Plinth Beams i/c nibs / projections <b>(Cylindrical Strength 3000 Psi)</b>	1300 Cft	100 Cft	22,344.09	290,473



S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
2.7	Code -114 Item # 166	Providing and laying hard grade ribbed deformed (minimum yield point 60,000 psi or 414 Mpa) reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension,etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer. (Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).	17000 Kg	Kg	123.02	2,091,340
2.8	Code -108 Item # 12	Providing a coat of bitumen emulsion at 10 Lbs. per % sft. (0.49 Kg/sm) on walls and floor in ground floor etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	10210 Sft	100 Sft	648.08	66,169
Amount Carried to Civil Summary						4,053,682
<b>B-NON-SCHEDULE ITEMS</b>						
2.9		<u>SUB STRUCTURE</u> <u>TERMITE PROOFING</u> Providing and Carrying out termite proofing in foundation, 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 Engineer incharge,etc., complete in all respects as per drawing, standard, specifications and as directed by the Engineer. (Note: Plinth Area will be measured one time for payment where is the number of applications will be three times on all horizontal & vertical surfaces of the excavation for termite proofing)	1,975	Sft		
Amount Carried to Civil Summary						
3		<u>SUPER STRUCTURE</u> <u>REINFORCED CONCRETE WORKS</u>				
3.1	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down size boulders a minimum under the existing Columns (Cylindrical Strength 3750 Psi)				
	Item # 24+135+138	Ground Floor	665 Cft	100 Cft	30,389.36	202,089
	Item # 24+135+138+92	First Floor	650 Cft	100 Cft	31,338.56	203,701
	24+135+138+92+	Second Floor	910 Cft	100 Cft	32,090.01	292,019
3.2	Code -114	Providing and laying reinforced cement concrete with				
		Rcc Wall (Cylindrical Strength 3750 Psi)				
	Item # 30+135+138	Ground Floor	0 Cft	100 Cft	28,692.59	-

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
3.3	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in straight beams lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in basement and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 38+134+137	Beams and projections (Cylindrical Strength 3000 Psi) Ground Floor	1010 Cft	100 Cft	24,839.57	250,880
	Item # 38+134+137+92	First Floor	995 Cft	100 Cft	25,788.77	256,598
	Item # 38+134+137+92 +93	Second Floor	950 Cft	100 Cft	26,540.22	252,132
3.4	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3000 lbs. per sq. inch (20.68 N /mm 2 at 28 days)</b> with a mix not leaner than 1:2:4 in straight beams lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in basement and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 38+136	Bracing beams / lintels / nibs / sills / bands /around <b>Ground Floor</b>	155 Cft	100 Cft	20,668.60	32,036
	Item # 38+136+92	<b>First Floor</b>	150 Cft	100 Cft	21,617.80	32,427
	Item # 38+136+92+93x2	<b>Second Floor</b>	100 Cft	100 Cft	22,369.25	22,369
3.5	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days)</b> with a mix not leaner than 1:1-1/2:3 in ordinary slab 5 inches (127 mm) to 6 inches (152mm) thick including form work and its removal compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 56+134+137	Slab i/c projections (straight & sloping ) (Cylindrical Strength 3000 Psi) Ground Floor	980 Cft	100 Cft	24,314.96	238,287
	Item #	First Floor	1070 Cft	100 Cft	25,264.16	270,327

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
3.6	56+134+137+92 +93	Second Floor	1320 Cft	100 Cft	26,015.61	343,406
	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of 3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days) with a mix not leaner than 1:1-1/2:3 in straight stairs and landing of required section including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 57+134+137	Ground Floor	0 Cft	100 Cft	23,691.64	-
3.7	57+134+137+92	First Floor	0 Cft	100 Cft	24,640.84	-
	57+134+137+92 +93	Second Floor	0 Cft	100 Cft	25,392.29	-
	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of 3750 lbs. per sq. inch (23.24 N /mm 2 at 28 days) with a mix not leaner than 1:1-1/2:3 in straight stairs and landing of required section including form work and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in basement plinth and ground floor.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
3.8	50+134+137	Stair Case / steps /seats (Steps, Landing & Waist slab) (Cylindrical Strength 3000 Psi) Ground Floor	205 Cft	100 Cft	30,160.60	61,829
	Item # 50+134+137+92	First Floor	205 Cft	100 Cft	31,109.80	63,775
	50+134+137+92 +93	Second Floor	300 Cft	100 Cft	31,861.25	95,584
3.8	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of 4500 lbs. per sq. inch (31.04 N/mm2 at 28 days) with a mix not leaner than 1:1:2 in a square of rectangular bottom slab of over head water tank up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement .etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 114+135+138+127 x 2	OH Water Tank Bottom Slab (Cylindrical Strength 3750 Psi)	105 Cft	100 Cft	34,550.73	36,278

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
3.9	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in straight walls in over head water tank bins, bunkers, intake tanks and silo up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 112+135+138+127 x 2	OH Water Tank Walls (Cylindrical Strength 3750 Psi)	200 Cft	100 Cft	35,126.50	70,253
3.10	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>4500 lbs. per sq. inch (31.04 N/mm2 at 28 days)</b> with a mix not leaner than 1:1:2 in roof slab of over head water tank up to a height of 30 feet (9 m) above ground including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 118+135+138+127	OH water tank top slab (Cylindrical Strength 3750 Psi)	80 Cft	100 Cft	32,154.29	25,723
3.11	Code -114	Providing and laying hard grade ribbed deformed (minimum yield point 60,000 psi or 414 Mpa)				
	Item # 166	Ground Floor	11575 Kg	Kg	123.02	1,423,957
	Item # 166+174	First Floor	11600 Kg	Kg	124.47	1,443,852
	Item # 166+174+175	Second Floor	15100 Kg	Kg	125.92	1,901,392
Amount Carried to Civil Summary						7,518,914

S.No	PWD Schedule 2012 Ref.No	Description	QTY	Unit	Sched. Rate (Pak Rs.)	Amount (Pak Rs.)
<b>EXTERNAL A-SCHEDULE ITEMS</b>						
<b>1</b>		<b>EARTH WORKS</b>				
1.1	Code -103,	Excavation for foundation trenches and drains in <b>gravelly soil</b> and back filling the excavated material in foundation trenches, plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) 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).				
	Item # 2	From ± 0'-0" to -5' - 0"	1550 Cft	100 Cft	613.14	9,504
	Item # 2+28	From -5' - 0" to -8' - 0"	0 Cft	100 Cft	690.49	-
1.2	Code -104	Filling bairi available at site in foundation plinth or under	4645 Cft	100 Cft	261.80	12,161
1.3	Code -117 Item #1	Providing and laying soling stones 6 inches to 9 inches (152 mm to 229 mm) size under floors/foundations & where required etc. including packing with sprawls and chips and consolidating etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	775 Cft	100 Cft	3,251.34	25,198
<b>2</b>		<b>SUB STRUCTURE</b>				
		<b>CONCRETE WORKS</b>				
2.1	Code -106	Providing and laying in situ <b>1:4:8</b> (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 11	Below plinth beam,situ,walls,tanks, over stone soling or where required <b>(Cylindrical 1000 Psi)</b>	515 Cft	100 Cft	14,411.43	74,219
2.2	Code -106	Providing and laying in situ <b>1:3:6</b> (1 cement 3 sand and 6 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. For Cast in situ / mass concrete or where required	215 Cft	100 Cft	15,840.97	34,058
2.3	Code -108 Item # 12	Providing a coat of <b>bitumen emulsion at 10 Lbs. per % sft. (0.49 Kg/sm)</b> on walls and floor in ground floor etc.	710 Sft	100 Sft	648.08	4,601
<b>Amount Carried to Civil Summary</b>						<b>159,741</b>

**CIVIL WORKS**  
**(Architectural WORKS)**

## BILL OF QUANTITIES

## CIVIL SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
4	MASONRY WORKS	1,737,027
5	THERMAL & MOISTURE PROTECTION	-
6	METAL WORKS	684,227
7	WOOD WORKS	52,842
8	FLOOR FINISHES	465,813
9	WALL FINISHES	1,360,677
10	CEILING FINISHES	178,173
11	ROOF FINISHES & WATER PROOFING	148,353
12	EXTERNAL FINISHES (BUILDING)	535,065
13	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	14,943
	<b>Total of Schedule Items</b>	5,177,120
	Add ____% Suitable Premium on Civil Works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
4	MASONRY WORKS	
5	THERMAL & MOISTURE PROTECTION	
6	METAL WORKS	
7	WOOD WORKS	
8	FLOOR FINISHES	
9	WALL FINISHES	
10	CEILING FINISHES	
11	ROOF FINISHES & WATER PROOFING	
12	EXTERNAL FINISHES (BUILDING)	
	<b>Total of Non-Schedule Items - B</b>	
<b>TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B)</b>		

