



Sindh Madressatul Islam University

Development of Sindh Madressatul Islam University (smiu) Campus at Education City Malir, Karachi (Lot#2, Admin. Block & Common Facilities, Lot#3 Male Female Hostel and Lot#5-A Partly, Grading & Road Earth Work)



Issued to: M/s Sherjhan Masakhail & Sons

Issued on: 06-03-2019

Tender Document

**Volume-III
Bill of Quantities**

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Project Coordinator
SMI, University (Malir Campus),
Karachi.



EA Consulting Pvt Ltd

ARCHITECTURE | ENGINEERING | PROJECT MANAGEMENT
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18/03/19

LOT-2



S.No	Description	Amount (Rs.)
1	LOT-2	278,935,342 278,965,162.97/-
2	LOT-3	220,492,772 218,464,878.35/-
3	LOT-5A	226,723,406.66/-
TOTAL COST		520,102,381.98/- 522,100,454




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LOT SUMMARY

S.No	Description	Amount (Rs.)
1	Admin Block	109,727,727/- 109,725,928/-
2	Common Facilities	
	2a - Cafeteria	12,254,123/- 12,254,121/-
	2b - Library	94,928,698/- 94,897,040/-
	3b - Student Welfare Center	62,056,454/- 62,056,414/-
		
		
		
TOTAL COST OF LOT-2		278,965,163/- 278,935,342/-



GRAND SUMMARY

1-ADMIN BLOCK



S.No	Description	Amount (Rs.)
A	PRELIMINARIES & GENERAL REQUIREMENTS	<i>Included in Permanent works</i>
B	PERMENANT Works	
1	CIVIL WORKS	92481294 ✓
2	ELECTRICAL WORKS	6574213/- ✓ 6576013
3	ELV WORKS	2964185 ✓
4	PLUMBING WORKS	7706235 ✓
TOTAL AMOUNT CARRIED TO MASTER SUMMARY		109,725,928/- 109727727

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CIVIL WORKS




S.No	Description	Amount (Rs.)
A SCHEDULE ITEM		
1	EARTH WORKS	901,991
2	SUB STRUCTURE	14,765,644
3	SUPER STRUCTURE	30,321,322
4	MASONRY WORKS	4,317,281
5	THERMAL & MOISTURE PROTECTION	518,257
6	METAL WORKS	3,366,576
7	WOOD WORKS	2,154,933
8	FLOOR FINISHES	4,303,195
9	WALL FINISHES	5,495,327
10	CEILING FINISHES	1,100,480
11	EXTERNAL FINISHES (BUILDING)	3,093,404
12	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	206,144
	Total of Schedule Items	70,544,554
	Add 18.20% Premium on Civil Works of PWD-2012	
	Total of Schedule Items With Premium - A	83806930
B NON-SCHEDULE ITEM		
1	EARTH WORKS	
2	SUB STRUCTURE	495064 ✓
3	SUPER STRUCTURE	-
4	MASONRY WORKS	-
5	THERMAL & MOISTURE PROTECTION	-
6	METAL WORKS	-
7	WOOD WORKS	2,739,450 ✓
8	FLOOR FINISHES	3493650
9	WALL FINISHES	754200 ✓
10	CEILING FINISHES	-
11	EXTERNAL FINISHES (BUILDING)	3750700 ✓
12	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	934950 ✓
	Total of Non-Schedule Items - B	8674364 ✓
	TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B)	92481294 ✓


BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
SCHEDULE ITEMS						
1		EARTH WORKS				
1.1	Code -103, Item # 2	Excavation for foundations trenches, drains, underground tanks and septic tanks in gravelly soil (medium dense to very dense fine to coarse grained sandy gravel) and back filling the excavated material in foundation, 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 up to one chain (30.5 R.m) and lift up to 5 feet (1.52 m) etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer. From ± 0'-0" to -5' - 0"	46883 Cft	100 Cft	613.14	287,458
1.2	Code -104 Item #8	Supplying earth from approved outside sources within a radius of 5 miles (8 km) including digging, loading and unloading and filling in foundations trenches plinth or under floor, etc. including breaking clods, dressing, watering and 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 (1.52mm) etc. complete, including all lifts etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	14203 Cft	100 Cft	2,467.50	350,459
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 spaws and chips and consolidating etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	8122 Cft	100 Cft	3,251.34	264,074
						
Total Carried to Summary						901,991


BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
2		SUB STRUCTURE <i>Note: All RCC Concrete will be used only Ready mixed.</i>				
2.1	Code-106	CONCRETE WORKS Providing and laying in situ 1:4:8 (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, silu, walls, tanks, over stone soiling or where required (Cylindrical 1000 Psi)	9448 CH	100 CH	14,411.43	1,361,592
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)	1379 CH	100 CH	15,840.97	218,447
2.3	Code-114	REINFORCED CONCRETE WORKS 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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in columns footing of required shape with columns and pillars, of any 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+136	Foundation for any type (Cylindrical Strength 2500 Psi)	20790 CH	100 CH	17,514.88	3,641,344
						
Total Carried to Collection						5,221,383

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
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 4500 lbs. per sq. inch (31.04 N/mm ² at 28 days) 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 4000 Psi)	1484 Cft	100 Cft	26,704.50	396,295
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 4500 lbs. per sq. inch (31.04 N/mm ² at 28 days) 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/Shear Wall upto plinth (Cylindrical Strength 4000 Psi)	101 Cft	100 Cft	27,958.39	28,238
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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 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+136	Plinth Beams w/c ribs / projections (Cylindrical Strength 2500 Psi)	3277 Cft	100 Cft	18,172.93	595,527
						
Total Carried to Collection						1,020,060

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
2.7	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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in foundation or bottom slab of rectangular underground water tank or septic tank 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 # 99+136	UGWTank Bottom Slab (Cylindrical Strength 2500 Psi)	334 Cft	100 Cft	15,182.84	50,711
2.8	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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in top slab of rectangular underground water tank or septic tank 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 # 104+136	UGWTank Top Slab (Cylindrical Strength 2500 Psi)	84 Cft	100 Cft	20,471.59	17,196
2.9	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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in walls of rectangular underground water tank or septic tank 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 # 101+136	UGWTank Walls (Cylindrical Strength 2500 Psi)	87 Cft	100 Cft	20,782.39	18,081
						
Total Carried to Collection						85,988

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
2.10	Code -114 Item # 166	Providing and laying hard grade ribbed deformed (minimum yield point 60,000 psi or 414 Mpa) reinforcement bars with 8 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. <i>(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).</i>	66534 Kg	Kg	123.02	8,185,013
2.11	Code -124 Item # 93	Providing and fixing plain polyvinyl chloride (PVC) water stops 12" (305 mm) wide in vertical or horizontal expansion joints including cutting and joining complete in all floors etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	41 Rft	Rft	500.16	20,507
2.12	Code -108 Item # 12	Providing a coat of bitumen emulsion at 10 lbs. per sq ft, (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.	35905 Sft	100 Sft	648.08	232,693
Total Carried to Collection						8,438,213
COLLECTION						
Page No -2						5,221,383
Page No -3						1,020,060
Page No -4						85,988
Total from this Page						8,438,213
Total Carried to Summary						14,765,644

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
NON-SCHEDULE ITEMS						
SUB STRUCTURE						
TERMITE PROOFING						
2.13		Termite control treatment of sub grade soil, excavated surfaces and fill material with HEPTACHLOR emulsifiable to 0.5% with clean water or AGENDA 25 EC containing FIPRONIL or BIFLEX with Bifenthrin or DURSBIN or TENEKIL PLUS or MIRAGE ALI AKBER GROUP or approved equivalent as per manufacturer's specifications and instructions. 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 & vertical surfaces of the excavation for termite proofing)</i>	26056 Sft	Sft	19	495064
Total Carried to Summary						495064

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BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
		SUPER STRUCTURE				
		Note: All RCC Concrete will be used only Ready mixed.				
		REINFORCED CONCRETE WORKS				
3.1	Code -114 Item # 4+135+138	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/mm ² at 28 days) 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 (Cylindrical Strength 4000 Psi)				
	Item # 24+135+138	Ground Floor	4983 Cft	100 Cft	30,389.36	1,514,302
	Item # 24+135+138+92	First Floor	3429 Cft	100 Cft	31,338.56	1,074,599
	Item # 24+135+138+ 92+93	Second Floor	3614 Cft	100 Cft	32,090.01	1,159,733
	Item # 24+135+138+ 92+93+93	Roof	433 Cft	100 Cft	32,841.46	142,204
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 4500 lbs. per sq. inch (31.04 N/mm ² at 28 days) 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.				
		RCC Wall / Shear Wall (Cylindrical Strength 4000 Psi)				
	Item # 30+135+138	Ground Floor	387 Cft	100 Cft	28,692.59	111,040
	Item # 30+135+138+92	First Floor	387 Cft	100 Cft	29,641.79	114,714
	Item # 30+135+138+ 92+93	Second Floor	438 Cft	100 Cft	30,393.24	133,122
Total Carried to Collection						4,249,714

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) 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.				
		Beams /Arches/ purdi / bracing / lintels / ribs / sills / coping / parapet wall /bands/around opening and projections (Cylindrical Strength 2500 Psi)				
	Item # 38+136	Ground Floor	2189 Cft	100 Cft	20,668.60	452,436
	Item # 38+136+92	First Floor	2964 Cft	100 Cft	21,617.80	640,752
	Item # 38+136+92+93	Second Floor	1892 Cft	100 Cft	22,369.25	423,226
	Item # 38+136+92+93+93	Roof	219 Cft	100 Cft	23,120.70	50,634
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 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 and ground floor etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
		Slab i/c projections (Cylindrical Strength 2500 Psi)				
	Item # 57+136	Ground Floor	6869 Cft	100 Cft	19,520.67	1,340,875
	Item # 57+136+92	First Floor	7510 Cft	100 Cft	20,469.87	1,537,287
	Item # 57+136+92+93	Second Floor	5558 Cft	100 Cft	21,221.32	1,179,481
	Item # 57+136+92+93+93	Roof	133 Cft	100 Cft	21,972.77	29,224
Total Carried to Collection						5,653,915

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unif (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 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.				
		Stair Case / steps /seats (Steps, Landing & Waist slab) (Cylindrical Strength 2500 Psi)				
	Item # 50+136	Ground Floor	1102 Cft	100 Cft	25,989.63	286,406
	Item # 50+136+92	First Floor	348 Cft	100 Cft	26,938.63	93,747
	Item # 50+136+92+93	Second Floor	121 Cft	100 Cft	27,690.28	33,505
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 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+136+(127x2)	OH Water Tank Bottom Slab (Cylindrical Strength 2500 Psi)	101 Cft	100 Cft	26,609.81	26,876
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 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+136+(127x2)	OH Water Tank Walls (Cylindrical Strength 2500 Psi)	207 Cft	100 Cft	27,185.58	56,274
Total Carried to Collection						496,808

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 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.				
3.9	Item # 118+136+(127x2), Code -114	OH Water Tank: Top Slab (Cylindrical Strength 2500 Psi) 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. <i>(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).</i>	64 Cft	100 Cft	24,213.37	15,497
	Item # 166	Ground Floor	59114 Kg	Kg	123.02	7,272,204
	Item # 166+174	First Floor	52248 Kg	Kg	124.47	6,503,309
	Item # 166+174+175	Second Floor	43699 Kg	Kg	125.92	5,502,578
	Item # 166+174+175 +175	Roof	4925 Kg	Kg	127.37	627,297
Total Carried to Collection						19,920,885
		COLLECTION				
		Page No -7				4,249,714
		Page No -8				5,653,915
		Page No -9				496,808
		Total from this Page				19,920,885
Total Carried to Summary						30,321,322

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
4		DPC & MASONRY WORKS				
4.1	Item # 3 Code -108 Page # 47	Damp Proof Course (DPC) Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded screened bajri 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	1116 Sft	100 Sft	2,659.79	29,683
4.2	Item # 5 Code -108 Page # 47	Extra for using water proofing agent pudlo in item No. 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.	29 Kg	Kg	86.10	2,497
4.3	Code-111 Page # 87 & 82	Block Masonry (Hollow & Solids) Providing and laying 1:3:6 cement concrete hollow block masonry of any thickness using graded screened bajri 1/2 inch (13 mm) and down gauge set in cement mortar 1:4 including scaffolding, raking, out joints and curing etc. complete in basement and ground floor superstructure.				
	Item # 1+12+18+19	Ground Floor	4720 Cft	100 Cft	13,779.44	650,390
	Item # 1+9+12+18+19	First Floor	2890 Cft	100 Cft	14,338.43	414,381
	Item # 1+9+10+12+18+19	Second Floor	3205 Cft	100 Cft	14,722.11	471,844
	Item # 1+9+10+10+12+18+19	Roof	587 Cft	100 Cft	15,105.79	88,671
4.4	Code-110 Page # 77, 80, 81 & 82	Providing and laying 1:3:6 machine made standard size 6"x8"x12" & 6"x8"x12" cement concrete solid block masonry 4 to 6 inches (102 mm to 152 mm) thick using graded screened bajri 3/4 inch (19 mm) and down gauge set in cement mortar 1:4 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.				
	Item #44+92+100	Ground Floor	5722 Cft	100 Cft	15,933.28	911,702
	Item # 44+92+100+70	First Floor	4790 Cft	100 Cft	16,757.05	802,663
	Item # 34+92+100+70+71	Second Floor	4660 Cft	100 Cft	16,379.03	772,583
	Item # 44+92+100+70+71+71	Roof	330 Cft	100 Cft	18,116.01	59,783
4.5	Code-110 Page # 76, 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 in steps, stairs of approved design using graded screened bajri 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.				
	Item # 34+92+75+68	FOR BLOCK MASONRY STEPS	645 Cft	100 Cft	17,532.37	113,084
Total Carried to Summary						4,317,281

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
5		THERMAL & MOISTURE PROTECTION				
5.1	Code-108 Item # 25 Page # 49	Providing and laying 1:9 cement concrete using screened graded bag 3/4 inch (19 mm) and down gauge in terracing 3 inches (76 mm) average thickness to required slope in panels including form work, consolidation, finishing, curing etc. and painting the surface with plastic bitumen No. 4 at the rate of 15 lbs per hundred square feet (0.73 Kg per s.m) blinded with sand at the rate of 2 cubic feet per hundred square feet (0.05 Kg per s.m) complete on ground floor roof. Second Floor & Above	14313.5ft	100 Sft	3,620.88	518,257
Total Carried to Summary						518,257
4		METAL WORKS				
6.1	Code-119 Item # 43 Page # 240	M.S. / G.I Door frame 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 of works to the satisfaction of the Engineer.	2400 Rft	Rft	157.12	377,088
6.2	Code-122 Item #159 Page # 333	Painting iron work with synthetic enamel paint 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.	2400 Sft	100 Sft	2,776.62	66,639
6.3	Code-119 Item #69 Page # 244	Providing and fixing double glazed Bronze anodized or Powder Coated aluminium Sliding/openable windows as per British standard manufactured by Lucky, Alcop, Krucon, Pakistan Cables and A.C.P. (fixing through their approved fabricators), Executive model section double or single glazed 101mm x 37mm and 2mm thick including the cost of aluminium netting, fitting, 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 panes.	1687 Sft	Sft	683.72	1,153,436





BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
6.4	Code-119 Item #60 Page # 242	Providing and fixing fully glazed Bronz anodized or powder coated aluminium fixed windows Partition as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 101.76mm x 44.50mm and 2mm thick including the cost of aluminium 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 panes.	3591 Sft	Sft	330.23	1,185,856
6.5	Code-119 Item #119 Page # 254	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.	5278 Sft	Sft	88.91	467,267
6.6	Code-119 Item #53 Page # 242	Providing and fixing G.I. pipe railing of 2" (50 mm) diameter, comprising, vertical posts and horizontal bracing of G.I. pipe of the same dia as per design including cost of specials, bends, threading, cutting and making good the floor or wall of any kind in cement concrete 1:2:4 etc. complete in any floor.	305 Rft	Rft	374.72	114,290
Total Carried to Summary						3,366,576
7		WOOD WORKS				
7.1	Code-120 Item # 2 Page # 259	Door frame Providing and fixing best quality deodar frames for doors, windows, ventilators, clerestory windows, shelves, partitions, trellis work, etc., as required. G.Floor F.Floor S.Floor & Roof	0 Cft 0 Cft 0 Cft	Cft Cft Cft	4,595.14 4,595.14 4,595.14	- - -
7.2	Code-120 Item # 63 Page # 265	Door Shutter Providing and fixing 1-1/2 inches (38 mm) thick pressed veneered door shutters fully flushed with commercial ply wood veneering on all faces and sides fixed over deodar wood cavities core and frame work of not less than 4 inches (102 mm) wide strip around with approved brass hinges and tower bolts etc., as required. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	3019 Sft	Sft	655.18	1,977,988
7.3	Code-122 Item # 189 Page # 336	Polish & Paint Providing & Applying French or spirit polishing, two coat of approved make on wood work at any height in any floor. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. For Door Frame.	7158 Sft	100 Sft	1,878.96	134,496
7.4	Code-119 Item # 119 Page # 254	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 Door Shutter	392 Sft	Sft	88.91	34,853
7.5	Code-120 Item # 182 Page # 279	Providing and fixing 2 inches (51 mm) thick best quality deodar wood partition fully glazed with glass panes 24 oz. (7.34 kg/3M.) deodar wood beading with puffy packing to glasses etc., as required.	19 Sft	Sft	408.77	7,596
Total Carried to Summary						2,154,933

Lot # 2
BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
8		FLOOR FINISHES				
B.1	Code-117	Mosaic Tiles Providing and laying 1 inch (25 mm) thick floor of mosaic marble chips tiles 12" X 12" X 1" (1/2 inch lopping 1/2" base) or 305 mm X 305 mm X 25 mm (13 mm lopping, 1/2 mm base) in white cement with approved marble chips in ground floor over 1" (25 mm) lime mortar 1:2 (one lime two sand) including setting the tiles with grey cement slurry over lime mortar, Jointing and washing the tiles with cement slurry of matching colour including grinding, rubbing, polishing and curing etc. Complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 79 Page# 199	Ground Floor	14238 Sft	100 Sft	12,237.02	1,742,307
	Item # 79+94 Page# 199 & 201	First Floor	8714 Sft	100 Sft	12,432.15	1,083,338
	Item # 79+94+95 Page# 199 & 201	Second Floor	9515 Sft	100 Sft	12,564.84	1,195,545
B.2	Code-117 Item # 159 Page# 209	Porcelain Tiles Providing and laying light colour, glazed/non skid vitrified porcelain 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 in charge..complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 159 Page# 209	G.Floor	545 Sft	100 Sft	17,882.39	97,459
	Item # 159 Page# 209	First Floor	578 Sft	100 Sft	17,882.39	103,360
	Item # 159 Page# 209	Second Floor	454 Sft	100 Sft	17,882.39	81,186
Total Carried to Summary						4,303,195
9		WALL FINISHES				
9.1	Code-122	Internal Wall Plaster 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.				
	Item # 6 Page # 320	Ground Floor	35065 Sft	100 Sft	1,730.74	606,884
	Item # 6+87 Page # 320 & 327	First Floor	24186 Sft	100 Sft	1,884.61	455,812
	Item # 6+87+90 Page # 320, 327 & 328	Second Floor	30800 Sft	100 Sft	2,015.07	620,642
	Item # 6+87+90+90 Page # 320, 327 & 328	Roof	1472 Sft	100 Sft	2,145.53	31,582

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
9.2	Code-117 Item # 159 Page# 209	Dado & Skirting Providing and laying light colour, glazed/non skid vitrified porcelain tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stille 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.				
	Item # 159 Page# 209	G.Floor	1472 Sft	100 Sft	17,882.39	263,229
	Item # 159 Page# 209	First Floor	1220 Sft	100 Sft	17,882.39	218,165
	Item # 159 Page# 209	Second Floor	1220 Sft	100 Sft	17,882.39	218,165
9.3	Code-118 Item # 55 + 58 Page# 219	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 dado and skirting 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 sury of grey cement over mortar base including filing of joints and washing the tiles with cement sury of matching colour curing, grinding, rubbing and polishing etc. complete.				
	Code-118 Item # 55 + 58 Page# 219	G.Floor	1375 Sft	100 Sft	14,274.50	196,274
	Code-118 Item # 55 + 58+60 Page# 219	F.Floor	1073 Sft	100 Sft	14,567.19	156,306
	Code-118 Item # 55 + 58+60+61 Page# 219	S.Floor	1084 Sft	100 Sft	14,813.05	160,573
9.4	Code-122	Puddle 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	495 Sft	100 Sft	2,367.12	11,717
	Item # 8+88	O.H.W.T Plaster	325 Sft	100 Sft	2,572.28	8,360
9.5	Code-122	Providing and mixing water proofing agent puddle in cement mortar of any description in any floor etc.. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 30	U.G.W.T	14 Kg	Kg	86.15	1,206
	Item # 30	O.H.W.T	9 Kg	Kg	86.15	775
9.6	Code-122 Item # 162	Painting with (ICI) Deluxe plastic emulsion paint VP of approved shade two coats over and including the cost of one priming coat complete over plastered surface of any height in any floor.	92836 Sft	100 Sft	2,742.00	2,545,637
Total Carried to Summary						5,495,327.00


BILL OF QUANTITIES


S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
10		CEILING FINISHES				
10.1	Code-122	Internal Ceiling Plaster 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.				
	Item # 6 Page # 320	Ground Floor	14372 Sft	100 Sft	1,730.74	248,742
	Item # 6+87 Page # 320 & 327	First Floor	9135 Sft	100 Sft	1,884.61	172,159
	Item # 6+87+90 Page # 320, 327 & 328	Second Floor	9237 Sft	100 Sft	2,015.07	186,132
	6+87+90+90 Page # 320, 327	Roof	673 Sft	100 Sft	2,145.53	15,730
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.	33253 Sft	100 Sft	1,063.54	350,334
10.3	Code-124 Item # 182 Page # 361	Providing and fixing Gypsum board 2' x 2' x 12mm flat ceiling including Aluminum T & L angle 1" x 1" i.e hanger clips jointing clips and G.I Wire etc. complete as required in any floor.	1000 Sft	Sft	71.69	71,690
10.4	Code-124 Item # 183 Page # 361	Providing and fixing mineral fiber tiles 2' x 2' x 12mm ceiling including T & L angle hanger clips jointing clips and G.I Wire etc. complete as required in any floor.	680 Sft	Sft	77.49	52,693
Total Carried to Summary						1,100,480
11		EXTERNAL FINISHES				
11.1	Code-122	External 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 Page # 320	Ground Floor	15806 Sft	100 Sft	2,367.12	374,142
	Item # 8+88 Page # 320 & 327	First Floor	6215 Sft	100 Sft	2,572.28	159,854
	Item # 8+88+91 Page # 320, 327 & 328	Second Floor	7045 Sft	100 Sft	2,746.22	193,477
	Item # 8+88+91+91 Page # 320, 327	Roof	6653 Sft	100 Sft	2,920.16	194,272
11.2	Code-122 Item # 83 Page # 327	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. 11.1	8249 Sft	100 Sft	518.48	42,767
11.3	Code-122	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				
	Item # 172	Ground Floor to Roof	4153 Sft	100 Sft	1,406.88	58,422

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
11.4	Code-122	Providing and applying colour Crete 1/4" (6.4 mm) 1:1:2 (1 white cement mixed with pigment, 1 marble powder and 2 marble chips zero No.) with horizontal & vertical joints or Grooves including dragging the surface with wire brush complete with curing etc., over base of 3/4" (19 mm) thick cement plaster 1:3 in plinth, mezzanine and ground floor including chiseling the surface to give texture of stone including the cost of base course etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 79+82+83 Page # 326 & 327	Ground Floor	11995 Sft	100 Sft	8,043.11	964,771
	Item # 79+82+83+88	First Floor	4108 Sft	100 Sft	8,248.27	338,839
	Item # 79+82+83+88+91 Page # 326 & 327	Second Floor	6491 Sft	100 Sft	8,422.21	546,686
	Item # 79+82+83+88+91+91	Above Second floor & Roof	2000 Sft	100 Sft	8,596.15	171,923
11.5	Item # 88 Page # 149 & 150	Providing and fixing 1:2 precast reinforced or plain cement concrete jali or louvers up to 2 inches (51 mm) thick in required shape including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in ground floor (no deduction for holes shall be made)				
	Item # 88	Ground Floor	20 Cft	100 Cft	33,815.30	6,763
	Item # 88+94	First Floor	20 Cft	100 Cft	34,478.61	6,896
	Item # 88+94+95	Second Floor	20 Cft	100 Cft	34,995.59	6,999
	Item # 180 Page # 361	Providing and laying Khapral tiles C.C 1:2:4; in different design laid on sloppy slab & shades laid in cement mortar 1:2 in joints and using etc. as per directions of the Engineer incharge.	925 Sft	Sft	29.83	27,593
Total Carried to Summary						3,093,404
12		EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)				
12.1	Code-117	C.C 1:2:4 Floor				
	Item # 7 Code-117 Item # 158 Page# 205	Providing and laying floors of 3 inches (76 mm) thick 1:2:4 cement concrete using graded screened bajri 3/4 inch (19 mm) and down gauge in ground floor laid in panels including form work, consolidation, finishing and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	1800 Sft	100 Sft	4,289.49	77,211
12.2	Code-117	Providing and laying in floor C.C. 1:2:4; tuff pavers 2" thick of approved design and colour and pattern (average strength 7000 psi) laid on sand cushion filling of joint with sand and wearing etc. complete as per direction of Engineer in charge. (The cost of sand cushion is included) complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	305 Sft	Sft	61.64	18,800
12.3	Code-117	Providing and laying 1 inch (25 mm) thick floor of mosaic marble chips tiles 12" X 12" X 1" (1/2 inch tapping 1/2" base) or 305 mm X 305 mm X 25 mm (13 mm tapping, 12 mm base) in white cement with approved marble chips in ground floor over 1" (25 mm) lime mortar 1:2 (one lime two sand) including setting the tiles with grey cement slurry over lime mortar. Jointing and washing the tiles with cement slurry of matching colour including grinding, rubbing, polishing and curing etc. Complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 79 Page# 199	Ground Floor	900 Sft	100 Sft	12,237.02	110,133
Total Carried to Summary						206,144



BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
NON-SCHEDULE ITEMS						
7		All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BS/ASTM Standards, and complete in all respects and to the entire satisfaction of the Engineer.				
		WOOD WORKS				
		FIRE RATED DOORS				
7.1	N.S.I	Providing and fixing wooden fire rated doors single & double leaf as per drawing with frames factory fabricated meet the requirements of the BM TRADA "Q" Mark Third Party Accredited scheme, tested in accordance with BS476 P122 1987 achieving a FD 60 minutes fire resisting rating, including standard fire door hardware fire rated locks or exit devices with latching units and exposed door closer (dormo or equivalent) key and thumb turn concealed /SS with SS hinges complete 50mm wall size frame and spray paint finish etc., complete from Safeco or approved as per specifications & relevant drawings, and to the entire satisfaction of the Engineer. (Front face will be measured for payments)	255 SH	SH	5300	1351500 ✓
		Wooden Cabinets				
7.2	N.S.I	Providing making and fixing in position floor mounted lower cabinets (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 Portal wood frame, complete with all accessories i.e. imported hinges, locks, magnetic catchers, best quality handles etc., including any laminate 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. (Front face will be measured for payments)				
		Ground Floor	97 SH	SH	2250	218250 ✓
		First Floor	97 SH	SH	2250	218250 ✓
		Second Floor	97 SH	SH	2250	218250 ✓
7.3	N.S.I	Providing making and fixing in position wall mounted cabinets for (Kitchen 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 Portal 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 laminate 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. (Front face will be measured for payments)				
		Ground Floor	104 SH	SH	2350	244400 ✓
		First Floor	104 SH	SH	2350	244400 ✓
		Second Floor	104 SH	SH	2350	244400 ✓
						
Total Carried to Summary						2739450 ✓

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
8		All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respects and to the entire satisfaction of the Engineer.				
8.1	N.S.I	FLOOR FINISHES Providing and laying Terrazzo tiles/slab with bull nosing in one piece /full length (up to 5 feet long) 1-1/2" thick for Treads consisting of 3/4" thick topping 1:2 (One gray cement 2 approved marble chips No. 0 to 4 & chipcha) in white cement over a base 1:2:4 (One cement, two sand & four crush) cement concrete 3/4" thick in any floor laid with cement slurry/dry over existing surface including jointing with approved quality grouting material & grinding, polishing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
		Ground Floor	347 Sft	Sft	600	208200 ✓
		First Floor	347 Sft	Sft	600	208200 ✓
		Second Floor	145 Sft	Sft	600	87000 ✓
8.2	N.S.I	Providing and laying Terrazzo tiles/slab in one pieces for risers of consisting of 1/2" thick 1:2 (One gray cement 2 approved marble chips No. 0 to 4) laid with cement slurry/dry board over existing surface in any floor including jointing with approved quality grouting material & grinding, polishing complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
		Ground Floor	173 Sft	Sft	600	103800 ✓
		First Floor	173 Sft	Sft	600	103800 ✓
		Second Floor	72 Sft	Sft	600	43200 ✓
						
Total Carried to Summary						754200 3493650

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
11		EXTERNAL FINISHES				
11.1	N.S.I	Providing & Laying Natural Sand 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)	6000 Sft	Sft	290	1740000 ✓
11.2	N.S.I	External Building LOGO's Provide, make, finish and fix in position LOGO & LETTERING ("SINDH MADRESSATUL ISLAM UNIVERSITY - ADMINISTRATION BLOCK") lettering with 48" dia Logo on External walls including 2" thick Plaster in 1:4 cement, sand mortar with LOGO made of Stainless Steel Sheet (size as shown in drawing), fixed to walls with 3" long steel rowel bolts, strictly according to drawings, this includes three coats of plastic emulsion paint and preparation of surface with filling manufactured by ICI, all nails, screws, glues etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	60 Each	Each	20000	1200000 ✓
		a) Lettering with 4" dia Logo	60 Each	Each	20000	1200000 ✓
		b) Logo Plaster (6'-0" x 24'-6")	150 Each	Sft.	50	7500 ✓
11.3	N.S.I	Rain Water Spouts Providing, Making and Fixing in position R.C.C Precast Rain Water spouts (size as shown in drawing), complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	2 Each	Each	8100	16200 ✓
11.4	N.S.I	Providing, Making and fixing ornamental columns, and ball finial comprising of artificial sand stone round & other geometrical shape over ground windows & parapet wall (size as shown in drawing), complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
11.5		a) Ornamental Pre cast Columns	16 RH	RH	2000	32000 ✓
		b) Ornamental Pre cast ball finial with base	12 RH	Nos	5000	60000 ✓
11.6	N.S.I	Providing & laying pre cast cornices with 3000 psi concrete over columns, walls, arches & where required with cement sand mortar 1:2 in any pattern in as per direction of the engineer-in-charge including the cost of curing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	278 RH	RH	2500	695000 ✓
Total Carried to Summary						3750700

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
12		EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)				
12.1	N.S.I	Providing and laying Terrazzo tiles/slab with bull nosing in one piece /full length (up to 5 feet long) 1-1/2" thick for Treads consisting of 3/4" thick topping 1:2 (One gray cement 2 approved marble chips No. 0 to 4 & chapcha) in white cement over a base 1:2:4 (One cement, two sand & four crush) cement concrete 3/4" thick in any floor laid with cement slurry/dry over existing surface including jointing with approved quality grouting material & grinding, polishing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	550 SF	SF	310	170500
12.2	N.S.I	Providing and laying Terrazzo tiles/slab in one pieces for Risers at consisting of 1/2" thick 1:2 (One gray cement 2 approved marble chips No. 0 to 4) laid with cement slurry/dry board over existing surface in any floor including jointing with approved quality grouting material & grinding, polishing complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	275 SF	SF	310	85250
12.3	N.S.I	Providing and making Planter/ land escaping as shown on drawing all works comprising (earth filling, sweet earth with mature plants and grassing compacting, curing, finishing & leveling) etc., excluding tree, complete in all respects as per drawing, standard, specifications and direction of the Engineer.	1132 SF	SF	600	679200
						
Total Carried to Summary						

ELECTRIC WORKS



Lot # 2
BILL OF QUANTITIES
SUMMARY

S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
NON-SCHEDULE ITEMS		
1	INTERNAL ELECTRIFICATION	2514242 ✓
2	L.V. PANELS & DISTRIBUTION BOARDS	590402.3 ✓
3	LOW VOLTAGE CABLES AND WIRES	57350.5 ✓
4	CONDUITS & PIPES	96116.794657 ✓
5	WIRING ACCESSORIES	796457.2 939864 ✓
6	LIGHT FIXTURE & FANS	
7	EXTERNAL LIGHTING	196.044 ✓
8	UPS SYSTEM (ON HOLD)	.
9	CABLE TRAY	383550 ✓
10	EARTHING SYSTEM	643721 ✓
11	LIGHTNING PROTECTION SYSTEM (LPS)	358266 ✓
TOTAL AMOUNT CARRIED TO GRAND SUMMARY		6576013 6574,213

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BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
NON-SCHEDULE ITEMS					
1	INTERNAL ELECTRIFICATION				
a)	3 WIRE IN PVC RECESSED CONDUIT				
i	Wiring for sub-main with 3x 1.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	5,140	Mtr.	158	812120.0
ii	Wiring for sub-main with 3x 2.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	4,455	Mtr.	158	703890.0
iii	Wiring for sub-main with 3x 4 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	1,908	Mtr.	158	301464.0
iv	Wiring for sub-main with 3x 6 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 25 mm (1") dia PVC conduit recessed in the wall, column and roof etc as required.	325	Mtr.	184.49	59959.25
b)	4 CORE CABLE IN SURFACE PVC CONDUIT				
i	Wiring for sub-main with 4 core, 10 mm ² , stranded copper conductor, PVC insulated & PVC sheathed circular/flat cable in 40 mm (1 1/2") dia PVC conduit fitted on surface as required.	125	Mtr.	197.67	24708.75
c)	3 CORE CABLE WITH ECC WIRE IN EXISTING PIPE OR CABLE DUCT				
i	Providing & laying, 3 core, 4 mm ² , stranded copper conductor, PVC insulated & PVC sheathed cable l/c 1.5 mm ² single core PVC insulated wire as ECC in all kinds of existing or given conduit/cable duct as required.	1,950	Mtr.	190.00	370500
ii	Providing & laying, 3 core, 6 mm ² , stranded copper conductor, PVC insulated & PVC sheathed cable l/c 2.5 mm ² single core PVC insulated wire as ECC in all kinds of existing or given conduit/cable duct as required.	1,050	Mtr.	192.00	201600
d)	METALLIC BODY EXHAUST FANS.				
i	Providing & installing 25 Cm (10") sweep, mettalic body Exhaust fan complete with blades, motor, etc fitted in existing hole including connection with 14/0076" flexible wire complete as required Millat/Pak/Asia/Younas/Climax/ Royal.	4	No.	10000	40000.0
CARRIED TO ELECTRICAL SUMMARY =====>>>>					2514242


BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
2	L.V. PANELS & DISTRIBUTION BOARDS				
a)	Supply, installation, testing & commissioning of Wall/Flush mounted Main Distribution Board (MDB) / Sub Main Distribution Board (SMDB) / Distribution Boards (DB), made with 16 SWG sheet steel metal, as per single line diagram, dust protected, vermin proof housing coated with approved color having all the necessary switching & protections, including all mounting accessories as per specifications and drawings, complete in all respect.				
i	MDB-AB	1	No.	21085.90	21085.90
ii	DB-AB-GF1	1	No.	21085.90	21085.90
iii	DB-AB-GF2	1	No.	21085.90	21085.90
iv	DB-AB-GF-AC	1	No.	17132.00	17132.00
v	DB-AB-GF-ICT	1	No.	17132.00	17132.00
vi	SMDB-AB-1F	1	No.	17132.00	17132.00
vii	DB-AB-1F1	1	No.	21085.90	21085.90
viii	DB-AB-1F2	1	No.	21085.90	21085.90
ix	DB-AB-1F-AC	1	No.	17132.00	17132.00
x	DB-AB-1F-ICT	1	No.	17132.00	17132.00
xi	SMDB-AB-2F	1	No.	21085.90	21085.90
xii	DB-AB-2F1	1	No.	21085.90	21085.90
xiii	DB-AB-2F2	1	No.	17132.00	17132.00
xiv	DB-AB-2F-AC	1	No.	17132.00	17132.00
xv	DB-AB-2F-ICT	1	No.	17132.00	17132.00
xvi	DB-AB-ROOF	1	No.	17132.00	17132.00
b)	Supply, installation, testing & commissioning of following Isolators, in 16 SWG sheet steel enclosure with neutral and earth terminal strips, including all mounting accessories as per specification & drawing, complete in all respect.				
i	40A, TPN Isolator	2	NOS.	5271.00	10542.00
ii	32A, SPN Isolator	27	NOS.	3953.00	106731.00
iii	20A, SPN Isolator	65	NOS.	2636.00	171340.00
CARRIED TO ELECTRICAL SUMMARY =====>>>>					590402.30

BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
3	LOW VOLTAGE CABLES AND WIRES Supply, laying, termination and commissioning of following copper conductor cable in already laid PVC conduit / cable tray / trench as required as per drawing and specification ,complete in all respect.				
a)	4 Core - Cu.XLPE/PVC Cable (600/1000V)				
i	4 Core - 95 Sq.mm	15	Mtr.	250.0	3750.0
ii	4 Core - 70 Sq.mm	35	Mtr.	237.0	8295.0
iii	4 Core - 35 Sq.mm	45	Mtr.	240.0	10800.0
iv	4 Core - 25 Sq.mm	50	Mtr.	171.0	8550.0
v	4 Core - 16 Sq.mm	55	Mtr.	145.0	7975.0
b)	1 Core - CU/PVC Cable as ECC				
i	1 Core - 50 Sq.mm Cu/PVC Cable	15	Mtr.	79.0	1185.0
ii	1 Core - 35 Sq.mm Cu/PVC Cable	35	Mtr.	65.8	2303.0
iii	1 Core - 16 Sq.mm Cu/PVC Cable	150	Mtr.	52.70	7905.0
iv	1 Core - 10 Sq.mm Cu/PVC Cable	125	Mtr.	52.70	6587.50
CARRIED TO ELECTRICAL SUMMARY =====>>>>					57350.5

BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
4	CONDUITS & PIPES				
a)	Providing and laying of following size (inner dia) PVC / UPVC Conduit as race ways with all accessories recessed / surface on wall / column / under floor for Power. As per specifications and drawings, complete in all respect.				
i	32 mm dia PVC	30	Mtr.	237.0	7110.0
ii	38 mm dia PVC	40	Mtr.	237.0	9480.0
iii	50 mm dia PVC	20	Mtr.	316.0	6320.0
iv	75 mm dia PVC	20	Mtr.	316.0	6320.0
b)	Providing and laying of UPVC (Class-D) pipe having dia of following size. Buried in ground as per drawing. Including excavation for laying of pipe and backfilling with clean sand (under and above pipe), compaction, concrete, plugging of pipe ends etc. as shown on drawing complete in all respect.				
i	100 mm dia UPVC (Class-D)	20	Mtr.	790	15800.0
c)	Providing and Construction of Manhole Size 600x600x900 mm deep, 6" thick, concrete 1:2:4 ratio with 600mm round heavy duty cast iron cover, 100% water proof, complete in all respect.	1	No.	21086	21086.0
d)	Providing, and Installation of Cable Trench Covers consisting of Heavy Duty MS Chequered Plate For LV Room as per drawings & specifications, complete in all respects.	3	Mtr.	10000	30000.0
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					96116

BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
5	WIRING ACCESSORIES				
a)	Supply, installation, testing & commissioning of following 10/13/15/20A, 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 specification, complete in all respects.				
i	10A, One Gang Switch	10	Nos.	1318	13180.0
ii	10A, One Gang Switch (2-Way)	15	Nos.	1318	19770.0
iii	10A, Two Gang Switch	62	Nos.	1318	81716.0
iv	10A, Three Gang Switch	32	Nos.	1318	42176.0
v	10A, Four Gang Switch	14	Nos.	1318	18452.0
vi	10A, Double Pole Switch	2	Nos.	1318	2636.0
vii	20A, Double Pole Switch	7	Nos.	1318	9226.0
viii	ON & OFF Push Button	17	Nos.	1318	22406.0
ix	10A, 2-Pin 1-Gang Switched Socket Outlet	353	Nos.	922	325366.0
x	13A, 3-Pin Flat 2-Gang Switched Socket Outlet	214	Nos.	922	197308.0
xi	13A, Unswitched Spur Outlet	9	Nos.	922	8298.0
xii	15A, 3-Pin Switched Socket Outlet	8	Nos.	790	6320.0
xiii	Flex Outlet	9	Nos.	2372	21348.0
xiv	16A, 3-pin Industrial Socket with plug top	4	Nos.	6588.8	26355.2
CARRIED TO ELECTRICAL SUMMARY =====>>>>					79457.2



79457.2
79457.2


BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
6	LIGHT FIXTURE & FANS				
a)	Supply, installation, testing & commissioning of following light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per specification, 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	Type D1	174	Nos.	1318	229332.0
ii	Type D2	53	Nos.	1318	69854.0
iii	Type D3	21	Nos.	1318	27678.0
iv	Type D4	1	Nos.	1318	1318.0
v	Type D5	78	Nos.	1318	102804.0
vi	Type D6	12	Nos.	1318	15816.0
vii	Type LD1	23	Nos.	1318	30314.0
viii	Type LD2	349	Nos.	1318	459982.0
ix	Type T1	3	Nos.	922	2766.0
CARRIED TO ELECTRICAL SUMMARY =====>>>>					939864

BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
7	EXTERNAL LIGHTING				
a)	Supply, installation, testing & commissioning of following light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per specification, 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	Type FS1	18	Nos.	2108	37944.0
ii	Type S1	10	Nos.	2108	21080.0
iii	Type R1	39	Nos.	2108	82212.0
iv	Type W1	7	Nos.	2108	14756.0
v	Type W2	11	Nos.	2108	23188.0
vi	Type W3	8	Nos.	2108	16864.0
CARRIED TO ELECTRICAL SUMMARY =====>>>>					196044


BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
8	UPS SYSTEM				
a)	Providing, installing, testing & commissioning of True Online Double Conversion UPS rating 50 kVA Three Phase in, Three Phase out, minimum 0.9 output power factor with 10 minutes battery backup, batteries with related DC cables from UPS to batteries, external Bypass and all accessories as per specification & drawings, complete in all respect.				
b)	Providing, installing, testing & commissioning of True Online Double Conversion UPS rating 30 kVA Three Phase in, Three Phase out, minimum 0.9 output power factor with 10 minutes battery backup, batteries with related DC cables from UPS to batteries, external Bypass and all accessories as per specification & drawings, complete in all respect.				
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					

BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
9	CABLE TRAY				
a)	Providing, fabricating, erecting, fixing and installing of following size of base perforated Cable Tray, Fabricated with 16 SWG MS Sheet steel Hot dip Galvanized including all installation accessories (Hot Dip Galvanized) such as appropriate sizes and lengths of MS Rod / Angle Iron Supports and Rawl Bolts, including cutting, welding, jointing and necessary required hardware etc. Complete in all respect as shown in drawings and specification or as directed by the Engineer,				
i	6" x 2" (150mm x 50mm)	240	Mtr.	922	221280.0
ii	12" x 2" (300mm x 50mm)	75	Mtr.	1821	136575.0
iii	18" x 2" (450mm x 50mm)	15	Mtr.	1713	25695.0
CARRIED TO ELECTRICAL SUMMARY =====>>>>					383550

BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
10	EARTHING SYSTEM				
a)	Supply, installing, testing and commissioning of following items for complete earthing system including all connecting accessories as per drawings and specifications complete in all respect.				
i	Earth pit with Rod type earth electrode, 3/4" dia and 3 meters long copper rod .	2	Nos.	197680	395360.0
b)	Supply, installing, testing and commissioning of following items for complete clean earthing system including all connecting accessories as per drawings & specifications complete in all respect.				
i	Earth pit with Rod type earth electrode, 3/4" dia and 3 meters long copper rod .	1	No.	197680	197680
c)	Supply, Installation, Testing and Commissioning of Earth Copper Bar (MDB) 300x50x6 mm for earthing system as per drawings and instruction of consultant.	2	No.	1318	2636.0
d)	Supply, laying, testing and commissioning of 1x16 Sq.mm PVC insulated Cu. Conductor cable as earth continuity conductor (ECC) in 25 mm dia uPVC conduit, complete in all respect.	5	Mtr.	395	1975.0
e)	Supply, laying, testing and commissioning of 1x25 Sq.mm PVC insulated Cu. Conductor cable as earth continuity conductor (ECC) in 25 mm dia uPVC conduit, complete in all respect.	5	Mtr.	7905	39525.0
f)	Supply, laying, testing and commissioning of 1x70 Sq.mm PVC insulated Cu. Conductor cable as earth continuity conductor (ECC) in 32 mm dia uPVC conduit, complete in all respect.	55	Mtr.	119	6545.0
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					643721

BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
11	LIGHTNING PROTECTION SYSTEM (LPS)				
a)	Supply, installation, testing and commissioning of 27mm x 2mm Tinned Copper Tape to be run on roof and on the elevation of the building as required and shown on drawings including all fixing accessories etc., as per specification, as per site requirement necessary for the functioning of the system and drawing, complete in all respect.	190	Mtr.	395	75050.0
b)	Supply, installation, testing and commissioning of Early Streamer Emission (ESE) Air Terminal mounted on 2 meter elevation mast, as per drawing, complete in all respect and having following specifications: Efficiency: 60 micro seconds Lightning current withstanding test (10/350µs): 100 kA ESE Central Rod: Nickel Plated Copper Metal Housing : Stainless Steel 316L Protection Radius : 31 meter at 2 meter height	1	No.	39537	39537.0
c)	Providing and Installation of 2 meter high elevation mast consisting side wall mounting bracket for installation and fixing of ESE Air Terminal, as per drawing and specification as per site requirement necessary for the system, complete in all respect.	3	No.	39537	118611.0
d)	Providing and installation of pyramid holdfasts / studs filled with cement for holding and supporting the flat tape conductor, as per drawing and specification as per site requirement necessary for the system, complete in all respect.	73	Nos.	1318	96214.0
e)	Providing and installation of lightning flash counter as per drawing and specification as per site requirement necessary for the system, complete in all respect.	1	No.	3954	3954
f)	Providing and installation of Earth Electrode Copperband earth rod 3 meters and clamp, Polypropelene earth pit, as per drawing and specification, complete in all respect.	6	Nos.	2108	12648
g)	Providing and installation of Test Clamp and Guard Tube 2 m in length, as per drawing and specification, as per specification, as per site requirement necessary for the functioning of the system, complete in all respect.	2	Job.	5271	10542
h)	Supply, laying, testing and commissioning of 1x70 Sq.mm PVC insulated Cu. Conductor cable in 32 mm dia uPVC Pipe at ground level connecting Lightning protection pits to power earthing pits, complete in all	10	Mtr.	171	1710
CARRIED TO ELECTRICAL SUMMARY =====>>>>					358268

ELV WORKS



BILL OF QUANTITIES
SUMMARY OF COST

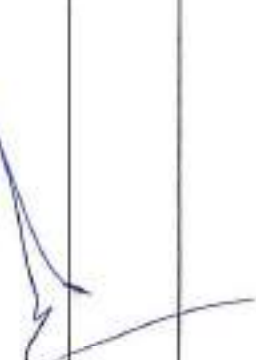
S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
NON-SCHEDULE ITEMS		
1	CONDUITS & PIPES	1272500 ✓
2	VOICE, DATA COMMUNICATION & CCTV CABLING SYSTEMS (Passive Equipment Only) (Equipments & cabling on HOLD, only conduiting in Contractor's Scope)	633750 ✓
3	PA (PUBLIC ADDRESS / VA (VOICE EVACUATION) SYSTEM (Equipments & cabling on HOLD, only conduiting in Contractor's Scope)	25350 ✓
4	PUBLIC ADDRESS / BACKGROUND MUSIC SYSTEM FOR SEMINAR HALL (Equipments & cabling on HOLD, only conduiting in Contractor's Scope)	
5	ACCESS CONTROL SYSTEM (On HOLD)	
6	CCTV SYSTEM (On HOLD)	
7	ADDRESSABLE FIRE ALARM SYSTEM (Equipments & cabling on HOLD, only conduiting in Contractor's Scope)	78585 ✓
8	SELF CONTAINED EMERGENCY LIGHTS (On HOLD)	954000 ✓
9	CABLE TRAY	
TOTAL AMOUNT CARRIED TO GRAND SUMMARY		2964185 ✓

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
NON-SCHEDULE ITEMS					
1	CONDUITS & PIPES				
a)	Providing and laying of following size UPVC pipe of Class D for Telecommunication Cable (copper / optic fiber), Buried in ground / under roads / under floor as per specification. Including excavation for laying of pipe, bricks, warning tape and backfilling with new and fresh soil etc., as shown on the drawing, complete in all respect.				
i	4" dia UPVC Conduit	65	Mtr.	2000	130000
b)	Providing and laying of following size (inner dia) PVC / UPVC Conduit as race ways with all accessories recessed / surface on wall / column / under floor. As per specifications and drawings, complete in all respect.				
i	1" dia PVC Conduit	25	Mtr.	2000	50000
c)	Providing and Construction of Manhole Size 2' x 2' x 3' mm deep 6" thick concrete 1:2:4 ratio with 2' round heavy duty cast iron cover. 100% water proof, complete in all respect. (For Incoming Telecommunication cables).	3	No.	97500	292500
d)	Providing & installing of Pull Box as per drawing and specification, complete in all respect.	2	No.	400000	800000
CARRIED TO ELV SUMMARY =====>>>>					1272500

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
2	VOICE, DATA COMMUNICATION & CCTV CABLING SYSTEMS (Passive Equipment Only)				
a)	Providing, installation, testing and commissioning of following Data / Voice Cabinets, for patch panel, Fiber panels, adapter, PDU's, Fans and space for active switches as it may require to accommodate complete the entire passive and active network as per the single line diagram drawing and specification, complete in all respect.				
i	42U Data Rack in IT Room & Server Room (800mmx1000mm)				
b)	Supply, installing, 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.				
c)	Providing, fixing, testing and commissioning of Single RJ-45, Cat-6 Simplex Outlet for Data with 1/6" shutter type with 16 SWG back box as per drawing and specification, complete in all respect.				
d)	Supply, installing, testing and commissioning of Single RJ-45, Cat-6 outlet for Camera with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.				
e)	Supply, installing, testing and commissioning of Single RJ-45, Cat-6 outlet for WIFI with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.				
f)	Supply, installing, testing and commissioning of Single RJ-45, Cat-6 outlet for Projector with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.				

NOT APPLICABLE





S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
g)	Supply, laying, testing and commissioning of CAT-6, 4 pair cable for Single RJ-45 outlet (Data, Voice, Camera, Wifi, Projector and Access control system) in 25mm dia PVC conduit concealed/surface from each outlet to IDF racks, including tagging and piping with all necessary accessories, complete in all respect. (Cabling on HOLD, only conduiting in Contractor's Scope)	7500	Mtr.	84.50	633750






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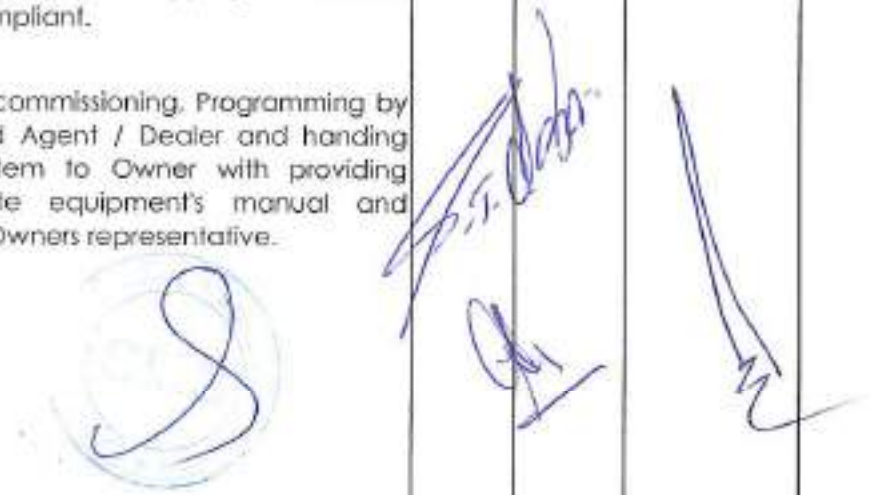
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S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
h)	Supply, laying, testing and commissioning of Cat 5, 25 pair Backbone cable from MTJB to remaining TJB in already laid cable tray / conduit, including with all the necessary accessories as per drawing and specifications, complete in all respect.				
j)	Supply, laying, testing and commissioning of 8 core multi mode OM3 Fiber optic cable from server room remaining IDF Racks in already laid cable tray / conduit, including with all necessary accessories, as per drawing and specification, complete in all respect.				
k)	Supply, installing, testing and commissioning of 24 port Cat 6, RJ 45 UTP Patch Panel fully loaded with tool less jacks and rear cable manager, as per drawing and specification, complete in all respect.				
l)	Supply, installing, testing and commissioning of 24 port Fiber Patch Panel fully loaded with pigtailed etc., and rear cable manager, as per drawing and specification, complete in all respect.				
m)	Supply, installing, testing and commissioning of 19" front/rear (as required) cable organizer between patch panels and active equipment to provide patch cable management including with all necessary accessories, as per drawing and specification, complete in all respect.				
n)	Providing, 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 (1m) Long Patch Cord.				
ii	CAT-6 (2m) Long Patch Cord.				
o)	Supply, installing, testing and commissioning of following blocks in Telephone junction boxes as per drawing and specification, complete in all respect.				
i	50 Pair IDC Block				
ii	100 Pair IDC Block				
p)	Providing, installation, testing & commissioning of following type IDC 110 19" cross connect block with mounting 19" Frame including arrestors and pair to pair (2 m) patch cords with all necessary accessories, complete in all respect.				

NOT APPLICABLE

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
i	MTJB (5x100 Pair) Wall mounted				
q)	Providing, fixing, testing and commissioning of Floor Distribution Box with 1No. Dual RJ-45 Outlet [for Voice and Data], 1No.13A, Duplex Flat Pin Switched Socket Outlet and 1No. 10A, 2-pin Switched Socket Outlet and I/O - Shutter type with 16 SWG back box, as per drawing and specification, complete in all respect.				
r)	Providing, fixing, testing and commissioning of PABX with Analog [16+5]2 Nos. trunk parts E & M Ports with Analog extensions Ports including auto attendant multiple voice recording, as per specification and drawing, complete in all respect.				
s)	Installation, testing and commissioning by Manufacturer Authorized Agent / Dealer and handing over complete Voice & Data System to Owner with Providing Training voice data take & OTDR Testing, as build drawing, Rack layouts and certification's Principal, complete equipment's Manual and Warranty Documents to Owners representative.				
					
					
CARRIED TO ELV SUMMARY =====>>>>					

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
3	<p>PA (PUBLIC ADDRESS / VA (VOICE EVACUATION) SYSTEM</p> <p>a) Providing, laying, testing and commissioning of Wiring for complete PA System with 2C - 1.5 Sq.mm shielded, twisted pair Fire Resistant Cable in 25 mm dia PVC conduit concealed as per drawing and specification. Complete in all respect. (Cabling on HOLD, only conduiting in Contractor's Scope)</p> <div style="text-align: center;">  </div>	300	Mtr.	84.50	25350.00

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
b)	Supply, wiring and testing of PA Microphone points with Microphone Cable in 25mm dia PVC Conduit, recessed / surface in wall and ceiling, complete in all respects.				
c)	Supply, installation, testing and commissioning of PA System complete with all connecting accessories comprising of the following equipment, as per drawing and specification, complete in all respects.				
i	Voice Evacuation controller for with built in Amplifier for 8 channel with built in Modular type message manager as per drawing and specification, complete in all respects.				
ii	150W output 100Hz-20KHz Amplifier				
iii	Remote Microphone for upto 3 Zones with frequency response 100 Hz to 20 KHz and unidirectional electret condenser microphone gooseneck type with RJ45 connector with shielded twisted pair cable with indicators for power, failure, broadcast switch, covered switch, as per drawing and specification, complete in all respects.				
iv	Providing & Connecting of Inter Connects Cables etc.				
v	19" Rack Cabinet with Glass Door to accommodate above equipment's located at Security room as per drawing and specification, complete in all respects.				
d)	Supply, installing, testing and commissioning of following type Speakers of Architect Approved color, as per drawing and specification, complete in all respects.				
i	6W Ceiling mounted Speakers with Tapping Transformers (1,1.5,3,4.5,6W). EN54 Compliant.				
e)	Installation, testing and commissioning, Programming by Manufacturer Authorized Agent / Dealer and handing over complete PA System to Owner with providing training, SOP, complete equipment's manual and warranty documents to Owners representative.				
					
CARRIED TO ELV SUMMARY =====>>>>>>					


S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
4	<p>PUBLIC ADDRESS / BACKGROUND MUSIC SYSTEM FOR SENATE HALL</p> <p>a) Supply, installation, testing and commissioning of gooseneck electret condenser microphone with base stand as per drawing and specification, complete in all respect.</p> <p>b) 30W Line array speaker</p> <p>c) Supply, installation, testing and commissioning of UHF Wireless microphone with 576 to 937 UHF frequency range with built in antenna as per drawing and specification, complete in all respect.</p> <p>d) Supply, installation, testing and commissioning of UHF Wireless tuner with 64 selectable frequencies and external antenna input as per drawing and specification complete in all respect.</p> <p>e) Wireless receiver with 64 selectable channels and a built-in scanner with external antenna input</p> <p>f) 240W Mixer Amplifier</p> <p>g) Remote dipole antenna UHF frequency range of 550 - 932 MHz</p> <p>h) CD/USB/MP3/ Tuner Player same brand</p> <p>j) Speaker Wire Italian 2.5 mm, 2 core</p> <p>k) Microphone Wire Italian Flexible</p> <p>l) Swiss Jacks & Interconnection</p> <p>m) 19" 12U Rack, Glass Door Imported, lock & keys</p> <p>n) Speaker installation with steel wire and holding arrangements.</p>				


NOT APPLICABLE

[Handwritten signatures and initials in blue ink]



DEVELOPMENT OF SMIU CAMPUS,
ADMIN BUILDING, MALIR CAMPUS, KARACHI
BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
o)	Providing, laying, testing and commissioning of 2C - 1.5 Sq.mm PVC cable in 25 mm dia PVC conduit, as per drawing and specification. Complete in all respect. (Cabling on HOLD, only conduiting in Contractor's Scope)	40	Mtr.		
p)	Complete testing & Commissioning, software end-user training with 1 years free services <i>NOT APPLICABLE</i>				
 CARRIED TO ELV SUMMARY =====>>>>					

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
5	ACCESS CONTROL SYSTEM				
a)	Supply, installing, testing and commissioning of 2 Door Controller LAN Based with power supply, as per drawings and specification, complete in all respect.				
b)	Supply, installing, testing and commissioning of BIO Proximity Card Reader, as per drawings and specification, complete in all respect.				
c)	Supply, installing, testing and commissioning of Exit Control Push Button, as per drawings and specification, complete in all respect.				
d)	Supply, installing, testing and commissioning of Electromagnetic Door Lock with matching power supply, as per drawings and specification, complete in all respect.				
e)	Supply, installing, testing and commissioning of Access control Enterprise Software with enterprise level time attendance software integrated with IP Based CCTV System, Complete in all respect.				
f)	Supply, installing, testing and commissioning of Core i7 PC for enterprise software, as per drawing and specifications, complete in all respect.				
g)	Supply, installing, testing and commissioning of PVC Card for Reader, complete with Printer and cartridge kit, as per drawing and specifications, complete in all respect.				
h)	Installation, testing, commissioning & programming by Manufacturer Authorized Agent / Dealer and handing over complete Access Control System to Owner with providing training, SOP, complete equipment's manual and warranty documents to Owner's Representative.				
					
CARRIED TO ELV SUMMARY =====>>>>					

NOT APPLICABLE

[Handwritten signatures in blue ink]


S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
6	CCTV SYSTEM				
a)	Supply, installing, testing and commissioning of 2 MP IP based camera with 1/2.8" CMOS 3.3 to 12mm varifocal lens, power adapter, wall mounted bracket, and IP-65 housing, complete in all respect with fixing accessories, as per drawing and specifications, complete in all respect.				
b)	Supply, installing, testing and commissioning of 2 MP IP based indoor Dome camera with 1/2.8" CMOS 3.3 to 9mm varifocal lens, power adapter, complete in all respect with fixing accessories and bracket assembly, as per drawing and specifications, complete in all respect.				
c)	Supply, installing, testing and commissioning of 200 Channel NVR with RAID 1+0 configuration based with 1 month recording as per drawing and specifications, complete in all respect.				
d)	Supply, installing, testing and commissioning of 12" LED Screen, including all mounting accessories etc., as per drawing and specifications, complete in all respect.				
e)	Supply, installing, testing and commissioning of 27U CCTV Rack (Wall mounted), equipped with power distribution units (PDUs) with imported power sockets & proper ventilation system including fan etc., as per drawing and specifications, complete in all respect.				
f)	Supply, installing, testing and commissioning of work station Dual VGA Card & Licensed windows, as per drawing and specifications, complete in all respect.				
g)	Supply, installing, testing and commissioning of variable speed desktop keyboard with all fixing accessories, as per drawing and specifications, complete in all respect.				
h)	Supply, installing, testing and commissioning of Media Converter from Fiber to RJ-45, as per drawing and specification, complete in all respect.				
i)	Installation, testing, commissioning, programming by Manufacturer Authorized Agent / Dealer and handing over complete CCTV System to Owner with providing training, SOP, complete equipment's manual and warranty documents to owners representative.				
CARRIED TO ELV SUMMARY =====>>>>					

NOT APPLICABLE

Handwritten signatures and a circular stamp are present in the right-hand columns of the table, specifically in the UNIT, RATE, and AMOUNT columns for items a) through i).


S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
7	<p>ADDRESSABLE FIRE ALARM SYSTEM</p> <p>a) Providing, laying, testing and commissioning of Wiring for complete Fire Alarm System with 2C-1.5 Sq.mm 2 hrs rated, Fire Resistant Cable in 25 mm dia PVC conduit concealed, (M.S conduit for surface) etc., including any wiring between fire alarm control panel and other's systems control panel's etc. Complete in all respect. (Cabling on HOLD, only conduiting in Contractor's Scope)</p>	930	Mtr.	84.50	78585

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S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
b)	Providing, installation, testing and commissioning of Addressable Photoelectric Smoke Detector with base and back box, as per drawing and specification, complete in all respect.				
c)	Providing, installation, testing and commissioning of Addressable Heat Detector with base and back box, as per drawing and specification, complete in all respect.				
d)	Providing, installation, testing and commissioning of Addressable Manual Call Point with base and back box, as per drawing and specification, complete in all respect.				
e)	Providing, installation, testing and commissioning of Addressable Manual Call Point (Weatherproof) with base and back box, as per drawing and specification, complete in all respect.				
f)	Providing, installation, testing and commissioning of Addressable Sounder with flasher and base and back box, as per drawing and specification, complete in all respect.				
g)	Providing, installation, testing and commissioning of Addressable Sounder (Weatherproof) with flasher, base and back box, as per drawing and specification, complete in all respect.				
h)	Providing, installation, testing and commissioning of Addressable Input / Output Interface unit, as per drawing and specification, complete in all respect.				
j)	Providing, installation, testing and commissioning of 02 Loop Addressable Fire Alarm Control Panel (FACP), including all necessary accessories, identification tagging etc. and battery back up. FACP as per drawing and specification, complete in all respect.				
k)	Installation, testing and commissioning, Software, Programming by Manufacturer Authorized Agent / Dealer and handing over complete Fire Alarm system to owner with providing training, SOP, complete equipment's manual and warranty documents to Owner's Representative.				
					
CARRIED TO ELV SUMMARY =====>>>>					

NOT APPLICABLE



S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
8	SELF CONTAINED EMERGENCY LIGHTS				
a)	Supply, installing, testing and commissioning of following items for self contained emergency lights with all fixing accessories as per drawing and specification, complete in all respect.				
i	7W, Emergency light with self contained Battery, Surface / Wall mounted IP-65 as per specification and drawing complete in all respect. (non-maintained)				
ii	7W, Emergency light with self contained Battery, Ceiling mounted IP-20 as per specification and drawing complete in all respect. (non-maintained)				
iii	7W, EXIT light with self contained Battery, 40m viewing, Surface mounted IP-20 as per specification and drawing complete in all respect. (non-maintained)				
					
CARRIED TO ELV SUMMARY =====>>>>					

DEVELOPMENT OF SMIU CAMPUS,
ADMIN BUILDING, MALIR CAMPUS, KARACHI
BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
9	CABLE TRAY				
a)	Providing and Installing of following size of base perforated for ELV System, Fabricated with 14/16 SWG MS Sheet steel Hot dip Galvanized with Cover including all installation accessories (Hot Dip Galvanized) such as appropriate sizes and lengths of M.S Rod / Angle Iron Supports and Rawl Bolts etc. Complete in all respect as shown in drawings and specification or as directed by the Engineer.				
i	150 x 50mm 16 SWG	195	Mtr.	4200	819000
ii	300 x 50mm 16 SWG	30	Mtr.	4500	135000
CARRIED TO ELV SUMMARY =====>>>>					954000



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954000

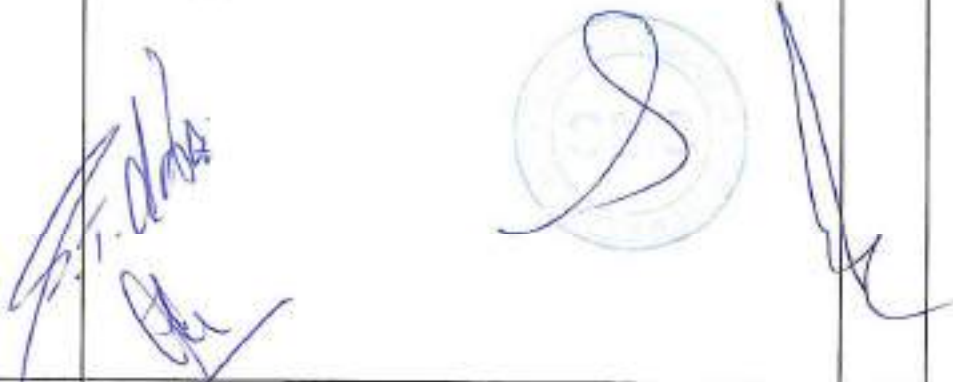
PLUMBING WORKS



DEVELOPMENT OF SMIU CAMPUS,
ADMIN BUILDING, MALIR CAMPUS, KARACHI
BILL OF QUANTITIES
SUMMARY OF COST

S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
A. SCHEDULE ITEMS		
1	Plumbing Fixtures	483,434 ✓
2	Manholes & Gully traps	156,978 ✓
	Sub Total Rs.	640,412 ✓
	Add <u>45%</u> ✓ Above/Below/At par on Plumbing Works of Composite Schedule of Rates 2012, PWD Schedule 2012	288185/5 ✓
	TOTAL-A Rs.	928597/5 ✓
B. NON-SCHEDULE ITEMS		
1	Water Supply	1773100 ✓
2	Sanitary Sewage	3078940 ✓
3	Fire Fighting Works	1925598 ✓
	SUB-TOTAL-B Rs.	6777638
	TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B) FOR 1 No.	7706235/5

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
SCHEDULE ITEMS						
1	301-1	<p>PLUMBING FIXTURES:</p> <p>Providing and fixing best quality squatting type glazed earthward W.C.Pan, Pakistan (of not less than 18" clear opening as measured between the flushing rimes). Complete with and including the cost of 13.6 liters best quality low level plastic flushing cistern with internal fittings complete, P.V.C. flushing pipe suitable for this type with fittings and making requisite number of holes in walls, plinth & floor for pipe connections and making good in cement concrete 1:2:4.</p>	15	Nos.	3,425	51,375
2	301-6	<p>Providing and fixing Pakistani make best available quality European style white glazed earthenware wash down W.C.Pan complete with and including the cost of a plastic seat (PVC cover and buffers 3 galls. (13.6 liters) white glazed earthenware low level flushing cistern with siphon fittings, 1-1/2 inches (40mm) dia white porcelain enameled flush bend, 3/4 inch (20mm) dia, G.I. warning pipe carried outside and bent vertically downwards and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4</p>	10	Nos.	4,805	48,050
3	301-7	<p>Providing and fixing Pakistani make flat back lipid front urinal basin (of not less than 17 inches or 430 mm in height of white glazed earthenware complete with and including the cost of one gallon (4.5 liters) glazed earthen ware automatic flushing cistern with fittings a pet cock brackets standard flush pipe with fittings, standard waste pipe (enameled iron) connection complete and making requisite number of holes in walls plinth and floor for pipe connections and making good in cement concrete 1:2:4</p>	0	Nos.	2,804	-
4	301-8 & 10 & 14	<p>Providing and fixing 25 inches x 18 inches (635 mm x 457 mm) lavatory basin in white glazed earthenware (Pakistani) complete with and including the cost of Brass oxidized bolts kit built into wall 1/2 inch (15 mm) dia. Chrome plated mixer 1-1/4" inches (32mm) rubber plug and chrome plated brass chain, 1-1/4 inches (32 mm) dia brass waste of approved pattern, 1-1/4 inches (32 mm) dia. Malleable iron or C.P. brass traps malleable iron or brass unions and making requisite number of holes in walls plinth and floor for pipe connections and making god in cement concrete 1:2:4</p> <p>Extra over item No. 8 and 9 (Wasg basin) for providing and fixing best available (Pakistani make) white glazed earthenware pedestal.</p> <p>Extra over item No.8 and 9 for providing single hole chromium plated mixer tap 1/2 inch (15 mm) dia (English or approved foreign make).</p>	19	Nos.	7,225	137,275
Continued..						