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amout (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
<b>A-SCHEDULE ITEMS</b>						
<b>4</b>		<b>All items under this head (Architectural work) to be carried out as per relevant Section of PWD &amp; technical specifications (Volume-II), Drawings, BSI/ASTM Standards, complete in all respect and to the entire satisfaction of the Engineer.</b> <b>Due to pitch roof second para of clause No 1.9 of General conditions of PWD schedule of rates-2012 will be applicable for the height of the higher side.</b>				
		<b>DPC &amp; MASONRY WORKS</b>				
		<b>Damp Proof Course (DPC)</b>				
4.1	Code -108 Item # 3 + Code -109 Item # 123	Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded <b>crushed boulders (instead of Screened bajri)</b> of 3/4 inch (19 mm) and down gauge mixed with any approved water proofing agent including compacting, curing form work and its removal etc. complete, but excluding the cost of water proofing agent .etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
		2" thick DPC	400 Sft	100 Sft	2,812.71	11,250.85
4.2	Code -108 Item # 5	Extra for using water proofing agent pudlo in item Nos. 4.1 (quantity to be used as per manufacturer's specification/2.50Kg per 100Sft).etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	10 Kg	Kg	86.10	861.00
		<b>Solid Block Masonry</b>				
4.3	Code-110 & Code-109	Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block masonry <b>more than 6 inches (152 mm) thick</b> using graded <b>crushed boulders (instead of Screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete in ground floor superstructure etc, complete in all respects as per drawing, standard , specifications and direction of the Engineer				
	Code-110 Item # 34+92+100 Code-109 Item # 120	Ground Floor	0 Cft	100 Cft	16040.34	-
	Code-110 Item # 34+92+100+70 Code-109 Item # 120	First Floor	0 Cft	100 Cft	16864.11	-
	Code-110 Item # 34+92+100+70 +71 Code-109 Item # 120	Second Floor	0 Cft	100 Cft	17543.59	-



## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
	Code-110 Item # 34+92+100+70 +71x2 Code-109 Item # 120	Second Floor (+31'-0" to Above)	0 Cft	100 Cft	18223.07	-
4.4	Code-110 & Code-109	Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block <b>4 to 6 inches</b> (102mm to 152 mm) thick using graded <b>crushed boulders (instead Screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:6 including scaffolding, raking out joints and curing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-110 Item # 44+92+100+ Code-109 Item # 120	Ground Floor	2550 Cft	100 Cft	16897.84	430,894.92
	Code-110 Item # 44+70+92 +100 Code-109 Item # 120	First Floor	2600 Cft	100 Cft	17721.61	460,761.86
	Code-110 Item # 44+70+92 +100+71 Code-109 Item # 120	Second Floor	3150 Cft	100 Cft	18401.09	579,634.34
	Code-110 Item # 44+70+92 +100+2x71 Code-109 Item # 120	Second Floor (+31'-0" to Above)	600 Cft	100 Cft	19080.57	114,483.42
4.5	Code-110	Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block masonry more than 6 inches (152 mm) thick <b>in steps, stairs</b> of approved design using graded <b>crushed boulders (instead of screened bajri)</b> 3/4 inch (19 mm) and down gauge set in cement mortar 1:4 including scaffolding, raking out joints and curing etc. complete in ground floor superstructure etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-110 Item #2+68+74+92 code-109 Item # 120	FOR BLOCK MASONRY STEPS	530 Cft	100 Cft	17915.71	94,953.26
4.6	Code-112 Item #144	Providing and laying wall ties of mild steel flats of approved section and design placed at horizontal and vertical spacing in cavity wall of any description in any floor at any height..	243 Kg	Kg	181.84	44,187.12

BILL OF QUANTITIES						
S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amout (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
		Amount Carried to Civil Summary				1,737,027.00
5		THERMAL & MOISTURE PROTECTION				
		Amount Carried to Civil Summary				

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
6		<b>METAL WORKS</b>				
6.1	Code -119 Item # 43	Providing and fixing M.S. moulded steel door frame of 4" x 2-1/2" (102 mm x 64 mm) manufactured from mild steel sheet of 18 gauge (1.41 mm) conforming to BSS. 1245 having a single rebate size 1-1/2" x 1/2" (38 mm x 13 mm) with 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 No., 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. etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	528 Rft	Rft	157.12	82,959.36
6.2	Code -119 Item # 44	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	132 Rft	Rft	185.34	24,464.88
6.3	Code -122 Item #159	Painting Iron work with <b>synthetic enamel paint</b> of approved make and shade two coats over and including the cost of one priming coat at any height in any floor etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	540 Sft	100 Sft	2,776.62	14,993.75
6.4	Code -119 Item #102	Providing and fixing fully glazed Bronze anodized or powder coated aluminium Sliding / fixed & openable /Top hung windows & ventilators as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 95mm 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, but excluding the cost of glass pans.	720 Sft	Sft	568.07	409,010.40
6.5	Code -119 Item #121	Providing and fixing Tinted glass panes 5mm thick to M.S. Box pipe / Aluminium doors, windows and ventilators etc including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height. (For Doors, Windows & Fixed Glazing or where instructed)	1440 Sft	Sft	106.11	152,798.40

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amout (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
6.6	Code -119 Item #120	Providing and fixing plain glass panes 5mm thick to M.S. Box pipe / Aluminium doors, windows and ventilators etc. including the cost of labour but excluding the cost of M.S. square pipe beading, rubber packing and screw in any floor at any height. (For vision panel of door shutters)	0 Sft	Sft	88.91	-
		<b>Amount Carried to Civil Summary</b>				<b>684,227.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
7		<b>WOOD WORKS</b>				
7.1	Code-120 Item # 02	<b>Door, windows &amp; partitions Frame</b> Providing and fixing best quality deodar frames for doors, windows, ventilators, clerestory windows, shelves, partitions, trellis work, etc., as required . Complete in all respect as per drawings, specification and as directed by the Engineer.	0 Cft	Cft	4,595.14	-
7.2	Code-120 Item # 278	<b>Architrave / Beading</b> Providing and fixing best quality deodar wood projected beading upto one Sq. inch (6.45 Sqm.) in sections and required design fixed around the panels of doors, windows etc., of any description , complete in all respect as per drawings, specification and as directed by the Engineer.	1250 Rft	Rft	35.66	44,575.00
7.3	Code-122 Item # 189	Applying French or spirit polishing, two coat of approved make on wood work at any height in any floor.	440 Sft	100 Sft	1,878.96	8,267.42
		<b>Amount Carried to Civil Summary</b>				<b>52,842.00</b>
8		<b>INTERNAL FLOOR FINISHES</b>				
8.1	Code-117	Providing and laying 1:5:10 cement concrete bed under floors using graded stone ballast 3/4 & down <b>instead of 2 inches (51 mm)</b> and down gauge with levelling, ramming, watering and curing etc. complete. <b>(under Mosaic &amp; Porcelain tiles).</b>				
	Code-117 Item # 3	Ground Floor	146 Cft	100 Cft	9,442.42	13,785.93
	Code-117 Item # 3+26	First Floor	141 Cft	100 Cft	9,684.38	13,654.98
	Code-117 Item # 3+26+27	Second Floor	141 Cft	100 Cft	9,879.51	13,930.11
8.2	Code-117	<b>Mosaic Floor</b> Providing and laying terrazzo floor 1-1/2 inches (38 mm) thick consisting of 1/2 inch (13 mm) thicktopping 1:2 (one grey cement 2 approved marble chips No. 0 to 4) in ground floor over a base of 1:2:4 (one cement, two sand and four screened graded bajri) cement concrete 1 inch (25 mm) thick laid in panels or pattern including form work, curing, cutting, rubbing and polishing etc. complete				
	Code-117 Item # 12+17	Ground Floor	1120 Sft	100 Sft	6,163.94	69,036.13
	Code-117 Item # 12+17+26	First Floor	1000 Sft	100 Sft	6,405.90	64,059.00
	Code-117 Item # 12+17+26+27	Second Floor	1000 Sft	100 Sft	6,601.03	66,010.30
8.3	Code-117	Providing and laying terrazzo floor 1-1/2 inches (38 mm) thick consisting of 1/2 inch (13 mm) thicktopping 1:2 (one grey cement 2 approved marble chips No. 0 to 4) in ground floor over a base of 1:2:4 (one cement, two sand and four screened graded bajri) cement concrete 1 inch (25 mm) thick laid in panels or pattern including form work, curing, cutting, rubbing and polishing etc. complete.				