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
		<u>PLUMBING FIXTURES (Cont....)</u>				
5	301-13	Providing and fixing Shower tray made of fiber glass of any color and design 31 inches x 31 inches (787 mm x 787 mm).	0	Nos.	2,394	-
6	301-20	Providing and fixing standing wall shower of CP brass 3 knobs of approved quality mixer unit and moveable shower head complete..	0	Nos.	4,590	-
7	301-21	Providing and fixing approved quality stainless steel sink 60" x 20" Pak made (Atlas) complete with brass oxidized bolt kit/angle iron brackets built into walls ½" dia CP sink mixer 1-1/4" rubber plug and CP brass chain 1-1/4" CP brass waste 1-1/4" dia malleable iron or CP brass bottle trap with malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	2	Nos.	18,677	37,354
8	302-6	Providing and fixing 20 inches x 16 inches (508 mm x 406 mm) Looking mirror of Belgium glass complete with Plastic frame and C.P. Brass screws.	0	Nos.	923	-
9	302-9	Providing and fixing bath room accessories of set of 6 pieces consist of one shelf, one towel rod with bracket, one soap dish, one tooth brush holder with glass and cover, one tissue paper holder one double hook one towel ring etc. complete of approved quality as per direction of Engineer in-charge.	15	Nos.	12,757	191,355
10	302-13	Providing and fixing chrome plated Muslim bib-cock without Muslim shower of approved quality	25	Nos.	721	18,025
						
		CARRIED TO SUMMARY				483,434

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
11	315-3	Manholes and Gully traps Providing manhole Type 'B' size 3'-0" x 2'-6" or 914mm x 762mm x 4ft (1.22mm) deep as per approved design and specifications complete for 4" to 12" diameter pipe, 4 ft. to 7'-5" Depth with cast iron cover and frame weights 1 Cwt. 3 Qtrs or 88.9 kg.in 6" thick RCC 1:2:4 slab 8" thick,c.c. 1:3:6 block masonry walls set in 1:3 c.m. 6" inch thick, 1:3:6, c.c. in foundation 1:2:4 c.c. in benching, 1/2" thick cement plaster in 1:4 c.m. to all inside wall surfaces, channels and benching etc. and top including providing and fixing cast iron foot rest at every foot of depth and making requisite number of main and branch channels complete but excluding that cost of excavation, backfilling , disposal of excavated stuff, manhole cover and frame.	9	Nos.	17,442	156,978
CARRIED TO SUMMARY						156,978

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
NON-SCHEDULE ITEMS						
WATER SUPPLY:						
Cold and Hot Water Supply Piping						
1	Non-Sch	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 as indicated on the drawing, as per specifications and Engineers approval.				
i		¾" dia	1,200	Rft	110	132000
ii		1" dia	80	Rft	210	16800
iii		1¼" dia	190	Rft	250	47500
iv		1½" dia	570	Rft	410	233700
v		2" dia	110	Rft	800	88000
vi		2½" dia	20	Rft	950	19000
vii		3" dia	0	Rft	-	-
viii		4" dia	0	Rft	-	-
Valves						
2	Non-Sch	Providing and fixing of PPR Coated, brass Gate valves (of same material as piping) as indicated on the drawing, as per specifications and Engineers approval.				
i		¾" dia	0	Nos.	-	-
ii		1" dia	2	Nos.	2500	5000
iii		1¼" dia	4	Nos.	3000	12000
iv		1½" dia	6	Nos.	3000	18000
v		2" dia	7	Nos.	4000	28000
vi		2½" dia	1	Nos.	5000	5000
vii		3" dia	0	Nos.	-	-
viii		4" dia	0	Nos.	-	-
Water Tanks and Connection						
3	Non-Sch	Connection for water tank including with valves, supports, excavation and Backfill, complete all in accordance with the drawing and specifications.	1	Item	42000	42000
4	Non-Sch	2" Connection to RCC water tanks	1	Nos.	18000	18000
5	Non-Sch	Connection to overhead water tanks using Float switch	1	Nos.	42000	42000
6	Non-Sch	Cast Iron Medium Duty Cover For RCC water tanks	2	Nos.	3000	6000
Continued..						713000

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
WATER SUPPLY (Cont....)						
Plumbing Specialties:						
7	Non-Sch	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" Air Relief Valve	1	Nos.	15000	15000
ii		1 1/4" dia foot valve	1	Nos.	25000	25000
iii		2" Y-type Strainer	2	Nos.	5500	11000
iv		2" Flexible Connector	4	Nos.	7900	31600
8	Non-Sch	Pumps				
Supply and installation of below mentioned Transfer Pump Set including pump foundation, control panel, automatic float switch, wiring, valves, piping, accessories, etc., as indicated on the drawing, as per specifications and Engineers approval.						
i	Non-Sch	Transfer Pump (1 duty) Flow = 100GPM @ 130ft. head	1	Nos.	400,000	400,000
ii		Transfer Pump (1 duty) Flow = 100GPM @ 160ft. head	1	Nos.	600,000	600,000
CARRIED TO SUMMARY			7		130000 + 1060100	= 1773100

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
9	Non-Sch	SANITARY SEWAGE:				
		Soil, Waste, Vent and Rainwater Pipes				
		Providing and fixing, uPVC pipes and fittings as per BS EN 1329 for above ground installations for Soil, Waste, Vent & Rw pipes 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	102	Rft.	1200	122400
		(ii) 3" dia	460	Rft.	1776	816960
		(iii) 4" dia	270	Rft.	2574	694980
		Providing and fixing, uPVC pipes and fittings as per BS EN 1401 for below ground installations for Soil pipes including excavation, backfill, fittings (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval.				
		(iv) 6" dia	370	Rft.	2600	962000
		Drainage Specialties				
10	Non-Sch	Providing and fixing, PVC floor trap with multiple dia inlet and cleanout plug of the approved self cleaning design with S.Steel grating, as indicated on the drawing, as per specifications and Engineers approval.	42	Nos	560	23520
11	Non-Sch	Providing and fixing UPVC cowl for vent pipe of the following dia including all accessories complete in all respects.				
		(i) 3" dia	4	Nos	50	200
		(ii) 4" dia	0	Nos	-	-
		(iii) 6" dia	0	Nos	-	-
12	Non-Sch	Providing and fixing, PVC Roof Drains as per specifications and Engineers approval.	5	Nos	15400	77000
		Continued..			26	2698960

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
13	Non-Sch	SANITARY SEWAGE (Cont....) Gully traps Construction of 18" x 18" Cement Concrete gully trap with 12"x 12" manhole cover as specified and shown on the drawing, as per specifications and Engineers approval.	4	Nos.	20000	80000 ✓
14	Non-Sch	External Connection Connection to external Sewage network, after obtaining approval from local authorities including the cost of excavation, Piping as specified and shown on the drawing, as per specifications and Engineers approval.	1	Job.	300000	300000 ✓
CARRIED TO SUMMARY						3078940

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		FIRE FIGHTING 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	Non-Sch	5 Kg CO2 wall mounted fire extinguisher	12	Nos.	5489	65868
ii	Non-Sch	6 Kg Dry powder wall mounted fire extinguisher	12	Nos.	2600	31200
iii	Non-Sch	12 Kg Automatic Dry Powder Fire extinguisher.	1	Nos.	15000	15000
2		Fire Piping Supply, installation, testing and Commissioning of Seamless black steel SCH. 40 pipe as per ASTM A53 grade B with UL/FM Heavy Duty welded fittings, UL/FM Galvanized Supports and handers, supports, painting and coding fire protection system of following sizes.				
i		3" dia	290	Rft	3266	94740
ii		1 1/4" dia	110	Rft	2449	269390
3		Fire Valves Supply, installation, testing and Commissioning of UL/FM O.S and Y Ductile Iron Gate Valves with post indicator of Class 300 (UL) with EPDM Seal as per ASTM A536 Grooved or flanged type as required as per drawings, specifications and Engineers Recommendation.				
i		3" dia	1	Nos	12000	12000
4		Fire Hose Reel and Cabinet Supply, installation, testing and Commissioning of Dual compartment Stainless Steel Fire Hose cabinet (Exposed or recessed type) comprising of below mentioned items with S.Steel lock and handle, as per drawings, specifications and Engineers Recommendation. 1" diameter, 30m high pressure rubber hose reel tested on 30 bar with PRV (Pressure Reducing valve), Gate Valve and inlet lock shield control valve and Adjustable plastic Nozzle for Jet, spray and Shut off. 2 1/2", 100 ft Long lay flat hose Rack + Multi Jey nozzle 2 1/2" diameter Landing valve Dia UL/FM Approved 6 kg Co2 Extinguisher 5 KG ABC type Dry powder Extinguisher	9	Nos	65000	585000
CARRIED TO SUMMARY						1925598

GRAND SUMMARY
COMMON FACILITIES
(2a-CAFETERIA)



S.No	Description	Amount (Rs.)
A	PRELIMINARIES & GENERAL REQUIREMENTS	<i>Included in Permanent works</i>
B	PERMENANT Works	
1	CIVIL WORKS	8964717 ✓
2	ELECTRICAL WORKS	1030549.70 ✓ 1030548
3	ELV WORKS	531,725 ✓
4	PLUMBING WORKS	1727131 ✓
TOTAL AMOUNT CARRIED TO MASTER SUMMARY		12,254,123/- 12254121

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CIVIL WORKS





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S.No	Description	Amount (Rs.)
A SCHEDULE ITEM		
1	EARTH WORKS	190,942
2	SUB STRUCTURE	2,917,122
3	SUPER STRUCTURE	2,384,652
4	MASONRY WORKS	399,630
5	THERMAL & MOISTURE PROTECTION	82,194
6	METAL WORKS	460,519
7	WOOD WORKS	181,716
8	FLOOR FINISHES	299,569
9	WALL FINISHES	213,655
10	CEILING FINISHES	63,482
11	EXTERNAL FINISHES (BUILDING)	205,572
12	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	340,675
	Total of Schedule Items	7,739,728
	Add <u>15%</u> 14% Premium on Civil Works of PWD-2012	<i>MDW</i>
	Total of Schedule Items with Premium - A = 8900687	9210276
B NON-SCHEDULE ITEM		
1	EARTH WORKS	64030 ✓
2	SUB STRUCTURE	-
3	SUPER STRUCTURE	-
4	MASONRY WORKS	-
5	THERMAL & MOISTURE PROTECTION	-
6	METAL WORKS	-
7	WOOD WORKS	-
8	FLOOR FINISHES	-
9	WALL FINISHES	-
10	CEILING FINISHES	-
11	EXTERNAL FINISHES (BUILDING)	-
12	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	-
	Total of Non-Schedule Items - B	64030 ✓
	TOTAL CARRIED TO GRAND SUMMARY (A+B)	9274306
		8,964,717

Lot # 2


BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
SCHEDULE ITEMS						
1		EARTH WORKS				
1.1	Code -103,	Excavation for foundations trenches, drains, underground tanks and septic tanks in gravelly soil (medium dense to very dense fine to coarse grained sandy gravel) and back filling the excavated material in foundation, 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 up to one chain (30.5 R.m) and lift up to 5 feet (1.52 m) etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 2	From ± 0'-0" to -5' - 0"	6226 Cft	100 Cft	613.14	38,174
1.2	Code -104 Item #8	Supplying earth from approved outside sources within a radius of 5 miles (8 km) including digging, loading and unloading and filling in foundations trenches plinth or under floor, etc. including breaking clods, dressing, watering and 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 (1.52mm) etc. complete, including all lifts etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	3237 Cft	100 Cft	2,467.50	79,873
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.	2242 Cft	100 Cft	3,251.34	72,895
   						
Total Carried to Summary						190,942

Lot # 2
BILL OF QUANTITIES

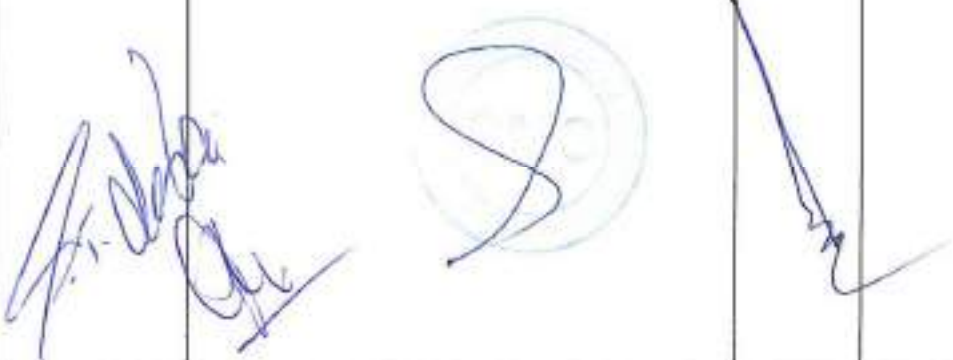
S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
2		SUB STRUCTURE Note: All RCC Concrete will be used only Ready mixed.				
2.1	Code -106	CONCRETE WORKS Providing and laying in situ 1:4:8 (1 cement 4 sand and 8 coarse aggregate) cement concrete 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 (Cylindrical 1000 Psi)	2086 Cft	100 Cft	14,411.43	300,622
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)	78 Cft	100 Cft	15,840.97	12,356
2.3	Code -114	REINFORCED CONCRETE WORKS 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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in columns footing of required shape with columns and pillars, of any 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+136	Foundation for any type (Cylindrical Strength 2500 Psi)	2228 Cft	100 Cft	17,514.88	390,232
Total Carried to Collection						703,210

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
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 4500 lbs. per sq. inch (31.04 N/mm ² at 28 days) 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 4000 Psi)	182 Cft	100 CH	26,704.50	48,602
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 4500 lbs. per sq. inch (31.04 N/mm ² at 28 days) 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 # 8+136	Plinth Beams i/c nibs / projections (Cylindrical Strength 2500 Psi)	1096 Cft	100 CH	18,172.93	199,175
						
Total Carried to Collection						247,777

Lot # 2

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in foundation or bottom slab of rectangular underground water tank or septic tank 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 # 99+136	UGWTank Bottom Slab (Cylindrical Strength 2500 Psi)	737 Cft	100 Cft	15,182.84	111,898
2.7	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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in top slab of rectangular underground water tank or septic tank 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 # 104+136	UGWTank Top Slab (Cylindrical Strength 2500 Psi)	98 Cft	100 Cft	20,471.59	20,062
2.8	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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in walls of rectangular underground water tank or septic tank 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 # 101+136	UGWTank Walls (Cylindrical Strength 2500 Psi)	100 Cft	100 Cft	20,782.39	20,782
						
Total Carried to Collection						152,742

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
2.9	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; lying 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. <i>(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).</i>	14183 Kg	Kg	123.02	1,744,793
2.10	Code -124 Item # 93	Providing and fixing plain polyvinyl chloride (PVC) water stops 12" (305 mm) wide in vertical or horizontal expansion joints including cutting and joining complete in all floors etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	52 Rft	Rft	500.16	26,008
2.11	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.	6572 Sft	100 Sft	648.08	42,592
Total Carried to Collection						1,813,393
COLLECTION						
Page No -2						703,210
Page No -3						247,777
Page No -4						152,742
Total from this Page						1,813,393
Total Carried to Summary						2,917,122


BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
NON-SCHEDULE ITEMS						
SUB STRUCTURE						
TERMITE PROOFING						
2.12		<p>Termite control treatment of sub grade soil, excavated surfaces and fill material with HEPTACHLOR emulsifiable to 0.5% with clean water or AGENDA 25 EC containing FIPRONIL or BIFLEX with Bifenthrin or DURSIBIN or TENEKIL PLUS or MIRAGE ALI AKBER GROUP or approved equivalent as per manufacturer's specifications and instructions, etc., complete in all respects as per drawing, standard specifications and as directed by the Engineer.</p> <p><i>(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)</i></p>	3370	SqM	19	64030
Total Carried to Summary						64030

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
3		SUPER STRUCTURE Note: All RCC Concrete will be used only Ready mixed.				
3.1	Code -114 Item # 4+135+138	REINFORCED CONCRETE WORKS 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/mm ² at 28 days) 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.				
3.2	Item # 24+135+138 Code -114	Columns (Cylindrical Strength 4000 Psi) Ground Floor	697 Cft	100 Cft	30,389.36	211,814
3.3	Item # 38+136 Code -114	Beams /Arches/ purdi / bracing / lintels / ribs / sills / coping / parapet wall /bands/around opening and projections (Cylindrical Strength 2500 Psi) Ground Floor	1454 Cft	100 Cft	20,668.60	300,521
	Item # 57+136	Slab i/c projections (Cylindrical Strength 2500 Psi) Ground Floor	1198 Cft	100 Cft	19,520.67	233,858
Total Carried to Collection						746,193

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 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+136	OH Water Tank Bottom Slab (Cylindrical Strength 2500 Psi)	20 Cft	100 Cft	25,292.19	5,058
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 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+136	OH Water Tank Walls (Cylindrical Strength 2500 Psi)	63 Cft	100 Cft	25,867.96	16,297
						
Total Carried to Collection						21,355

Lot # 2

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
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 3000 lbs. per sq. inch [20.69 N /mm ² at 28 days] with a mix not leaner than 1:2:4 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.				
3.7	Item # 118+136 Code-114	OH Water Tank Top Slab (Cylindrical Strength 2500 Psi) 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 of any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).	14 Cft	100 Cft	22,895.75	3,205
	Item # 166	Ground Floor	13119 Kg	Kg	123.02	1,613,899
Total Carried to Collection						1,617,104
		COLLECTION				
		Page No -7				746,193
		Page No -8				21,355
		Total from this Page				1,617,104
Total Carried to Summary						2,384,652

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
A - SCHEDULE ITEMS						
4		DPC & MASONRY WORKS				
4.1	Item # 3 Code -108 Page # 47	Damp Proof Course (DPC) Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded screened baji 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.	237 Sft	100 Sft	2,659.79	6,304
4.2	Item # 5 Code -108 Page # 47	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.	6 Kg	Kg	86.10	510
4.3	Code-111 Page # 87 & 82	Block Masonry (Hollow & Solids) Providing and laying 1:3:6 cement concrete hollow block masonry of any thickness using graded screened baji 1/2 inch (13 mm) and down gauge set in cement mortar 1:4 including scaffolding, raking out joints and curing etc. complete in basement and ground floor to maximum height.				
	Item # 1+12+18+19	Ground Floor	1409 Cft	100 Cft	13,779.44	194,152
	Item # 1+9+12+18+19	First Floor	507 Cft	100 Cft	14,338.43	72,696
4.4	Code-110 Page # 77, 80, 81 & 82	Providing and laying 1:3:6 machine made standard size 4"x8"x12" & 6"x8"x12" cement concrete solid block masonry 4 to 6 inches (102 mm to 152 mm) thick using graded screened baji 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.				
	Item #44+92+100	Ground Floor	547 Cft	100 Cft	15,933.28	87,155
	Item # 44+92+100+70	First floor	127 Cft	100 Cft	16,757.05	21,281
4.5	Code-110 Page # 76, 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 in steps, stairs of approved design using graded screened baji 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 specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 34+92+75+68	FOR BLOCK MASONRY STEPS	100 Cft	100 Cft	17,532.37	17,532
Total Carried to Summary						399,630
5		THERMAL & MOISTURE PROTECTION				
5.1	Code-108 Item # 25 Page # 49	Providing and laying 1:9 cement concrete using screened graded baji 3/4 inch (19 mm) and down gauge in terracing 3 inches (76 mm) average thickness to required slope in panels including form work, consolidation, finishing, curing etc. and painting the surface with plastic bitumen No. 4 at the rate of 15 lbs per hundred square feet (0.73 Kg per s.m) blinded with sand at the rate of 2 cubic feet per hundred square feet (0.06 Kg per s.m) complete on ground floor roof.	2270 Sft	100 Sft	3,620.88	82,194
Total Carried to Summary						82,194

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
6		METAL WORKS				
6.1	Code-119 Item # 43 Page # 240	M.S. / G.I Door Frame 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 BS5, 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	178 RH	RH	157.12	27,967
6.2	Code-122 Item # 159 Page # 333	Painting iron work with synthetic enamel paint 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.	178 SF	100 SF	2,776.62	4,942
6.3	Code-119 Item # 69 Page # 244	Providing and fixing double glazed Bronz anodized or Powder Coated aluminium Sliding windows as per British standard, manufactured by Lucky, Alcop, Krudson, Pakistan Cables and A.C.P. (fixing through their approved fabricators), Executive model section double or single glazed 101mm x 37mm and 2mm thick including the cost of aluminium netting, filling, 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 stone	404 SF	SF	683.72	276,223
6.4	Code-119 Item # 53 Page # 242	Providing and fixing G.I. pipe railing of 2" (50 mm) diameter, comprising, vertical posts and horizontal bracing of G.I. pipe of the same dia as per design including cost of specials, bends, threading, cutting and making good the floor or wall of any kind in cement concrete 1:2:4 etc., complete in any floor.	404 RH	RH	374.72	151,387
Total Carried to Summary						460,519
7		WOOD WORKS				
7.2	Code-120 Item # 63 Page # 265	Door frame Door Shutter Providing and fixing 1-1/2 inches (38 mm) thick pressed veneered door shutters fully flushed with commercial ply wood veneering on all faces and sides fixed over deodar wood cavities core and frame work of not less than 4 inches (102 mm) wide strip around with approved brass hinges and lower bolts etc., as required, complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	253 SF	SF	655.18	165,761
7.3	Code-122 Item # 189 Page # 336	Polish & Paint Providing & Applying French or spirit polishing, two coat of approved make on wood work at any height in any floor, complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	150 SF	100 SF	1,878.96	2,818
7.4	Code-122 Item # 156 Page # 333	Painting wood work with super glass enamel paint of approved make and shade two coats over and including the cost of one coat of priming complete at any height in any floor, complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. Door Shutter	506 SF	100 SF	2,596.16	13,137
Total Carried to Summary						181,716

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
8		FLOOR FINISHES				
8.1	Code-117	Mosaic Tiles Providing and laying 1 inch (25 mm) thick floor of mosaic marble chips tiles 12" X 12" X 1" (1/2 inch topping 1/2" base) or 305 mm X 305 mm X 25 mm (13 mm topping, 12 mm base) in white cement with approved marble chips in ground floor over 1" (25 mm) lime mortar 1:2 (one lime two sand) including setting the tiles with grey cement slurry over lime mortar, jointing and washing the tiles with cement slurry of matching colour including grinding, rubbing, polishing and curing etc. Complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	2280 SH	100 SH	12,237.02	279,004
	Item # 79 Page# 199	Ground Floor				
8.2	Code-117 Item # 159 Page# 209	Porcelain Tiles Providing and laying light colour, glazed/non skid vitrified porcelain 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 in charge, complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	135 SH	100 SH	17,882.39	20,565
	Item # 159 Page# 209	G.Floor				
Total Carried to Summary						299,569
9		WALL FINISHES				
9.1	Code-122	Internal Wall Plaster 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.	2280 SH	100 SH	1,730.74	39,462
	Item # 6 Page # 320	Ground Floor				
	Item # 6+87 Page # 320 & 327	First Floor	1020 SH	100 SH	1,884.61	19,222
9.2	Code-117 Item # 159 Page# 209	Dado & Skirting Providing and laying light colour, glazed/non skid vitrified porcelain 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 in charge, complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	166 SH	100 SH	17,882.39	29,685
	Item # 159 Page# 209	G.Floor				
9.3	Code-118 Item # 55 + 58 Page# 219	Providing and laying marble mosaic tile 12" X 6" X 3/4" (305 mm X 152 X 19 mm) with chips No. 0 to 4 in dado and skirting 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.	166 SH	100 SH	14,274.50	23,696
	Code-118 Item # 55 + 58 Page# 219	G.Floor				

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
9.4	Code-122	Puddle 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+88	O.H.W.T Plaster	398 Sft	100 Sft	2,572.28	10,242
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 & relevant drawings and all works to the satisfaction of the Engineer				
	Item # 30	O.H.W.T	10 Kg	Kg	86.15	858
9.6	Code-122 Item # 162	Painting with (ICI) Deluxe plastic emulsion paint VIP of approved shade two coats over and including the cost of one priming coat complete over plastered surface of any height in any floor.	3300 Sft	100 Sft	2,742.08	90,490
Total Carried to Summary						213,655
10		CEILING FINISHES				
10.1	Code-122	Internal Ceiling Plaster 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.				
	Item # 6 Page # 320	Ground Floor	2280 Sft	100 Sft	1,730.74	39,461
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.	2280 Sft	100 Sft	1,053.54	24,021
Total Carried to Summary						63,482
11		EXTERNAL FINISHES				
11.1	Code-122	External 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 Page # 320	Ground Floor	2500 Sft	100 Sft	2,367.12	59,178
	Item # 8+89 Page # 320 & 327	First Floor	4018 Sft	100 Sft	2,572.28	103,341
11.2	Code-122 Item # 83 Page # 327	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. 11.1	1520 Sft	100 Sft	518.48	7,881
11.3	Code-122	Pointing 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				
	Item # 172	Ground Floor to Roof	2500 Sft	100 Sft	1,406.88	35,172
Total Carried to Summary						205,572

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
12		EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)				
12.1	Code-117	C.C 1:2:4 Floor Providing and laying floors of 3 inches (76 mm) thick 1:2:4 cement concrete using graded screened bag 3/4 inch (19 mm) and down gauge in ground floor laid in panels including form work, consolidation, finishing and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the				
12.2	Item # 7 Code-117 Item # 158 Page# 208	Ground floor Providing and laying in floor C.C. 1:2:4 tuff pavers 2" thick of approved design and colour and pattern (average strength 7000 psi) laid on sand cushion filling of joint with sand and waring etc. complete as per direction of Engineer in charge. (the cost of sand cushion is included) complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	1000 Sft	100 Sft	4,289.49	42,895
12.3	Code-117 Item # 97 Page# 202	CC Tiles Providing and laying floor 1 inch (25 mm) thick of cement tiles 12" X 12" X 1" (1/2" topping and 1/2 inch base) or 305 mm X 305 mm X 25 mm (13 mm topping, 12 mm base) in grey cement in ground floor over 1 inch (25 mm) lime mortar 1:2 (one lime two sand) including setting the tiles with grey cement slurry over lime mortar, jointing and washing the tiles with neat cement slurry, polishing and curing etc. complete including the cost of mortar. Complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	2000 Sft	Sft	61.64	123,280
Total Carried to Summary					5,725.02	174,500
NON-SCHEDULE ITEMS						
11		EXTERNAL FINISHES				
11.1	N.S.I	Providing & Laying Natural Sand 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. (of any height any floor)	600 Sft	Sft		
Total Carried to Summary						
12		EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)				
12.1	N.S.I	Providing and laying Terrazzo tiles/slab with bull nosing in one piece /full length (up to 5 feet long) 1-1/2" thick for Treads consisting of 3/4" thick topping 1:2 (One gray cement 2 approved marble chips No. 0 to 4 & chapchal) in white cement over a base 1:2:4 (One cement, two sand & four crush) cement concrete 3/4" thick in any floor laid with cement slurry/dry over existing surface including jointing with approved quality grouting material & grinding, polishing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	204 Sft	Sft		
12.2	N.S.I	Providing and laying Terrazzo tiles/slab in one pieces for Risers of consisting of 1/2" thick 1:2 (One gray cement 2 approved marble chips No. 0 to 4) laid with cement slurry/dry board over existing surface in any floor including jointing with approved quality grouting material & grinding, polishing complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	119 Sft	Sft		
Total Carried to Summary						

ELECTRIC WORKS



DEVELOPMENT OF SMIU CAMPUS,
CAFETERIA, MALIR CAMPUS, KARACHI
Lot # 2
BILL OF QUANTITIES
SUMMARY

S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
NON-SCHEDULE ITEMS		
1	INTERNAL ELECTRIFICATION	356992.1 ✓
2	L.V. PANELS & DISTRIBUTION BOARDS	23721.9 ✓
3	LOW VOLTAGE CABLES AND WIRES	
4	CONDUITS & PIPES	1054 ✓ 40878.70 ✓
5	WIRING ACCESSORIES	47700 ✓
6	LIGHT FIXTURE & FANS	72490 ✓
7	EXTERNAL LIGHTING	86428 ✓
8	EARTHING SYSTEM	401285 ✓
TOTAL AMOUNT CARRIED TO GRAND SUMMARY		1030548 1030549.70

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Lot # 2
BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
3	<p>LOW VOLTAGE CABLES AND WIRES Supply, installation, testing & commissioning of following size of 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 raceways or trench including all accessories lugs, cable gland etc. as per drawings and specification, complete in all respect.</p> <p>a) 1 Core - CU/PVC Cable as ECC i 1 Core - 10 Sq.mm Cu/PVC Cable</p>	20	Mtr.	52.70	1054
CARRIED TO ELECTRICAL SUMMARY =====>>>>					1054.0

Lot # 2
BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
NON-SCHEDULE ITEMS					
1	INTERNAL ELECTRIFICATION				
a)	<u>3 WIRE IN PVC RECESSED CONDUIT</u>				
i	Wiring for sub-main with 3x 1.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	892	Mtr.	158	140936
ii	Wiring for sub-main with 3x 2.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	280	Mtr.	158	44240
iii	Wiring for sub-main with 3x 4 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	116	Mtr.	158	18328
iv	Wiring for sub-main with 3x 6 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 25 mm (1") dia PVC conduit recessed in the wall, column and roof etc as required.	30	Mtr.	184.49	5534.70
b)	<u>4 CORE CABLE IN SURFACE PVC CONDUIT</u>				
i	Wiring for sub-main with 4 core, 10 mm ² , stranded copper conductor, PVC insulated & PVC sheathed circular/flat cable in 40 mm (1 1/2") dia PVC conduit fitted on surface as required.	20	Mtr.	197.67	3953.4
c)	<u>WALL BRACKET FANS</u>				
i	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. Millat/Pak/Asia/Younas/Climax/Royal.	24	No.	6000	144000
CARRIED TO ELECTRICAL SUMMARY =====>>>>					356992.1


Lot # 2

BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
2	L.V. PANELS & DISTRIBUTION BOARDS				
a)	Supply, installation, testing & commissioning of Wall/Flush mounted Main Distribution Board (MDB) / Sub Main Distribution Board (SMDB) / Distribution Boards (DB), made with 16 SWG sheet steel metal, as per single line diagram, dust protected, vermin proof housing coated with approved color having all the necessary switching & protections, including all mounting accessories as per specifications and drawings, complete in all respect.				
i	DB-UC-GF	1	No.	21085.9	21085.90
b)	Supply, installation, testing & commissioning of following Isolators, in 16 SWG sheet steel enclosure with neutral and earth terminal strips, including all mounting accessories as per specification & drawing, complete in all respect.				
i	32A, SPN Isolator	1	Nos.	2636	2636
CARRIED TO ELECTRICAL SUMMARY =====>>>>					23721.9

Lot # 2

BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
4	CONDUITS & PIPES				
a)	Providing and laying of following size (inner dia) PVC / UPVC Conduit as race ways with all accessories recessed / surface on wall / column / under floor for Power. As per specifications and drawings, complete in all respect.				
i	32 mm dia PVC	10	Mtr.	237	2370
ii	38 mm dia PVC	10	Mtr.	237	2370
b)	Providing and laying of UPVC (Class-D) pipe having dia of following size. Buried in ground as per drawing. Including excavation for laying of pipe and backfilling with clean sand (under and above pipe), compaction, concrete, plugging of pipe ends etc. as shown on drawing complete in all respect.				
i	50 mm dia UPVC (Class-D)	15	Mtr.	1000	15000 ✓
c)	Providing and Construction of Manhole Size 600x600x900 mm deep, 6" thick, concrete 1:2:4 ratio with 600mm round heavy duty cast iron cover, 100% water proof, complete in all respect.	1	No.	21086	21086 ✓
d)	Providing & installing of Pull Box as per drawing and specification, complete in all respect.	1	No.	52.70	52.70
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					40878.70


Lot # 2

BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
5	WIRING ACCESSORIES				
a)	Supply, installation, testing & commissioning of following 10/13/15/20A, 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 specification, complete in all respects.				
i	10A, One Gang Switch	2	Nos.	1318	2636 ✓
ii	10A, Three Gang Switch	7	Nos.	1318	9226.6 ✓
iii	10A, Three Gang Switch Weatherproof type	4	Nos.	1318	5272 ✓
iv	10A, Four Gang Switch	9	Nos.	1318	11862 ✓
v	10A, Four Gang Switch Weatherproof type	2	Nos.	1318	2636 ✓
vi	10A, 2-Pin 1-Gang Switched Socket Outlet	14	Nos.	922	12908 ✓
vii	15A, 3-Pin Switched Socket Outlet	4	Nos.	790	3160 ✓
CARRIED TO ELECTRICAL SUMMARY =====>>>>					47700


Lot # 2

BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
6	LIGHT FIXTURE & FANS				
a)	Supply, installation, testing & commissioning of following light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per specification, 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	Type D1	23	Nos.	1318	30314
ii	Type D2	18	Nos.	1318	23724
iii	Type LD1	14	Nos.	1318	18452
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					72490


Lot # 2

BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
7	EXTERNAL LIGHTING				
a)	Supply, installation, testing & commissioning of following light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per specification, 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)	Type FS1	6	Nos.	2108	12648.0
ii)	Type R1	8	Nos.	2108	16864.0
iii)	Type W1	27	Nos.	2108	56916.0
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					86428

Lot # 2

BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
B	EARTHING SYSTEM				
a)	Supply, installing, testing and commissioning of following items for complete earthing system including all connecting accessories as per drawings and specifications complete in all respect.				
i	Earth pit with Rod type earth electrode, 3/4" dia and 3 meters long copper rod .	1	No.	197680	197680
b)	Supply, Installation, Testing and Commissioning of Earth Copper Bar 300x50x6 mm for earthing system as per drawings and instruction of consultant.	1	No.	197680	197680
c)	Supply, laying, testing and commissioning of 1x16 Sq.mm PVC insulated Cu. Conductor cable as earth continuity conductor (ECC) in 25 mm dia uPVC conduit, complete in all respect.	15	Mtr.	395	5925
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					40285

ELV WORKS



Lot # 2
BILL OF QUANTITIES
SUMMARY

S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
NON-SCHEDULE ITEMS		
1	CONDUITS & PIPES	527500 ✓
2	VOICE COMMUNICATION SYSTEMS (Passive Equipment Only) (Equipments & cabling on HOLD, only conduiting in Contractor's Scope)	4225.00 ✓
3	SELF CONTAINED EMERGENCY LIGHTS (On HOLD)	
TOTAL AMOUNT CARRIED TO GRAND SUMMARY		531,725/-


S. T. Khan
AS

S


531,725/-

Lot # 2

BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
NON-SCHEDULE ITEMS					
1	CONDUITS & PIPES				
a)	Providing and laying of following size UPVC pipe of Class D for Telecommunication Cable (copper / optic fiber). Buried in ground / under roads / under floor as per specification. Including excavation for laying of pipe, bricks, warning tape and backfilling with new and fresh soil etc., as shown on the drawing, complete in all respect.				
i	2" dia UPVC	15	Mtr.	2000	30000
b)	Providing and Construction of Manhole Size 2' x 2' x 3' mm deep 6" thick concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, complete in all respect. (For Incoming Telecommunication cables).	1	No.	97500	97500
c)	Providing & installing of Pull Box as per drawing and specification, complete in all respect.	1	No.	400000	400000
					
CARRIED TO ELV SUMMARY =====>>>>					
					527500

Lot # 2
BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
2	<p>VOICE COMMUNICATION SYSTEMS (Passive Equipment Only)</p> <p>a) Supply, installing, 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.</p> <p style="text-align: center; font-size: 2em; transform: rotate(-15deg); opacity: 0.5;">NOT APPLICABLE</p> <div style="text-align: center; margin-top: 20px;">  <p>Handwritten signature and a circular stamp are present in the description column. The signature is in blue ink and appears to be 'S. F. Chohan'. The stamp is a circular official seal, also in blue ink, with some illegible text inside. An arrow points from the signature area towards the right side of the table.</p> </div>				

Lot # 2

BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
b)	Supply, laying, testing and commissioning of CAT-6, 4 pair cable for Single RJ-45 outlet (for Voice Communication System) in 25mm dia PVC conduit concealed/surface from each outlet to TJB, including tagging and piping with all necessary accessories, complete in all respect. (Cabling on HOLD, only conduiting in Contractor's Scope)	50	Mtr.	84.50	4225.0


E.T. Ansari

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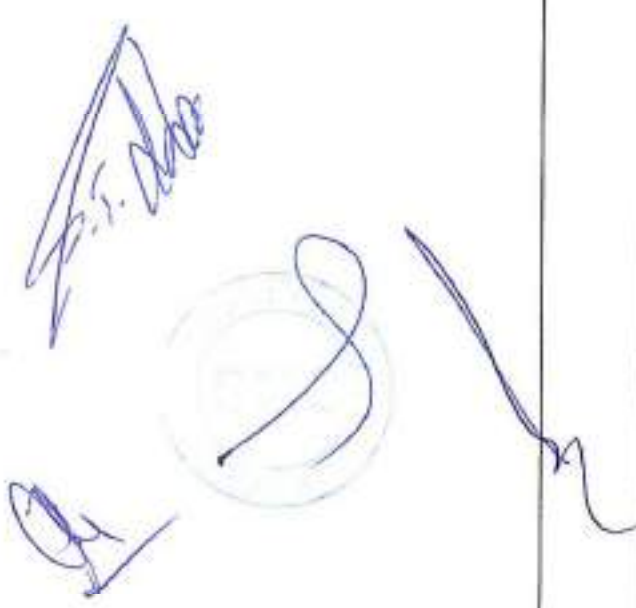
Lot # 2

BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
c)	Supply, laying, testing and commissioning of Cat 5, 25 pair Backbone cable from Admin building MTJB to Cafeteria TJB in already laid cable tray / conduit, including with all the necessary accessories as per drawing and specifications, complete in all respect.				
d)	Supply, installing, testing and commissioning of following blocks in Telephone junction boxes, as per drawing and specification, complete in all respect.				
i)	TJB with 2x10 Pair IDC Block				
e)	Installation, testing and commissioning by Manufacturer Authorized Agent / Dealer and providing over complete Voice & Data System to Owner with Providing Training voice data fuke & OTS testing, as build drawing, Rack layouts and certification's Principal, complete equipment's Manual and Warranty Documents to Owners representative.				
					
CARRIED TO ELV SUMMARY =====>>>>					

4225/-

BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
3	<p>SELF CONTAINED EMERGENCY LIGHTS</p> <p>a) Supply, installing, testing and commissioning of following items for self contained emergency lights with all fixing accessories as per drawing and specification, complete in all respect.</p> <p>i 7W, Emergency light with self contained Battery, Surface / Wall mounted IP-65 as per specification and drawing complete in all respect. (non-maintained)</p> <p>ii 7W, EXIT light with self contained battery, 40m viewing, Surface mounted IP-20 as per specification and drawing complete in all respect. (non-maintained)</p>				
<p>NOT APPLICABLE</p> 					
CARRIED TO ELV SUMMARY =====>>>>>>					


PLUMBING WORKS






BILL OF QUANTITIES


S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
A. SCHEDULE ITEMS		
1	Plumbing Fixtures	74,708
2	Manholes & Gully traps	17,442
	SUB-TOTAL - A	92,150
	Add <u>40%</u> ✓ Above/Below/At par on Plumbing Works of Composite Schedule of Rates 2012, PWD Schedule 2012	36860 ✓
	TOTAL (Schedule Item With Premium) - A	129010 ✓
B. NON-SCHEDULE ITEMS		
1	Water Supply	604,550 ✓
2	Sanitary Sewage	716,840 ✓
3	Fire Fighting Works	276,731 ✓
	TOTAL (Non-Schedule Items) - B	1,598,121 ✓
	TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B) FOR 1 No.	1,727,131 ✓

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		2	3	4	5	6 = (3 x 5)
SCHEDULE ITEMS						
		PLUMBING FIXTURES:				
1	301-1	Providing and fixing best quality squatting type glazed earthenware W.C.Pan, Pakistani (of not less than 18" clear opening as measured between the flushing rim) Complete with and including the cost of 13.6 liters best quality low level plastic flushing cistern with internal fittings complete, P.V.C. flushing pipe suitable for this type with fittings and making requisite number of holes in walls, plinth & floor for pipe connections and making good in cement concrete 1:2:4.	0	Nos.	3,425	-
2	301-6	Providing and fixing Pakistani make best available quality European style white glazed earthenware wash down W.C.Pan complete with and including the cost of a plastic seat (PVC cover and buffers 3 galls. [13.6 liters] white glazed earthenware low level flushing cistern with siphon fittings, 1-1/2 inches [40mm] dia white porcelain enameled flush bend, 3/4 inch [20mm] dia, G.I. warning pipe carried outside and bent vertically downwards and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	0	Nos.	4,805	-
3	301-7	Providing and fixing Pakistani make flat back lipid front urinal basin (of not less than 17 inches or 430 mm in height of white glazed earthenware complete with and including the cost of one gallon [4.5 liters] glazed earthen ware automatic flushing cistern with fittings a pet cock brackets standard flush pipe with fittings, standard waste pipe (enameled iron) connection complete and making requisite number of holes in walls plinth and floor for pipe connections and making good in cement concrete 1:2:4	0	Nos.	2,804	-
4	301-8 & 10 & 14	Providing and fixing 25 inches x 18 inches [635 mm x 457 mm] lavatory basin in white glazed earthenware (Pakistani) complete with and including the cost of Brass oxidized bolts kit built into wall 7/2 inch [15 mm] dia. Chrome plated mixer 1-1/4" inches [32mm] rubber plug and chrome plated brass chain, 1-1/4 inches [32 mm] dia brass waste of approved pattern, 1-1/4 inches [32 mm] dia, Malleable iron or C.P. brass traps malleable iron or brass unions and making requisite number of holes in walls plinth and floor for pipe connections and making good in cement concrete 1:2:4 Extra over item No. 8 and 9 [Wash basin] for providing and fixing best available (Pakistani make) white glazed earthenware pedestal. Extra over item No.8 and 9 for providing single hole chromium plated mixer tap 1/2 inch [15 mm] dia (English or approved foreign make).	0	Nos.	7,225	-
Continued..						


Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		2	3	4	5	6 = (3 x 5)
		<u>PLUMBING FIXTURES (Cont....)</u>				
5	301-13	Providing and fixing Shower tray made of fiber glass of any color and design 31 inches x 31 inches (787 mm x 787 mm).	0	Nos.	2,394	-
6	301-20	Providing and fixing standing wall shower of CP brass 3 knobs of approved quality mixer unit and moveable shower head complete..	0	Nos.	4,590	-
7	301-21	Providing and fixing approved quality stainless steel sink 60" x 20" Pak made (Atlas) complete with brass oxidized bolt kit/angle iron brackets built into walls 3/8" dia CP sink mixer 1-1/4" rubber plug and CP brass chain 1-1/4" CP brass waste 1-1/4" dia malleable iron or CP brass bottle trap with malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	4	Nos.	18,677	74,708
8	302-6	Providing and fixing 20 inches x 16 inches (508 mm x 406 mm) Looking mirror of Belgium glass complete with Plastic frame and C.P. Brass screws.	0	Nos.	923	-
9	302-9	Providing and fixing bath room accessories of set of 6 pieces consist of one shelf, one towel rod with bracket, one soap dish, one tooth brush holder with glass and cover, one tissue paper holder one double hook one towel ring etc. complete of approved quality as per direction of Engineer in-charge.	0	Nos.	12,757	-
10	302-13	Providing and fixing chrome plated Muslim bib-cock without Muslim shower of approved quality	0	Nos.	721	-
						
AMOUNT CARRIED TO PLUMBING SUMMARY						74,708

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		2	3	4	5	6 = (3 x 5)
11	315-3	Manholes and Gully traps Providing manhole Type 'B' size 3'-0" x 2'-6" or 914mm x 762mm x 4ft (1.22mm) deep as per approved design and specifications complete for 4' to 12' diameter pipe, 4 ft. to 7'-5" Depth with cast iron cover and frame weights 1 Cwt. 3 Qtrs or 88.9 kg.in 6" thick RCC 1:2:4 slab 8" thick,c.c. 1:3:6 block masonry walls set in 1:3 c.m. 6" inch thick, 1:3:6, c.c. in foundation 1:2:4 c.c. in benching, 1/2" thick cement plaster in 1:4 c.m. to all inside wall surfaces, channels and benching etc. and top including providing and fixing cast iron foot rest at every foot of depth and making requisite number of main and branch channels complete but excluding that cost of excavation, backfilling , disposal of excavated stuff, manhole cover and frame.	1	Nos.	17,442	17,442
						
AMOUNT CARRIED TO PLUMBING SUMMARY						17,442

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		2	3	4	5	6 = (3 x 5)
NON-SCHEDULE ITEMS						
WATER SUPPLY:						
Cold and Hot Water Supply Piping						
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 as indicated on the drawing, as per specifications and Engineers approval.						
i	Non-Sch	3/4" dia	30	Rft	110	3300
ii		1" dia	50	Rft	210	10500
iii		1 1/4" dia	15	Rft	250	3750
iv		1 1/2" dia	40	Rft	410	16400
v		2" dia	0	Rft	200	-
vi		2 1/2" dia	0	Rft	-	-
vii		3" dia	0	Rft	-	-
viii		4" dia	0	Rft	-	-
Valves						
Providing and fixing of PPR Coated, brass Gate valves (of same material as piping) as indicated on the drawing, as per specifications and Engineers approval.						
2	Non-Sch					
i		3/4" dia	0	Nos.	2000	-
ii		1" dia	1	Nos.	2500	2500
iii		1 1/4" dia	0	Nos.	-	-
iv		1 1/2" dia	1	Nos.	3000	3000
v		2" dia	0	Nos.	-	-
vi		2 1/2" dia	0	Nos.	-	-
vii		3" dia	0	Nos.	-	-
viii		4" dia	0	Nos.	-	-
Water Tanks and Connection						
3	Non-Sch	Connection for water tank including with valves, supports, excavation and Backfill, complete all in accordance with the drawing and specifications.	1	Item	42000	42000
4	Non-Sch	2" Connection to RCC water tanks	1	Nos.	18000	18000
5	Non-Sch	Connection to overhead water tanks using Float switch	1	Nos.	42000	42000
6	Non-Sch	Cast Iron Medium Duty Cover For RCC water tanks	1	Nos.	3000	3000
						
Continued..						144450

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		2	3	4	5	6 = (3 x 5)
		WATER SUPPLY (Cont....)				
		Plumbing Specialties:				
		Supply and installation of the following including all fittings, fixings, accessories, etc., as indicated on the drawing, as per Specifications and Engineers approval.				
7	Non-Sch					
i		1" Air Relief Valve	1	Nos.	15000	15000 ✓
ii		1 1/2" dia foot valve	1	Nos.	2500	2500 ✓
iii		2" Y-type Strainer	2	Nos.	5500	11000 ✓
iv		2" Flexible Connector	4	Nos.	7900	31600 ✓
8	Non-Sch	Pumps				
		Supply and installation of below mentioned Transfer Pump Set including pump foundation, control panel, automatic float switch, wiring, valves, piping, accessories, etc., as indicated on the drawing, as per specifications and Engineers approval.				
	Non-Sch					
i		Transfer Pump (1 duty) Flow = 80GPM @ 60ft. head	1	Nos.	400000	400000 ✓
						
AMOUNT CARRIED TO PLUMBING SUMMARY						604550

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		2	3	4	5	6 = (3 x 5)
11	Non-Sch	<p>SANITARY SEWAGE:</p> <p>Soil, Waste, Vent and Rainwater Pipes</p> <p>Providing and fixing, uPVC pipes and fittings as per BS EN 1329 for above ground installations for Soil, Waste, Vent & R/w pipes including cleanout plug, clamps, hanger collars, supports, specials (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval.</p> <p>(i) 2" dia</p> <p>(ii) 3" dia</p> <p>(iii) 4" dia</p> <p>Providing and fixing, uPVC pipes and fittings as per BS EN 1401 for below ground installations for Soil pipes including excavation, backfill, fittings (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval.</p> <p>(iv) 6" dia</p>	15 80 0	Rft. Rft. Rft.	1200 1776	18000 142080
		<p>Providing and fixing, uPVC pipes and fittings as per BS EN 1401 for below ground installations for Soil pipes including excavation, backfill, fittings (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval.</p> <p>(iv) 6" dia</p>	90	Rft.	2600	234000
12	Non-Sch	<p>Drainage Specialties</p> <p>Providing and fixing, PVC floor trap with multiple dia inlet and cleanout plug of the approved self cleaning design with S.Steel grating, as indicated on the drawing, as per specifications and Engineers approval.</p>	4	Nos	560	2240
13	Non-Sch	<p>Providing and fixing UPVC cowl for vent pipe of the following dia including all accessories complete in all respects.</p> <p>(i) 3" dia</p> <p>(ii) 4" dia</p> <p>(iii) 6" dia</p>	1 0 0	Nos Nos Nos	520	520
14	Non-Sch	Providing and fixing, PVC Roof Drains as per specifications and Engineers approval.	0	Nos	15400	
Continued..						396840

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		2	3	4	5	6 = (3 x 5)
		SANITARY SEWAGE (Cont....)				
15	Non-Sch	Gully traps Construction of 18" x 18" Cement Concrete gully trap with 12"x 12" manhole cover as specified and shown on the drawing, as per specifications and Engineers approval.	1	Nos.	20 000	20 000
16	Non-Sch	External Connection Connection to external Sewage network, after obtaining approval from local authorities including the cost of excavation, Piping as specified and shown on the drawing, as per specifications and Engineers approval.	1	Job.	300 000	300 000
						
AMOUNT CARRIED TO PLUMBING SUMMARY						716840

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		2	3	4	5	6 = (3 x 5)
		FIRE FIGHTING				
1		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	Non-Sch	5 Kg CO2 wall mounted fire extinguisher	4	Nos.	5489	21956
ii	Non-Sch	6 Kg Dry powder wall mounted fire extinguisher	4	Nos.	2600	10400
iii	Non-Sch	12 Kg Automatic Dry Powder Fire extinguisher.	0	Nos.	15000	—
		Fire Piping				
2		Supply, installation, testing and Commissioning of Seamless black steel SCH. 40 pipe as per ASTM A53 grade B with UL/FM Heavy Duty welded fittings, UL/FM Galvanized Supports and hangers, supports, painting and coding fire protection system of following sizes.				
i		3" dia	40	RH	3266	130640
ii		1 1/4" dia	15	RH	2449	152449
						36735
		Fire Valves				
3		Supply, installation, testing and Commissioning of UL/FM O.S and Y Ductile Iron Gate Valves with post indicator of Class 300 (UL) with EPDM Seal as per ASTM A536 Grooved or flanged type as required as per drawings, specifications and Engineers Recommendation.				
i		3" dia	1	Nos	12000	12000
4		Fire Hose Reel and Cabinet				
		Supply, installation, testing and Commissioning of Dual compartment Stainless Steel Fire Hose cabinet (Exposed or recessed type) comprising of below mentioned items with S.Steel lock and handle, as per drawings, specifications and Engineers Recommendation.				
		1" diameter, 30m high pressure rubber hose reel tested on 30 bar with PRV (Pressure Reducing valve), Gate Valve and inlet lock shield control valve and Adjustable plastic Nozzle for Jet, spray and Shut off.				
		2 1/2", 100 ft Long lay flat hose Rack + Multi Jet nozzle	1	Nos	65000	65000
		2 1/2" diameter Landing valve Dia UL/FM Approved				
		6 kg CO2 Extinguisher				
		5 KG ABC type Dry powder Extinguisher				
AMOUNT CARRIED TO PLUMBING SUMMARY						276731

GRAND SUMMARY
COMMON FACILITIES
(2b-LIBRARY)



S.No	Description	Amount (Rs.)
A	PRELIMINARIES & GENERAL REQUIREMENTS	<i>Included In Permanent works</i>
B	PERMENANT Works	85,504,604/- 85504603
1	CIVIL WORKS	4502,079/- ✓
2	ELECTRICAL WORKS	4498777 553,720/- ✓
3	ELV WORKS	525365 4368296/-
4	PLUMBING WORKS	4368295 ✓
5	HVAC WORKS	
TOTAL AMOUNT CARRIED TO MASTER SUMMARY		94897040 94,928,698 ✓

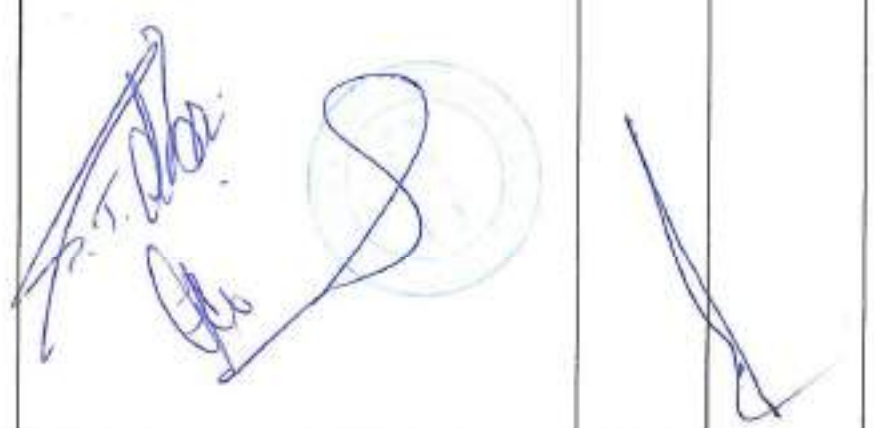
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CIVIL WORKS





S.No	Description	Amount (Rs.)
A SCHEDULE ITEM		
1	EARTH WORKS	343,433
2	SUB STRUCTURE	11,197,523
3	SUPER STRUCTURE	27,583,178
4	MASONRY WORKS	1,771,561
5	THERMAL & MOISTURE PROTECTION	371,032
6	METAL WORKS	1,637,349
7	WOOD WORKS	916,445
8	FLOOR FINISHES	4,818,491
9	WALL FINISHES	3,139,284
10	CEILING FINISHES	1,104,302
11	EXTERNAL FINISHES (BUILDING)	1,506,409
12	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	7,635
Total of Schedule Items		54,396,642
Add <u>19%</u> Premium on Civil Works of PWD-2012		10335361.98
Total of Schedule Items with Premium - A		64732003
B NON-SCHEDULE ITEM		
1	EARTH WORKS	-
2	SUB STRUCTURE	182020
3	SUPER STRUCTURE	-
4	MASONRY WORKS	-
5	THERMAL & MOISTURE PROTECTION	-
6	METAL WORKS	-
7	WOOD WORKS	1139500
8	FLOOR FINISHES	535680
9	WALL FINISHES	-
10	CEILING FINISHES	-
11	EXTERNAL FINISHES (BUILDING)	18870400
12	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	45000
Total of Non-Schedule Items - B		20772600
TOTAL CARRIED TO GRAND SUMMARY (A+B)		85504603
		85504603

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 x 6
SCHEDULE ITEMS						
1		EARTH WORKS				
1.1	Code -103.	Excavation for foundations trenches, drains, underground tanks and septic tanks in gravelly soil (medium dense to very dense fine to coarse grained sandy gravel) and back filling the excavated material in foundation, 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 up to one chain (30.5 R.m) and lift up to 5 feet (1.52 m) etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 2	From ±0'-0" to -5' - 0"	29078 Cft	100 Cft	613.14	178,289
	Item # 2+28	From -5' - 0" to -8' - 0"	3202 Cft	100 Cft	690.49	22,109
	Item # 2+28+28	From -8' - 0" to -11' - 0"	2402 Cft	100 Cft	767.84	18,444
1.2	Code -104 Item #8	Supplying earth from approved outside sources within a radius of 5 miles (8 km) including digging, loading and unloading and filling in foundations trenches plinth or under floor, etc. including breaking clods, dressing, watering and 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 (1.52mm) 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	2,467.50	-
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.	3832 Cft	100 Cft	3,251.34	124,591
						
Total Carried to Summary						343,433

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 x 6
2		SUB STRUCTURE <i>Note: All RCC Concrete will be used only Ready mixed.</i>				
2.1	Code -106	CONCRETE WORKS Providing and laying in situ 1:4:8 (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.				
2.2	Item # 11	Below plinth beam, situ, walls, tanks, over stone soiling or where required (Cylindrical 1000 Psi)	4682 CH	100 CH	14,411.43	674,743
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.				
2.2	Item # 12	For Cast in situ / mass concrete or where required (Cylindrical 1500 Psi)	302 CH	100 CH	15,840.97	47,840
2.3	Code -114	REINFORCED CONCRETE WORKS 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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in columns footing of required shape with columns and pillars, of any 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+136	Foundation for any type (Cylindrical Strength 2500 Psi)	17020 CH	100 CH	17,514.88	2,961,033
						
Total Carried to Collection						3,703,616

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 x 6
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 4500 lbs. per sq. inch (31.04 N/mm ² at 28 days) 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 4000 Psi)	408 Cft	100 Cft	26,704.50	108,954
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 4500 lbs. per sq. inch (31.04 N/mm ² at 28 days) 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/Shear Wall upto plinth (Cylindrical Strength 4000 Psi)	27 Cft	100 Cft	27,958.39	7,549
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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 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+136	Plinth Beams i/c nibs / projections (Cylindrical Strength 2500 Psi)	2794 Cft	100 Cft	18,172.93	507,752
						
Total Carried to Collection						624,255

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 x 6
2.7	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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 in foundation or bottom slab of rectangular underground water tank or septic tank 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 # 99+136	UGWTank Bottom Slab (Cylindrical Strength 2500 Psi)	596 Cft	100 Cft	15,182.84	90,490
2.8	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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 in top slab of rectangular underground water tank or septic tank 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 # 104+136	UGWTank Top Slab (Cylindrical Strength 2500 Psi)	97 Cft	100 Cft	20,471.59	19,857
2.9	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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 in walls of rectangular underground water tank or septic tank 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 # 101+136	UGWTank Walls (Cylindrical Strength 2500 Psi)	381 Cft	100 Cft	20,782.39	79,181
						
Total Carried to Collection						189,528

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 x 6
2.10	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 underground tanks and in projections for future extension etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer. <i>(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).</i>	53187 Kg	Kg	123.02	6,543,065
2.11	Code -124 Item # 93	Providing and fixing plain polyvinyl chloride (PVC) water stops 12" (305 mm) wide in vertical or horizontal expansion joints including cutting and jointing complete in all floors etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	48 Rft	Rft	500.16	24,008
2.12	Code -109 Item # 12	Providing a coat of bitumen emulsion at 10 lbs. per % sqft. (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.	17444 Sft	100 Sft	648.08	113,051
Total Carried to Collection						6,680,124
COLLECTION						
Page No -2						3,703,616
Page No -3						624,255
Page No -4						189,528
Total from this Page						6,680,124
						
Total Carried to Summary						11,197,523

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 x 6
NON-SCHEDULE ITEMS						
2.13		<p>SUB STRUCTURE</p> <p>TERMITE PROOFING</p> <p>Termite control treatment of sub grade soil, excavated surfaces and fill material with HEPTACHLOR emulsifiable to 0.5% with clean water or AGENDA 25 EC containing FIPRONIL or BIFLEX with Bifenthrin or DURSBIN or TENEKIL PLUS or MIRAGE ALI AKBER GROUP or approved equivalent as per manufacturer's specifications and instructions, etc., complete in all respects as per drawing, standard, specifications and as directed by the Engineer.</p> <p><i>(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)</i></p>	9580	Sq	19	182020
Total Carried to Summary						182020

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 x 6
3		SUPER STRUCTURE Note: All RCC Concrete will be used only Ready mixed.				
3.1	Code -114 Item # 4+135+138	REINFORCED CONCRETE WORKS 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/mm ² at 28 days) 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 (Cylindrical Strength 4000 Psi)				
	Item # 24+135+138	Ground Floor	2004 Cft	100 Cft	30,389.36	609,003
	Item # 24+135+138+92	First Floor	1707 Cft	100 Cft	31,338.56	534,949
	Item # 24+135+138+ 92+93	Roof	1707 Cft	100 Cft	32,090.01	547,776
	Item # 24+135+138+ 92+93+93	Upper Roof	1707 Cft	100 Cft	32,841.46	560,604
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 4500 lbs. per sq. inch (31.04 N/mm ² at 28 days) 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.				
		RCC Wall / Shear Wall (Cylindrical Strength 4000 Psi)				
	Item # 30+135+138	Ground Floor	225 Cft	100 Cft	28,692.59	64,558
	Item # 30+135+138+92	First Floor	192 Cft	100 Cft	29,641.79	56,912
	Item # 30+135+138+ 92+93	Roof	192 Cft	100 Cft	30,393.24	58,355
Total Carried to Collection						2,432,157

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 x 6
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) 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. Beams /Arches/ purdi / bracing / lintels / nibs / sills / coping / parapet wall /bands/around opening and projections (Cylindrical Strength 2500 Psi)				
	Item # 38+136	Ground Floor	2778 Cft	100 Cft	20,668.60	574,174
	Item # 38+136+92	First Floor	2778 Cft	100 Cft	21,617.80	600,542
	Item # 38+136+92+93	Roof	2785 Cft	100 Cft	22,369.25	622,984
	Item # 38+136+92+93+93	Upper Roof	3041 Cft	100 Cft	23,120.70	703,100
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 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 and ground floor etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer. Slab i/c projections (Cylindrical Strength 2500 Psi)				
	Item # 57+136	Ground Floor	5109 Cft	100 Cft	19,520.67	997,311
	Item # 57+136+92	First Floor	5109 Cft	100 Cft	20,469.87	1,045,806
	Item # 57+136+92+93	Roof	5109 Cft	100 Cft	21,221.32	1,084,197
	Item # 57+136+92+93+93	Upper Roof	4578 Cft	100 Cft	21,972.77	1,005,913
Total Carried to Collection						6,634,027

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 x 6
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 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.				
		Stair Case / steps / seats (Steps, Landing & Waist slab) (Cylindrical Strength 2500 Psi)				
	Item # 50+136	Ground Floor	493 Cft	100 Cft	25,989.63	128,129
	Item # 50+136+92	First Floor	493 Cft	100 Cft	26,938.83	132,808
	Item # 50+136+92+93	Roof Floor	493 Cft	100 Cft	27,690.28	136,513
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 in a square or 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+136+(127x2)	OH Water Tank Bottom Slab (Cylindrical Strength 2500 Psi)	122 Cft	100 Cft	26,609.81	32,464
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 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+136+(127x2)	OH Water Tank Walls (Cylindrical Strength 2500 Psi)	160 Cft	100 Cft	27,185.58	43,497
Total Carried to Collection						473,411



S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (Rs.)	Amount (Rs.)
1	2	3	4	5	6	7 = 4 x 6
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 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.				
3.9	Item # 118+136+(127x2), Code -114	OH Water Tank Top Slab (Cylindrical Strength 2500 Psi) 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 bonding schedule prepared by the contractor and approved by the Engineer).	88 C#	100 C#	24,213.37	21,308
	Item # 166	Ground Floor	37759 Kg	Kg	123.02	4,645,112
	Item # 166+174	First Floor	35917 Kg	Kg	124.47	4,470,589
	Item # 166+174+175	Roof	35946 Kg	Kg	125.92	4,526,320
	Item # 166+174+175 +175	Upper Roof	34390 Kg	Kg	127.37	4,380,254
Total Carried to Collection						18,043,583
		COLLECTION				
		Page No -7				2,432,157
		Page No -8				6,634,027
		Page No -9				473,411
		Total from this Page				18,043,583
Total Carried to Summary						27,583,178

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
4		DPC & MASONRY WORKS				
4.1	Item # 3 Code-108 Page # 47	Damp Proof Course (DPC) Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded screened bajri 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	194 SF	100 SF	2,659.79	5,160
4.2	Item # 5 Code-108 Page # 47	Extra for using water proofing agent pudlo in item Nos. 4.1 (quantity to be used as per manufacturer's specification/2.50kg per 100SF) etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	5 Kg	Kg	86.10	431
4.3	Code-111 Page # 87 & 82	Block Masonry (Hollow & Solids) Providing and laying 1:3:6 cement concrete hollow block masonry of any thickness using graded screened bajri 1/2 inch (13 mm) and down gauge set in cement mortar 1:4 including scaffolding, raking out joints and curing etc. complete in basement and ground floor superstructure.				
	Item # 1+12+18+19	Ground floor	454 Cft	100 Cft	13,779.44	62,559
	Item # 1+9+12+18+19	First floor	2015 Cft	100 Cft	14,338.43	288,919
	Item # 1+9+10+12+18+19	Second floor	2015 Cft	100 Cft	14,722.11	296,651
	Item # 1+9+10+10+12+ 18+19	Roof	650 Cft	100 Cft	15,105.79	98,188
4.4	Code-110 Page # 77, 80, 81 & 82	Providing and laying 1:3:6 machine made standard size 4"x8"x12" & 6"x8"x12" cement concrete solid block masonry 4 to 6 inches (102 mm to 152 mm) thick using graded screened bajri 3/4 inch (19 mm) and down gauge set in cement 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.				
	Item #44+92+100	Ground floor	1966 Cft	100 Cft	15,933.28	313,248
	Item # 44+92+100+70	First floor	2069 Cft	100 Cft	16,757.05	346,703
	Item # 34+92+100+70+71	Second floor	1330 Cft	100 Cft	16,579.03	220,501
	Item # 44+92+100+70+71 +71	Roof	720 Cft	100 Cft	16,116.01	130,435

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
4.5	Code-110 Page # 76, 80 & 81 Item # 34+92+75+68	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 in steps, stairs of approved design using graded screened bajri 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. FOR BLOCK MASONRY STEPS	50 Cft	100 Cft	17,532.37	8,766
Total Carried to Summary						1,771,561
5		THERMAL & MOISTURE PROTECTION				
5.1	Code-108 Item # 25 Page # 49	Providing and laying 1:9 cement concrete using screened graded bajri 3/4 inch (19 mm) and down gauge in terracing 3 inches (76 mm) average thickness to required slope in panels including form work, consolidation, finishing, curing etc. and painting the surface with plastic bitumen No. 4 at the rate of 1.5 lbs per hundred square feet (0.73 Kg per s.m) blanded with sand at the rate of 2 cubic feet per hundred square feet (0.06 Kg per s.m) complete on ground floor roof. Second Floor & Above	10247 SF	100 SF	3,620.88	371,032
Total Carried to Summary						371,032
6		METAL WORKS				
6.1	Code -119 Item # 43 Page # 240	M.S. / G.I Door Frame 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), 12 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.	778 RH	RH	157.12	122,239
6.2	Code-122 Item #159 Page # 333	Painting iron work with synthetic enamel paint 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.	716 SF	100 SF	2,776.62	19,881
6.3	Code -119 Item #69 Page # 244	Providing and fixing double glazed Bronze anodized or Powder Coated aluminium Sliding/openable windows as per British standard manufactured by Lucky, Alcop, Kudson, Pakistan Cables and A.C.P. (fixing through their approved fabricators). Executive model section double or single glazed 101mm x 37mm and 2mm thick including the cost of aluminium netting, fitting, 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 panes.	0 SF	SF	683.72	-


S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
6.4	Code -119 Item #60 Page # 242	Providing and fixing fully glazed Bronze anodized or powder coated aluminium Fixed windows Partition as per British standard manufactured by Lucky, Alcop, Kruvon, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 101.76mm x 44.50mm and 3mm thick including the cost of aluminium 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 pane.	3115 SF	SF	330.23	1,028,666
6.5	Code -119 Item # 119 Page # 254	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.	3115 SF	SF	88.91	276,955
6.6	Code -119 Item #53 Page # 242	Providing and fixing G.I. pipe railing of 2" (50 mm) diameter, comprising vertical posts and horizontal bracing of G.I. pipe of the same dia as per design including cost of specials, bends, threading, cutting and making good the floor or wall of any kind in cement concrete 1:2:4 etc. complete in any floor.	506 RH	RH	374.72	189,608
Total Carried to Summary						1,637,349
7		WOOD WORKS				
7.1	Code-120 Item # 2 Page # 259	Door Frame Providing and fixing best quality deodar frames for doors, windows, ventilators, clerestory windows, shelves, partitions, trellis work, etc., as required. G.Floor F.Floor S.Floor & Roof	0 CF 5 CF 0 CF	CF CF CF	4,595.14 4,595.14 4,595.14	- 22,976 -
7.2	Code-120 Item # 63 Page # 265	Door Shutter Providing and fixing 1-1/2 inches (38 mm) thick pressed veneered door shutters fully flushed with commercial ply wood veneering on all faces and sides fixed over deodar wood cavities core and frame work of not less than 4 inches (102 mm) wide strip around with approved brass hinges and tower bolts etc., as required, complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	1133 SF	SF	655.18	742,319
7.3	Code -122 Item #159 Page # 333	Paint Painting iron work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coat of any height in any floor etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. For Door Frame	666 SF	100 SF	2,776.62	18,492
7.4	Code-119 Item # 119 Page # 254	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 Door Shutter	76 SF	SF	88.91	6,757
7.5	Code-120 Item # 182 Page # 279	Providing and fixing 2 inches (51 mm) thick best quality deodar wood partition fully glazed with glass panes 24 oz. (7.34 kg./SM.) deodar wood beading with putty packing to glasses etc., as required.	236 SF	SF	408.77	96,470
7.6	Code-120 Item # 169 Page # 280	Providing and fixing wooden partition fully flushed with hard board (masonite) on both face and side fixed on second quality deodar wood frame 3" x 1-3/4" (76 mm x 44 mm) at spacing not exceeding 24 inches (610 mm) horizontal x 18 inches (457 mm) vertical including necessary wooden beading etc., as required.	72 SF	SF	408.77	29,431
Total Carried to Summary						916,445

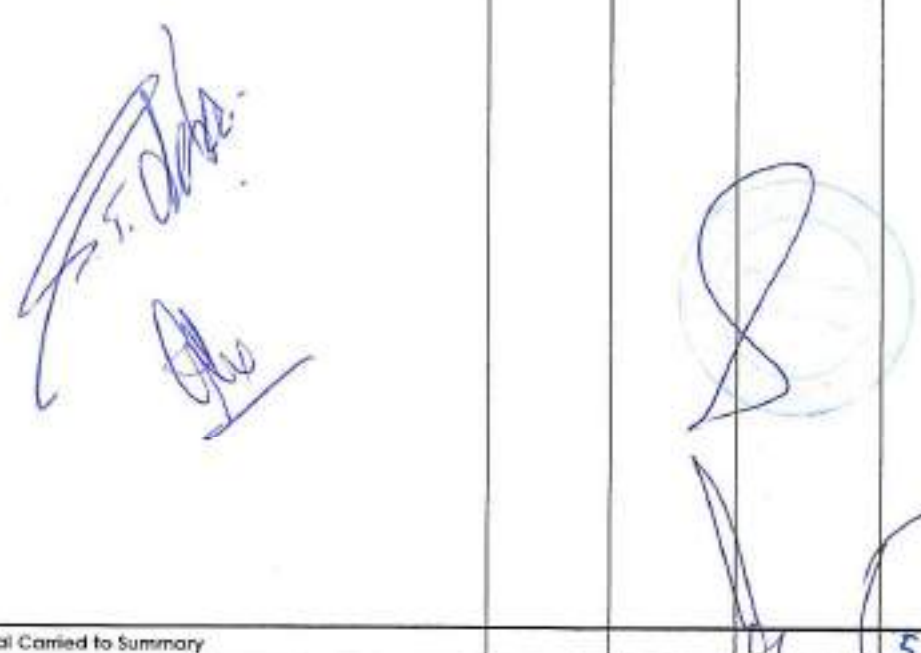
S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
8		FLOOR FINISHES				
8.1	Code-117	Mosaic Tiles Providing and laying 1 inch (25 mm) thick floor of mosaic marble chips tiles 12" X 12" X 1" (1/2 inch topping 1/2" base) or 305 mm X 305 mm X 25 mm (13 mm topping, 12 mm base) in white cement with approved marble chips in ground floor over 1" (25 mm) lime mortar 1:2 (one lime two sand) including setting the tiles with grey cement slurry over lime mortar, jointing and washing the tiles with cement slurry of matching colour including grinding, rubbing, polishing and curing etc. Complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 79 Page# 199	Ground Floor	10167 Sft	100 Sft	12,237.02	1,244,138
	Item # 79+94 Page# 199 & 201	First Floor	8643 Sft	100 Sft	12,432.15	1,074,511
	Item # 79+94+95 Page# 199 & 201	Second Floor & above	19090 Sft	100 Sft	12,564.84	2,398,628
8.2	Code-117 Item # 159 Page# 209	Porcelain Tiles Providing and laying light colour, glazed/non skid vitrified porcelain 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 (1:2) 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.				
	Item # 159 Page# 209	G.Floor	294 Sft	100 Sft	17,882.39	52,574
	Item # 159 Page# 209	First Floor	136 Sft	100 Sft	17,882.39	24,320
	Item # 159 Page# 209	Second Floor	136 Sft	100 Sft	17,882.39	24,320
	Item # 159 Page# 209	Roof	0 Sft	100 Sft	17,882.39	-
Total Carried to Summary						4,818,491
9		WALL FINISHES				
9.1	Code-122	Internal Wall Plaster 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.				
	Item # 6 Page # 320	Ground Floor	11562 Sft	100 Sft	1,730.74	200,108
	Item # 6+87 Page # 320 & 327	First Floor	18901 Sft	100 Sft	1,884.61	356,210
	Item # 6+87+90 Page # 320, 327 & 328	Second Floor	14310 Sft	100 Sft	2,015.87	288,357
	Item # 6+87+90+90 Page # 320, 327 & 328	Roof	9509 Sft	100 Sft	2,145.53	204,018

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
9.2	Code-117 Item # 159 Page# 209	Dado & Skirting Providing and laying light colour, glazed/non skid vitrified porcelain tiles (Polished) not exceeding 1600 Sqcm each. (Pak made) on walls and floors, in any floor, laid with dry bond (stille 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.				
	Item # 159 Page# 209	G.Floor	69 SF	100 SF	17,882.39	12,339
	Item # 159 Page# 209	first Floor	52 SF	100 SF	17,882.39	9,299
	Item # 159 Page# 209	Second Floor	52 SF	100 SF	17,882.39	9,299
	Item # 159 Page# 209	Roof	50 SF	100 SF	17,882.39	8,941
9.3	Code-118 Item # 55 + 58 Page# 219	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 dado and skirting 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 # 55 + 58 Page# 219	G.Floor	280 SF	100 SF	14,274.50	39,969
	Code-118 Item # 55 + 58+60 Page# 219	F.Floor	1545 SF	100 SF	14,567.19	225,063
	Code-118 Item # 55 + 58+60+61 Page# 219	S.Floor & Above	1803 SF	100 SF	14,813.05	267,079
9.4	Code-122	Puddle 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	630 SF	100 SF	2,367.12	14,913
	Item # 8+88	O.H.W.T Plaster	485 SF	100 SF	2,572.28	12,476
9.5	Code-122	Providing and mixing water proofing agent puado in cement mortar of any description in any floor etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 30	U.G.W.T	18 Kg	Kg	86.15	1,551
	Item # 30	O.H.W.T	14 Kg	Kg	86.15	1,206
9.6	Code-122 Item # 162	Painting with (ICI) Deluxe plastic emulsion paint VIP of approved shade two coats over and including the cost of one priming coat complete over plastered surface at any height in any floor.	54282 SF	100 SF	2,742.08	1,488,456
 						
Total Carried to Summary						3,139,284.00

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
10		CEILING FINISHES				
10.1	Code-122	Internal Ceiling Plaster 1/2" (13 mm) thick cement plaster 1:5 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.				
	Item # 6 Page # 320	Ground Floor	10202 Sft	100 Sft	1,730.74	176,570
	Item # 6+87 Page # 320 & 327	First Floor	8643 Sft	100 Sft	1,884.61	162,887
	Item # 6+87+90 Page # 320, 327 & 328	Second Floor	9309 Sft	100 Sft	2,015.07	187,563
	6+87+90+90 Page # 320, 327	Roof	1506 Sft	100 Sft	2,145.53	32,312
10.2	Code-122 Item # 151	Distemping with vinyl distemper (ICI) Deluxe Pointex 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.	29660 Sft	100 Sft	1,053.54	312,480
10.3	Code-124 Item # 182 Page# 361	Providing and fixing Gypsum board 2' x 2' x 12mm tiles ceiling including Aluminum T & L angle 1" x 1" Lc hanger clips joining clips and G.I Wire etc. complete as required in any floor.	0 Sft	Sft	71.69	-
10.4	Code-124 Item # 183 Page# 361	Providing and fixing mineral fiber tiles 2' x 2' x 12mm ceiling including T & L angle hanger clips joining clips and G.I Wire etc. complete as required in any floor.	3000 Sft	Sft	77.49	232,470
Total Carried to Summary						1,164,302
11		EXTERNAL FINISHES				
11.1	Code-122	External 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 Page # 320	Ground floor	2356 Sft	100 Sft	2,367.12	55,769
	Item # 8+88 Page # 320 & 327	First Floor	4415 Sft	100 Sft	2,572.28	113,566
	Item # 8+88+91 Page # 320, 327 & 328	Second Floor	4542 Sft	100 Sft	2,746.22	124,733
	Item # 8+88+91+91 Page # 320, 327	Roof	2330 Sft	100 Sft	2,920.16	68,040
11.2	Code-122 Item # 83 Page # 327	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. 11.1	151 Sft	100 Sft	518.48	783
11.3	Code-122	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				
	Item # 172	Ground Floor to Roof	500 Sft	100 Sft	1,406.88	7,034

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
11.4	Code-122	Providing and applying colour Crete 1/4" (6.4 mm) 1:1:2 (1 white cement mixed with pigment, 1 marble powder and 2 marble chips zero No.) with horizontal & vertical joints or Grooves including dragging the surface with wire brush complete with curing etc., over base of 3/4" (19 mm) thick cement plaster 1:3 in plinth, mezzanine and ground floor including chiseling the surface to give texture of stone including the cost of base course etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer,				
	Item # 79+82+83 Page # 326 & 327	Ground Floor	2356 Sft	100 Sft	8,043.11	189,496
	Item # 79+82+83+86	First Floor	4415 Sft	100 Sft	8,248.27	364,161
	Item # 79+82+83+88+91 Page # 326 & 327	Second Floor	4542 Sft	100 Sft	8,422.21	382,537
	Item # 79+82+83+88+91+91	Roof	2330 Sft	100 Sft	8,596.15	200,290
11.5	Item # 88 Page # 149 & 150	Providing and fixing 1:2 precast reinforced or plain cement concrete jali or louvers up to 2 inches (51 mm) thick in required shape including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in ground floor (no deduction for holes shall be made)				
	Item # 88	Ground Floor	0 Cft	100 Cft	33,815.30	-
	Item # 88+94	First Floor	0 Cft	100 Cft	34,478.61	-
	Item # 88+94+95	Second Floor	0 Cft	100 Cft	34,995.59	-
Total Carried to Summary						1,506,409
12		EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)				
12.1	Code-117	C.C 1:2:4 floor				
	Item # 7	Providing and laying floors of 3 inches (76 mm) thick 1:2:4 cement concrete using graded screened bajri 3/4 inch (19 mm) and down gauge in ground floor laid in panels including form work, consolidation, finishing and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the				
		Ground Floor	178 Sft	100 Sft	4,289.49	7,635
Total Carried to Summary						7,635

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
NON-SCHEDULE ITEMS						
7		All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respects and to the entire satisfaction of the Engineer.				
		WOOD WORKS				
		FIRE RATED DOORS				
7.1	NSI	Providing and fixing wooden fire rated doors: single & double leaf as per drawing with frames: factory fabricated meet the requirements of the BM TRADA "Q1" Mark Third Party Accredited scheme, tested in accordance with BS476 P122 1997 achieving a FD 60 minutes fire resisting rating, including standard fire door hardware fire rated locks or exit devices with latching units and exposed door closer (clamp or equivalent) key and thumb turn concealed /SS with SS hinges complete 50mm wall size frame and spray paint finish etc., complete from Safeco or approved as per specifications & relevant drawings, and to the entire satisfaction of the Engineer.	215	Sft	5300	1139500
						
Total Carried to Summary						1139500


S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
8		All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respects and to the entire satisfaction of the Engineer.				
8.1	N.S.I	FLOOR FINISHES Providing and laying Terrazzo tiles/slab with bull nosing in one piece /full length (up to 5 feet long) 1-1/2" thick for treads consisting of 3/4" thick topping 1:2 (One gray cement 2 approved marble chips No. 0 to 4 & chapcha) in white cement over a base 1:2:4 (One cement, two sand & four crush) cement concrete 3/4" thick in any floor laid with cement slurry/dry over existing surface including jointing with approved quality grouting material & grinding, polishing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
		Ground Floor	384 Sft	Sft	310	119040 ✓
		First Floor	384 Sft	Sft	310	119040 ✓
		Second Floor	384 Sft	Sft	310	119040 ✓
8.2	N.S.I	Providing and laying Terrazzo tiles/slab in one pieces for Risers at consisting of 1/2" thick 1:2 (One gray cement 2 approved marble chips No. 0 to 4) laid with cement slurry/dry board over existing surface in any floor including jointing with approved quality grouting material & grinding, polishing complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
		Ground Floor	192 Sft	Sft	310	59520 ✓
		First Floor	192 Sft	Sft	310	59520 ✓
		Second Floor	192 Sft	Sft	310	59520 ✓
						