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
	Code-117 Item # 12	Ground Floor	280 Sft	100 Sft	5,287.04	14,803.71
	Code-117 Item # 12+26	First Floor	250 Sft	100 Sft	5,529.00	13,822.50
	Code-117 Item # 12+26+27	Second Floor	250 Sft	100 Sft	5,724.13	14,310.33
8.4	Code-117 Item # 179	Providing and laying light colour, glazed/non skid vitrified porcelean tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	1020 Sft	100 Sft	17882.39	182,400.38
		<b>Amount Carried to Civil Summary</b>				<b>465,813.00</b>
9		<b>INTERNAL WALL FINISHES</b>				
9.1	Code-122	<b>Internal Wall Plaster</b> 1/2" (13 mm) thick cement plaster 1:6 on wall columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 6	Ground Floor	6500 Sft	100 Sft	1730.74	112,498.10
	Code-122 Item # 6+87	First Floor	6500 Sft	100 Sft	1884.61	122,499.65
	Code-122 Item # 6+87+90	Second Floor	7500 Sft	100 Sft	2015.07	151,130.25
	Code-122 Item # 6+87+2x90	Second Floor (+35'-1" to Above)	1000 Sft	100 Sft	2,145.53	21,455.30
9.2	Code-118 Item # 55 + 58 Page# 219	<b>Dado &amp; Skirting</b> Providing and fixing marble mosaic tile 12" X 6" X 3/4" (305 mm X 152 X 19 mm) with chips No. 0 to 4 in <b>dado and skirting</b> of approved design in light shade over 1/2 inch (13 mm) thick base of 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 matching colour curing, grinding, rubbing and polishing etc. complete.				
	Code-118 Item # 54 + 56	Ground Floor	240 Sft	100 Sft	14,274.50	34,258.80
	Code-118 Item # 54 + 56 + 58	First Floor	215 Sft	100 Sft	14,567.19	31,319.46
	Code-118 Item # 54 + 56 + 58 + 59	Second Floor	215 Sft	100 Sft	14,813.05	31,848.06
9.3	Code-122 Item # 151	Distemping with vinyl distemper (ICI) Deluxe Paintex of approved make and shade in 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.	21500 Sft	100 Sft	1,053.54	226,511.10

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amout (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
9.4	Code-122	Puddlo Plaster 3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc,complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 8	U.G.W,T Plaster		100 Sft	2367.12	-
	Item # 8+88+ 4 x 91	O.H.W,T Plaster	350 Sft	100 Sft	3,268.04	11,438.14

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
9.5	Code-122	Providing and mixing water proofing agent pudlo in cement mortar of any description in any floor etc., complete in all respects as per specifications/2.50Kg per 100Sft). & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 30	U.G.W.T		Kg	86.15	-
	Item # 30	O.H.W.T	9 Kg	Kg	86.15	775.35
9.6	Code-117 Item # 179	Providing and laying light colour, glazed/non skid vitrified porcelean tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer incharge.	3450 Sft	100 Sft	17882.39	616,942.46
		<b>Amount Carried to Civil Summary</b>				<b>1,360,677.00</b>
10		<b>INTERNAL CEILING FINISHES</b>				
		<b>Internal Ceiling Plaster</b>				
10.1	Code-122	1/2" (13 mm) thick cement plaster 1:6 on ceilings cantilever soffits others etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 6	Ground Floor	1850 Sft	100 Sft	1,730.74	32,018.69
	Code-122 Item # 6+87	First Floor	1900 Sft	100 Sft	1,884.61	35,807.59
	Code-122 Item # 6+87+90	Second Floor	2100 Sft	100 Sft	2,015.07	42,316.47
	Code-122 Item # 6+87+2x90	Second Floor (+35'-1" to Above)	200 Sft	100 Sft	2,145.53	4,291.06
10.2	Code-122 Item # 151	Distemping with vinyl distemper (ICI) Deluxe Paintex of approved make and shade in 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.	6050 Sft	100 Sft	1,053.54	63,739.17
		<b>Amount Carried to Civil Summary</b>				<b>178,173.00</b>
11		<b>ROOF FINISHES &amp; WATER PROOFING</b>				
11.1	Code-117	Providing and laying floor of 3 inches (76 mm) thick 1:2:4 reinforced cement concrete using graded crushed bolders <b>instead of screened bajri</b> 3/4" (19 mm) and down gauge in ground floor including form work, consolidation, finishing and curing etc. complete but excluding the cost of reinforcement.				
	Code-117 Item #7+26	Roof Lev (+14'-4" upto +17'-0")	250 Sft	100 Sft	4,531.45	11,328.63
	Code-117 Item #7+26+27	Lev (+31'-6" upto +46'-6")	2500 Sft	100 Sft	4,726.58	118,164.50



**BILL OF QUANTITIES**

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amout (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
11.2	Code-108 Item #27	Water proofing of roof slab using Bituflex @ 10 Kg per % sft in three coats, i/c cleaning /scraping the extra mortar etc. from the roof surface,and washing the surface with water and filling the depressions using Bituflex: sand mortar (1.2).Applyingone one primer coal, over moist surface using a mix of 50 %Bituflex and 50 % water blirded the surface with saul any floor in any light.	2750 Sft	100 Sft	685.80	18,859.50
		<b>Amount Carried to Civil Summary</b>				<b>148,353.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
12		<b>EXTERNAL WALL FINISHES (BUILDING)</b>				
12.1	Code-122	<b>External Plaster</b> 3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, grooves as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Code-122 Item # 8	Ground Floor	4100 Sft	100 Sft	2,367.12	97,051.92
	Code-122 Item # 8+88	First Floor	3300 Sft	100 Sft	2,572.28	84,885.24
	Code-122 Item # 8+88+91	Second Floor	3835 Sft	100 Sft	2,746.22	105,317.54
	Code-122 Item # 8+88+2x91	Second Floor (+31'-6" to Above)	650 Sft	100 Sft	2,920.16	18,981.04
12.2	Code-122 Item # 83	Extra for providing horizontal or vertical joints or grooves 3/8" x 1/4" (9.5 mm x 6.4 mm) size of approved design over item No. 12.1	11885 Sft	100 Sft	518.48	61,621.35
12.3	Code-122	Painting three coats with <b>weather shield paint deluxe (ICI)</b> 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 etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer				
	Code-122 Item # 172	Ground Floor to Roof	11885 Sft	100 Sft	1,406.88	167,207.69
		<b>Amount Carried to Civil Summary</b>				<b>535,065.00</b>
13		<b>EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)</b>				
13.1	Code-122	3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, <b>grooves</b> as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 8+37	Ground Floor	415 Sft	100 Sft	3,100.23	12,865.95
13.2	Code -108 Item # 5	Extra for using water proofing agent pudlo in item No. 13.4 (quantity to be used as per manufacturer's specification/2.50Kg per 100Sft).etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	10 Kg	Kg	86.15	861.50

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
13.3	Code -117 Item # 33	Providing and laying floor of 3/4 inch (19 mm) thick white marble tiles upto 36 Sq. inch (232 sq.cm) size fine dressed on the surface without windings in ground floor and laid over 1 inch (25 mm) thick lime mortar 1:2 (one lime, two sand) setting the tiles with grey cement slurry over lime mortar, jointing & washing the tiles with white cement slurry including curing, rubbing and polishing etc. complete, including the cost of mortar.		100 Sft	15,685.68	-
13.4	Code-126 Item # 1	HORTICULTURE WORK Rough dressing of the area for lawn including picking stones, pebbles, stubble, grass roots and other injurious matters and breaking of clods complete including disposal of rubbish within 3 chains (92 m).	20 Sft	100 Sft	103.32	20.66
13.5	Code-126 Item # 6	Supplying and stacking approved garden soil (sweet earth) free from salts, pebbles and grass roots etc. including all leads and lifts.	17 Cft	100 Cft	4,003.42	680.58
13.6	Code-126 Item # 7	Spreading approved garden soil (sweet earth) in uniform thickness including mixing and breaking clods and dressing fine for grassing including disposal of rubbish within 3 chains (92 m) complete .	17 Cft	100 Cft	193.38	32.87
13.7	Code-126 Item # 2	Supplying and stacking well decayed cowdung manure from approved source including all leads and lifts.	3 Cft	100 Cft	2,578.40	77.35
13.8	Code-126 Item # 3	Spreading cowdung manure and mixing the same upto any depth in the prepared bed including breaking clods, dressing fine for grassing, including, disposal of rubbish within 3 chains (92 m) complete.	3 Cft	100 Cft	107.74	3.23
13.9	Code-126 Item # 11	Supply live (Dacca) grass in slabs with earth intact including all lead and lifts.	20 Sft	Sft	17.60	352.00
13.10	Code-126 Item # 13	Grassing fine by dribbling grass roots 3" apart including watering, weeding till such time the grass is set and becomes green and is fit for mowing	20 Sft	100 Sft	244.19	48.84
13.11	Code-122 Item # 172	Painting three coats with weather shield paint deluxe (ICI) 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 etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	0 Sft	100 Sft	1,406.88	-
		<b>Amount Carried to Civil Summary</b>				<b>14,943.00</b>
<b>B-NON SCHEDULE ITEMS</b>						
4		<b>DPC &amp; MASONRY WORKS</b>				
4.1	N.S.I	<b>40mm thick Master Thermoshield sheet.</b> Providing & laying in position 1-1/2"(40mm) thick Master Thermoshield sheet or approved equivalent having density 35kg/cum, complete in all respect as per drawing, standard, specifications and direction of the Engineer.		Sft		-

Not Applicable

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
		<b>Amount Carried to Civil Summary</b>				
5		<b>THERMAL &amp; MOISTURE PROTECTION</b>				
5.1	N.S.I	Providing and applying three coats of 2 component flexible polymer modified cementitious waterproof coating AQUAFIN-2C /BASF-Master seal-550/ SIKA top seal -107 or approved equivalent over RCC slabs and walls of any wet area e.g. Baths, Kitchens, Balcony's etc, at any height in any floor as per manufacturer's specifications & recommendations complete in all respects as per drawings, relevant specifications and as directed by the Engineer.				
		First Floor	180 Sft	Sft		
		Second Floor	180 Sft	Sft		
		<b>Amount Carried to Civil Summary</b>				-
6		<b>METAL WORKS</b>				
6.1	N.S.I	MS Screen Providing, fabricating, welding & fixing in position decorative MS screen comprising of MS tube 75mm x 50mm x 2.5mm main outer frame fixed with 50mm x 50mm x 6mm thick MS angle, design pattern with MS tube 100mm x 50mm x 2.5mm as shown on drawing including all required hard ware & arrangement for fixing, providing & applying epoxy paint not less than 300 micron of approved colour & shades as per manufacturer's specification etc, complete in all respect as per drawing, standard, specifications and direction of the Engineer. <b>NOTE: The contractor shall submit shop drawings (without any additional cost) for approval prior to start of work.</b>				
6.2	N.S.I	<b>M.S Staircase Railing</b> Providing, fabricating, welding & fixing in position MS Staircase railing comprising of 50mm dia x 16 Swg MS pipe hand rail, 25mm dia x 16 Swg dia balustrade welded to handrail as shown in the drawing including all required accessories & hardware such as base plate, cap, nuts & bolts etc. fixing arrangement (Drilling & grouting)etc including three coat of approved colour enamel paint over one coat of primer (Paint will be paid in seaprate item, refer BOQ Item) complete in all respects as per drawing, standard, specifications and direction of the Engineer.		Each		-
			80	Rft		
6.3		<b>Aluminium Louvered Window/Shutter</b>				

Not Applicable

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
	N.S.I	Providing, fabricating and fixing of approved coloured anodized aluminum louver window/shutter open able casement using premium quality aluminum sections of Pakistan Cable / or equivalent approved with fixed on Rcc & masonry surface, including all required hardware, pivots heavy duty handles, locks, stays etc.Including silicon sealant to all external junction between structure and windows/Shutter to give water / wind proof seal. Complete in all respect as per drawings, specifications and to the entire satisfaction of the Engineer. (Note: minimum wall thickness for all sections shall be 1.6mm or according to the design) <b>The contractor shall submit shop drawings (without any additional cost) for approval prior to start of work.</b>	110Sft	Sft		
6.4	N.S.I	<b>MS Grill Door</b> Providing, fabricating, welding & fixing in position MS hollow tube folding grill door comprising of 1-1/2" x 3" x 16 Swg hollow tube & solid bar horizontal & vertical & 12 swg Ms sheet on either side as shown on drawing (EA-01012-GGWT-A6-0030), including hold fast (6 No), hinges, L-drop with lock & MS sheet 12 swg, heavy duty wheel up to 3" dia with cover, MS wheel track with 2" x 2" x 1/4" thick " T " iron including 1:2:4 concrete and all required fixing hardware including two coat of red oxide paint and three coat of epoxy paint of approved color & shades as per manufacturer's specification etc. complete in all respects as per drawing, standard, specifications and direction of the Engineer.	180Sft	Sft		
6.5	N.S.I	Monkey Ladder Providing, fabricating, welding, bolting & fixing in position MS Access/Monkey ladder comprising MS Flat steel 2" x 3/8" thick ( Vertical member) weld with 8" x 8" x 3/8" thick steel plate bolt to Rcc slab, 8" x 3" x 3/8" thick steel plate weld to vertical flat and bolted to wall, 3/4" dia solid steel bar welded to flat @ 12" C/C, as shown on drawing, three coat of approved colour enamel paint over one coat of primer (Paint will be paid in separate schedule item, refer BOQ Item # ..... ) etc, including required hardware complete in all respect as per drawing, standard, specifications and direction of the Engineer. <b>The contractor shall submit shop drawings (without any additional cost) for approval prior to start of work.</b>	40 Kg	Kg		
6.6	N.S.I	Providing and fixing Tinted glass panes 6mm thick to wooden door, fixed glazing, windows, ventilators or where required etc including the cost of wooden trim, rubber gasket packing and screw etc., in any floor at any height.	0 Sft	Sft		
6.7	N.S.I	Providing and fixing Anti-Oxidation Aluminum Spacer Bar for Double Glazing Glass up to 10mm wide including silicon sealant bead to door, fixed glazing, windows, ventilators or where required etc. including the cost of rubber gasket packing and screw etc., in any floor at any height.	130 Rft	Rft		

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
		<b>Amount Carried to Civil Summary</b>				
7		<b>WOOD WORKS</b>				
		<b>DOOR SHUTTERS</b>				
7.1	N.S.I	Providing, Making & fixing in position 1-1/2" (38mm) thick solid core approved colour Formica finish flush door shutters with & without vision panel. Comprising of 6mm thick lamination sheet (manufacturer pressed lamination sheet over lasani board) on either side, over all around best quality Partal or approved wood frame 50mm wide horizontal, vertical & cross /diagonal & 150mm wide lock rail in full length, hollow area except framing to be filled with the approved rough wood, 1-1/2" x 1/2" thick Golden teak wood edge lipping all around. The door shutter mechanically pressed by standard manufacturers under power driven hydraulic press as approved by the Engineer, with and without vision glass panel (vision glass panel will be paid seapreatly, in BOQ item # ....) including with and without vision glass panel, nails, glue or any required hardware's and applying solignum for termite treatment, at any height & any floor etc., complete in all respects as per drawing, standard , specifications and direction of the Engineer. <b>(Note: Cost of Ironmongery such as Hinges, Tower bolts, Locks, Handles, kick &amp; push plate etc. paid in Separate item.)</b>	780Sft	Sft		
7.2	N.S.I	Providing, Making & fixing in position Solid Phenolic Core frame less door shutter of approved colour & thickness, equivalent approved manufacturer, including door hardware's such as corner fasteners, Auto return Hinges, Latch, indicator door Locks, Stay, Handle, etc., in any floor & any heifght as shown in drawings, complete in all respect as per drawing, specifications and entire satisfaction of the Engineer				
7.3	N.S.I	Providing, fabricating and fixing Aluminum frame door comprising of 17mm thick water proof laminated board (lamination should be on both side of board) , premium quality aluminum sections Frame of Pakistan Cable/ Krudson or equivalent approved manufacturers fixed on Rcc & masonry surface , fitted in Neoprene Gaskets including all required Hardware (all hardware should be in stainless steel ) hinges, handles, latch,locks, stays etc. Including silicon sealant to all external junction between structure and door to give water/wind proof seal . complete in all respect as per drawing, standard specifications and direction of the Engineer.(Contractor to submit the shop drawing for approval before start of work)		Sft		-
7.4	N.S.I	Providing and fixing in position as per drawings & joinery schedule all of <b>"New ISE" Hong Kong, New Star Japan</b> or approved equivalent make as per relevant drawings, contractor to submit the sample / shop drawings for approval prior to execution etc, complete in all respects as per drawing, standard , specifications and direction of the Engineer.	0 Sft	Sft		-
		S.S Door hinges 4" long	144.Each	Each		
		SS Dead Lock complete set	0.Each	Each		

Not Applicable

Not Applicable

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amout (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
		SS Handle 36 inch long	0.Each	Each		
		SS Handle 12 inch long	0.Each	Each		
		Motorized Door Lock complete set (Lock body, Cylinder	36.Each	Each		
		SS Tower Bolt 24" long	0.Each	Each		
		SS Tower Bolt 8" long	36.Each	Each		
		Stainless Steel Kick plate 3mm thick	0 Sft	Sft		
		Stainless Steel Kick Door Stopper	36.Each	Each		
7.5	N.S.I	<b>Wooden Cabinets</b> Providing making and fixing in position <b>floor mounted lower cabinets</b> (Pantry etc.) as per drawing at any height / floor, made of 3/4" thick coloured laminated (both face) Lasani board shutter free from formaldehyde including all around OAK wood lipping kitchen cabinet, 3" x 1-1/2" thick Partal wood frame, complete with all accessories i.e. imported hinges, locks, magnetic catchers, best quality handles etc., including any termite treatment, providing & applying 03 coats of approved colour shade lacquer polish by Jaffar Brothers or similar approved as per manufacturer's instruction & specification including all required hardware's for fixing etc,complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. <b>(Front face will be measured for payments)</b>	255 Sft	Sft		
7.6	N.S.I	Providing making and fixing in position wall mounted cabinets for (Kitchen/Pantry etc.) as per drawing at any height / floor, made of 3/4" thick colored laminated (both side) Lasani board shutter free from formaldehyde including all around Deodar wood lipping 3/8" thick, 3" x 1-1/2" thick Partal wood frame, 6mm one side laminated Lasani board back complete with all accessories i.e. imported hinges, locks, magnetic catchers, best quality handles etc., including any termite treatment, providing & applying 03 coats of approved colour shade lacquer polish by Jaffar Brothers or similar approved equivalent as per manufacturer's instruction & specification including all required hardware's for fixing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. <b>(Front face will be measured for payments)</b>	150 Sft	Sft		
		<b>Amount Carried to Civil Summary</b>				
8		<b>INTERNAL FLOOR FINISHES</b> Porcelain Tiles				