Total Carried to Summary						535680 ✓

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
11		EXTERNAL FINISHES				
11.1	N.S.I	Providing, fabricating and fixing Roof Skylight comprising of Fiber glass sheet canopy with all required hardware's & accessories for fixing, skylight to be fixed on top of RCC lintel / beams above high level, all as per details and design drawings. Contractor is to be ensure stability of Skylight structure due to self weight (dead load) & high wind pressure & uplift etc. Complete in all respect as per drawings, specification and as directed by the Engineer. (Shop drawing and load /wind calculation to be provided for approval before fabrication)	2015 Sft	Sft	4060	8180700
11.2	N.S.I	External Building LOGO's Provide, make, finish and fix in position LOGO & LETTERING ("SINDH MADRESSATUL ISLAM UNIVERSITY -LIBRARY") lettering with 4" dia Logo on External walls including 2" thick Plaster in 1:4 cement, sand mortar with LOGO made of Stainless Steel Sheet (size as shown in drawing), fixed to walls with 3" long steel rowel bolts, strictly according to drawings. This includes three coats of plastic emulsion paint and preparation of surface with filling manufactured by ICI, all nails, screws, glues etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	40 Each	Each	20000	800000
		a) Lettering with 4" dia Logo	150 Each	Sft.	50	7500
11.3	N.S.I	Providing and fixing Kapral/Clay tile of approved size, thickness, colors & patterns, over roof, including fixing with 1:4 cement sand mortar/Dry bond, grouting with approved material including cutting, jointing, curing, etc complete in all respect as per drawings, specifications and the satisfaction of the Engineer. (at any height in any floor)	8235 Sft	Sft	1200	9882000
Total Carried to Summary						18870400
12		EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)				
12.1	N.S.I	Providing and making Planter/ land escaping as shown on drawing all works comprising (earth filling, sweet earth with manure plants and grasing compacting, curing, finishing & leveling) etc., excluding tree, complete in all respects as per drawing, standard, specifications and direction of the Engineer.	75 Sft	Sft	600	45000
Total Carried to Summary						45000

ELECTRIC WORKS



Lot # 2
BILL OF QUANTITIES
SUMMARY


S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
NON-SCHEDULE ITEMS		
1	INTERNAL ELECTRIFICATION	1504434.14 ✓ 308,397.15
2	L.V. PANELS & DISTRIBUTION BOARDS	305096.70
3	LOW VOLTAGE CABLES AND WIRES	43208 ✓
4	CONDUITS & PIPES	42468.70 ✓
5	WIRING ACCESSORIES	600608 ✓
6	LIGHT FIXTURE & FANS	84615.6 ✓
7	EXTERNAL LIGHTING	37944 ✓
8	CABLE TRAY	229735 ✓
9	EARTHING SYSTEM	605956 ✓
10	UPS SYSTEM (ON HOLD)	
11	LIGHTNING PROTECTION SYSTEM (LPS)	283172 ✓
		
TOTAL AMOUNT CARRIED TO GRAND SUMMARY		4498777 4,502,079 ✓

Lot # 2

BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
NON-SCHEDULE ITEMS					
1	INTERNAL ELECTRIFICATION				
a)	<u>3 WIRE IN PVC RECESSED CONDUIT</u>				
i	Wiring for sub-main with 3x 1.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	3,665	Mtr.	158	579070
ii	Wiring for sub-main with 3x 2.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	1,640	Mtr.	158	259120
iii	Wiring for sub-main with 3x 4 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	540	Mtr.	158	85320
b)	<u>3 CORE CABLE WITH ECC WIRE IN EXISTING PIPE OR CABLE DUCT</u>				
i	Providing & laying, 3 core, 4 mm ² , stranded copper conductor, PVC insulated & PVC sheathed cable I/c 1.5 mm ² single core PVC insulated wire as ECC in all kinds of existing or given conduit/cable duct as required.	1,320	Mtr.	197.67	260924.40
ii	Providing & laying, 3 core, 6 mm ² , stranded copper conductor, PVC insulated & PVC sheathed cable I/c 2.5 mm ² single core PVC insulated wire as ECC in all kinds of existing or given conduit/cable duct as required.	1,280	Mtr.	250	320000
CARRIED TO ELECTRICAL SUMMARY =====>>>>					15044344

Lot # 2
BILL OF QUANTITIES


S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
2	L.V. PANELS & DISTRIBUTION BOARDS				
a)	Supply, installation, testing & commissioning of Wall/Flush mounted Main Distribution Board (MDB) / Sub Main Distribution Board (SMDB) / Distribution Boards (DB), made with 16 SWG sheet steel metal, as per single line diagram, dust protected, vermin proof housing coated with approved color having all the necessary switching & protections, including all mounting accessories as per specifications and drawings, complete in all respect.				
i	MDB-UL	1	No.	21085.9	21085.90
ii	DB-UL-GF	1	No.	21085.9	21085.90
iii	DB-UL-1F	1	No.	17132	17132
iv	DB-UL-1F-AC	1	No.	17132	17132
v	DB-UL-1F-ICT	1	No.	17132	17132
vi	DB-UL-2F	1	No.	21085.9	21085.9
vii	EDB-UL-2F-AC	1	No.	17132	17132
b)	Supply, installation, testing & commissioning of following Isolators, in 16 SWG sheet steel enclosure with neutral and earth terminal strips, including all mounting accessories as per specification & drawing, complete in all respect.				
i	20A, SPN Isolator	33	Nos.	2636	86988/-
ii	32A, SPN Isolator	32	Nos.	2636	84352
iii	40A, TPN Isolator	1	Nos.	5271	5271
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					305096.70 308,397

Lot # 2

BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
3	LOW VOLTAGE CABLES AND WIRES Supply, laying, termination and commissioning of following copper conductor Armored cable in already laid PVC conduit / cable tray / trench as required as per drawing and specification, complete in all respect.				
a)	4 Core - Cu.XLPE/PVC Cable (600/1000V)				
i	4 Core - 70 Sq.mm Cu/PVC Cable	30	Mtr.	250	7500 ✓
ii	4 Core - 35 Sq.mm Cu/PVC Cable	20	Mtr.	237	4740 ✓
b)	4 Core - Cu.PVC/PVC Cable (600/1000V)				
i	4 Core - 10 Sq.mm	140	Mtr.	145	20300 ✓
c)	1 Core - CU/PVC Cable as ECC				
i	1 Core - 35 Sq.mm Cu/PVC Cable	30	Mtr.	65.8	1974 ✓
ii	1 Core - 16 Sq.mm Cu/PVC Cable	20	Mtr.	65.8	1316 ✓
iii	1 Core - 10 Sq.mm Cu/PVC Cable	140	Mtr.	52.7	7378 ✓
CARRIED TO ELECTRICAL SUMMARY =====>>>>					43208 ✓

Lot # 2
BILL OF QUANTITIES


S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
4	CONDUITS & PIPES				
a)	Providing and laying of following size (inner dia) PVC / UPVC Conduit as race ways with all accessories recessed / surface on wall / column / under floor for Power. As per specifications and drawings. complete in all respect.				
i	32 mm dia PVC	10	Mtr.	237	2370 ✓
ii	38 mm dia PVC	30	Mtr.	237	7110 ✓
b)	Providing and laying of UPVC (Class-D) pipe having dia of following size. Buried in ground as per drawing. Including excavation for laying of pipe and backfilling with clean sand (under and above pipe), compaction, concrete, plugging of pipe ends etc. as shown on drawing complete in all respect.				
i	100 mm dia UPVC (Class-D)	15	Mtr.	790	11850 ✓
c)	Providing and Construction of Manhole Size 600x600x900 mm deep, 6" thick, concrete 1:2:4 ratio with 600mm round heavy duty cast iron cover, 100% water proof, complete in all respect.	1	No.	21086	21086 ✓
d)	Providing & installing of Pull Box as per drawing and specification, complete in all respect.	1	No.	52.70	52.70 ✓
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>>					
					42468.70 ✓

Lot # 2
BILL OF QUANTITIES


S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
5	WIRING ACCESSORIES				
a)	Supply, installation, testing & commissioning of following 10/13/15/20A, 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 specification, complete in all respects.				
i	10A, One Gang Switch	22	Nos.	1318	28996 ✓
ii	10A, One Gang Switch (2-Way)	16	Nos.	1318	21088 ✓
iii	10A, Two Gang Switch	18	Nos.	1318	23724 ✓
iv	10A, Three Gang Switch	6	Nos.	1318	7908 ✓
v	10A, Four Gang Switch	37	Nos.	1318	48766 ✓
vi	10A, Double Pole Switch	1	Nos.	1318	1318 ✓
vii	10A, 2-Pin 1-Gang Switched Socket Outlet	95	Nos.	1318	125210 ✓
viii	13A, 3-Pin Flat 2-Gang Switched Socket Outlet	36	Nos.	922	33192 ✓
ix	15A, 3-Pin Switched Socket Outlet	2	Nos.	790	1580 ✓
x	13A, Unswitched Spur Outlet	7	Nos.	922	6454 ✓
xi	Flex Outlet	1	No.	2372	2372 ✓
xii	63A, 5-pin Three Phase Industrial Socket with plug top	1	Nos.	300000	300000 ✓
CARRIED TO ELECTRICAL SUMMARY =====>>>>					600608

Lot # 2


BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
6	LIGHT FIXTURE & FANS				
a)	Supply, installation, testing & commissioning of following light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per specification, 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	Type D1	190	Nos.	1318	250420
ii	Type D2	28	Nos.	1318	36904
iii	Type D3	379	Nos.	1318	499522
iv	Type D4	35	Nos.	1318	46130
v	Type D5	2	Nos.	1318	2636
vi	Type LD1	8	Nos.	1318	10544
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					846156

Lot # 2
BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
7	EXTERNAL LIGHTING				
a)	Supply, installation, testing & commissioning of following light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per specification, 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	Type R1 - Wall mounted Ramp light Die Cast Aluminum Light Fixture (IP-67) with PC Diffuser and 1x10W LED	4	Nos.	2108	8432
ii	Type W2 - Surface Wall mounted Weatherproof type Light Fixture (IP-54) Body made of Polycarbonate with 1x15W LED	14	Nos.	2108	29512
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					37944


Lot # 2
BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
8	CABLE TRAY				
a)	Providing, fabricating, erecting, fixing and installing of following size of base perforated Cable Tray, Fabricated with 16 SWG MS Sheet steel Hot dip Galvanized including all installation accessories (Hot Dip Galvanized) such as appropriate sizes and lengths of MS Rod / Angle Iron Supports and Rawl Bolts, including cutting, welding, jointing and necessary required hardware etc. Complete in all respect as shown in drawings and specification or as directed by the Engineer.				
i	6" x 2" (150mm x 50mm)	90	Mtr.	922	82980 ✓
ii	12" x 2" (300mm x 50mm)	35	Mtr.	1821	63735 ✓
iii	24" x 2" (600mm x 50mm)	35	Mtr.	2372	83020 ✓
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					229735 ✓

Lot # 2
BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
9	EARTHING SYSTEM				
a)	Supply, installing, testing and commissioning of following items for complete earthing system including all connecting accessories as per drawings and specifications complete in all respect.				
i	Earth pit with Rod type earth electrode, 3/4" dia and 3 meters long copper rod .	2	No.	197680	395360 ✓
b)	Supply, installing, testing and commissioning of following items for complete clean earthing system including all connecting accessories as per drawings & specifications complete in all respect.				
i	Earth pit with Rod type earth electrode, 3/4" dia and 3 meters long copper rod .	1	Job.	197680	197680 ✓
c)	Supply, Installation, Testing and Commissioning of Earth Copper Bar 300x50x6 mm for earthing system as per drawings and instruction of consultant.	2	Nos.	1318	2636 ✓
d)	Supply, laying, testing and commissioning of 1x16 Sq.mm PVC insulated Cu. Conductor cable as earth continuity conductor (ECC) in 25 mm dia uPVC conduit, complete in all respect.	20	Mtr.	395	7900 ✓
e)	Supply, laying, testing and commissioning of 1x70 Sq.mm PVC insulated Cu. Conductor cable as earth continuity conductor (ECC) in 32 mm dia uPVC conduit, complete in all respect.	20	Mtr.	119	2380 ✓
CARRIED TO ELECTRICAL SUMMARY =====>>>>					605956

Lot # 2
BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
10	<p>UPS SYSTEM</p> <p>a) Providing, installing, testing & commissioning of True Online Double Conversion UPS rating 16 kVA Three Phase in, Three Phase out, minimum 0.9 output power factor with 10 minutes battery backup, batteries with related DC cables from UPS to batteries, external bypass and all accessories as per specifications & drawings, complete in all respect.</p>				
<p>NOT APPLICABLE</p>					
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					

Lot # 2
BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
11	LIGHTNING PROTECTION SYSTEM (LPS)				
a)	Supply, installation, testing and commissioning of 27mm x 2mm Tinned Copper Tape to be run on roof and on the elevation of the building as required and shown on drawings including all fixing accessories etc., as per specification, as per site requirement necessary for the functioning of the system and drawing, complete in all respect.	110	Mtr.	395	43450
b)	Supply, installation, testing and commissioning of Early Streamer Emission (ESE) Air Terminal mounted on 2 meter elevation mast, as per drawing, complete in all respect and having following specifications: Efficiency: 60 micro seconds Lightning current withstanding test (10/350 μ s): 100 kA ESE Central Rod: Nickel Plated Copper Metal Housing : Stainless Steel 316L Protection Radius : 31 meter at 2 meter height	1	No.	39537	39537
c)	Providing and installation of 2 meter high elevation mast consisting side wall mounting bracket for installation and fixing of ESE Air Terminal, as per drawing and specification as per site requirement necessary for the system, complete in all respect.	3	No.	39537	118611
d)	Providing and installation of pyramid holdfasts / studs filled with cement for holding and supporting the flat tape conductor, as per drawing and specification as per site requirement necessary for the system, complete in all respect.	40	Nos.	1318	52720
e)	Providing and installation of lightning flash counter as per drawing and specification as per site requirement necessary for the system, complete in all respect.	1	No.	3954	3954
f)	Providing and installation of Earth Electrode Copperband earth rod 3 meters and clamp, Polypropelene earth pit, as per drawing and specification, complete in all respect.	6	No.	2108	12648
g)	Providing and installation of Test Clamp and Guard Tube 2 m in length, as per drawing and specification, as per specification, as per site requirement necessary for the functioning of the system, complete in all respect.	2	Job.	5271	10542
h)	Supply, laying, testing and commissioning of 1x70 Sq.mm PVC insulated Cu. Conductor cable in 32 mm dia uPVC Pipe at ground level connecting Lightning protection pit to power earthing pits, complete in all respect.	10	Mtr.	171	1710
CARRIED TO ELECTRICAL SUMMARY =====>>>>					283172

ELV WORKS



Lot # 2
BILL OF QUANTITIES
SUMMARY

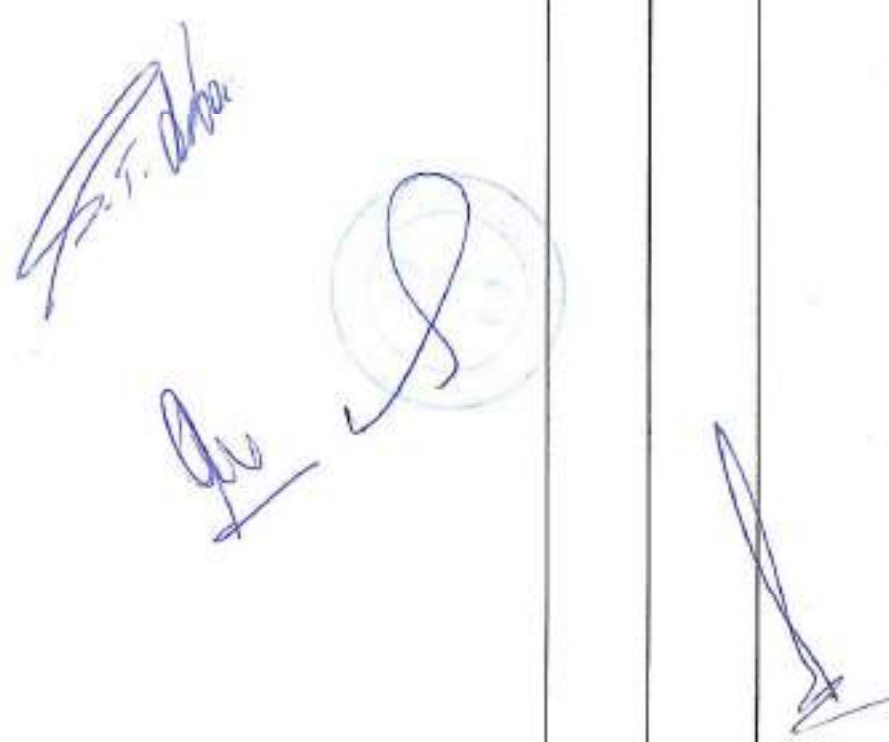
S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
NON-SCHEDULE ITEMS		
1	CONDUITS & PIPES	28355/-
2	VOICE, DATA COMMUNICATION & CCTV CABLING SYSTEMS (Passive Equipment Only) (Equipments & cabling on HOLD, only conduiting in Contractor's Scope)	135200 ✓
3	ACCESS CONTROL SYSTEM (On HOLD)	
4	CCTV SYSTEM (On HOLD)	
5	ADDRESSABLE FIRE ALARM SYSTEM (Equipments & cabling on HOLD, only conduiting in Contractor's Scope)	48165.0 ✓
6	SELF CONTAINED EMERGENCY LIGHTS (On HOLD)	
7	CABLE TRAY	342000 ✓
TOTAL AMOUNT CARRIED TO GRAND SUMMARY		525365 553,720 ✓

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Lot # 2
BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
NON-SCHEDULE ITEMS					
1	CONDUITS & PIPES				
a)	Providing and laying of following size UPVC pipe of Class D for Telecommunication Cable (copper / optic fiber). Buried in ground / under roads / under floor as per specification. Including excavation for laying of pipe, bricks, warning tape and backfilling with new and fresh soil etc., as shown on the drawing, complete in all respect.				
i	2' dia UPVC	15	Mtr.	457	6,855
b)	Providing and Construction of Manhole Size 2' x 2' x 3' mm deep 6" thick concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, complete in all respect. (For Incoming Telecommunication cables).	1	No.	20,000	20,000
c)	Providing & installing of Pull Box as per drawing and specification, complete in all respect.	1	No.	1,500	1,500
					
CARRIED TO ELV SUMMARY =====>>>>					28,355

Lot # 2
BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
2	VOICE, DATA COMMUNICATION & CCTV CABLING SYSTEMS (Passive Equipment Only) a) Providing, installation, testing and commissioning of following Data / Voice Cabinets, for patch panel, Fiber panels, adapter, PDU's, Fans and space for active switches as it may require to accommodate complete the entire passive and active network as per the single line diagram drawing and specification, complete in all respect. i) 12U Data Rack in IT Room (800mmx800mm) b) Supply, installing, 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. c) Providing, fixing, testing and commissioning of 4 Pair RJ-45, Cat-6 Simplex Outlet for Data with I/O - Shutter type with 16 SWG back box as per drawing and specification, complete in all respect. d) Supply, installing, testing and commissioning of Single RJ-45, Cat-6 outlet for Camera with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect. e) Supply, installing, testing and commissioning of Single RJ-45, Cat-6 outlet for WIFI with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect. f) Supply, installing, testing and commissioning of Single RJ-45, Cat-6 outlet for Projector with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.				

NOT APPLICABLE

F. I. Khan
QW
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Lot # 2
BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
g)	Supply, laying, testing and commissioning of CAT-6, 4 pair cable for Single RJ-45 outlet (Data, Voice, Camera, Wifi, Projector and Access control system) in 25mm dia PVC conduit concealed/surface from each outlet to IDF racks, including tagging and piping with all necessary accessories, complete in all respect. (Cabling on HOLD, only conduiting in Contractor's Scope)	1600	Mtr.	84.5	135200

S.T. Khan

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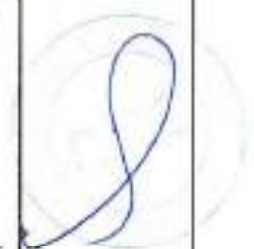
Lot # 2

BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
h)	Supply, laying, testing and commissioning of Cat 5, 25 pair Backbone cable from MTJB to remaining TJB in already laid cable tray / conduit, including with all the necessary accessories as per drawing and specifications, complete in all respect.				
i)	Supply, laying, testing and commissioning of 8 core multi mode OM3 Fiber optic cable from IDF Rack to remaining IDF Racks in already laid cable tray / conduit, including with all necessary accessories, as per drawing and specification, complete in all respect.				
k)	Supply, laying, testing and commissioning of 2 core single mode OS2 Fiber optic cable from Server room to remaining IDF Racks in already laid cable tray / conduit, including with all necessary accessories, as per drawing and specification, complete in all respect.				
l)	Supply, installing, testing and commissioning of 24 port Cat 6, RJ 45 UTP Patch Panel fully loaded with patch less jacks and rear cable manager, as per drawing and specification, complete in all respect.				
m)	Supply, installing, testing and commissioning of 24 port Fiber Patch Panel fully loaded with pigtails etc., and rear cable manager, as per drawing and specification, complete in all respect.				
n)	Supply, installing, testing and commissioning of 19" front/rear (as required) cable organizer between patch panels and active equipment to provide patch cable management including with all necessary accessories, as per drawing and specification, complete in all respect.				
o)	Providing, 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 (1m) Long Patch Cord.				
ii	CAT-6 (2m) Long Patch Cord.				
p)	Supply, installing, testing and commissioning of following blocks in Telephone junction boxes as per drawing and specification, complete in all respect.				
i	50 Pair IDC Block				

NOT APPLICABLE






Lot # 2

BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
q)	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.				
CARRIED TO ELV SUMMARY =====>>>>					

NOT APPLICABLE

Lot # 2
BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
3	<p>ACCESS CONTROL SYSTEM</p> <p>a) Supply, installing, testing and commissioning of 2 Door Controller LAN Based with power supply, as per drawings and specification, complete in all respect.</p> <p>b) Supply, installing, testing and commissioning of BIO Proximity Card Reader, as per drawings and specification, complete in all respect.</p> <p>c) Supply, installing, testing and commissioning of Exit Control Push Button, as per drawings and specification, complete in all respect.</p> <p>d) Supply, installing, testing and commissioning of Electromagnetic Door Lock with matching power supply, as per drawings and specification, complete in all respect.</p> <p>e) Supply, installing, testing and commissioning of PVC Card for Reader, as per drawing and specifications, complete in all respect.</p> <p>f) Installation, testing, commissioning & programming by Manufacturer Authorized Agent / Dealer and handing over complete Access Control System to Owner with providing training, SOP, complete equipment's manual and warranty documents to Owner's Representative.</p>				
CARRIED TO ELV SUMMARY =====>>>>					

NOT APPLICABLE

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Lot # 2
BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
4	<p>CCTV SYSTEM</p> <p>a) Supply, installing, testing and commissioning of 2 MP IP based camera with 1/2.8" CMOS 3.3 to 12mm varfocal lens, power adpoter, wall mounted bracket, and IP-65 housing, complete in all respect with fixing accessories, as per drawing and specifications, complete in all respect.</p> <p>b) Supply, installing, testing and commissioning of 2 MP IP based indoor Dome camera with 1/2.8" CMOS 3.3 to 9mm varfocal lens, power adpoter, complete in all respect with fixing accessories and bracket assembly, as per drawing and specifications, complete in all respect.</p> <p>c) Installation, testing, commissioning, programming by Manufacturer Authorized Agent / Dealer and handing over complete CCTV System to Owner with providing training, SOP, complete equipment's manual and warranty documents to owners representative.</p>				
CARRIED TO ELV SUMMARY =====>>>>					

NOT APPLICABLE





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Lot # 2
BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
5	<p>ADDRESSABLE FIRE ALARM SYSTEM</p> <p>a) Providing, laying, testing and commissioning of Wiring for complete Fire Alarm System with 2C-1.5 Sq.mm 2 hrs rated, Fire Resistant Cable in 25 mm dia PVC conduit concealed, (M.S conduit for surface) etc., including any wiring between fire alarm control panel and other's systems control panels etc. Complete in all respect. (Cabling on HOLD, only conduiting in Contractor's Scope)</p> <div style="text-align: center; margin-top: 200px;">  </div>	570	Mtr.	84.50	48165.00


Lot # 2

BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
b)	Providing, installation, testing and commissioning of Addressable Photoelectric Smoke Detector with base and back box, as per drawing and specification, complete in all respect.				
c)	Providing, installation, testing and commissioning of Addressable Heat Detector with base and back box, as per drawing and specification, complete in all respect.				
d)	Providing, installation, testing and commissioning of Addressable Manual Call Point with base and back box, as per drawing and specification, complete in all respect.				
e)	Providing, installation, testing and commissioning of Addressable Sounder with flasher and base and back box, as per drawing and specification, complete in all respect.				
f)	Providing, installation, testing and commissioning of Addressable Input / Output Interface unit, as per drawing and specification, complete in all respect.				
g)	Providing, installation, testing and commissioning of 01 Loop Addressable Fire Alarm Control Panel (FACP), including all necessary accessories, identification tagging etc. and battery back up. FACP as per drawing and specification, complete in all respect.				
h)	Installation, testing and commissioning, Softwear, Programming by Manufacturer Authorized Agent / Dealer and handing over complete Fire Alarm system to owner with providing training, SOP, complete equipment's manual and warranty documents to Owner's Representative.				
   					
CARRIED TO ELV SUMMARY =====>>>>					


Lot # 2

BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
6	SELF CONTAINED EMERGENCY LIGHTS				
a)	Supply, installing, testing and commissioning of following items for self contained emergency lights with all fixing accessories as per drawing and specification, complete in all respect.				
i	7W, Emergency light with self contained Battery, Surface / Wall mounted IP-65 as per specification and drawing complete in all respect. (non-maintained)				
ii	7W, Emergency light with self contained Battery, Ceiling mounted IP-20 as per specification and drawing complete in all respect. (non-maintained)				
iii	7W, EXIT light with self contained Battery, non viewing, Surface mounted IP-65 as per specification and drawing complete in all respect. (non-maintained)				
<p>NOT APPLICABLE</p> 					
<p>CARRIED TO ELV SUMMARY =====>>>></p>					

Lot # 2

BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
7	CABLE TRAY				
a)	Providing and Installing of following size of base perforated for ELV System, Fabricated with 14/16 SWG MS Sheet steel Hot dip Galvanized with Cover including all installation accessories (Hot Dip Galvanized) such as appropriate sizes and lengths of M.S Rod / Angle Iron Supports and Rawl Bolts etc. Complete in all respect as shown in drawings and specification or as directed by the Engineer.				
i	100 x 50mm 16 SWG	60	Mtr.	4200	252000
ii	300 x 50mm 16 SWG	20	Mtr.	4500	90000
					
CARRIED TO ELV SUMMARY =====>>>>					342000

PLUMBING WORKS




S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
A. SCHEDULE ITEMS		
1	Plumbing Fixtures	189,992
2	Manholes & Gully traps	34,884
	SUB-TOTAL - A	224,876
	Add <u>43%</u> Above/Below/At par on Plumbing Works of Composite Schedule of Rates 2012, PWD Schedule 2012	96696
	TOTAL (Schedule Item With Premium) - A	321572.76
B. NON-SCHEDULE ITEMS		
1	Water Supply	1164200
2	Sanitary Sewage	1657760
3	Fire Fighting Works	1224763
	TOTAL (Non-Schedule Items) - B	4046723
	TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B) FOR 1 No.	4368295.76

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Item No.	FWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		2	3	4	5	6 = (3 x 5)
SCHEDULE ITEMS						
		PLUMBING FIXTURES:				
1	301-1	Providing and fixing best quality squatting type glazed earthward W.C.Pan, Pakistan (of not less than 18" clear opening as measured between the flushing rim) Complete with and including the cost of 13.6 liters best quality low level plastic flushing cistern with internal fittings complete, P.V.C. flushing pipe suitable for this type with fittings and making requisite number of holes in walls, plinth & floor for pipe connections and making good in cement concrete 1:2:4.	6	Nos.	3,425	20,550
2	301-6	Providing and fixing Pakistani make best available quality European style white glazed earthenware wash down W.C.Pan complete with and including the cost of a plastic seat (PVC cover and buffers 3 galls. (13.6 liters) white glazed earthenware low level flushing cistern with siphon fittings, 1-1/2 inches (40mm) dia white porcelain enameled flush bend, 3/4 inch (20mm) dia. G.I. warning pipe carried outside and bent vertically downwards and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	6	Nos.	4,805	28,830
3	301-7	Providing and fixing Pakistani make flat back lipid front urinal basin (of not less than 17 inches or 430 mm in height of white glazed earthenware complete with and including the cost of one gallon (4.5 liters) glazed earthen ware automatic flushing cistern with fittings a pet cock brackets standard flush pipe with fittings, standard waste pipe (enameled iron) connection complete and making requisite number of holes in walls plinth and floor for pipe connections and making good in cement concrete 1:2:4	0	Nos.	2,804	-
4	301-8 & 10 & 14	Providing and fixing 25 inches x 18 inches (635 mm x 457 mm) lavatory basin in white glazed earthenware (Pakistani) complete with and including the cost of Brass oxidized bolts kit built into wall 1/2 inch (15 mm) dia. Chrome plated mixer 1-1/4' inches (32mm) rubber plug and chrome plated brass chain, 1-1/4 inches (32 mm) dia brass waste of approved pattern, 1-1/4 inches (32 mm) dia. Malleable iron or C.P. brass traps malleable iron or brass unions and making requisite number of holes in walls plinth and floor for pipe connections and making good in cement concrete 1:2:4 Extra over item No. 8 and 9 (Wasg basin) for providing and fixing best available (Pakistani make) white glazed earthenware pedestal. Extra over item No.8 and 9 for providing single hole chromium plated mixer tap 1/2 inch (15 mm) dia (English or approved foreign make).	12	Nos.	7,225	86,700
Continued..						


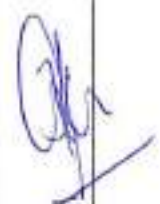

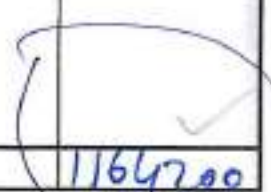
Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		2	3	4	5	6 = (3 x 5)
		<u>PLUMBING FIXTURES (Cont...)</u>				
5	301-13	Providing and fixing Shower tray made of fiber glass of any color and design 31 inches x 31 inches (787 mm x 787 mm).	0	Nos.	2,394	-
6	301-20	Providing and fixing standing wall shower of CP brass 3 knobs of approved quality mixer unit and moveable shower head complete..	0	Nos.	4,590	-
7	301-21	Providing and fixing approved quality stainless steel sink 60" x 20" Pak made (Atlas) complete with brass oxidized bolt kit/angle iron brackets built into walls 1/2" dia CP sink mixer 1-1/4" rubber plug and CP brass chain 1-1/4" CP brass waste 1-1/4" dia malleable iron or CP brass bottle trap with malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	0	Nos.	18,677	-
8	302-6	Providing and fixing 20 inches x 16 inches (508 mm x 406 mm) Looking mirror of Belgium glass complete with Plastic frame and C.P. Brass screws.	0	Nos.	923	-
9	302-9	Providing and fixing bath room accessories of set of 6 pieces consist of one shelf, one towel rod with bracket, one soap dish, one tooth brush holder with glass and cover, one tissue paper holder one double hook one towel ring etc., complete of approved quality as per direction of Engineer in-charge.	4	Nos.	12,757	51,028
10	302-13	Providing and fixing chrome plated Muslim bib-cock without Muslim shower of approved quality	4	Nos.	721	2,884
						
AMOUNT CARRIED TO PLUMBING SUMMARY						189,992

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		2	3	4	5	6 = (3 x 5)
11	315-3	<p>Manholes and Gully traps</p> <p>Providing manhole Type 'B' size 3'-0" x 2'-6" or 914mm x 762mm x 4ft (1.22mm) deep as per approved design and specifications complete for 4" to 12" diameter pipe, 4 ft. to 7'-5" Depth with cast iron cover and frame weights 1 Cwt. 3 Qts or 88.9 kg.in 6" thick RCC 1:2:4 slab 8" thick,c.c. 1:3:6 block masonry walls set in 1:3 c.m. 6" inch thick, 1:3:6, c.c. in foundation 1:2:4 c.c. in benching, 1/2" thick cement plaster in 1:4 c.m. to all inside wall surfaces, channels and benching etc. and top including providing and fixing cast iron foot rest at every foot of depth and making requisite number of main and branch channels complete but excluding that cost of excavation, backfilling , disposal of excavated stuff, manhole cover and frame.</p>	2	Nos.	17,442	34,884
AMOUNT CARRIED TO PLUMBING SUMMARY						34,884







Item No.	FWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		2	3	4	5	6 = (3 x 5)
NON-SCHEDULE ITEMS						
		WATER SUPPLY:				
		Cold and Hot Water Supply Piping				
		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 as indicated on the drawing, as per specifications and Engineers approval.				
i	Non-Sch	3/4" dia	220	Rft	110	24 200 ✓
ii		1" dia	60	Rft	210	12600 ✓
iii		1 1/2" dia	120	Rft	250	30000 ✓
iv		1 1/2" dia	130	Rft	410	53300 ✓
v		2" dia	180	Rft	800	144 000 ✓
vi		2 1/2" dia	0	Rft	-	
vii		3" dia	0	Rft	-	
viii		4" dia	0	Rft	-	
		Valves				
		Providing and fixing of PPR Coated, brass Gate valves (of same material as piping) as indicated on the drawing, as per specifications and Engineers approval.				
i	Non-Sch	3/4" dia	0	Nos.	-	
ii		1" dia	0	Nos.	-	
iii		1 1/2" dia	1	Nos.	3000	3000 ✓
iv		1 1/2" dia	4	Nos.	3000	12000 ✓
v		2" dia	5	Nos.	4000	20000 ✓
vi		2 1/2" dia	0	Nos.	-	
vii		3" dia	0	Nos.	-	
viii		4" dia	0	Nos.	-	
		Water Tanks and Connection				
		Connection for water tank including, with valves, supports, excavation and Backfill, complete all in accordance with the drawing and specifications.	1	Item	42000	42000 ✓
		2" Connection to RCC water tanks	1	Nos.	18000	18000 ✓
		Connection to overhead water tanks using Float switch	1	Nos.	42000	42000 ✓
		Cast Iron Medium Duty Cover For RCC water tanks	1	Nos.	3000	3000 ✓
		Continued..				404100

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		2	3	4	5	6 = (3 x 5)
		WATER SUPPLY (Cont...)				
		Plumbing Specialties:				
7	Non-Sch	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" Air Relief Valve	1	Nos.	15000	15000 ✓
ii		1 1/2" dia foot valve	1	Nos.	2500	2500 ✓
iii		2" Y-type Strainer	2	Nos.	5500	11000 ✓
iv		2" Flexible Connector	4	Nos.	7900	31600 ✓
8	Non-Sch	Pumps				
	Non-Sch	Supply and installation of below mentioned Transfer Pump Set including pump foundation, control panel, automatic float switch, wiring, valves, piping, accessories, etc., as indicated on the drawing, as per specifications and Engineers approval.				
i		Transfer Pump (1 duty+1 standby) Flow = 100GPM @ 130ft. head	1	No.	400000	400000 ✓
ii		Booster Pump (1 duty, 1 standby) Flow = 38GPM @ 60ft. head	1	set	300000	300000 ✓
						
						
						
AMOUNT CARRIED TO PLUMBING SUMMARY						 1164700 ✓

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		2	3	4	5	6 = (3 x 5)
		SANITARY SEWAGE:				
		Soil, Waste, Vent and Rainwater Pipes				
9	Non-Sch	Providing and fixing, uPVC pipes and fittings as per BS EN 1329 for above ground installations for Soil, Waste, Vent & R/w pipes 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	50	Rft.	1200	60000
		(ii) 3" dia	210	Rft.	1776	372960
		(iii) 4" dia	140	Rft.	2574	360360
		Providing and fixing, uPVC pipes and fittings as per BS EN 1401 for below ground installations for Soil pipes including excavation, backfill, fittings (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval.				
		(iv) 6" dia	195	Rft.	2600	507000
		Drainage Specialties				
10	Non-Sch	Providing and fixing, PVC floor trap with multiple dia inlet and cleanout plug of the approved self cleaning design with S.Steel grating, as indicated on the drawing, as per specifications and Engineers approval.	20	Nos	560	11200
11	Non-Sch	Providing and fixing UPVC cowl for vent pipe of the following dia including all accessories complete in all respects.				
		(i) 3" dia	12	Nos	520	6240
		(ii) 4" dia	0	Nos		
		(iii) 6" dia	0	Nos		
12	Non-Sch	Providing and fixing, PVC Roof Drains as per specifications and Engineers approval.	0	Nos		
Continued..						1317760

Item No.	FWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		2	3	4	5	6 = (3 x 5)
		SANITARY SEWAGE (Cont...)				
		Gully traps				
13	Non-Sch	Construction of 18" x 18" Cement Concrete gully trap with 12" x 12" manhole cover as specified and shown on the drawing, as per specifications and Engineers approval.	2	Nos.	20000	40000 ✓
14	Non-Sch	External Connection Connection to external Sewage network, after obtaining approval from local authorities including the cost of excavation, Piping as specified and shown on the drawing, as per specifications and Engineers approval.	1	Job.	300 000	300 000 ✓
						
AMOUNT CARRIED TO PLUMBING SUMMARY						} 1657760 ✓

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		2	3	4	5	6 = (3 x 5)
		FIRE FIGHTING				
		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	Non-Sch	5 Kg CO2 wall mounted fire extinguisher	7	Nos.	5489	38423
ii	Non-Sch	6 Kg Dry powder wall mounted fire extinguisher	7	Nos.	2600	18200
iii	Non-Sch	12 Kg Automatic Dry Powder Fire extinguisher.	1	Nos.	15000	15000
		Fire Piping				
		Supply, installation, testing and Commissioning of Seamless black steel SCH. 40 pipe as per ASTM A53 grade B with UL/FM Heavy Duty welded fittings, UL/FM Galvanized Supports and hangers, supports, painting and coating fire protection system of following sizes.				
i		3" dia	170	Rft	3266	555220
ii		1 1/4" dia	80	Rft	2449	195920
		Fire Valves				
		Supply, installation, testing and Commissioning of UL/FM O.S and Y Ductile Iron Gate Valves with post indicator of Class 300 (UL) with EPDM Seal as per ASTM A536 Grooved or flanged type as required as per drawings, specifications and Engineers Recommendation.				
i		3" dia	1	Nos	12000	12000
		Fire Hose Reel and Cabinet				
		Supply, installation, testing and Commissioning of Dual compartment Stainless Steel Fire Hose cabinet (Exposed or recessed type) comprising of below mentioned items with S.Steel lock and handle, as per drawings, specifications and Engineers Recommendation.				
		1" diameter, 30m high pressure rubber hose reel tested on 30 bar with PRV (Pressure Reducing valve), Gate Valve and inlet lock shield control valve and Adjustable plastic Nozzle for Jet, spray and Shut off.				
		2 1/2" , 100 ft Long lay flat hose Rack + Multi Jet nozzle	6	Nos	65000	390000
		2 1/2" diameter Landing valve Dia UL/FM Approved				
		6 kg Co2 Extinguisher				
		5 KG ABC type Dry powder Extinguisher				
AMOUNT CARRIED TO PLUMBING SUMMARY						1224763

GRAND SUMMARY
COMMON FACILITIES
(2c-STUDENT WELFARE
CENTER)



S.No	Description	Amount (Rs.)
A	PRELIMINARIES & GENERAL REQUIREMENTS	<i>Included in Permanent Works</i>
B	PERMENANT WORKS	5414133 ✓
1	CIVIL WORKS	2,628,339/- ✓ 2628380
2	ELECTRICAL WORKS	611015 ✓
3	ELV WORKS	4675,927
4	PLUMBING WORKS	4675,926
TOTAL AMOUNT CARRIED TO MASTER SUMMARY		62,056,414/- 62056454.