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
8.1	N.S.I	Providing and laying light colour, glazed/non skid vitrified porcelean tiles 12" x 24" (imported but not made od china/Pak made) on floors, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer in charge..complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. Base price of tile 1800/Sqm.	255 Sft	Sft		-
8.2	N.S.I	Providing, laying and fixing Per-Polished (Boticena) Marble Counter Top of approved thickness as per drawing & finishing schedule activities include 40mm thick RCC slab, 1:4 C.S mortar with Dry Bond, fixing in wall, cutting/chiseling in RCC / CC members etc, jointing, grouting, chamfering edging/half D gola around the counter top, finishing, maintaining proper level with curing etc. where required complete in all respects as per specifications and as directed by the Engineer.		Sft		
8.3	N.S.I	Providing and laying Terrazzo tiles 13" x 12" x 1" thick for Treads with bull nosing & 3nos horizontal V- grooves at any floor including 1:3 screed bedding with mortar including jointing with grouting material of approved quality & grinding, polishing etc (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.		Sft		
8.4	N.S.I	Providing and laying Terrazzo tiles 12" x 6" x 1/2" thick for Risers at any floor including 1:3 screed bedding with mortar including jointing with grouting material of approved quality & grinding, polishing etc (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.	220 Sft	Sft		
8.5	N.S.I	Providing and laying C.C tiles 13" x 12" x 1" thick for Treads with bull nosing & 3nos horizontal V- grooves at any floor including 1:3 screed bedding with mortar including jointing with grouting material of approved quality & grinding, polishing etc (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.		Sft		
8.6	N.S.I	Providing and laying C.C tiles 12" x 6" x 1/2" thick for Risers at any floor including 1:3 screed bedding with mortar including jointing with grouting material of approved quality & grinding, polishing etc (overall thickness as shown in the drawings) complete in all respects, as per drawings, specifications and as directed by the Engineer.		Sft		
8.7	N.S.I	Providing & Laying Natural stone 24" x 12" & 12" x 12", 1" & 1-1/2" thick rough finished approved local stone on entrance steps & floor (straight, curved, arches etc.) with cement sand mortar 1:2 and in any pattern in as per direction of the engineer-in-charge including the cost of curing, making the stone surface rough flat etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	400 Sft	Sft		

Not Applicable



## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
8.8	N.S.I	Providing & Laying Natural stone 24" x 12" & 12" x 6" x 1/2" thick rough finished approved local stone on Floor, wall/ Dado/ Skirting /coping with cement sand mortar 1:2 in ground floor setting of stone tiles in slurry of grey cement over mortar base including filling of joints with cement slurry of matching colour curing etc. complete.	530.Sft	Sft		
		<b>Amount Carried to Civil Summary</b>				-
9		<b>INTERNAL WALL FINISHES</b>				
9.1	N.S.I	Porcelain Tiles Providing and laying light colour, glazed/non skid vitrified porcelan tiles 12" x 24" (Polished), <b>(imported but not made od china/Pak made)</b> on walls, in any floor, laid with dry bond (stile bond) over a base of 1" thick cement mortar (1:3) including jointing to tiles with joint filler of approved quality as per direction of the Engineer in charge..complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. Base price of tile 1800/Sqm		Sft		-
		<b>Amount Carried to Civil Summary</b>				-
10	N.S.I	<b>CEILING FINISHES</b> Providing, fabricating and fixing Gypsum board (4'-0" x 8'-0" x 1/2" (12mm) thick false ceiling including adjustable metal framing suspension system, MS flashgap and required hard wares jointing tap etc, all cutting for light fixtures & other design feature with providing & applying three coat of matte enamel paint of approved make & color shade over one coat of primer coat, filling putty etc complete in all respects as per drawings, relevant specifications and as directed by the Engineer. (Rates for False Ceiling shall include Bulkheads, Light Pelmet etc.)	0	Sft		
		<b>Amount Carried to Civil Summary</b>				
11		<b>ROOF FINISHES &amp; WATER PROOFING</b>				
11.1	N.S.I	<b>Providing &amp; laying complete roof treatment at any floor and any height as shown in the drawing, details consisting of following items complete in all respects as per drawing, standards, specifications and direction of the Engineer.</b> Providing and laying 1" thick average levelling CC screed over Rcc slab for achieving leveled surface with (1:4) cement sand mortar, complete in all respect and as per drawing & specification and to the entire satisfaction of the Engineer.		Cft		-
11.2	N.S.I	Providing and laying in position Water proofing membrane Hi Grip Elastomer SUNTAN PP4000 4mm thick from Pak Hy-Oils limited or approved equivalent over above leveled surface including primer coating, overlapping (horizontal & vertical) complete as per manufacturer's specifications, instruction & as shown in the drawing etc, complete in all respects as per drawings, specification and as directed by the Engineer.		Sft.		

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amount (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
11.3	N.S.I	Providing & laying in position 1-1/2"(40mm) thick Diamond jumbolon-Board from Diamond Foam or approved equivalent having density 35kg/cum, over above Water Proofing membrane with rebated edge as per manufacturer's specifications, instruction & as shown in the drawing etc, complete in all respects as per drawings, specification and as directed by the Engineer.	2750 Sft	Sft.		
11.4	N.S.I	Providing and laying BRC mesh 4" x 4" x 10 swg from Al - Burhan (Pvt) Ltd or approved equivalent including cutting, binding with steel binding wire etc. complete in all respects as per drawings, specifications and as directed by the Engineer.	2750 Sft	Sft.		
		<b>Amount Carried to Civil Summary</b>				
12		<b>EXTERNAL WALL FINISHES (BUILDING)</b>				
12.1	N.S.I	Providing & Laying free fom natural stone wall cladding random stone 1" & 1-1/2" thick rough finished approved local stone on wall (straight, curved, arches etc.) with cement sand mortar 1:2 and in any pattern in as per direction of the engineer in-charge including the cost of curing, making the stone surface smooth etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	1100 Sft	Sft		
12.2	N.S.I	Providing and making screen wall 6" thick (with 2" thick double screen) comprising of 1:2 precast reinforced cement concrete jali 6"x6"x3" (Square shape Jali 3" depth with approved wall thickness, outer size of jali) in grey colour & required shape / Pattern including 1/4" dia steel reinforcement mesh as per design center to center, formworks and its removal, compacting and curing etc. in any floor & any height, complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	350 Sft	Sft		
12.3	N.S.I	<b>Fair Faced Plaster</b> Providing and applying Ressi Plastorend-110 (6mm thick) with sealer Silblock of approved grey & beige colour over rough cast cement sand plaster on external walls, columns or where required including chamfered edges, round off corner, scaffolding, curing etc at any height & any floor etc, complete in all respects as per drawing, specifications and or as directed by the consultant / Engineer. (excluding cost of rough cast plaster)  i) Grey colour ii) Beige colour		Sft Sft		
12.3	N.S.I	<b>LOGO</b> Providing, making, finishing and fixing in position of university LOGO, IMAGE & LETTERING. 10'-0" dia LOGO made of 12 swg MS Sheet with the university symbolic image & letter "UNIVERSITY OF BALTISTAN SKARDU" (In English & Urdu), fixed to walls 3" projected with 1" dia & 6" long steel hilti/rawal bolts including three coats of approved colour enamel paint over a one coat of red oxide primer paint etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer		Each		

Not Applicable

Not Applicable

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Pak Rs.)	Amout (Pak Rs.)
1	2	3	4	5	6	7=4 x 6
		Amount Carried to Civil Summary				

# **ELECTRICAL WORKS**

## BILL OF QUANTITIES

## ELECTRICAL SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	SINGLE PVC INSULATED WIRE IN EXISTING CONDUIT	51,335
2	3 WIRE IN PVC RECESSED CONDUIT	793,350
3	uPVC CONDUIT & DUCT	37,098
4	"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD	69,999
5	BATTEN/ ANGLE HOLDER, CEILING ROSE, BELL/ INDICATORS	5,880
6	FITTING & FIXTURE (PHILIPS/SIGNIFY, OSRAM, GE, THORN)	1,781,760
7	CEILING FANS	224,376
8	PLASTIC BODY EXHAUST FANS	72,360
9	4 CORE LT UN ARMoured CABLE IN EXISTING CONDUIT OR CABLE DUCT	79,110
	<b>Total of Schedule Items</b>	3,115,268
	Add _____% Premium on Electrical Works of PWD-2022	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	CONDUITS & PIPES	
2	L.V DISTRIBUTION BOARDS	
3	LOW VOLTAGE CABLES AND WIRES	
4	WIRING ACCESSORIES	
5	LIGHTING FIXTURES	
6	EARTHING SYSTEM	
	<b>Total of Non-Schedule Items - B</b>	
<b>TOTAL AMOUNT OF BUILDING (A+B)</b>		

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
<b>1</b>	<b>2-26</b>	<b><u>SINGLE PVC INSULATED WIRE IN EXISTING CONDUIT</u></b>				
a)	2-26-05	Supply & drawing of 10 mm <sup>2</sup> , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.	45	P/Meter	457	20,565
b)	2-26-06	Supply & drawing of 16 mm <sup>2</sup> , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.	30	P/Meter	686	20,580
c)	2-26-07	Supply & drawing of 25 mm <sup>2</sup> , single core, PVC insulated wire in all kinds of existing or given conduit/cable duct as required.	10	P/Meter	1,019	10,190
		<b>Amount Carried to Electrical Summary</b>				<b>51,335</b>
<b>2</b>	<b>2-34</b>	<b><u>3 WIRE IN PVC RECESSED CONDUIT</u></b>				
a)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to switch board / Light including wiring between switch on the same circuit)	165	P/Meter	510	84,150
b)	2-34-01	Wiring for sub-main with 3x 1.5 mm <sup>2</sup> , 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 as required. (Light point from switch board to point)	665	P/Meter	363	241,395
c)	2-34-01	Wiring for sub-main with 3x 1.5 mm <sup>2</sup> , 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 as required. (Light point to point)	235	P/Meter	363	85,305
d)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to 13A Outlet)	215	P/Meter	510	109,650
e)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (13A Outlet to 13A Outlet)	145	P/Meter	510	73,950
f)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to 20A DP Switch for Electric Geyser)	95	P/Meter	510	48,450
g)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (20A DP Switch to Flex Outlet for Electric Geyser)	45	P/Meter	510	22,950

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
h)	2-34-02	Wiring for sub-main with 3x 2.5 mm <sup>2</sup> , 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 as required. (DB to 15A Outlet for Electric Heater)	250	P/Meter	510	127,500
		<b>Amount Carried to Electrical Summary</b>				<b>793,350</b>
<b>3</b>	<b>2-61</b>	<b><u>uPVC CONDUIT &amp; DUCT</u></b>				
a)	2-61-03	Supply & fixing 30mm (1-1/4") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	8	P/Meter	241	1,928
b)	2-61-04	Supply & fixing 40mm (1-1/2") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	40	P/Meter	310	12,400
c)	2-61-05	Supply & fixing 50mm (2") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	30	P/Meter	759	22,770
		<b>Amount Carried to Electrical Summary</b>				<b>37,098</b>
<b>4</b>	<b>2-66</b>	<b><u>"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD</u></b>				
a)	2-66-01	Providing & fixing 10 Amps Polycarbonate flame retardant S.P switch with fancy required gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including connection as required. (Schneider / Philips)	14	Each.	471	6,594
b)	2-66-02	Providing & fixing 10 Amps Polycarbonate flame retardant Two way switch with fancy gang plate fixed on die fabricated, powder coated, metal board recessed in wall or column including connection as required. (Schneider / Philips)	1	Each.	531	531
c)	2-66-03	Providing & fixing 10 Amps Polycarbonate flame retardant Bell Push with fancy gang plate fixed on die fabricated, powder coated, metal board recessed in wall or column including connection as required. (Schneider / Philips)	6	Each.	531	3,186
d)	2-66-06	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)	24	Each.	1,290	30,960
e)	2-66-11	Providing & fixing Polycarbonate flame retardant, fan dimmer with plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (Schneider / Philips)	24	Each.	1,197	28,728
		<b>Amount Carried to Electrical Summary</b>				<b>69,999</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
5	2-67	<b><u>BATTEN/ ANGLE HOLDER, CEILING ROSE, BELL/ INDICATORS</u></b>				
a)	2-67-02	Providing & fixing 6 Amps Plastic ceiling rose on PVC Round block/Round Cover fitted on surface including connection as required.	24	Each.	245	5,880
		<b>Amount Carried to Electrical Summary</b>				<b>5,880</b>
6	2-77	<b><u>FITTING &amp; FIXTURE (PHILIPS/SIGNIFY, OSRAM, GE, THORN)</u></b>				
a)	2-77-02	Providing, Installation, Testing & Commissioning of recessed / surface mounted project / professional series ceiling lights / downlights including driver having warm / neutral white / cool white colour, 100-110 lm/watts efficiency, 0.9 or above power factor, 40000-50000 hours life cycle, including connection, complete in all respect as approved by the Engineer Incharge.				
i	e	16-18 Watts	12	Each.	14,650	175,800
ii	f	19-21 Watts	108	Each.	14,870	1,605,960
		<b>Amount Carried to Electrical Summary</b>				<b>1,781,760</b>
7	2-80	<b><u>CEILING FANS</u></b>				
a)	2-80-03	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 Youngs Millat	24	Each.	9,349	224,376
		<b>Amount Carried to Electrical Summary</b>				<b>224,376</b>
8	2-84	<b><u>PLASTIC BODY EXHAUST FANS</u></b>				
a)	2-84-01	Providing & installing 20 Cm (8") sweep, Plastic body Exhaust fan complete with blades, motor, etc fixed in existing hole including connection with 14.0076" flexible wire complete as required. Pak, Royal, GFC, Youngs Millat	24	Each.	3,015	72,360
		<b>Amount Carried to Electrical Summary</b>				<b>72,360</b>
9	3-04	<b><u>4 CORE LT UN ARMoured CABLE IN EXISTING CONDUIT OR CABLE DUCT</u></b>				
a)	3-4-01	Providing & laying 4 core, PVC insulated & PVC sheathed, 600/1000 volts grade with stranded copper conductor, un armoured, L.T cable in existing all kind of conduit or cable duct as per Pak. P.W.D specification as required				
i	a	16 mm2	30	P/Meter	2,637	79,110
		<b>Amount Carried to Electrical Summary</b>				<b>79,110</b>



## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>NON-SCHEDULE ITEMS</b>						
<b>1</b>		<b><u>CONDUITS &amp; PIPES</u></b>				
a)		Supply and installation of following size internal diameter PVC / uPVC Class-D pipe / Flexible PVC Conduit as race ways with all accessories, recessed / surface on wall / column / under floor, as per drawings and specifications, complete in all respect.				
i		50 mm dia PVC Conduit	5	Rm.		
b)		Supply and installation of following size uPVC Pipe Class-D for Power cables, buried in ground / under floor as per specification, including excavation for laying of pipe, bricks and backfilling with new and fresh sand (6" under and 6" above pipe) etc., (wherever required), as shown on the specifications and drawings, complete in all respect.				
i		50mm dia uPVC Pipe (Class-D)	5	Rm.		
c)		Supply and installation of Pull Boxes (Floor / Wall) with all installation accessories, as per drawings, specifications and approved brands, complete in all respect.	1	No.		
d)		Providing and Construction of Handhole Size 1'-0" x 1'-0" x 1'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For Electrical cables)	2	No.		
e)		Providing and Construction of Handhole Size 2'-0" x 2'-0" x 2'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For Electrical cables)	1	No.		
		<b>Amount Carried to Electrical Summary</b>				