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CIVIL WORKS




S.No	Description	Amount (Rs.)
A SCHEDULE ITEM		
1	EARTH WORKS	815,701
2	SUB STRUCTURE	10,725,220
3	SUPER STRUCTURE	19,009,194
4	MASONRY WORKS	2,568,681
5	THERMAL & MOISTURE PROTECTION	829,507
6	METAL WORKS	1,256,122
7	WOOD WORKS	788,846
8	FLOOR FINISHES	2,522,166
9	WALL FINISHES	3,262,051
10	CEILING FINISHES	246,494
11	EXTERNAL FINISHES (BUILDING)	1,628,618
12	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	543,095
Total of Schedule Items		44,195,695
Add 19% Premium on Civil Works of PWD-2012		
Total of Schedule Items with Premium - A		52,592,877
B NON-SCHEDULE ITEM		
1	EARTH WORKS	-
2	SUB STRUCTURE	433,656
3	SUPER STRUCTURE	-
4	MASONRY WORKS	-
5	THERMAL & MOISTURE PROTECTION	-
6	METAL WORKS	-
7	WOOD WORKS	-
8	FLOOR FINISHES	-
9	WALL FINISHES	-
10	CEILING FINISHES	-
11	EXTERNAL FINISHES (BUILDING)	-
12	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	114,600
Total of Non-Schedule Items - B		548,256
TOTAL CARRIED TO GRAND SUMMARY (A+B)		53,141,133



BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
SCHEDULE ITEMS						
1		EARTH WORKS				
1.1	Code-103.	Excavation for foundations, trenches, drains, underground tanks and septic tanks in <u>gravelly soil</u> (medium dense to very dense fine to coarse grained sandy gravel) and back filling the excavated material in foundation, 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 up to one chain (30.5 R.m) and lift up to 5 feet (1.52 m) etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 2	From ±0'-0" to -5' - 0"	19468 CH	100 Cft	613.14	119,366
1.2	Code-104 Item #8	Supplying earth from approved outside sources within a radius of 5 miles (8 km) including digging, loading and unloading and filling in foundations, trenches, plinth or under floor, etc. including breaking clods, dressing, watering and 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 (1.52mm) etc. complete, including all lifts etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	13581 CH	100 Cft	2,467.50	335,111
1.3	Code-117 Item #1	Providing and laying soil 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.	11110 CH	100 Cft	3,251.34	361,224
						
						
						
Total Carried to Summary						815,701

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
		SUB STRUCTURE				
		<i>Note: All RCC Concrete will be used only Ready mixed.</i>				
		CONCRETE WORKS				
2.1	Code -106	Providing and laying in situ 1:4:8 (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 (Cylindrical 1000 Psi)	7308 Cft	100 Cft	14,411.43	1,053,187
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)	299 Cft	100 Cft	15,840.97	47,365
2.3	Code -114	REINFORCED CONCRETE WORKS 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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in columns footing of required shape with columns and pilars, of any 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+136	Foundation for any type (Cylindrical Strength 2500 Psi)	7820 Cft	100 Cft	17,514.88	1,369,664
	Item # 1+136	SOG Slab on Grade (Cylindrical Strength 2500 Psi)	8649 Cft	100 Cft	17,514.88	1,514,862
						
Total Carried to Collection						3,985,078

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
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 4500 lbs. per sq. inch (31.04 N/mm ² at 28 days) 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 4000 Psi)	1053 CH	100 Cft	26,704.50	281,198
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 4500 lbs. per sq. inch (31.04 N/mm ² at 28 days) 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 # 8+136	Plinth Beams i/c ribs / projections (Cylindrical Strength 2500 Psi)	3015 CH	100 CH	18,172.93	547,914
 						
Total Carried to Collection						829,112

BILL OF QUANTITIES




S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 in foundation or bottom slab of rectangular underground water tank or septic tank 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 # 99+136	UGWTank Bottom Slab (Cylindrical Strength 2500 Psi)	614 Cft	100 Cft	15,182.84	93,223
2.7	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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 in top slab of rectangular underground water tank or septic tank 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 # 104+136	UGWTank Top Slab (Cylindrical Strength 2500 Psi)	43 Cft	100 Cft	20,471.59	8,803
2.8	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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 in walls of rectangular underground water tank or septic tank 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 # 101+136	UGWTank Walls (Cylindrical Strength 2500 Psi)	63 Cft	100 Cft	20,782.39	13,093
  						
Total Carried to Collection						115,119

BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
2.9	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).	46040 Kg	Kg	123.02	5,663,841
2.10	Code -124 Item # 93	Providing and fixing plain polyvinyl chloride (PVC) water stops 12" (305 mm) wide in vertical or horizontal expansion joints including cutting and jointing complete in all floors etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	32 Rft	Rft	500.16	16,005
2.11	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.	17909 Sft	100 Sft	648.08	116,065
Total Carried to Collection						5,795,911
COLLECTION						
		Page No -2				3,985,078
		Page No -3				829,112
		Page No -4				115,119
		Total from this Page				5,795,911
Total Carried to Summary						10,725,220




BILL OF QUANTITIES


S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
NON-SCHEDULE ITEMS						
SUB STRUCTURE						
TERMITE PROOFING						
2.12		Termite control treatment of sub grade soil, excavated surfaces and fill material with HEPTACHLOR emulsifiable to 0.5% with clean water or AGENDA 25 EC containing FIPRONIL or BIFLEX with Bitenthrin or OURSBIN or TENEKIL PLUS or MIRAGE ALL AKBER GROUP or approved equivalent as per manufacturer's specifications and instructions, 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 & vertical surfaces of the excavation for termite proofing)</i>	22824	SH	19	433656
  						
Total Carried to Summary						433656

Lot # 2
BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
3		SUPER STRUCTURE Note: All RCC Concrete will be used only Ready mixed.				
3.1	Code -114 Item # 4+135+138	REINFORCED CONCRETE WORKS 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/mm ² at 28 days) 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 (Cylindrical Strength 4000 Psi) Ground Floor	4637 Cft	100 Cft	30,389.36	1,409,155
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 3000 lbs. per sq. Inch (20.69 N /mm ² at 28 days) 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 Code -114	Beams /Arches/ purdi / bracing / lintels / nibs / sills / coping / parapet wall /bands/around opening and projections (Cylindrical Strength 2500 Psi) Ground Floor	4398 Cft	100 Cft	20,668.60	909,005
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 3000 lbs. per sq. Inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 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 and ground floor etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 57+136	Slab i/c projections (Cylindrical Strength 2500 Psi) Ground Floor	5218 Cft	100 Cft	19,520.67	1,018,589
Total Carried to Collection						3,336,749



Lot # 2
BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 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.				
3.5	Item # 50+136 Code -114	Stair Case / steps /seats (Steps, Landing & Waist slab) (Cylindrical Strength 2500 Psi) Ground Floor	0 Cft	100 CH	25,989.63	-
3.6	Item # 114+136 Code -114	OH Water Tank Bottom Slab (Cylindrical Strength 2500 Psi) 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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 in a square or 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.	73 Cft	100 CH	25,292.19	18,463
	Item # 112+136	OH Water Tank Walls (Cylindrical Strength 2500 Psi)	60 Cft	100 CH	25,867.96	15,521
						
Total Carried to Collection						33,984

BILL OF QUANTITIES



S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 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.				
3.8	Item # 118+136 Code -114	OH Water Tank Top Slab (Cylindrical Strength 2500 Psi) 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).	48 Cft	100 Cft	22,895.75	10,990
3.90	Item # 166 Code -119	Ground Floor STEEL STRUCTURE WORKS (TRUSSES) Providing and fixing M. S. tees, angles and flats including welding all the sides of the section at the junction, gusset plates, bolts, nuts etc. complete with hoisting and erecting in position in steel trusses, frames, towers etc. of any design in ground floor etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer	56626 Kg	Kg	123.02	6,966,131
3.10	Item # 42 Code -122	Ground Floor PAINTING ON STEEL STRUCTURE (TRUSSES) Providing and applying painting iron work with enamel paint of approved make and shade two coats over and including the cost of one coat of priming complete at any height in any floor, etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	58773 Kg	Kg	129.84	7,631,086
	Item # 158	Ground Floor	37844 Sft	100 Sft	2,722.37	1,030,254
Total Carried to Collection						15,638,461
		COLLECTION				
		Page No -7				3,336,749
		Page No -8				33,984
		Total from this Page				15,638,461
Total Carried to Summary						19,009,194



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S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
A - SCHEDULE ITEMS						
4		DPC & MASONRY WORKS				
4.1	Item # 3 Code -108 Page # 47	Damp Proof Course (DPC) Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded screened bajji 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	889 Sft	100 SH	2,659.79	23,646
4.2	Item # 5 Code -108 Page # 47	Extra for using water proofing agent pudla 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.	22 Kg	Kg	86.10	1,894
4.3	Code-111 Page # 87 & 82	Block Masonry (Hollow & Solids) Providing and laying 1:3:6 cement concrete hollow block masonry of any thickness using graded screened bajji 1/2 inch (13 mm) and down gauge set in cement mortar 1:4 including scaffolding, taking out joints and curing etc. complete in basement and ground floor superstructure.				
	Item # 1+12+18+19	Ground Floor	5665 CF	100 CF	13,779.44	780,605
	Item # 1+9+12+18+19	First Floor	5034 CF	100 CF	14,338.43	721,797
	Item # 1+9+10+12+18+19	Second Floor	2852 CF	100 CF	14,722.11	419,875
	Item # 1+9+10+10+12+18+19	Roof	1846 CF	100 CF	15,105.79	278,853
4.4	Code-110 Page # 77, 80, 81 & 82	Providing and laying 1:3:6 machine made standard size 4'x8'x12" & 6'x8'x12" cement concrete solid block masonry 4 to 6 inches (102 mm to 152 mm) thick using graded screened bajji 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.				
	Item #44+92+100	Ground Floor	1768 CF	100 CF	15,933.28	281,700
4.5	Code-110 Page # 76, 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 in steps, stairs of approved design using graded screened bajji 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.				
	Item # 34+92+75+68	FOR BLOCK MASONRY STEPS	344 CF	100 CF	17,532.37	60,311
Total Carried to Summary						2,568,681
5		THERMAL & MOISTURE PROTECTION				
5.1	Code-108	Providing and laying 1.9 cement concrete using screened graded bajji 3/4 inch (19 mm) and down gauge in terracing 3 inches (76 mm) average thickness to required slope in panels including form work, consolidation, finishing, curing etc. and painting the surface with plastic bitumen No. 4 of the rate of 15 lbs per hundred square feet (0.73 Kg per s.m) blinded with sand of the rate of 2 cubic feet per hundred square feet (0.06 Kg per s.m) complete on ground floor roof.				
	Item # 25 Page # 49	Second Floor & Above	22909 Sft	100 Sft	3,620.88	829,507
Total Carried to Summary						829,507



S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
6		METAL WORKS				
6.1	Code-119 Item # 43 Page # 240	M.S. / G.I Door Frame 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 BS5. 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 of not less than 10 points and 1 No., 12 inch long welded with frame of 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	778 Rft	Rft	157.12	122,239
6.2	Code-122 Item # 159 Page # 333	Painting iron work with synthetic enamel paint 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,	778 Sft	100 Sft	2,776.62	21,602
6.3	Code-119 Item # 69 Page # 244	Providing and fixing double glazed Bronz anodized or Powder Coated aluminium Sliding windows as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan Cables and A.C.P. (fixing through their approved fabricators), Executive model section double or single glazed 101mm x 37mm and 2mm thick including the cost of aluminium netting, fitting 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	373 Sft	Sft	683.72	255,028
6.4	Code-119 Item # 60 Page # 242	Providing and fixing fully glazed Bronz anodized or powder coated aluminium Fixed windows Partition as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 101.76mm x 44.50mm and 2mm thick including the cost of aluminium 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.	1651 Sft	Sft	330.23	545,210
6.5	Code-119 Item # 119 Page # 254	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.	2456 Sft	Sft	88.91	218,363
6.6	Code-119 Item # 53 Page # 242	Providing and fixing G.I. pipe railing of 2" (50 mm) diameter, comprising, vertical posts and horizontal bracing of G.I. pipe of the same dia as per design including cost of specials, bends, threading, cutting and making good the floor or wall of any kind in cement concrete 1:2:4 etc. complete in any floor.	250 Rft	Rft	374.72	93,680
 						
Total Carried to Summary						1,256,122

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
7		WOOD WORKS				
7.1	Code-120 Item # 63 Page # 265	Door Shutter Providing and fixing 1-1/2 inches (38 mm) thick pressed veneered door shutters fully flushed with commercial ply wood veneering on all faces and sides fixed over deodor wood cavities core and frame work of not less than 4 inches (102 mm) wide strip around with approved brass hinges and lower bolts etc. as required complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	1048 Sft	Sft	655.18	686.629
7.2	Code-122 Item # 189 Page # 336	Polish & Paint Providing & Applying French or spirit polishing, two coat of approved make on wood work of any height in any floor complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. For Door Frame	2358 Sft	100 Sft	1,878.96	44,306
7.3	Code-122 Item # 156 Page # 333	Painting wood work with super gloss enamel paint of approved make and shade, two coats over and including the cost of one coat of priming complete at any height in any floor complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. Door Shutter	2231 Sft	100 Sft	2,596.16	57,911
Total Carried to Summary						788,846
8		FLOOR FINISHES				
8.1	Code-117 Item # 29 Page# 192	Providing and laying floor of 3 inches (76 mm) thick 1:2:4 reinforced cement concrete using graded screened baggi 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..	13,342	100 Sq.ft.	4,285.08	571,715
		Providing and laying in ground floor 30 B.W.G (Birmingham Wire Gage), expanded metal 1/2 inch (13 mm) mesh as reinforcement including the cost of concrete chairs etc. complete in all types of floor..	13,342	100 Sq.ft.	3,455.39	461,018
	Code-117 Item # 159 Page# 209	Providing and laying light colour, glazed/non skid vitrified porcelain 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 in charge complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	8,329	100 Sft	17,882.39	1,489,433
Total Carried to Summary						2,522,166








S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
9		WALL FINISHES				
9.1	Code-122	Internal Wall Plaster 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.				
	Item # 6 Page # 320	Ground Floor	23587 Sft	100 Sft	1,730.74	408,227
	Item # 6+87 Page # 320 & 327	First Floor	20690 Sft	100 Sft	1,884.61	389,916
	Item # 6+87+90 Page # 320, 327 & 328	Second Floor	16900 Sft	100 Sft	2,015.07	340,547
9.2	Code-117 Item # 159 Page# 209	Dado & Skirting Providing and laying light colour, glazed/non skid vitrified porcelain tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (site 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.				
	Item # 159 Page# 209	G.Floor	2358 Sft	100 Sft	17,882.39	421,681
9.4	Code-122	Puddle 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	550 Sft	100 Sft	2,367.12	13,019
9.5	Item # 8+88 Code-122	O.H.W.T Plaster	350 Sft	100 Sft	2,572.28	9,003
	Item # 30	Providing and mixing water proofing agent puddle in cement mortar of any description in any floor etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer				
	Item # 30	U.G.W.T	15 Kg	Kg	86.15	1,292
9.6	Code-122 Item # 162	O.H.W.T Painting with (ICI) Deluxe plastic emulsion paint VIP of approved shade two coats over and including the cost of one priming coat complete over plastered surface of any height in any floor.				
			61176 Sft	100 Sft	2,742.08	1,677,504
						
Total Carried to Summary						3,262,051

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
10		CEILING FINISHES				
10.1	Code-122	Internal Ceiling Plaster 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.				
	Item # 6 Page # 320	Ground Floor	2000 SF	100 SF	1,730.74	34,613
10.2	Code-122 Item # 151	Distempering with vinyl distemper (ICI) Deluxe Pointex 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.	10329 SF	100 SF	1,053.54	108,619
10.4	Code-124 Item # 183 Page # 361	Providing and fixing mineral fiber tiles 2' x 2' x 12mm ceiling including T & L angle hanger clips, jointing clips and G.I Wire etc. complete as required in any floor.	1330 SF	SF	77.49	103,062
Total Carried to Summary						246,494
11		EXTERNAL FINISHES				
11.1	Code-122	External 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 Page # 320	Ground Floor	10485 SF	100 SF	2,367.12	248,194
	Item # 8+88 Page # 320 & 327	First Floor	8929 SF	100 SF	2,572.28	229,681
	Item # 8+88+91 Page # 320, 327 & 328	Second Floor	5974 SF	100 SF	2,746.22	164,048
	Item # 8+88+91+91 Page # 320, 327	Roof	4779 SF	100 SF	2,920.16	139,551
11.2	Code-122 Item # 83 Page # 327	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. 11.1	1952 SF	100 SF	518.48	10,123
11.3	Code-122	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				
	Item # 172	Ground Floor to Roof	30167 SF	100 SF	1,406.89	424,409



S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
11.4	Code-122 Item # 79+82+83 Page # 326 & 327	Providing and applying colour Crete 1/4" (6.4 mm) 1:1:2 (1 white cement mixed with pigment, 1 marble powder and 2 marble chips zero No.) with horizontal & vertical joints or Grooves including dragging the surface with wire brush complete with curing etc., over base of 3/4" (19 mm) thick cement plaster 1:3 in plinth, mazzanine and ground floor including chiseling the surface to give texture of stone including the cost of base course etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Ground Floor	5130 Sft	100 Sft	6,043.11	412,612
Total Carried to Summary						1,628,618
12		EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA) C.C 1:2:4 Floor				
12.1	Code-117 Item # 7	Providing and laying floors of 3 inches (76 mm) thick 1:2:4 cement concrete using graded screened bajri 3/4 inch (19 mm) and down gauge in ground floor laid in panels including form work consolidation, finishing and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Ground Floor	3574 Sft	100 Sft	4,289.49	153,310
12.2	Code-117 Item # 158 Page# 208	Providing and laying in floor C.C. 1:2:4; full pavers 2" thick of approved design and colour and pattern (average strength 7000 psi) laid on sand cushion filling of joint with sand and wearing etc. complete as per direction of Engineer in charge. (the cost of sand cushion is included) complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	2500 Sft	Sft	61.64	154,100
12.3	Code-117 Item # 97 Page# 202	CC Tiles Providing and laying floor 1 inch (25 mm) thick of cement tiles 12" X 12" X 1" (1/2" topping and 1/2 inch base) or 305 mm X 305 mm X 25 mm (13 mm topping, 12 mm base) in grey cement in ground floor over 1 inch (25 mm) lime mortar 1:2 (one lime two sand) including setting the tiles with grey cement slurry over lime mortar, jointing and washing the tiles with neat cement slurry, polishing and curing etc. complete including the cost of mortar. Complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	2000 Sft	100 Sft	6,725.02	174,500
	Code-117 Item # 79 Page# 199	Providing and laying 1 inch (25 mm) thick floor of mosaic marble chips tiles 12" X 12" X 1" (1/2 inch topping 1/2" base) or 305 mm X 305 mm X 25 mm (13 mm topping, 12 mm base) in white cement with approved marble chips in ground floor over 1" (25 mm) lime mortar 1:2 (one lime two sand) including setting the tiles with grey cement slurry over lime mortar. Jointing and washing the tiles with cement slurry of matching colour including grinding, rubbing, polishing and curing etc. Complete in all Ground Floor	500	100 Sft	12,237.02	61,185
Total Carried to Summary						543,095



S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
NON-SCHEDULE ITEMS						
12		All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BS/ASTM Standards, and complete in all respects and to the entire satisfaction of the Engineer.				
		EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)				
12.1	N.S.I	Providing and laying Terrazzo tiles/slab with bull nosing in one piece /full length (up to 5 feet long) 1-1/2" thick for Treads consisting of 3/4" thick topping 1:2 (One gray cement 2 approved marble chips No. 0 to 4 & chipcha) in white cement over a base 1:2:4 (One cement, two sand & four crush) cement concrete 3/4" thick in any floor laid with cement slurry/dry over existing surface including jointing with approved quality grouting material & grinding, polishing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	260 Sft	Sft	310	80600
12.2	N.S.I	Providing and laying Terrazzo tiles/slab in one pieces for Risers at consisting of 1/2" thick 1:2 (One gray cement 2 approved marble chips No. 0 to 4) laid with cement slurry/dry board over existing surface in any floor including jointing with approved quality grouting material & grinding, polishing complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	200 Sft	Sft	310	62000
12.3	N.S.I	Providing & laying impoerted Epoxy floor 3mm thick (two component self leveling) of approved manufacturers according to the finishing schedule with thickness, color, shade, borders in any floor, including Preparation of surface and one coat of primer with adhesive etc. (overall thickness as shown in the drawings) etc. complete in all respects as per drawing, standard specifications and direction of the Engineer.	8.100	Sft	120	972000
 					 	
Total Carried to Summary						1114600

ELECTRICAL WORKS



Lot # 2
BILL OF QUANTITIES
SUMMARY

S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
NON-SCHEDULE ITEMS		
1	INTERNAL ELECTRIFICATION	930507.3 ✓
2	L.V. PANELS & DISTRIBUTION BOARDS	83025.70 ✓
3	LOW VOLTAGE CABLES AND WIRES	11463 ✓
4	CONDUITS & PIPES	87655.4 ✓
5	WIRING ACCESSORIES	137947/- 137949.8 ✓
6	LIGHT FIXTURE & FANS	260964 ✓
7	EXTERNAL LIGHTING	145452 ✓
8	UPS SYSTEM (On HOLD)	640721/- ✓
9	EARTHING SYSTEM	640761 ✓
10	LIGHTNING PROTECTION SYSTEM (LPS)	330604 ✓
TOTAL AMOUNT CARRIED TO GRAND SUMMARY		2628380 ✓ 2628339/- ✓

T. Akbar

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Lot # 2




BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
NON-SCHEDULE ITEMS					
1	INTERNAL ELECTRIFICATION				
a)	3 WIRE IN PVC RECESSED CONDUIT				
i	Wiring for sub-main with 3x 1.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	2030	Mtr.	158	320740
ii	Wiring for sub-main with 3x 2.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	890	Mtr.	158	140620
iii	Wiring for sub-main with 3x 4 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	415	Mtr.	158	65570
iv	Wiring for sub-main with 3x 6 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 25 mm (1") dia PVC conduit recessed in the wall, column and roof etc as required.	25	Mtr.	184.49	4612.25
b)	3 CORE CABLE IN SURFACE PVC CONDUIT				
i	Wiring for sub-main with 3 core, 10 mm ² , stranded copper conductor, PVC insulated & PVC sheathed circular/flat cable in 30 mm (1-1/4") dia PVC conduit fitted on surface as required.	15	Mtr.	197.67	2965.05
c)	WALL BRACKET FANS				
i	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. Millat/Pak/Asia/ Younas/Climax/ Royal.	66	No.	6000	396000
CARRIED TO ELECTRICAL SUMMARY =====>>>>					930507.3



Lot # 2
BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
2	L.V. PANELS & DISTRIBUTION BOARDS				
a)	Supply, installation, testing & commissioning of Wall/Flush mounted Main Distribution Board (MDB) / Sub Main Distribution Board (SMDB) / Distribution Boards (DB), made with 16 SWG sheet steel metal, as per single line diagram, dust protected, vermin proof housing coated with approved color having all the necessary switching & protections, including all mounting accessories as per specifications and drawings, complete in all respect.				
i	MDB-SW	1	No.	21085.9	21085.9 ✓
ii	DB-SW-GF1	1	No.	21085.9	21085.9 ✓
iii	DB-SW-GF2	1	No.	21085.9	21085.9 ✓
iv	DB-SW-GF-ICT	1	No.	17132	17132 ✓
b)	Supply, installation, testing & commissioning of following Isolators, in 16 SWG sheet steel enclosure with neutral and earth terminal strips, including all mounting accessories as per specification & drawing, complete in all respect.				
i	32A, SPN Isolator	1	No.	2636	2636 ✓
 					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					83025.70

Lot # 2
BILL OF QUANTITIES

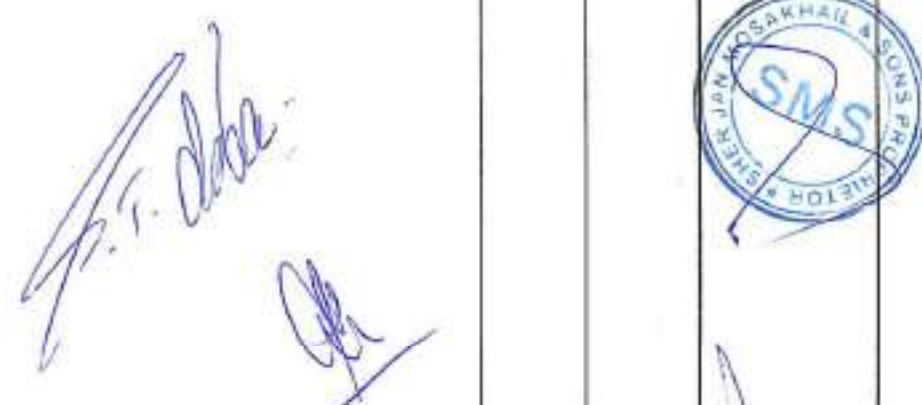
S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
3	LOW VOLTAGE CABLES AND WIRES Supply, laying, termination and commissioning of following copper conductor cable in already laid PVC conduit / cable tray / trench as required as per drawing and specification ,complete in all respect.				
a)	4 Core - Cu.XLPE/PVC Cable (600/1000V)				
i	4 Core - 16 Sq.mm	10	Mtr.	145	1450
b)	4 Core - Cu.PVC/PVC Cable (600/1000V)				
i	4 Core - 10 Sq.mm	90	Mtr.	52.70	4743
c)	1 Core - CU/PVC Cable as ECC				
i	1 Core - 16 Sq.mm Cu/PVC Cable	10	Mtr.	52.70	527
ii	1 Core - 10 Sq.mm Cu/PVC Cable	90	Mtr.	52.7	4743
<p style="text-align: center;">    </p>					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					11463

Lot # 2
BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
4	CONDUITS & PIPES				
a)	Providing and laying of following size (inner dia) PVC / UPVC Conduit as race ways with all accessories recessed / surface on wall / column / under floor for Power. As per specifications and drawings, complete in all respect.				
i	32 mm dia PVC	90	Mtr.	237	21330
ii	38 mm dia PVC	40	Mtr.	237	9480
b)	Providing and laying of UPVC (Class-D) pipe having dia of following size. Buried in ground as per drawing. Including excavation for laying of pipe and backfilling with clean sand (under and above pipe), compaction, concrete, plugging of pipe ends etc. as shown on drawing complete in all respect.				
i	50 mm dia UPVC (Class-D)	130	Mtr.	316	41080
ii	100 mm dia UPVC (Class-D)	25	Mtr.	500	12500
c)	Providing and Construction of Manhole Size 600x600x900 mm deep, 6" thick, concrete 1:2:4 ratio with 600mm round heavy duty cast iron cover, 100% water proof, complete in all respect.	4	No.	790	3160
d)	Providing & installing of Pull Box as per drawing and specification, complete in all respect.	2	No.	52.70	105.4
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					82655.4

Lot # 2

BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
5	WIRING ACCESSORIES				
a)	Supply, installation, testing & commissioning of following 10/13/15/20A, 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 specification, complete in all respects.				
i	10A, One Gang Switch	1	Nos.	1318	1318
ii	10A, Two Gang Switch	4	Nos.	1318	5272
iii	10A, Three Gang Switch	21	Nos.	1318	27678
iv	10A, Four Gang Switch	22	Nos.	1318	28996
v	10A, 2-Pin 1-Gang Switched Socket Outlet	46	Nos.	922	42412
vi	13A, 3-Pin Flat 2-Gang Switched Socket Outlet	9	Nos.	922	8298
vii	13A, 3 Pin Multi Standard Switched Socket Outlet	8	Nos.	922.5	7379
viii	13A, Unswitched Spur Outlet	4	Nos.	922	3688
ix	15A, 3-Pin Switched Socket Outlet	8	Nos.	790	6320
xiv	16A, 3-pin Industrial Socket with plug top	1	Nos.	6588.8	6588.8
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					137949.8
					137947

Lot # 2
BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
6	LIGHT FIXTURE & FANS				
a)	Supply, installation, testing & commissioning of following light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per specification, 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	Type D1	44	Nos.	1318	57992
ii	Type D2	19	Nos.	1318	25042
iii	Type D3	21	Nos.	1318	27678
iv	Type D4	4	Nos.	1318	5272
v	Type LD2	54	Nos.	1318	71172
vi	Type H1	56	Nos.	1318	73808
CARRIED TO ELECTRICAL SUMMARY =====>>>>					260964






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Lot # 2


BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
7	EXTERNAL LIGHTING				
a)	Supply, installation, testing & commissioning of following light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per specification, 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	Type FS1	19	Nos.	2108 40052	40052
ii	Type R1	20	Nos.	2108	42160
iii	Type W1	30	Nos.	2108	63240
 					
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					 

Lot # 2
BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
8	<p>UPS SYSTEM</p> <p>a) Providing, installing, testing & commissioning of True Online Double Conversion UPS rating 6 kVA Single Phase in, Single Phase out, minimum 0.9 output power factor with 10 minutes battery backup, batteries with related DC cables from UPS to batteries, external bypass and all accessories as per specifications & drawings, complete in all respect.</p> <p style="text-align: center; font-size: 2em; opacity: 0.5;">NOT APPLICABLE</p>				
   					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					

Lot # 2
BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
9	EARTHING SYSTEM				
a)	Supply, installing, testing and commissioning of following items for complete earthing system including all connecting accessories as per drawings and specifications complete in all respect.				
i	Earth pit with Rod type earth electrode, 3/4" dia and 3 meters long copper rod .	2	No.	197680	395360
b)	Supply, installing, testing and commissioning of following items for complete clean earthing system including all connecting accessories as per drawings & specifications complete in all respect.				
i	Earth pit with Rod type earth electrode, 3/4" dia and 3 meters long copper rod .	1	No.	197680	197680
c)	Supply, Installation, Testing and Commissioning of Earth Copper Bar 300x50x6 mm for earthing system as per drawings and instruction of consultant.	2	Nos.	1318	2636
d)	Supply, laying, testing and commissioning of 1x16 Sq.mm PVC insulated Cu. Conductor cable as earth continuity conductor (ECC) in 25 mm dia uPVC conduit, complete in all respect.	5	Mtr.	395	1975
e)	Supply, laying, testing and commissioning of 1x25 Sq.mm PVC insulated Cu. Conductor cable as earth continuity conductor (ECC) in 25 mm dia uPVC conduit, complete in all respect.	5	Mtr.	790	3950 39540
f)	Supply, laying, testing and commissioning of 1x70 Sq.mm PVC insulated Cu. Conductor cable as earth continuity conductor (ECC) in 32 mm dia uPVC conduit, complete in all respect.	30	Mtr.	119	3570
					
CARRIED TO ELECTRICAL SUMMARY =====>>>					
					640761



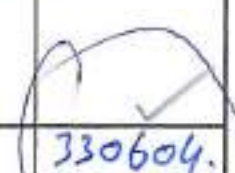
Lot # 2
BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
10	LIGHTNING PROTECTION SYSTEM (LPS)				
a)	Supply, installation, testing and commissioning of 27mm x 2mm Tinned Copper Tape to be run on roof and on the elevation of the building as required and shown on drawings including all fixing accessories etc., as per specification, as per site requirement necessary for the functioning of the system and drawing, complete in all respect.	150	Mtr.	398	59250
b)	Supply, installation, testing and commissioning of Early Streamer Emission (ESE) Air Terminal mounted on 2 meter elevation mast, as per drawing, complete in all respect and having following specifications: Efficiency: 60 micro seconds Lightning current withstanding test (10/350µs): 100 kA ESE Central Rod: Nickel Plated Copper Metal Housing : Stainless Steel 316L Protection Radius : 31 meter at 2 meter height	1	No.	39537	39537
c)	Providing and installation of 2 meter high elevation mast consisting side wall mounting bracket for installation and fixing of ESE Air Terminal, as per drawing and specification as per site requirement necessary for the system, complete in all respect.	3	Nos.	39537	118611
d)	Providing and installation of pyramid holdfasts / studs filled with cement for holding and supporting the flat tape conductor, as per drawing and specification as per site requirement necessary for the system, complete in all respect.	64	Nos.	1310	84352
e)	Providing and installation of lightning flash counter as per drawing and specification as per site requirement necessary for the system, complete in all respect.	1	No.	3954	3954
f)	Providing and installation of Earth Electrode Copperbond earth rod 3 meters and clamp, Polypropelene earth pit, as per drawing and specification, complete in all respect.	6	Nos.	2100	12648





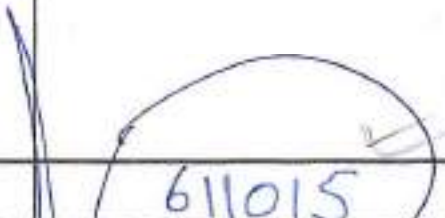
Lot # 2

BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
g)	Providing and installation of Test Clamp and Guard Tube 2 m in length, as per drawing and specification, as per specification, as per site requirement necessary for the functioning of the system, complete in all respect.	2	Job.	5271	10542 ✓
h)	Supply, laying, testing and commissioning of 1x70 Sq.mm PVC insulated Cu. Conductor cable in 32 mm dia uPVC Pipe at ground level connecting lightning protection pits to power earthing pits, complete in all respect.	10	Mtr.	171	1710 ✓
 					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					


ELV WORKS



S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
NON-SCHEDULE ITEMS		
1	CONDUITS & PIPES	
2	VOICE, DATA COMMUNICATION & CCTV CABLING SYSTEMS (Passive Equipment Only) (Equipments & cabling on HOLD, only conduiting in Contractor's Scope)	537500 ✓ 33800 ✓
3	PA (PUBLIC ADDRESS / VA (VOICE EVACUATION) SYSTEM (Equipments & cabling on HOLD, only conduiting in Contractor's Scope)	18590 ✓
4	ACCESS CONTROL SYSTEM (On HOLD)	
5	CCTV SYSTEM (On HOLD)	
6	ADDRESSABLE FIRE ALARM SYSTEM (Equipments & cabling on HOLD, only conduiting in Contractor's Scope)	21125 ✓
7	SELF CONTAINED EMERGENCY LIGHTS (On HOLD)	
 		 <p>611015 ✓</p>
TOTAL AMOUNT CARRIED TO GRAND SUMMARY		

Lot # 2

BILL OF QUANTITIES

5.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
NON-SCHEDULE ITEMS					
1	CONDUITS & PIPES				
a)	Providing and laying of following size UPVC pipe of Class D for Telecommunication Cable (copper / optic fiber), Buried in ground / under roads / under floor as per specification, including excavation for laying of pipe, bricks, warning tape and backfilling with new and fresh soil etc., as shown on the drawing, complete in all respect.				
i	2' dia UPVC	20	Mtr.	2000	40000
b)	Providing and Construction of Manhole Size 2' x 2' x 3' mm deep 6" thick concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, complete in all respect. (For Incoming Telecommunication cables).	1	No.	97500	97500
c)	Providing & Installing of Pull Box as per drawing and specification, complete in all respect.	1	No.	40000	40000
					
CARRIED TO ELV SUMMARY =====>>>>					537500

DEVELOPMENT OF SMIU CAMPUS,
STUDENT WELFARE CENTER,
MALIR CAMPUS, KARACHI
Lot # 2
BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
2	<p>VOICE, DATA COMMUNICATION & CCTV CABLING SYSTEMS (Passive Equipment Only)</p> <p>a) Providing, installation, testing and commissioning of following Data / Voice Cabinets, for patch panel, fiber panels, adapter, PDU's, Fans and space for active switches as it may require to accommodate complete the entire passive and active network as per the single line diagram drawing and specification, complete in all respect.</p> <p>i) 12U Data Rack in IT Room (800mmx800mm)</p> <p>b) Supply, installing, 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.</p> <p>c) Providing, fixing, testing and commissioning of 4 Pair RJ-45, Cat-6 Simplex Outlet for Data with 16 SWG Shutter type with 16 SWG back box as per drawing and specification, complete in all respect.</p> <p>d) Supply, installing, testing and commissioning of Single RJ-45, Cat-6 outlet for Camera with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.</p>				

NOT APPLICABLE



DEVELOPMENT OF SMIU CAMPUS,
STUDENT WELFARE CENTER,
MALIR CAMPUS, KARACHI
Lot # 2
BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
e)	Supply, laying, testing and commissioning of CAT-6, 4 pair cable for Single RJ-45 outlet (Data, Voice, Camera and Access control system) in 25mm dia PVC conduit concealed/surface from each outlet to IDF racks, including tagging and piping with all necessary accessories, complete in all respect.(Cabling on HOLD, only conduiting in Contractor's Scope)	400	Mtr.	84.50	33800

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33800

DEVELOPMENT OF SMIU CAMPUS,
STUDENT WELFARE CENTER,
MALIR CAMPUS, KARACHI
Lot # 2
BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
f)	Supply, laying, testing and commissioning of Cat 5, 25 pair Backbone cable from MTJB to remaining TJB in already laid cable tray / conduit, including with all the necessary accessories as per drawing and specifications, complete in all respect.				
g)	Supply, laying, testing and commissioning of 2 core single mode OS2 Fiber optic cable from IDF to Server in already laid UPVC conduit / cable tray, including with all necessary accessories, as per drawing and specification, complete in all respect.				
h)	Supply, installing, testing and commissioning of 24 port Cat 6, RJ 45 UTP Patch Panel fully loaded with tool less jacks and rear cable manager, as per drawing and specification, complete in all respect.				
j)	Supply, installing, testing and commissioning of 24 port Fiber Patch Panel fully loaded with pigtailed and rear cable manager, as per drawing and specification, complete in all respect.				
k)	Supply, installing, testing and commissioning of 19" front/rear (as required) cable organizer between patch panels and active equipment to provide patch cable management including with all necessary accessories, as per drawing and specification, complete in all respect.				
l)	Providing, 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 (1m) Long Patch Cord.				
ii	CAT-6 (2m) Long Patch Cord.				
m)	Supply, installing, testing and commissioning of following blocks in Telephone junction boxes as per drawing and specification, complete in all respect.				
i	100 Pair IDC Block				
n)	Installation, testing and commissioning by Manufacturer Authorized Agent / Dealer and handing over complete Voice & Data System to Owner with Providing Training voice data take & OTDR Testing, as build drawing, Rack layouts and certification's Principal, complete equipment's Manual and Warranty Documents to Owners representative.				
CARRIED TO ELV SUMMARY =====>>>>					

NOT APPLICABLE

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S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
3	PA (PUBLIC ADDRESS / VA (VOICE EVACUATION) SYSTEM				
a)	Providing, laying, testing and commissioning of Wiring for complete PA System with 2C - 1.5 Sq.mm shielded, twisted pair Fire Resistant Cable in 25 mm dia PVC conduit concealed as per drawing and specification. Complete in all respect. (Cabling on HOLD, only conduiting in Contractor's Scope)	220	Mtr.	84.80	18590

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18590


S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
b)	Supply, wiring and testing of PA Microphone points with Microphone Cable in 25mm dia PVC Conduit, recessed / surface in wall and ceiling, complete in all respects.				
c)	Supply, installation, testing and commissioning of PA System complete with all connecting accessories comprising of the following equipment, as per drawing and specification, complete in all respects.				
i	8 Zone Gooseneck Microphone unidirectional balance				
ii	30W Line array speaker				
iii	240W Mixer Amplifier				
iv	Supply, installation, testing and commissioning of UHF Wireless microphone with 576 to 937 UHF frequency range with built in antenna as per drawing and specification, complete in all respect.				
v	Supply, installation, testing and commissioning of UHF Wireless tuner with 64 selectable frequencies and external antenna input as per drawing and specification, complete in all respect.				
vi	Providing & Connecting of Inter Connects Cable etc.				
vii	19' Rack Cabinet with Glass Door to accommodate above equipment's located at Security room as per drawing and specification, complete in all respects.				
d)	Supply, installing, testing and commissioning of following type Speakers of Architect Approved color, as per drawing and specification, complete in all respects.				
i	6W Ceiling mounted Speakers with Tapping Transformers (1,1.5,3,4.5,6W), EN54 Compliant.				
e)	Installation, testing and commissioning, Programming by Manufacturer Authorized Agent / Dealer and handing over complete PA System to Owner with providing training, SOP, complete equipment's manual and warranty documents to Owners representative.				
CARRIED TO ELV SUMMARY =====>>>>					

NOT APPLICABLE

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S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
4	ACCESS CONTROL SYSTEM				
a)	Supply, installing, testing and commissioning of 2 Door Controller LAN Based with power supply, as per drawings and specification, complete in all respect.				
b)	Supply, installing, testing and commissioning of BIO Proximity Card Reader, as per drawings and specification, complete in all respect.				
c)	Supply, installing, testing and commissioning of Exit Control Push Button, as per drawings and specification, complete in all respect.				
d)	Supply, installing, testing and commissioning of Electromagnetic Door Lock with matching power supply, as per drawings and specification, complete in all respect.				
e)	Supply, installing, testing and commissioning of PVC Card for Reader, as per drawing and specifications, complete in all respect.				
f)	Installation, testing, commissioning & programming by Manufacturer Authorized Agent / Dealer and handing over complete Access Control System to Owner with providing training, SOP, complete equipment's manual and warranty documents to Owner's Representative.				
					
CARRIED TO ELV SUMMARY =====>>>>					

DEVELOPMENT OF SMIU CAMPUS,
STUDENT WELFARE CENTER,
MALIR CAMPUS, KARACHI
Lot # 2
BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
5	<p>CCTV SYSTEM</p> <p>a) Supply, installing, testing and commissioning of 2 MP IP based camera with 1/2.8" CMOS 3.3 to 12mm varfocal lens, power adpater, wall mounted bracket, and IP-65 housing, complete in all respect with fixing accessories, as per drawing and specifications, complete in all respect.</p> <p>b) Installation, testing, commissioning, programming by Manufacturer Authorized Agent / Dealer and handing over complete CCTV System to Owner with providing training, SOP, complete equipment's manual and warranty documents to owners representative.</p>				
CARRIED TO ELV SUMMARY =====>>>>					

NOT APPLICABLE



DEVELOPMENT OF SMIU CAMPUS,
STUDENT WELFARE CENTER,
MALIR CAMPUS, KARACHI
Lot # 2
BILL OF QUANTITIES



S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
6	ADDRESSABLE FIRE ALARM SYSTEM				
a)	Providing, laying, testing and commissioning of Wiring for complete Fire Alarm System with 2C-1.5 Sq.mm 2 hrs rated, Fire Resistant Cable in 25 mm dia PVC conduit concealed, (M.S conduit for surface) etc., including any wiring between fire alarm control panel and other's systems control panel's etc. Complete in all respect. (Cabling on HOLD, only conduiting in Contractor's Scope)	250	Mtr.	84.50	2125

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S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
b)	Providing, installation, testing and commissioning of Addressable Photoelectric Smoke Detector with base and back box, as per drawing and specification, complete in all respect.				
c)	Providing, installation, testing and commissioning of Addressable Heat Detector with base and back box, as per drawing and specification, complete in all respect.				
d)	Providing, installation, testing and commissioning of Addressable Manual Call Point with base and back box, as per drawing and specification, complete in all respect.				
e)	Providing, installation, testing and commissioning of Addressable Manual Call Point (Weatherproof) with base and back box, as per drawing and specification, complete in all respect.				
f)	Providing, installation, testing and commissioning of Addressable Sounder with flasher and base and back box, as per drawing and specification, complete in all respect.				
g)	Providing, installation, testing and commissioning of Addressable Sounder (Weatherproof) with flasher, base and back box, as per drawing and specification, complete in all respect.				
h)	Providing, installation, testing and commissioning of 01 Loop Addressable Fire Alarm Control Panel (FACP), including all necessary accessories, identification tagging etc. and battery back up. FACP as per drawing and specification, complete in all respect.				
j)	Installation, testing and commissioning, Software, Programming by Manufacturer Authorized Agent / Dealer and handing over complete Fire Alarm system to owner with providing training, SOP, complete equipment's manual and warranty documents to Owner's Representative.				
 					
CARRIED TO ELV SUMMARY =====>>>>					

BILL OF QUANTITIES

S.No.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
7	SELF CONTAINED EMERGENCY LIGHTS				
a)	Supply, installing, testing and commissioning of following items for self contained emergency lights with all fixing accessories as per drawing and specification, complete in all respect.				
i	7W, Emergency light with self contained Battery, Surface / Wall mounted IP-65 as per specification and drawing complete in all respect. (non-maintained)				
ii	7W, Emergency light with self contained Battery, Ceiling mounted IP-20 as per specification and drawing complete in all respect. (non-maintained)				
iii	7W, EXIT light with self contained Battery, 40m viewing, Surface mounted IP-65 as per specification and drawing complete in all respect. (non-maintained)				
					
CARRIED TO ELV SUMMARY =====>>>>>>					

PLUMBING WORKS



BILL OF QUANTITIES


S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
A. SCHEDULE ITEMS		
1	Plumbing Fixtures	187,989
2	Manholes & Gully traps	104,652
	SUB-TOTAL - A	292,641
	Add <u>41%</u> Above/Below/At par on Plumbing Works of Composite Schedule of Rates 2012, PWD Schedule 2012	119,983 119,982
	TOTAL (Schedule Item With Premium) - A	412,624 + 2,623
B. NON-SCHEDULE ITEMS		
1	Water Supply	822,000 ✓
2	Sanitary Sewage	236,540 ✓
3	Fire Fighting Works	1,079,763 ✓
	TOTAL (Non-Schedule Items) - B	4,263,303 ✓
	TOTAL AMOUNT CARRIED TO GRAND SUMMARY (A+B) FOR 1 No.	4,675,926 4,675,927 ✓




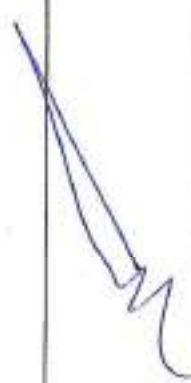


Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
SCHEDULE ITEMS						
1	301-1	PLUMBING FIXTURES: Providing and fixing best quality squatting type glazed earthward W.C.Pan, Pakistan (of not less than 18" clear opening as measured between the flushing rim) Complete with and including the cost of 13.6 liters best quality low level plastic flushing cistern with internal fittings complete, P.V.C. flushing pipe suitable for this type with fittings and making requisite number of holes in walls, plinth & floor for pipe connections and making good in cement concrete 1:2:4.	2	Nos.	3,425	6,850
2	301-6	Providing and fixing Pakistani make best available quality European style white glazed earthenware wash down W.C.Pan complete with and including the cost of a plastic seat (PVC cover and buffers 3 galls. [13.6 liters] white glazed earthenware low level flushing cistern with siphon fittings, 1-1/2 inches (40mm) dia white porcelain enameled flush bend, 3/4 inch (20mm) dia, G.I. warning pipe carried outside and bent vertically downwards and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	2	Nos.	4,805	9,610
3	301-7	Providing and fixing Pakistani make hot back type iron urinal basin (of not less than 17 inches or 430 mm in height of white glazed earthenware complete with and including the cost of one gallon (4.5 liters) glazed earthen ware automatic flushing cistern with fittings a pet cock brackets standard flush pipe with fittings, standard waste pipe (enameled iron) connection complete and making requisite number of holes in walls plinth and floor for pipe connections and making good in cement concrete 1:2:4	0	Nos.	2,804	-
4	301-8 & 10 & 14	Providing and fixing 25 inches x 18 inches (635 mm x 457 mm) lavatory basin in white glazed earthenware (Pakistani) complete with and including the cost of Brass oxidized bolts kit built into wall /2 inch (15 mm) dia. Chrome plated mixer 1-1/4" inches (32mm) rubber plug and chrome plated brass chain, 1-1/4 inches (32 mm) dia brass waste of approved pattern, 1-1/4 inches (32 mm) dia. Malleable iron or C.P. brass traps malleable iron or brass unions and making requisite number of holes in walls plinth and floor for pipe connections and making god in cement concrete 1:2:4 Extra over item No. 8 and 9 (Wash basin) for providing and fixing best available (Pakistani make) white glazed earthenware pedestal. Extra over item No.8 and 9 for providing single hole chromium plated mixer tap 1/2 inch (15 mm) dia (English or approved foreign make).	6	Nos.	7,225	43,350
Continued..						



BILL OF QUANTITIES

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
SCHEDULE ITEMS						
		<u>PLUMBING FIXTURES (Cont....)</u>				
5	301-13	Providing and fixing Shower tray made of fiber glass of any color and design 31 inches x 31 inches (787 mm x 787 mm).	6	Nos.	2,394	14,364
6	301-20	Providing and fixing standing wall shower of CP brass 3 knobs of approved quality mixer unit and moveable shower head complete..	6	Nos.	4,590	27,540
7	301-21	Providing and fixing approved quality stainless steel sink 60" x 20" Pak made (Atlas) complete with brass oxidized bolt kit/angle iron brackets built into walls 1/2" dia CP sink mixer 1-1/4" rubber plug and CP brass chain 1-1/4" CP brass waste 1-1/4" dia malleable iron or CP brass bottle trap with malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	3	Nos.	18,677	56,031
8	302-6	Providing and fixing 20 inches x 16 inches (508 mm x 406 mm) Looking mirror of Belgium glass complete with Plastic frame and C.P. Brass screws.	2	Nos.	923	1,846
9	302-9	Providing and fixing bath room accessories of set of 6 pieces consist of one shelf, one towel rod with bracket, one soap dish, one tooth brush holder with glass and cover, one tissue paper holder one double hook one towel ring etc. complete of approved quality as per direction of Engineer in-charge.	2	Nos.	12,757	25,514
10	302-13	Providing and fixing chrome plated Muslim bib-cock without Muslim shower of approved quality	4	Nos.	721	2,884
						
AMOUNT CARRIED TO PLUMBING SUMMARY						187,989


Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
SCHEDULE ITEMS						
11	315-3	<p>Manholes and Gully traps</p> <p>Providing manhole Type 'B' size 3'-0" x 2'-6" or 914mm x 762mm x 4ft (1.22mm) deep as per approved design and specifications complete for 4" to 12" diameter pipe, 4 ft. to 7'-5" Depth with cast iron cover and frame weights 1 Cwt, 3 Qtrs or 88.9 kg, in 6" thick RCC 1:2:4 slab 8" thick, c.c. 1:3:6 black masonry walls set in 1:3 c.m. 6" inch thick, 1:3:6, c.c. in foundation 1:2:4 c.c. in benching, 1/2" thick cement plaster in 1:4 c.m. to all inside wall surfaces, channels and benching etc. and top including providing and fixing cast iron foot rest at every foot of depth and making requisite number of main and branch channels complete but excluding that cost of excavation, backfilling, disposal of excavated stuff, manhole cover and frame.</p>	6	Nos.	17,442	104,652
   						
AMOUNT CARRIED TO PLUMBING SUMMARY						104,652

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
SCHEDULE ITEMS						
NON-SCHEDULE ITEMS						
		WATER SUPPLY:				
		Cold and Hot Water Supply Piping				
		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 as indicated on the drawing, as per specifications and Engineers approval,				
i	Non-Sch	¾" dia	180	Rft	110	19800 ✓
ii		1" dia	360	Rft	210	75600 ✓
iii		1½" dia	20	Rft	250	5000 ✓
iv		1½" dia	150	Rft	410	61500 ✓
v		2" dia	100	Rft	800	80000 ✓
vi		2½" dia	0	Rft	-	
vii		3" dia	0	Rft	-	
viii		4" dia	0	Rft	-	
		Valves				
		Providing and fixing of PPR Coated, brass Gate valves (of same material as piping) as indicated on the drawing, as per specifications and Engineers approval.				
2	Non-Sch					
i		¾" dia	0	Nos.	-	
ii		1" dia	2	Nos.	2500	5000 ✓
iii		1½" dia	0	Nos.	-	
iv		1½" dia	2	Nos.	3000	6000 ✓
v		2" dia	1	Nos.	4000	4000 ✓
vi		2½" dia	0	Nos.	-	
vii		3" dia	0	Nos.	-	
viii		4" dia	0	Nos.	-	
		Water Tanks and Connection				
3	Non-Sch	Connection for water tank including with valves, supports, excavation and Backfill, complete all in accordance with the drawing and specifications.	1	Item	42000	42000 ✓
4	Non-Sch	2" Connection to RCC water tanks	1	Nos.	10000	10000 ✓
5	Non-Sch	Connection to overhead water tanks using Float switch	1	Nos.	42000	42000 ✓
6	Non-Sch	Cast Iron Medium Duty Cover For RCC water tanks	1	Nos.	3000	3000 ✓
		Continued..				361900



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361900

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
SCHEDULE ITEMS						
		WATER SUPPLY (Cont....)				
		Plumbing Specialties:				
		Supply and installation of the following including all fittings, fixings, accessories, etc., as indicated on the drawing, as per Specifications and Engineers approval.				
7	Non-Sch					
i		1" Air Relief Valve	1	Nos.	15000	15000 ✓
ii		1½" dia foot valve	1	Nos.	2500	2500 ✓
iii		2" Y-type Strainer	2	Nos.	5500	11000 ✓
iv		2" Flexible Connector	4	Nos.	7900	31600 ✓
8	Non-Sch	Pumps				
		Supply and installation of below mentioned Transfer Pump Set including pump foundation, control panel, automatic float switch, wiring, valves, piping, accessories, etc., as indicated on the drawing, as per specifications and Engineers approval.				
	Non-Sch					
i		Transfer Pump (1 duty+1 standby) Flow = 40GPM @ 65ft. head	1	set	400000	400000 ✓
						
AMOUNT CARRIED TO PLUMBING SUMMARY						822000 ✓


Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
SCHEDULE ITEMS						
11	Non-Sch	SANITARY SEWAGE:				
		Soil, Waste, Vent and Rainwater Pipes				
		Providing and fixing, uPVC pipes and fittings as per BS EN 1329 for above ground installations for Soil, Waste, Vent & R/w pipes 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	60	Rft.	1200	72000 ✓
		(ii) 3" dia	250	Rft.	1776	444000 ✓
		(iii) 4" dia	210	Rft.	2574	540540 ✓
		Providing and fixing, uPVC pipes and fittings as per BS EN 1401 for below ground installations for Soil pipes including excavation, backfill, fittings (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval.				
		(iv) 6" dia	330	Rft.	2600	858000 ✓
12	Non-Sch	Drainage Specialties				
		Providing and fixing, PVC floor trap with multiple dia inlet and cleanout plug of the approved self cleaning design with S.Steel grating, as indicated on the drawing, as per specifications and Engineers approval.	16	Nos	560	8960 ✓
13	Non-Sch	Providing and fixing UPVC cowl for vent pipe of the following dia including all accessories complete in all respects.				
		(i) 3" dia	2	Nos	520	1040 ✓
		(ii) 4" dia	0	Nos	-	
		(iii) 6" dia	0	Nos	-	
14	Non-Sch	Providing and fixing, PVC Roof Drains as per specifications and Engineers approval.	5	Nos	15400	77000 ✓
Continued..						2001340



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2001340

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
SCHEDULE ITEMS						
		SANITARY SEWAGE (Cont....)				
15	Non-Sch	Gully traps Construction of 18" x 18" Cement Concrete gully trap with 12"x 12" manhole cover as specified and shown on the drawing, as per specifications and Engineers approval.	3	Nos.	20000	60 000 ✓
16	Non-Sch	External Connection Connection to external Sewage network, after obtaining approval from local authorities including the cost of excavation, Piping as specified and shown on the drawing, as per specifications and Engineers approval.	1	Job.	300 000	300 000 ✓
						
AMOUNT CARRIED TO PLUMBING SUMMARY						2361540 ✓

BILL OF QUANTITIES

Item No.	PWD Schedule 2012 Ref.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
SCHEDULE ITEMS						
1		FIRE FIGHTING 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	Non-Sch	5 Kg CO2 wall mounted fire extinguisher	7	Nos.	5489	38423
ii	Non-Sch	6 Kg Dry powder wall mounted fire extinguisher	7	Nos.	2600	18200
iii	Non-Sch	12 Kg Automatic Dry Powder Fire extinguisher.	0	Nos.	-	
2		Fire Piping Supply, installation, testing and Commissioning of Seamless black steel SCH. 40 pipe as per ASTM A53 grade B with UL/FM Heavy Duty welded fittings, UL/FM Galvanized Supports and hangers, supports, painting and coding fire protection system of following sizes.				
i		3' dia	170	Rft	3266	555220
ii		1 1/4' dia	80	Rft	2449	195920
3		Fire Valves Supply, installation, testing and Commissioning of UL/FM O.S and Y Ductile Iron Gate Valves with post indicator of Class 300 (UL) with EPDM Seal as per ASTM A536 Grooved or flanged type as required as per drawings, specifications and Engineers Recommendation.				
i		3' dia	1	Nos	12000	12000
4		Fire Hose Reel and Cabinet Supply, installation, testing and Commissioning of Dual compartment Stainless Steel Fire Hose cabinet (Exposed or recessed type) comprising of below mentioned items with S.Steel lock and handle, as per drawings, specifications and Engineers Recommendation, 1" diameter, 30m high pressure rubber hose reel tested on 30 bar with PRV (Pressure Reducing valve), Gate Valve and inlet lock shield control valve and Adjustable plastic Nozzle for Jet, spray and Shut off. 2 1/2", 100 ft Long lay flat hose Rock + Multi Jet nozzle 2 1/2" diameter Landing valve Dia UL/FM Approved 6 kg Co2 Extinguisher 5 KG ABC type Dry powder Extinguisher				
			4	Nos	65000	260000
AMOUNT CARRIED TO PLUMBING SUMMARY						1079763



LOT-3



S.No	Description	Amount (Rs.)
1	STUDENT HOSTEL (MALE)	109001949. 106,974,054
2	STUDENT HOSTEL (FEMALE)	11490823 11,490,826/-
TOTAL COST OF LOT-3		220492772 218,464,878

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STUDENT HOSTEL MALE



S.No	Description	Amount
A	PRELIMINARIES & GENERAL REQUIREMENTS	<i>Included in Permanent works</i>
B	PERMENANT Works	92,612,367/-
1	CIVIL WORKS	94638267
2	ELECTRICAL WORKS	6162,234/-
3	ELV WORKS	6164198 826,299/-
4	PLUMBING WORKS	826332 7373,153/-
TOTAL COST CARRIED TO MASTER SUMMARY		106,974,052/- 109001949



CIVIL WORKS



BILL OF QUANTITIES


S.No	Description	Amount
A	SCHEDULE ITEM	
1	EARTH WORKS	947,333
2	SUB STRUCTURE	12,550,313
3	SUPER STRUCTURE	27,179,734
4	MASONRY WORKS	4,990,965
5	THERMAL & MOISTURE PROTECTION	421,362
6	METAL WORKS	3,961,695
7	WOOD WORKS	3,042,797
8	FLOOR FINISHES	5,820,383
9	WALL FINISHES	6,925,311
10	CEILING FINISHES	1,776,727
11	EXTERNAL FINISHES (BUILDING)	5,683,084
12	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	92,764
	Total of Schedule Items - A	73,392,468
	Add <u>18</u> % Premium on Civil Works of PWD-2012	
	Total of Schedule Items - A	86603112
B	NON-SCHEDULE ITEM	
1	EARTH WORKS	359005
2	SUB STRUCTURE	
3	SUPER STRUCTURE	
4	MASONRY WORKS	
5	THERMAL & MOISTURE PROTECTION	74000
6	METAL WORKS	1967900
7	WOOD WORKS	2041900
8	FLOOR FINISHES	2993500
9	WALL FINISHES	1041600/-
10	CEILING FINISHES	
11	EXTERNAL FINISHES (BUILDING)	2242500
12	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	324250
	Total of Non-Schedule Items - B	6,009,255
	TOTAL CARRIED TO GRAND SUMMARY (A+B)	92,612,367




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S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
SCHEDULE ITEMS						
1		EARTH WORKS				
1.1	Code-103.	Excavation for foundations, trenches, drains, underground tanks and septic tanks in gravelly soil (medium dense to very dense fine to coarse grained sandy gravel) and back filling the excavated material in foundation, 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 up to one chain (30.5 R.m) and fill up to 5 feet (1.52 m) etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 2	From $\pm 0'-0"$ to $-5'-0"$	33311 Cft	100 Cft	613.14	204,243
	Item # 2+2B	From $-5'-0"$ to $-8'-0"$	2382 Cft	100 Cft	690.49	16,447
	Item # 2+2B+2B	From $-8'-0"$ to $-11'-0"$	1922 Cft	100 Cft	767.84	14,758
1.2	Code-104 Item #8	Supplying earth from approved outside sources within a radius of 5 miles (8 km) including digging, loading and unloading and filling in foundations, trenches, plinth or under floor, etc. including breaking clods, dressing, watering and 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 fill of 5 feet (1.52mm) etc. complete, including all lifts etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	17392 Cft	100 Cft	2,467.50	429,148
1.3	Code-117 Item #1	Providing and laying softing 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.	8696 Cft	100 Cft	3,251.34	282,737
						
Total Carried to Summary						947,333

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
2		SUB STRUCTURE <i>Note: All RCC Concrete will be used only Ready mixed.</i>				
		CONCRETE WORKS				
2.1	Code -106	Providing and laying in situ 1:4:8 (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,stu,walls,tanks, over stone soling or where required (Cylindrical 1000 Psi)	8375 Cft	100 Cft	14,411.43	1,206,957
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)	209 Cft	100 Cft	15,840.97	33,108
2.3	Code -114	REINFORCED CONCRETE WORKS 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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in columns footing of required shape with columns and pillars, of any 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+136	Foundation for any type (Cylindrical Strength 2500 Psi)	15650 Cft	100 Cft	17,514.88	2,741,079
						
						
						
						
Total Carried to Collection						3,981,144

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
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 4500 lbs. per sq. inch (31.04 N/mm ² at 28 days) 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 4000 Psi)	1079 CH	100 CH	26,704.50	288,142
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 4500 lbs. per sq. inch (31.04 N/mm ² at 28 days) 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/Shear Wall upto plinth (Cylindrical Strength 4000 Psi)	0 CH	100 CH	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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 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+136	Plinth Beams i/c ribs / projections (Cylindrical Strength 2500 Psi)	3410 CH	100 CH	18,172.93	619,697
						
						
						
						
Total Carried to Collection						907,839

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
2.7	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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in foundation or bottom slab of rectangular underground water tank or septic tank 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 # 99+136	UGWTank Bottom Slab (Cylindrical Strength 2500 Psi)	802 CH	100 CH	15,162.84	121,766
2.8	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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in top slab of rectangular underground water tank or septic tank 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 # 104+136	UGWTank Top Slab (Cylindrical Strength 2500 Psi)	235 CH	100 CH	20,471.59	48,108
2.9	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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in walls of rectangular underground water tank or septic tank 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 # 101+136	UGWTank Walls (Cylindrical Strength 2500 Psi)	413 CH	100 CH	20,782.39	85,831
						
Total Carried to Collection						255,705


S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
2.10	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. <i>(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).</i>	58240 Kg	Kg	123.02	7,164,685
2.11	Code -124 Item # 93	Providing and fixing plain polyvinyl chloride (PVC) water stops 12" (305 mm) wide in vertical or horizontal expansion joints including cutting and jointing complete in all floors etc. complete in all respects as per drawing, standard specifications and as directed by the Engineer.	116 Rft	Rft	500.16	58,019
2.12	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.	28225 Sft	100 Sft	648.08	182,921
Total Carried to Collection						7,405,625
COLLECTION						
Page No -2						3,981,144
Page No -3						907,839
Page No -4						255,705
Total from this Page						7,405,625
						
						
Total Carried to Summary						12,550,313

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
NON-SCHEDULE ITEMS						
2.13		<p>SUB STRUCTURE</p> <p>TERMITE PROOFING</p> <p>Termite control treatment of sub grade soil, excavated surfaces and fill material with HEPTACHLOR emulsifiable to 0.5% with clean water or AGENDA 25 EC containing FIPRONIL or BIFLEX with Bifenthrin or DURSIN or TENEKIL PLUS or MIRAGE ALI AKBER GROUP or approved equivalent as per manufacturer's specifications and instructions, 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)</p>	18895	Sft	19	359005 ✓
Total Carried to Summary						359005



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S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
		SUPER STRUCTURE				
		Note: All RCC Concrete will be used only Ready mixed.				
		REINFORCED CONCRETE WORKS				
3.1	Code -114 Item # 4+135+138	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/mm ² at 28 days) 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 (Cylindrical Strength 4000 Psi)				
	Item # 24+135+138	Ground Floor	3581 CH	100 CH	30,389.36	1,088,243
	Item # 24+135+138+92 item #	First Floor	2717 CH	100 CH	31,338.56	851,469
	24+135+138+ 92+93 Item #	Second Floor	2717 CH	100 CH	32,090.01	871,886
	24+135+138+ 92+93+93 Item #	Roof	436 CH	100 CH	32,841.46	143,189
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 4500 lbs. per sq. inch (31.04 N/mm ² at 28 days) 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.				
		RCC Wall / Shear Wall (Cylindrical Strength 4000 Psi)				
	Item # 30+135+138	Ground Floor	0 CH	100 CH	28,692.59	-
	Item # 30+135+138+92 Item #	First Floor	0 CH	100 CH	29,641.79	-
	30+135+138+92+9 3 Item #	Second Floor	0 CH	100 CH	30,393.28	-
	30+135+138+ 92+93+93 Item #	Roof	0 CH	100 CH	31,144.77	-
						
Total Carried to Collection						2,954,787

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 in straight beams intels 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 /Arches/ purdi / bracing / lintels / ribs / sills / coping / parapet wall /bands/around opening and projections (Cylindrical Strength 2500 Psi)				
	Item # 38+136	Ground Floor	3081 CH	100 CH	20,668.60	636,800
	Item # 38+136+92	First Floor	2878 CH	100 CH	21,617.80	622,160
	Item # 38+136+92+93	Second Floor	2909 CH	100 CH	22,369.25	650,721
	Item # 38+136+92+93+93	Roof	180 CH	100 CH	23,120.70	41,617
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 in ordinary slab more than 4 inches (152 mm) thick including form work and its removal, compacting and curing etc. complete 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. Slab i/c projections (Cylindrical Strength 2500 Psi)				
	Item # 57+136	Ground Floor	6869 CH	100 CH	19,520.67	1,340,875
	Item # 57+136+92	First Floor	6306 CH	100 CH	20,469.87	1,290,830
	Item # 57+136+92+93	Second Floor	6432 CH	100 CH	21,221.32	1,364,955
	Item # 57+136+92+93+93	Roof	419 CH	100 CH	21,972.77	92,066
Total Carried to Collection						6,040,024

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 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 pinth and ground floor, etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer. Stair Case / steps /seats (Steps, Landing & Waist slab) (Cylindrical Strength 2500 Psi)				
	Item # 30+136	Ground Floor	371 Cft	100 Cft	25,989.63	96,422
	Item # 30+136+92	First Floor	371 Cft	100 Cft	26,938.83	99,943
	Item # 30+136+92+93	Second Floor	371 Cft	100 Cft	27,690.28	102,731
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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 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 #	OH Water Tank Bottom Slab (Cylindrical Strength 2500 Psi)	162 Cft	100 Cft	27,268.62	44,175
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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in straight walls in over head water tank bins, bunkers, intake tanks and sita 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+136+(127x3)	OH Water Tank Walls (Cylindrical Strength 2500 Psi)	200 Cft	100 Cft	27,844.39	55,689
Total Carried to Collection						398,960




S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
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 3000 lbs. per sq. inch (20.69 N /mm ² at 28 days) with a mix not leaner than 1:2:4 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.				
3.9	Item # 118+136+(127x3). Code -114	OH Water Tank Top Slab (Cylindrical Strength 2500 Psi) 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. <i>(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).</i>	116 Cft	100 Cft	24,872.18	28,852
	Item # 166	Ground Floor	49906 Kg	Kg	123.02	6,139,436
	Item # 166+174	First Floor	42990 Kg	Kg	124.47	5,350,965
	Item # 166+174+175	Second Floor	43408 Kg	Kg	125.92	5,465,935
	Item # 166+174+175 +175	Roof	6287 Kg	Kg	127.37	800,775
Total Carried to Collection						17,785,963
COLLECTION						
		Page No -7				2,954,787
		Page No -8				6,040,024
		Page No -9				398,960
		Total from this Page				17,785,963
Total Carried to Summary						27,179,734



S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
SCHEDULE ITEMS						
4		DPC & MASONRY WORKS				
4.1	Item # 3 Code-108 Page # 47	Damp Proof Course (DPC) Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded screened baji 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	1043 Sft	100 Sft	2,659.79	27,742
4.2	Item # 5 Code-108 Page # 47	Extra for using water proofing agent puddle 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.	27 Kg	Kg	86.10	2,325
4.3	Code-111 Page # 87 & 82	Block Masonry (Hollow & Solids) Providing and laying 1:3:6 cement concrete hollow block masonry of any thickness using graded screened baji 1/2 inch (13 mm) and down gauge set in cement mortar 1:4 including scaffolding, raking, out joints and curing etc. complete in basement and ground floor				
	Item # 1+12+18+19	Ground floor	5304 Cft	100 Cft	13,779.44	730,861
	Item # 1+9+12+18+19	First floor	3618 Cft	100 Cft	14,338.43	518,764
	Item # 1+9+10+12+18+19	Second floor	3618 Cft	100 Cft	14,722.11	532,646
	Item # 1+9+10+10+12+18+19	Roof	399 Cft	100 Cft	15,105.79	60,272
4.4	Code-110 Page # 77, 80, 81 & 82	Providing and laying 1:3:6 machine made standard size 4"x8"x12" & 6"x8"x12" cement concrete solid black masonry 4 to 6 inches (102 mm to 152 mm) thick using graded screened baji 3/4 inch (19 mm) and down gauge set in cement mortar 1:4 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				
	Item #44+92+100	Ground floor	5458 Cft	100 Cft	15,933.28	869,638
	Item # 44+92+100+70	First floor	5502 Cft	100 Cft	16,757.05	921,973
	Item # 34+92+100+70+71	Second floor	5502 Cft	100 Cft	16,579.03	912,178
	Item # 44+92+100+70+71+71	Roof	1970 Cft	100 Cft	18,116.01	354,885
4.5	Code-110 Page # 76, 80 & 81	Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid black masonry more than 6 inches (152 mm) thick in steps, stairs of approved design using graded screened baji 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				
	Item # 34+92+75+68	FOR BLOCK MASONRY STEPS	329 Cft	100 Cft	17,532.37	57,691
Total Carried to Summary						4,990,965




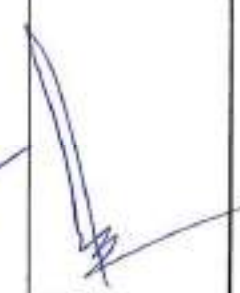


S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
5		THERMAL & MOISTURE PROTECTION				
5.1	Code-108	Providing and laying 1:9 cement concrete using screened graded ball 3/4 inch (19 mm) and down gauge in terracing 3 inches (76 mm) average thickness to required slope in panels including form work, consolidation, finishing, curing etc. and painting the surface with plastic bitumen No. 4 at the rate of 15 lbs per hundred square feet (0.73 kg per s.m) blinded with sand at the rate of 2 cubic feet per hundred square feet (0.04 Km per s.m) complete in concrete floor and				
	Item # 25 Page # 49	Second Floor & Above	11637 SF	100 SF	3,620.88	421,362
						
Total Carried to Summary						421,362

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
6		METAL WORKS				
6.1	Code-119 Item # 43 Page # 240	M.S. / G.I Door Frame 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 16 gauge (1.4 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 of not less than 10 points and 1 No., 12 inch long welded with frame of 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	3433 Rft	Rft	157.12	539,393
6.2	Code-122 Item #159 Page # 333	Painting iron work with synthetic enamel paint 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	3855 Sft	100 Sft	2,776.62	107,039
6.3	Code-119 Item #69 Page # 244	Providing and fixing double glazed Bronz anodized or Powder Coated aluminium Sliding/openable windows as per British standard manufactured by Lucky, Alcop, Kudson, Pakistan Cables and A.C.P. (fixing through their approved fabricators), Executive model section double or single glazed 101mm x 37mm and 2mm thick including the cost of aluminium netting, fitting, 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	3240 Sft	Sft	683.72	2,215,253
6.4	Code-119 Item #60 Page # 242	Providing and fixing fully glazed Bronz anodized or powder coated aluminium fixed windows Partition as per British standard manufactured by Lucky, Alcop, Kudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 101.76mm x 44.50mm and 2mm thick including the cost of aluminium 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 panes	1677 Sft	Sft	330.23	553,796
6.5	Code-119 Item #119 Page # 254	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.	4917 Sft	Sft	88.91	437,170
6.6	Code-119 Item #53 Page # 242	Providing and fixing G.I. pipe railing of 2" (50 mm) diameter, comprising, vertical posts and horizontal bracing of G.I. pipe of the same dia as per design including cost of specials, bends, threading, cutting and making good the floor or wall of any kind in cement concrete 1:2:4 etc. complete in any floor.	291 Rft	Rft	374.72	109,044
Total Carried to Summary						3,961,695