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>2</b>		<b><u>L.V. DISTRIBUTION BOARDS</u></b>				
a)		Supply, installation, testing and commissioning of following wall mounting / floor standing surface type Main Distribution Board (MDB), Sub Main Distribution Boards (SMDB's) and Distribution Board (DB's) made with 16 SWG sheet metal, dust protected, vermin proof housing coated with approved color having all the necessary switching, energy analyzer etc., protections, as per drawing and specification, complete in all respect.				
i		SMDB-FS	1	No.		
ii		DB-GF1	1	No.		
iii		DB-GF2	1	No.		
iv		DB-1F1	1	No.		
v		DB-1F2	1	No.		
vi		DB-2F1	1	No.		
vii		DB-2F2	1	No.		
		<b>Amount Carried to Electrical Summary</b>				
<b>3</b>		<b><u>LOW VOLTAGE CABLES AND WIRES</u></b>				
3.1		Supply, laying, termination, tagging, testing and commissioning of following size copper conductor multi core / single core, Cu/PVC, Cu/PVC/PVC, unarmoured, 0.6 kV/1 kV, 450/750V or 300/500V voltage grade copper cable in already laid PVC conduit / cable tray / trench including all accessories lugs, cable gland etc. as per drawings and specification, complete in all respect.				
a)		<b>4 Core, Cu./PVC/PVC Cable (600/1000V)</b>				
i		4C, 10 Sqmm Cu/PVC/PVC	45	Rm.		
		<b>Amount Carried to Electrical Summary</b>				
<b>4</b>		<b><u>WIRING ACCESSORIES</u></b>				
a)		Supply, installation, testing and commissioning of following 10/13/15/20A, One/Two/Three/Four gang type switches, Dimmer Switches, Sockets including 16 SWG Sheet Steel powder coated back boxes with earth terminal, recessed in wall, with all accessories as per drawings and specification, complete in all respects				
i		Two Gang Switch 10A	34	No.		
ii		Two Gang Switch 10A (Weatherproof type)	2	No.		
iii		Three Gang Switch 10A	4	No.		
iv		Three Gang Switch 10A (Weatherproof type)	1	No.		
v		13A, International Switch Socket Outlet	60	No.		
vi		20A, Double Pole Switch with neon indicator	12	No.		
vii		20A, Flex Outlet	12	No.		
		<b>Amount Carried to Electrical Summary</b>				

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>5</b>		<b><u>LIGHTING FIXTURES</u></b>				
a)		Supply, installation, testing and commissioning of following Light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per drawings and specifications, complete in all respects. Lighting fixtures sample must be submitted to consultant for approval. Note: Refer light fixtures drawings for complete light fixtures details.				
i		Wall / Surface mounted LED Bi-Directional Light Fixture (IP-54) with 2x12W LED lamp	25	No.		
b)		Supply and installation of Ding Dong / Musical bell with magnetic, mechanical mechanism in Plastic body with metallic base on wooden block fitted on surface including connection as required.	6	No.		
c)		Supply, installation, testing and commissioning of following items including all connecting accessories as per drawings, specifications, complete in all respects.				
i		Fan Hook M.S.Box with colour coated	24	No.		
		<b>Amount Carried to Electrical Summary</b>				
<b>6</b>		<b><u>EARTHING SYSTEM</u></b>				
a)		Supply, installation, testing and commissioning of following items for complete earthing system including all connecting accessories as per drawings, specifications and as mentioned in General Notes, complete in all respects.				
i		Supply, installation, testing and commissioning of following items for complete Power Earthing system, including Bentonite chemical, other all required materials and connecting accessories, boring, labor, tools, transportation etc., as per drawings and specifications, complete in all respects with detailed test reports. Earth pit with Rod type earth electrode, 3/4" dia and 9 Ft. long copper bonded rod.	1	No.		
		<b>Amount Carried to Electrical Summary</b>				

# **ELV WORKS**

## BILL OF QUANTITIES

## ELV SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A</b>	<b><u>SCHEDULE ITEMS</u></b>	
1	uPVC CONDUIT & DUCT	38,910
2	"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD	13,632
	<b>Total of Schedule Items</b>	52,542
	Add _____% Premium on ELV Works of PWD-2022	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B</b>	<b><u>NON-SCHEDULE ITEMS</u></b>	
1	CONDUITS & PIPES	
2	VOICE COMMUNICATION SYSTEM (Passive Equipment Only)	
3	CABLE TELEVISION SYSTEM (CATV)	
4	SELF CONTAINED EMERGENCY LIGHTS	
	<b>Total of Non-Schedule Items - B</b>	
	<b>TOTAL AMOUNT OF BUILDING (A+B)</b>	

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
1	2-61	<b><u>uPVC CONDUIT &amp; DUCT</u></b>				
a)	2-61-02	Supply & fixing 25mm (1") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	45	P/Meter	190	8,550
b)	2-61-05	Supply & fixing 50mm (2") dia uPVC conduit with all especial such as bends, sockets, Junction etc fitted on surface as required.	40	P/Meter	759	30,360
		<b>Amount Carried to ELV Summary</b>				<b>38,910</b>
2	2-66	<b><u>"SCHNIEDER/PHILIPS" ACCESSORIES ON RECESSED METAL BOARD</u></b>				
a)	2-66-12	Providing & fixing Polycarbonate flame retardant T.V Socket with plate fixed on die fabricated, powder coated, metal board recessed in the wall or column including connection as required. (Schneider / Philips)	12	Each.	1,136	13,632
		<b>Amount Carried to ELV Summary</b>				<b>13,632</b>
<b>NON-SCHEDULE ITEMS</b>						
1		<b><u>CONDUITS &amp; PIPES</u></b>				
a)		Supply and installation of following size internal diameter PVC / uPVC Class-D pipe / Flexible PVC Conduit as race ways with all accessories, recessed / surface on wall / column / under floor, as per drawings and specifications, complete in all respect.				
i		25 mm dia PVC Conduit	200	Rm.		
ii		50 mm dia PVC Conduit	5	Rm.		
iii		25 mm dia Flexible PVC Conduit	5	Rm.		
b)		Supply and installation of following size uPVC Pipe Class-D for Telecommunication Cable (copper / optic fiber). Buried in ground / under floor as per specification, including excavation for laying of pipe, bricks and backfilling with new and fresh sand (6" under and 6" above pipe) etc., (wherever required), as shown on the specifications and drawings, complete in all respect.				
i		50mm dia uPVC Conduit (Class-D)	5	Rm.		
c)		Supply and installation of Pull Boxes (Floor / Wall) with all installation accessories, as per drawings, specifications and approved brands, complete in all respect.	1	No.		
d)		Providing and Construction of Handhole Size 2'-0" x 2'-0" x 2'-0" deep, 6"thick, concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, as per specification and as shown on the drawing, complete in all respect. (For ELV cables)	1	No.		
		<b>Amount Carried to ELV Summary</b>				

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
2		<b><u>VOICE COMMUNICATION SYSTEM (Passive Equipment Only)</u></b>				
a)		Supply, installation, testing and commissioning of Single RJ-45, Cat-6 outlet for Voice with shutter type and 16 SWG back box including tagging, as per drawing and specification. complete in all respect.	12	No.		
b)		Supply, laying, termination, testing and commissioning of CAT 6 - 4 pair cable for Single RJ-45 outlet (for Voice) in already laid 25mm dia PVC conduit concealed / surface from each outlet to TJB, including tagging and piping with all necessary accessories, complete in all respect.	105	Rm.		
c)		Supply, laying, termination, testing and commissioning of Cat-5e, 10 pair cable from MTJB / TJB to TJB in already laid conduit / cable tray including with all the necessary accessories as per drawing and specifications. complete in all respect.	20	Rm.		
d)		Supply, installation, testing and commissioning of CAT-6 UTP (RJ-45 to RJ-45) for the above Patch Panels including with all necessary accessories, as per drawing and specification, complete in all respect.				
i		CAT-6 (2m) Long Patch Cord	12	No.		
e)		Supply, installing, testing and commissioning of following 19" Tag blocks in Data racks, as per drawing and specification, complete in all respect.				
i		MTJB with 2x10 Pair IDC Block 19" type	1	No.		
ii		TJB with 1x10 Pair IDC Block 19" type	6	No.		
f)		Installation, testing and commissioning by Manufacturer Authorized Agent / Dealer and handing over complete Voice & Data System to Owner with Providing Training voice data fuke & OTDR Testing, as build drawing, Rack layouts and certification's Principal, complete equipment's Manual and Warranty Documents to Owners representative.	1	Job.		
		<b>Amount Carried to ELV Summary</b>				

## BILL OF QUANTITIES

S.No	PWD Schedule 2022 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>3</b>		<b><u>CABLE TELEVISION SYSTEM (CATV)</u></b>				
a)		Supply and installation of MTVJB Splitter Box with 1x4 Way Splitter, complete in all respects.	1	No.		
b)		Supply and installation of TVJB Splitter Box with 1x4 Way Splitter, complete in all respects.	6	No.		
c)		Supply and installation of CATV RG-06 Co-axial 75 ohms shielded cable in already laid 25mm dia PVC conduit from box to TV outlet, complete in all respects.	110	Rm.		
		<b>Amount Carried to ELV Summary</b>				
<b>4</b>		<b><u>SELF CONTAINED EMERGENCY LIGHTS</u></b>				
		Supply, installation, testing and commissioning of following items for self contained emergency lights with all fixing accessories, as per drawing and specification, complete in all respect.				
a)		3W, Emergency light with self contained Battery, Ceiling / Wall mounted IP-20 rated, UL 924 Listed, as per specification and drawing, complete in all respect. (non-maintained)	6	No.		
b)		3W, Exit light with self contained Battery, 24m viewing, Directional Pendent, IP-65 rated, UL 924 Listed, as per specification and drawing, complete in all respect. (non-maintained)	6	No.		
		Note: Selection of Exit Light is as per Architect's approval.				
		<b>Amount Carried to ELV Summary</b>				



# **PLUMBING WORKS**

## BILL OF QUANTITIES

## PLUMBING SUMMARY

S.NO:	DESCRIPTION	AMOUNT
<b>A <u>SCHEDULE ITEMS</u></b>		
1	MAN HOLES	155,259
2	u.P.V.C PIPE (EXTERNAL) "D" CLASS	178,178
	<b>Total of Schedule Items</b>	333,437
	Add _____% Premium on Plumbing Works of PWD-2012	
	<b>Total of Schedule Items with Premium - A</b>	
<b>B <u>NON-SCHEDULE ITEMS</u></b>		
1	PLUMBING FIXTURES	
2	WATER SUPPLY WORKS	
3	DRAINAGE WORKS	
4	FIRE FIGHTING WORKS	
	<b>Total of Non-Schedule Items - B</b>	
<b>TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B)</b>		

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1	2	3	4	5	6	7 = 4 X 6
<b>SCHEDULE ITEMS</b>						
1		<b><u>MAN HOLES:</u></b>				
	315 -15 / Pg:82	Providing manhole type 'B' size 3 feet x 2-1/2 feet (914 mm x 762 mm) (inside dimensions) 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 (1.22m to 2.66 m) depth with 18 inches (457 mm) dia. (inside) cast iron cover and frame (weight=1 cwt. 3 Qrs.) (88.90 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.	8	Nos	19,407.41	155,259
	313 -5 / Pg:73	Excavation in all kinds of soil, murum, hard, average or soft including lift up to 5 feet (1.52m) and lead upto one chain (30.48m)	504	CFT	599.70	3,022
	315 -26 / Pg:84	providing & fixing C.I. Cover & Frame 18" dia (460mm) weight 1 cwt. 3 Qtr (88.90 Kg.)	8	Nos	8,769.90	70,159
2		<b><u>U.P.V.C PIPE (EXTERNAL) "D" CLASS:</u></b>				
	306 - 21 / Pg: 57	Providing and fixing un plasticized polyvinyl chloride pipe (P.V.C) "D" class and specials etc. including cutting and fitting complete with and including the cost of cutting trench up to 1-1/2 feet deep refilling, watering, ramming, and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 km.) (working pressure 12 kg/cm <sup>2</sup> ) 1-1/4 inches (32 mm) dia.				
	306 - 27 / Pg: 57	6" inches (150 mm) dia pipe	350	Rft	509.08	178,178
		<b>Amount Carried to Plumbing Summary</b>				<b>406,619</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
<b>NON-SCHEDULE ITEMS</b>						
		<b><u>PLUMBING FIXTURES:</u></b>				
1		Providing and fixing European type water closet with (one piece) dual flush Tank with 6.0 liters main flush tank and 3 liters secondary flush tank, build in S/P-Trap , Stop cock with flexible pipe as specified by architect in Fixture schedule, per drawings, specifications and Engineers Approval.	-	Nos		
2		Providing and fixing Eastern water closet with 6 liters main flush tank, build in S-Trap, Stop cock with Drain pipe till flush tank as per drawings, specifications and Enaineers Approval.	12	Nos		
3		Providing and fixing wash basin with mixer having flow of 6.0 lpm or less with two (2) nos. Stop cocks, Flexible Connection , flexible drain pipe to floor drain as specified by architect in Fixture schedule, per drawings, specifications and Engineers Approval.	12	Nos		
4		Providing and fixing of kitchen/Pantry Sink with mixer, waste trap, Stop cocks with flexible pipes, Flexible drain pipe as per drawings , specifications and enaineers approval.	12	Nos		
5		Providing and fixing of Shower head with shower mixer having maximum flow of 9.5 lpm, as specified by architect in Fixture schedule, per drawings, specifications and Engineers Approval.	12	Nos		
6		Providing and fixing bath toilet accessories as under:				
a		Toilet Paper Holder	12	Nos		
b		Hand Spray / Muslim shower	12	Nos		
c		Liquid Soap Dispenser/ Soap dish	12	Nos		
d		WC Cleaning Brush	12	Nos		
e		Robe Hooks	12	Nos		
f		Towel Railing	12	Nos		
		<b>Sub Total of Plumbing Fixtures</b>				

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1		<b><u>WATER SUPPLY:</u></b> <b><u>COLD &amp; HOT WATER PIPING:</u></b> Supply, installation, testing and Commissioning of PPR PN - 20 Cold/Hot water pipes as per DIN 8077-8078 with molded fittings PN - 25 as per DIN 16962, including pipe supports, cutting, filling, testing/commissioning and all accessories as indicated on the drawing, as per specifications and Engineers approval.				
i		3/4" dia	530	Rft		
ii		1" dia	150	Rft		
iii		1 1/4" dia	220	Rft		
iv		1 1/2" dia	180	Rft		
v		2" dia	170	Rft		
2		<b><u>ISOLATION VALVES:</u></b> Providing and fixing of PPR Coated PN-20 Gate valves of bronze material for diameter 2" and smaller and Cast Iron material for Diameter greater than 2" as per specifications and Engineers approval.				
i		3/4" dia	2	Nos		
ii		1" dia	8	Nos		
iii		1 1/4" dia	2	Nos		
iv		1 1/2" dia	4	Nos		
v		2" dia	2	Nos		
3		<b><u>PLUMBING SPECIALITIES:</u></b> Supply and installation of the following including all fittings, fixings, accessories, etc., as indicated on the drawing, as per Specifications and Engineers approval.				
i		1/2" dia. Bib Tap	4	Nos.		
ii		1" Air Relief Valve		Nos.		
4		<b><u>COLD &amp; HOT WATER PIPE INSULATION:</u></b> Supply, installation, testing and Commissioning of 20mm thick closed cell rubber foam inculation (NBR) for cold & hot water piping, as per specifications and Engineers approval.				
i		3/4" dia	530	Rft		
ii		1" dia	150	Rft		
iii		1 1/4" dia	220	Rft		
iv		1 1/2" dia	180	Rft		
v		2" dia	170	Rft		
		Continued..				

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
5		<b><u>WATER COOLER:</u></b> Supply and installation of Stainless Steel Electric water cooler of below mentioned capacity with two taps, R-22 Refrigeration system, S.Steel Tank safety tested at 10kg/cm <sup>2</sup> (142 p.s.i.) with recommended maximum working pressure of 3kg/cm <sup>2</sup> (42 p.s.i.) including all accessories like Valves, interconnecting piping, Drain tray and drain connection s as indicated in the drawings, as per specifications and engineers approval.  i WC - 01 to 06 ( Capacity 32 GPH )	-	Nos		
6		<b><u>3 STAGE WATER FILTER:</u></b> Supply and installation of 3 stage filter having 5 Microns Pre Filter, Active Carbon Filter and UV Water filter having minimum flow rate of 200 Gallons per Day to be installed with Water cooler , including valves, piping, accessories, etc., as per specifications and Engineers approval.	-	Nos		
7		<b><u>CEILING HUNG ELECTRIC HEATER:</u></b> Providing and fixing of ceiling hung Electric Hot water heater with all accessories like Clamps, isolation valves, Air relief valves as indicated in the drawings, as per specifications and engineers approval.				
i		EWH - ( Capacity 50 litre)	12	Nos		
ii		EWH - ( Capacity 80 litre)	-	Nos		
iii		EWH - ( Capacity 100 litre)	-	Nos		
		<b>Continued..</b>				

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## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
1		<b><u>DRAINAGE WORKS:</u></b> <b><u>SOIL, WASTE &amp; VENT PIPING:</u></b> Providing and fixing, uPVC pipes and fittings as per BS EN 1329 for above ground installations for Soil, Waste, Vent pipes with Kite mark on pipes and fittings including cleanout plug, clamps, hanger collars, supports, specials (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval.				
i		2" dia	120	Rft		
ii		3" dia	300	Rft		
iii		4" dia	180	Rft		
2		<b><u>DRAINAGE SPECIALITIES:</u></b> Providing and fixing of Multi floor trap with multiple dia inlet and Single outlet and cleanout plug of the approved self cleaning design with S.Steel grating as specified by the architect, as indicated on the drawing, as per specifications, architectural finishing schedule and Engineers approval. Providing and fixing UPVC cowl for vent pipe of the following dia including all accessories complete in all respects.	12	Nos		
i		2" dia	-	Nos		
ii		3" dia	6	Nos		
iii		4" dia	6	Nos		
		Continued..				



## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	DESCRIPTION	QTY	UNIT	RATE (Pak Rs.)	AMOUNT (Pak Rs.)
3		<b><u>GULLY TRAPS:</u></b> Construction of 12" x 12" gully trap with 8" P- trap and 12" x 12" cover (min Weight =45 kg) as specified and shown on the drawing, as per specifications and Engineers approval.	6	Nos		
		<i>Sub Total of Drainage Works</i>				

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