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S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
7		WOOD WORKS				
7.1	Code-120 Item # 2 Page # 259	Door Frame Providing and fixing best quality deodar frames for doors, windows, ventilators, clerestory windows, shelves, partitions, trellis work, etc., as required.				
		G.Floor	0 Cft	Cft	4,995.14	-
		F.Floor	0 Cft	Cft	4,995.14	-
		S.Floor & Roof	0 Cft	Cft	4,995.14	-
7.2	Code-120 Item # 63 Page # 265	Door Shutter Providing and fixing 1-1/2 inches (38 mm) thick pressed veneered door shutters fully flushed with commercial ply wood veneering on all faces and sides fixed over deodar wood cavities core and frame work of not less than 4 inches (102 mm) wide strip around with approved brass hinges and lower bolts etc., as required, complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	4212 Sft	Sft	655.18	2,759,618
7.3	Code-122 Item # 160 Page # 333	Polish & Paint Painting wood work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coat complete at any height in any floor. For Door frame.	10600 Sft	100 Sft	2,585.22	274,033
7.4	Code-119 Item # 119 Page # 254	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 Door Shutter	25 Sft	Sft	88.91	2,223
7.5	Code-120 Item # 182 Page # 279	Providing and fixing 2 inches (51 mm) thick best quality deodar wood partition fully glazed with glass panes 24 oz. (7.34 kg./SM.) deodar wood beading with putty packing to glasses etc., as required.	17 Sft	Sft	408.77	6,923
						
						
						
						
Total Carried to Summary						3,042,797

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
8		FLOOR FINISHES				
8.1	Code-117	Mosaic Tiles Providing and laying 1 inch (25 mm) thick floor of mosaic marble chips tiles 12" X 12" X 1" (1/2 inch topping 1/2" base) or 305 mm X 305 mm X 25 mm (13 mm topping, 12 mm base) in white cement with approved marble chips in ground floor over 1" (25 mm) lime mortar 1:2 (one lime two sand) including setting the tiles with grey cement slurry over lime mortar, Jointing and washing the tiles with cement slurry of matching colour including grinding, rubbing, polishing and curing etc. Complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 79 Page# 199	Ground Floor	5797 SF	100 SF	12,237.02	709,380
	Item # 79+94 Page# 199 & 201	First Floor	339 SF	100 SF	12,432.15	42,145
	Item # 79+94+95 Page# 199 & 201	Second Floor	580 SF	100 SF	12,564.84	72,876
8.2	Code-117 Item # 159 Page# 209	Porcelain Tiles Providing and laying light colour, glazed/non skid vitrified porcelain tiles (Polished) not exceeding 1400 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (stie 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.				
	Item # 159 Page# 209	G.Floor	6520 SF	100 SF	17,882.39	1,165,932
	Item # 159 Page# 209	First Floor	10688 SF	100 SF	17,882.39	1,911,270
	Item # 159 Page# 209	Second Floor	10730 SF	100 SF	17,882.39	1,918,780
Total Carried to Summary						5,820,383
9		WALL FINISHES				
9.1	Code-122	Internal Wall Plaster 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.				
	Item # 6 Page # 320	Ground Floor	39523 SF	100 SF	1,730.74	684,040
	Item # 6+87 Page # 320 & 327	First Floor	37044 SF	100 SF	1,854.61	698,135
	Item # 6+87+90 Page # 320, 327 & 328	Second Floor	37044 SF	100 SF	2,015.07	746,463
	Item # 6+87+90+99 Page # 320, 327 & 328	Roof	2881 SF	100 SF	2,145.53	61,813

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
9.2	Code-117 Item # 159 Page# 209	Dado & Skirting Providing and laying light colour, glazed/non skid vitrified porcelain tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (sile 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				
	Item # 159 Page# 209	G.Floor	2881 Sft	100 Sft	17,882.39	515,192
	Item # 159 Page# 209	First Floor	2542 Sft	100 Sft	17,882.39	454,570
	Item # 159 Page# 209	Second Floor	2542 Sft	100 Sft	17,882.39	454,570
9.3	Code-118 Item # 55 + 58 Page# 219	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 dado and skirting 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,				
	Code-118 Item # 55 + 58 Page# 219	G.Floor	551 Sft	100 Sft	14,274.50	78,652
	Code-118 Item # 55 + 58+60 Page# 219	F.Floor	77 Sft	100 Sft	14,567.19	11,217
	Code-118 Item # 55 + 58+60+61 Page# 219	S.Floor	77 Sft	100 Sft	14,813.05	11,406
9.4	Code-122	Fuddle 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	940 Sft	100 Sft	2,367.12	22,251
	Item # 8+88	O.H.W.T Plaster	620 Sft	100 Sft	2,572.28	15,948
9.5	Code-122	Providing and mixing water proofing agent puddle in cement mortar of any description in any floor etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the				
	Item # 30	U.G.W.T	26 Kg	Kg	86.15	2,240
	Item # 30	O.H.W.T	17 Kg	Kg	86.15	1,465
9.6	Code-122 Item # 162	Painting with (ICI) Deluxe plastic emulsion paint VIF of approved shade two coats over and including the cost of one priming coat complete over plastered surface at any height in any floor.	115509 Sft	100 Sft	2,742.08	3,167,349
Total Carried to Summary						6,925,311.00




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S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
10		CEILING FINISHES				
10.1	Code-122	Internal Ceiling Plaster 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.				
	Item # 6 Page # 320	Ground Floor	5360 Sft	100 Sft	1,730.74	92,768
	Item # 6+87 Page # 320 & 327	First Floor	6850 Sft	100 Sft	1,884.61	129,096
	Item # 6+87+90 Page # 320, 327 & 328	Second Floor	7102 Sft	100 Sft	2,015.07	143,110
	Item # 6+87+90+90	Roof	760 Sft	100 Sft	2,145.53	16,306
10.2	Code-122 Item # 151	Distemping with vinyl distemper (ICI) Deluxe Pointex 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.	19708 Sft	100 Sft	1,053.54	207,632
10.3	Code-124 Item # 182 Page# 361	Providing and fixing Gypsum board 2' x 2' x 12mm tiles ceiling including Aluminum T & L angle 1" x 1" i.c. hanger clips joining clips and G.I Wire etc. complete as required in any floor.	10346 Sft	Sft	21.69	241,705
10.4	Code-124 Item # 183 Page# 361	Providing and fixing mineral fiber tiles 2' x 2' x 12mm ceiling including T & L angle hanger clips joining clips and G.I Wire etc. complete as required in any floor.	5757 Sft	Sft	77.49	446,110
Total Carried to Summary						1,774,727
11		EXTERNAL FINISHES				
11.1	Code-122	External 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 Page # 320	Ground Floor	17007 Sft	100 Sft	2,367.12	402,576
	Item # 8+88 Page # 320 & 327	First Floor	12054 Sft	100 Sft	2,572.28	310,063
	Item # 8+88+91 Page # 320, 327 & 328	Second Floor	12054 Sft	100 Sft	2,746.22	331,029
	Item # 8+88+91+91 Page # 320, 327	Roof	8396 Sft	100 Sft	2,920.16	245,177
11.2	Code-122 Item # 83 Page # 327	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. 11.1	49511 Sft	100 Sft	518.48	256,705
11.3	Code-122	Pointing 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				
	Item # 172	Ground Floor to Roof	2733 Sft	100 Sft	1,466.88	38,450



S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
11.4	Code-122 Item # 79+82+83 Page # 326 & 327 Item # 79+82+83+88 Item # 79+82+83+88+91 Page # 326 & 327 Item # 79+82+83+88+91+ 91	Providing and applying colour Crete 1/4" (6.4 mm) 1:1:2 [1 white cement mixed with pigment, 1 marble powder and 2 marble chips zero No.] with horizontal & vertical joints or Grooves including dragging the surface with wire brush complete with curing etc., over base of 3/4" (19 mm) thick cement plaster 1:3 in plinth, mezzanine and ground floor including chiseling the surface to give texture of stone including the cost of base course etc. complete in all respects as per specifications & relevant drawings rest of work to the satisfaction of the Ground Floor First Floor Second Floor Above Second floor & Roof	17007 Sft 12054 Sft 12054 Sft 8396 Sft	100 Sft 100 Sft 100 Sft 100 Sft	6,043.11 8,248.27 8,422.21 8,596.15	1,367,892 994,246 1,015,213 721,733
11.5	Item # 88 Page # 149 & 150 Item # 88 Item # 88+94 Item # 88+94+95	Providing and fixing 1:2 precast reinforced or plain cement concrete jali or louvers up to 2 inches (51 mm) thick in required shape including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement, in ground floor (no deduction for holes shall be made) Ground Floor First Floor Second Floor	0 Cft 0 Cft 0 Cft	100 Cft 100 Cft 100 Cft	33,815.30 34,478.61 34,995.59	- - -
Total Carried to Summary						5,483,084
12		EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)				
12.1	Code-117	C.C 1:2:4 Floor Providing and laying floors of 3 inches (76 mm) thick 1:2:4 cement concrete using graded screened bag/ 3/4 inch (19 mm) and down gauge in ground floor laid in panels including form work, consolidation, finishing and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Ground Floor	953 Sft	100 Sft	4,289.49	40,879
12.2	Item # 7 Code-117 Item # 158 Page# 208	Providing and laying in floor C.C. 1:2:4 full pavers 2" thick of approved design and colour and pattern (average strength 7000 psi) laid on sand cushion filling of joint with sand and wearing etc. complete as per direction of Engineer in charge. (the cost of sand cushion is included) complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	0 Sft	Sft	61.64	-
12.3	Code-117 Item # 79 Page# 199	Providing and laying 1 inch (25 mm) thick floor of mosaic marble chips tiles 12" X 12" X 1" (1/2 inch topping 1/2" base) or 305 mm X 305 mm X 25 mm (13 mm topping, 12 mm base) in white cement with approved marble chips in ground floor over 1" (25 mm) lime mortar 1:2 (one lime two sand) including setting the tiles with grey cement slurry over lime mortar, jointing and washing the tiles with cement slurry of matching colour including grinding, rubbing, polishing and curing etc. Complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. Ground Floor	424 Sft	100 Sft	12,237.32	51,885
Total Carried to Summary						92,764





S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
NON-SCHEDULE ITEMS						
6		All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respects and to the entire satisfaction of the Engineer.				
		METAL WORKS				
		LOWERS DOORS				
6.1	N.S.1	Providing and fixing Bronz anodized or Powder Coated aluminium louver door as per British standard manufactured by lucky, Aloop, Kudson, Pakistan Cables and A.C.P. (fixing through their approved fabricators), Executive model section including the cost of aluminium fitting with all accessories cutting hole etc. and making good damages to walls etc. complete as required in any floor as per direction of the Engineer. (Note: minimum wall thickness for all sections shall be 2mm and width will not be less than 4" wide or	148	Sft.	500	74000 ✓
						
Total Carried to Summary						74000

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7-4x6
7		All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respects and to the entire satisfaction of the Engineer.				
		WOOD WORKS				
		FIRE RATED DOORS				
7.1	N.S.I	Providing and fixing wooden fire rated doors single & double leaf as per drawing with frames factory fabricated meet the requirements of the BM TRADA "Q" Mark Third Party Accredited scheme, tested in accordance with BS476 Pt22 1987 achieving a FD 60 minutes fire resisting rating, including standard fire door hardware fire rated locks or exit devices with latching units and exposed door closer (demo or equivalent) key and thumb turn concealed /SS with SS hinges complete 50mm wall size frame and spray paint finish etc., complete from Safeco or approved as per specifications & relevant drawings, and to the entire satisfaction of the Engineer.	301	Sft	5300	1595300
7.2	N.S.I	Providing making and fixing in position floor mounted lower cabinets (Pantry etc.) as per drawing of any height / floor, made of 3/4" thick coloured laminated (both face) Losani board shutter free from formaldehyde including all around DAK wood tipping kitchen cabinet, 3" x 1-1/2" thick Partal wood frame, complete with all accessories i.e. imported hinges, locks, magnetic catches, 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. (Front face will be measured for measurement)	81	Sft	2250	182250
		Ground Floor	81	Sft	2250	
		First Floor	0	Sft	2250	
		Second Floor	0	Sft	2250	
7.3	N.S.I	Providing making and fixing in position wall mounted cabinets for (Kitchen etc.) as per drawing of any height / floor, made of 3/4" thick colored laminated (both side) Losani board shutter free from formaldehyde including all around Deodar wood tipping 3/8" thick, 3" x 1-1/2" thick Partal wood frame, 6mm one side laminated Losani board back complete with all accessories i.e. imported hinges, locks, magnetic catches, 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. (Front face will be measured for measurement)	81	Sft	2350	190350
		Ground Floor	81	Sft	2350	
		First Floor	0	Sft	2350	
		Second floor	0	Sft	2350	
Total Carried to Summary						2047900



1967900





S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7-4x5
		All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BS/ASTM Standards, and complete in all respects and to the entire satisfaction of the Engineer.				
8		FLOOR FINISHES				
8.1	N.S.I	Providing and laying Terrazzo tiles/slab with bull nosing in one piece /full length (up to 5 feet long) 1-1/2" thick for Treads consisting of 3/4" thick topping 1:2 (One gray cement 2 approved marble chips No. 0 to 4 & chapcha) in white cement over a base 1:2:4 (One cement, two sand & four crush) cement concrete 3/4" thick in any floor laid with cement slurry/dry over existing surface including jointing with approved quality grouting material & grinding, polishing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
		Ground Floor	335 Sft	Sft	600	201000 ✓
		First Floor	303 Sft	Sft	600	181800 ✓
		Second Floor	303 Sft	Sft	600	181800 ✓
8.2	N.S.I	Providing and laying Terrazzo tiles/slab in one pieces for Risers at consisting of 1/2" thick 1:2 (One gray cement 2 approved marble chips No. 0 to 4) laid with cement slurry/dry board over existing surface in any floor including jointing with approved quality grouting material & grinding, polishing complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
		Ground Floor	167 Sft	Sft	600	100200 ✓
		First Floor	152 Sft	Sft	600	91200 ✓
		Second Floor	152 Sft	Sft	600	91200 ✓
8.3	N.S.I	Providing, laying and fixing Per-Polished Marble Counter Top 24" wide and 3/4" thick as per drawing. activities include provide & fix 1-1/2" thick RCC slab, setting with Dry Bond, fixing in wall with cutting/chiseling in RCC / CC members etc, grouting with matching colour approved grouting material in joints, 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				
			162 Sft	Sft	1200	194400 ✓
 						
Total Carried to Summary						2993500 ✓

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
11		EXTERNAL FINISHES				
11.1	N.S.I	Providing & Laying Natural Sand 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 new build/ new build)	0 SF	SF	290	—
11.2	N.S.I	External Building LOGO's Provide, make, finish and fix in position LOGO & LETTERING ("SINDH MADRESSATUL ISLAM UNIVERSITY - MALE STUDENTS HOSTEL") lettering with 48" dia Logo on External walls including 2" thick Plaster in 1:4 cement sand mortar with LOGO made of Stainless Steel Sheet (size as shown in drawing), fixed to walls with 3" long steel rowel bolts, strictly according to drawings. This includes three coats of plastic emulsion paint and preparation of surface with filling manufactured by ICI, all nails, screws, glass etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. a) Lettering with 4" dia Logo b) Logo Plaster (6'-0" x 24'-6")	48 Each 150 Each	Each SF	20000 50	960000 ✓ 7500 ✓
11.3	N.S.I	Rain Water Spouts Providing, Making and fixing in position R.C.C. Precast Rain Water spouts (size as shown in drawing), complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	0 Each	Each	—	—
11.4	N.S.I	Providing, Making and fixing ornamental columns, and ball finial comprising of artificial sand stone round & other geometrical shape over around windows & parapet wall (size as shown in drawing), complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	0 RH	RH	—	—
11.5		a) Ornamental Pre cast Columns	0 RH	RH	—	—
11.6	N.S.I	b) Ornamental Pre cast ball finial with base	0 RH	Nos	—	—
11.7	N.S.I	Providing & Laying pre cast cornices with 3000 psi concrete over columns, walls, arches & where required with cement sand mortar 1:2 in any pattern in as per direction of the engineer-in-charge including the cost of curing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	510 RH	RH	2500	1275000 ✓
11.7	N.S.I	Providing and fixing Kaptal/Clay tile of approved size, thickness, colors & patterns, over roof, including fixing with 1:4 cement sand mortar/Dry band, grouting with approved material including cutting, jointing, curing, etc complete in all respect as per drawings, specifications and the satisfaction of he Engineer. (at any height in any floor)	0 SF	SF	1200	—
Total Carried to Summary						2242500 ✓



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S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
12		EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)				
12.1	N.S.I	Providing and laying Terrazzo tiles/slab with bull nosing in one piece /full length (up to 6 feet long) 1-1/2" thick for Treads consisting of 3/4" thick topping 1:2 (One gray cement 2 approved marble chips No. 0 to 4 & chipchal) in white cement over a base 1:2:4 (One cement, two sand & four crush) cement concrete 3/4" thick in any floor laid with cement slurry/dry over existing surface including jointing with approved quality grouting material & grinding, polishing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	357 SF	SF	310	110670 ✓
12.2	N.S.I	Providing and laying Terrazzo tiles/slab in one pieces for Risers at consisting of 1/2" thick 1:2 (One gray cement 2 approved marble chips No. 0 to 4) laid with cement slurry/dry board over existing surface in any floor including jointing with approved quality grouting material & grinding, polishing complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	178 SF	SF	310	55180 ✓
12.3	N.S.I	Providing and making Planter/ land escaping as shown on drawing all works comprising earth filling, sweet earth with manure plants and grassing compacting, curing, finishing & leveling) etc., excluding Tree, complete in all respects as per drawing, standard, specifications and direction of the Engineer.	264 SF	SF	600	158400 ✓
						
						
						
						
Total Carried to Summary						324250 ✓ 256670


ELECTRICAL WORKS





BILL OF QUANTITIES





S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
NON-SCHEDULE ITEMS		
1	INTERNAL ELECTRIFICATION	1663898 ✓
2	L.V. PANELS & DISTRIBUTION BOARDS	154187 ✓
3	LOW VOLTAGE CABLES AND WIRES	76678.50 ✓
4	CONDUITS & PIPES	137638 ✓
5	WIRING ACCESSORIES	41432 1080281 ✓ 1080245.8 ✓
6	LIGHT FIXTURE & FANS	2242026 2240232 ✓
7	EXTERNAL LIGHTING	99076 ✓
8	UPS SYSTEM (ON HOLD)	
9	EARTHING SYSTEM	401566 ✓
10	LIGHTNING PROTECTION SYSTEM (LPS)	306884 ✓
	TOTAL AMOUNT	6162234/- 6164198



S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
NON-SCHEDULE ITEMS					
1	INTERNAL ELECTRIFICATION				
a)	3 WIRE IN PVC RECESSED CONDUIT				
i	Wiring for sub-main with 3x 1.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	6,680	Mtr.	158	1055440
ii	Wiring for sub-main with 3x 2.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	3,251	Mtr.	158	513658
iii	Wiring for sub-main with 3x 4 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	600	Mtr.	158	94800
					
CARRIED TO ELECTRICAL SUMMARY =====>>>					1663898

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
2	L.V. PANELS & DISTRIBUTION BOARDS				
a)	Supply, installation, testing & commissioning of Wall/Flush mounted Main Distribution Board (MDB) / Sub Main Distribution Board (SMDB) / Distribution Boards (DB), made with 16 SWG sheet steel metal, as per single line diagram, dust protected, vermin proof housing coated with approved color having all the necessary switching & protections, including all mounting accessories as per specifications and drawings, complete in all respect.				
i	MDB-MH	1	No.	21085	21085
ii	DB-MH-GF1	1	No.	21085	21085
iii	DB-MH-GF2	1	No.	21085	21085
iv	DB-MH-GF-ICT	1	No.	17132	17132
v	DB-MH-1F1	1	No.	17132	17132
vi	DB-MH-1F2	1	No.	17132	17132
vii	DB-MH-2F1	1	No.	17132	17132
viii	DB-MH-2F2	1	No.	17132	17132
b)	Supply, installation, testing & commissioning of following Isolators, in 16 SWG sheet steel enclosure with neutral and earth terminal strips, including all mounting accessories as per specification & drawing, complete in all respect.				
i	20A, SPN Isolator	2	Nos.	2636	5272
					
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					154187

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
3	LOW VOLTAGE CABLES AND WIRES Supply, laying, termination and commissioning of following copper conductor cable in already laid PVC conduit / cable tray / trench as required as per drawing and specification ,complete in all respect.				
a)	1 Core - Cu.PVC/PVC Cable (600/1000V)				
i	1 Core - 10 Sq.mm	1130	Mtr.	52.70	59551
b)	1 Core - CU/PVC Cable as ECC				
i	1 Core - 10 Sq.mm Cu/PVC Cable	325	Mtr.	52.70	17127.5
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					76678.5



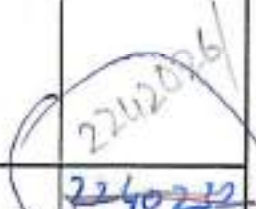
S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
4	CONDUITS & PIPES				
a)	Providing and laying of following size (inner dia) PVC / UPVC Conduit as race ways with all accessories recessed / surface on wall / column / under floor for Power. As per specifications and drawings, complete in all respect.				
i	25 mm dia PVC	20	Mtr.	237	4740 ✓
ii	38 mm dia PVC	20	Mtr.	237	4740 ✓
iii	50 mm dia PVC	325	Mtr.	316	102700 ✓
b)	Providing and laying of UPVC (Class-D) pipe having dia of following size. Buried in ground as per drawing. Including excavation for laying of pipe and backfilling with clean sand (under and above pipe), compaction, concrete, plugging of pipe ends etc. as shown on drawing complete in all respect.				
i	100 mm dia UPVC (Class-D)	5	Mtr.	790	3950 ✓
c)	Providing and Construction of Manhole Size 600x600x900 mm deep, 6" thick, concrete 1:2:4 ratio with 600mm round heavy duty cast iron cover, 100% water proof, complete in all respect.	1	No.	21086	21086 ✓
d)	Providing & installing of Pull Box as per drawing and specification, complete in all respect.	8	Nos.	52.70	421.6 ✓
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					


S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
5	WIRING ACCESSORIES				
a)	Supply, installation, testing & commissioning of following 10/13/15/20A, 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 specification, complete in all respects.				
i	10A, One Gang Switch	311	Nos.	1318	409898 ✓
ii	10A, One Gang Switch Weatherproof type	1	Nos.	1318	1318 ✓
iii	10A, One Gang 2way Switch	14	NOS.	1318	18452 ✓
iv	10A, Two Gang Switch	30	Nos.	1318	39540 ✓
v	10A, Three Gang Switch	32	Nos.	1318	42176 ✓
vi	10A, Four Gang Switch	33	Nos.	1318	43494 ✓
vii	20A, Double Pole Switch	9	Nos.	1318	11862 ✓
viii	One Gang Dimmer with 10A Switch	124	Nos.	1318	163432 ✓
ix	Two Gang Dimmer with 10A Switch	15	Nos.	922	13830 ✓
x	10A, 2-Pin 1-Gang Switched Socket Outlet	318	Nos.	922	293196 ✓
xi	13A, 3 Pin Flat 2-Gang Switched Socket Outlet	9	Nos.	922	8298 ✓
xii	13A, Unswitched Spur Outlet	4	Nos.	922	3688 ✓
xiii	15A, 3Pin Switched Socket Outlet	4	Nos.	790	3160 ✓
xiv	Flex Outlet	9	Nos.	2372	21348 ✓
xv	32A, 3Pin Industrial Outlet	1	No.	6588.8	6588.8 ✓
CARRIED TO ELECTRICAL SUMMARY =====>>>>					1080281 ✓ 1080281 ✓

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S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
6	LIGHT FIXTURE & FANS				
a)	Supply, installation, testing & commissioning of following light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per specification, 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	Type BL	16	Nos.	1318	21088
ii	Type D1	299	Nos.	1318	392282
iii	Type D2	99	Nos.	1318	130482
iv	Type D3	54	Nos.	1318	71172
v	Type D4	21	Nos.	1318	27678
vi	Type D5	48	Nos.	1318	63264
vii	Type D6	13	Nos.	1318	17134
viii	Type LD1	14	Nos.	1318	18452
ix	Type LD2	7	Nos.	1318	9226
x	Type W3	286	Nos.	1318	376948
b)	Supply, installation, testing and commissioning of following items including all connecting accessories as per drawings, specifications, complete in all respects.				
i	48" dia Sweep Ceiling Fan	8	Nos.	7500	60000
ii	56" dia Sweep Ceiling Fan	131	Nos.	7500	982500
iii	8" dia Exhaust Fan	20	Nos.	3500	70000
 					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					2240222 2242026

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
7	EXTERNAL LIGHTING				
a)	Supply, installation, testing & commissioning of following light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per specification, 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	Type R1	19	Nos.	208	40052 ✓
ii	Type W1	19	Nos.	208	40052 ✓
iii	Type W2	9	Nos.	208	18972 ✓
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					99076 ✓

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
8	UPS SYSTEM				
a)	Providing, installing, testing & commissioning of True Online Double Conversion UPS rating 6 kVA Single Phase in, Single Phase out, minimum 0.9 output power factor with 10 minutes battery backup, batteries with related DC cables from UPS to batteries, external By-pass and all accessories as per specification & drawings, complete in all respect.	1	No.	HOLD	HOLD
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
9	EARTHING SYSTEM				
a)	Supply, installing, testing and commissioning of following items for complete earthing system including all connecting accessories as per drawings and specifications complete in all respect.				
i	Earth pit with Rod type earth electrode, 3/4" dia and 3 meters long copper rod .	1	No.	197680	197680
b)	Supply, installing, testing and commissioning of following items for complete clean earthing system including all connecting accessories as per drawings & specifications complete in all respect.				
i	Earth pit with Rod type earth electrode, 3/4" dia and 3 meters long copper rod .	1	Job.	197680	197680
c)	Supply, Installation, Testing and Commissioning of Earth Copper Bar 300x50x6 mm for earthing system as per drawings and instruction of consultant.	2	Nos.	1318	2636
d)	Supply, laying, testing and commissioning of 1x70 Sq.mm PVC Insulated Cu. Conductor cable as earth continuity conductor (ECC) in 38 mm dia uPVC conduit, complete in all respect.	30	Mtr.	119	3570
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					401566

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
10	LIGHTNING PROTECTION SYSTEM (LPS)				
a)	Supply, installation, testing and commissioning of 27mm x 2mm Tinned Copper Tape to be run on roof and on the elevation of the building as required and shown on drawings including all fixing accessories etc., as per specification, as per site requirement necessary for the functioning of the system and drawing, complete in all respect.	140	Mtr.	398	55300 ✓
b)	Supply, installation, testing and commissioning of Early Streamer Emission (ESE) Air Terminal mounted on 2 meter elevation mast, as per drawing, complete in all respect and having following specifications: Efficiency: 60 micro seconds Lightning current withstanding test (10/350µs): 100 kA ESE Central Rod: Nickel Plated Copper Metal Housing : Stainless Steel 316L Protection Radius : 31 meter at 2 meter height	1	No.	39537	39537 ✓
c)	Providing and installation of 2 meter high elevation mast consisting side wall mounting bracket for installation and fixing of ESE Air Terminal, as per drawing and specification as per site requirement necessary for the system, complete in all respect.	3	Nos.	39537	118611 ✓
d)	Providing and installation of pyramid holdfasts / studs filled with cement for holding and supporting the flat tape conductor, as per drawing and specification as per site requirement necessary for the system, complete in all respect.	49	Nos.	1318	64582 ✓
e)	Providing and installation of lightning flash counter as per drawing and specification as per site requirement necessary for the system, complete in all respect.	1	No.	3954	3954 ✓
f)	Providing and installation of Earth Electrode Copper bond earth rod 3 meters and clamp, Polypropylene earth pit, as per drawing and specification, complete in all respect.	6	Nos.	2108	12648 ✓
g)	Providing and installation of Test Clamp and Guard Tube 2 m in length, as per drawing and specification, as per specification, as per site requirement necessary for the functioning of the system, complete in all respect.	2	Job.	5271	10542 ✓



S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
h)	Supply, laying, testing and commissioning of 1x70 Sq.mm PVC insulated Cu. Conductor cable in 32 mm dia uPVC Pipe at ground level connecting lightning protection pits to power earthing pits, complete in all respect.	10	Mtr.	171	1710 ✓
CARRIED TO ELECTRICAL SUMMARY =====>>>>					306884 ✓

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ELV SYSTEM




BILL OF QUANTITIES

S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
NON-SCHEDULE ITEMS		
1	CONDUITS & PIPES	527500 ✓
2	VOICE, DATA COMMUNICATION & CCTV CABLING SYSTEMS (Passive Equipment Only) (Equipments & cabling on HOLD, only conducting in Contractor's Scope)	201650 ✓
3	ACCESS CONTROL SYSTEM (On HOLD)	
4	CCTV SYSTEM (On HOLD)	7149 ✓
5	CABLE TELEVISION SYSTEM (CATV) (Equipments & cabling on HOLD, only conducting in Contractor's Scope)	7182.50
6	CABLE TRAY	90000 ✓
TOTAL AMOUNT		826332 826299 ✓



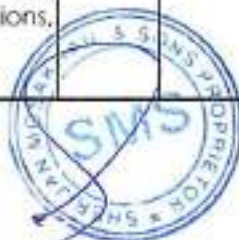
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BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
NON-SCHEDULE ITEMS					
1	CONDUITS & PIPES				
a)	Providing and laying of following size UPVC pipe of Class D for ELV Cables (copper / optic fiber). Buried in ground / under roads / under floor as per specification, including excavation for laying of pipe, bricks, warning tape and backfilling with new and fresh soil etc., as shown on the drawing, complete in all respect.				
i	2" dia UPVC Conduit	15	Mtr.	2000	30000 ✓
b)	Providing and Construction of Manhole Size 2' x 2' x 3' mm deep 6" thick concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, complete in all respect. (For Incoming Telecommunication cables).	1	No.	97500	97500
c)	Providing and installation of Pull Box as per drawing and specification, complete in all respect.	1	No.	400 000	400 000
					
CARRIED TO ELV SUMMARY =====>>>>					527500 ✓

BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
2	VOICE, DATA COMMUNICATION & CCTV CABLING SYSTEMS (Passive Equipment Only)				
a)	Providing, installation, testing and commissioning of following Data / Voice Cabinets, for patch panel, Fiber panels, adapter, PDU's, Fans and space for active switches as it may require to accommodate complete the entire passive and active network as per the single line diagram drawing and specification, complete in all respect.				
i	12U Data Rack in IT Room (800mmx800mm)	3	No.	HOLD	HOLD
b)	Supply, installing, 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.	102	Nos.	HOLD	HOLD
c)	Providing, fixing, testing and commissioning of 4 Pair RJ-45, Cat-6 Simplex Outlet for Data with I/O - Shutter type with 16 SWG back box as per drawing and specification, complete in all respect.	1	Nos.	HOLD	HOLD
d)	Supply, installing, testing and commissioning of Single RJ-45, Cat-6 outlet for Camera with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.	17	Nos.	HOLD	HOLD
e)	Supply, installing, testing and commissioning of Single RJ-45, Cat-6 outlet for WIFI with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.	3	No.	HOLD	HOLD
f)	Supply, laying, testing and commissioning of CAT-6, 4 pair cable for Single RJ-45 outlet (Data, Voice, Camera, Wifi and Access control system) in 25mm dia PVC conduit concealed/surface from each outlet to IDF racks, including tagging and piping with all necessary accessories, complete in all respect. (Cabling on HOLD, only conduiting in Contractor's Scope)	3700	Mtr.	54.50	201650
g)	Supply, laying, testing and commissioning of Cat 5e, 25 pair Backbone cable from Admin building to IDF racks in already laid cable tray / conduit, including with all the necessary accessories as per drawing and specifications, complete in all respect.	3915	Mtr.	HOLD	HOLD



BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
h)	Supply, laying, testing and commissioning of 8 core multi mode OM3 Fiber optic cable from IDF rack to remaining IDF Racks in already laid cable tray / conduit, including with all necessary accessories, as per drawing and specification, complete in all respect.	30	Mtr.	HOLD	HOLD
j)	Supply, laying, testing and commissioning of 2 core single mode OS2 Fiber optic cable from Admin Building to IDF Racks in already laid cable tray / conduit, including with all necessary accessories, as per drawing and specification, complete in all respect.	870	Mtr.	HOLD	HOLD
k)	Supply, installing, testing and commissioning of 24 port Cat 6, RJ 45 UTP Patch Panel fully loaded with tool less jacks and rear cable manager, as per drawing and specification, complete in all respect.	3	No.	HOLD	HOLD
l)	Supply, installing, testing and commissioning of 24 port Fiber Patch Panel fully loaded with pigtailed etc., and rear cable manager, as per drawing and specification, complete in all respect.	3	No.	HOLD	HOLD
m)	Supply, installing, testing and commissioning of 19" front/rear (as required) cable organizer between patch panels and active equipment to provide patch cable management including with all necessary accessories, as per drawing and specification, complete in all respect.	6	Nos.	HOLD	HOLD
n)	Providing, 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 (1m) Long Patch Cord.	123	Nos.	HOLD	HOLD
ii	CAT-6 (2m) Long Patch Cord.	123	Nos.	HOLD	HOLD
o)	Supply, installing, testing and commissioning of following blocks in Data rack, as per drawing and specification, complete in all respect.				
i	100 Pair IDC Block	1	No.	HOLD	HOLD
ii	50 Pair IDC Block	2	No.	HOLD	HOLD



BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
p)	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.	HOLD	HOLD
CARRIED TO ELV SUMMARY =====>>>>					
3	ACCESS CONTROL SYSTEM				
a)	Supply, installing, testing and commissioning of 2 Door Controller LAN Based with power supply, as per drawings and specification, complete in all respect.	2	No.	HOLD	HOLD
b)	Supply, installing, testing and commissioning of BIO Proximity Card Reader, as per drawings and specification, complete in all respect.	3	No.	HOLD	HOLD
c)	Supply, installing, testing and commissioning of Exit Control Push Button, as per drawings and specification, complete in all respect.	3	No.	HOLD	HOLD
d)	Supply, installing, testing and commissioning of Electromagnetic Door Lock with matching power supply, as per drawings and specification, complete in all respect.	3	No.	HOLD	HOLD
e)	Supply, installing, testing and commissioning of PVC Card for Reader, as per drawing and specifications, complete in all respect.	30	Nos.	HOLD	HOLD
f)	Installation, testing, commissioning & programming by Manufacturer Authorized Agent / Dealer and handing over complete Access Control System to Owner with providing training, SOP, complete equipment's manual and warranty documents to Owner's Representative.	1	Job.	HOLD	HOLD
CARRIED TO ELV SUMMARY =====>>>>					



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BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
4	CCTV SYSTEM				
a)	Supply, installing, testing and commissioning of 2 MP IP based camera with 1/2.8" CMOS 3.3 to 12mm varifocal lens, power adopter, wall mounted bracket, and IP-65 housing, complete in all respect with fixing accessories, as per drawing and specifications, complete in all respect.	17	Nos.	HOLD	HOLD
b)	Installation, testing, commissioning, programming by Manufacturer Authorized Agent / Dealer and handing over complete CCTV System to Owner with providing training, SOP, complete equipment's manual and warranty documents to owners representative.	1	Job.	HOLD	HOLD
CARRIED TO ELV SUMMARY =====>>>>					
5	CABLE TELEVISION SYSTEM (CATV)				
a)	Supply, installation, testing and commissioning of TV outlet face plate with 16 SWG back box, complete in all respects.	4	Nos.	HOLD	HOLD
b)	Supply and installation of CATV 2x4 Way Splitter with box, complete in all respects.	1	No.	HOLD	HOLD
c)	Supply and installation of CATV RG-06 Co-axial 75 ohms shielded cable in 25mm dia PVC conduit from Splitter box to TV outlet, complete in all respects. (Cabling on HOLD, only conduiting in Contractor's Scope)	85	Mtr.	84.10	7182.5 7148.5
CARRIED TO ELV SUMMARY =====>>>>					



BILL OF QUANTITIES

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
6	CABLE TRAY				
a)	Providing and installing of following size of base perforated for ELV System, Fabricated with 14/16 SWG MS Sheet steel Hot dip Galvanized with Cover including all installation accessories (Hot Dip Galvanized) such as appropriate sizes and lengths of M.S Rod / Angle Iron Supports and Rawl Bolts etc. Complete in all respect as shown in drawings and specification or as directed by the Engineer.				
i	300 x 50mm 16 SWG	20	Mtr.	4500	90000 ✓
CARRIED TO ELV SUMMARY =====>>>>					90000



PLUMBING & FIRE FIGHTING WORKS

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S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
A. SCHEDULE ITEMS		
1	Plumbing Fixtures	446,060
2	Manholes & Gully traps	191,862
	Sub Total	637,922
	Add 49% Above/Below/At par on Plumbing Works of Composite Schedule of Rates 2012, PWD Schedule 2012	312,581 950,503
	TOTAL-A Rs.	450,503 ✓
B. NON-SCHEDULE ITEMS		
1	Water Supply	1472800 ✓
2	Sanitary Sewage	2839880 ✓
3	Fire Fighting Works	2066769 ✓
4	Gas Works	42200 ✓
	SUB-TOTAL-B Rs.	6422649 ✓
	TOTAL AMOUNT (A+B)	7373152 7,373,153 ✓



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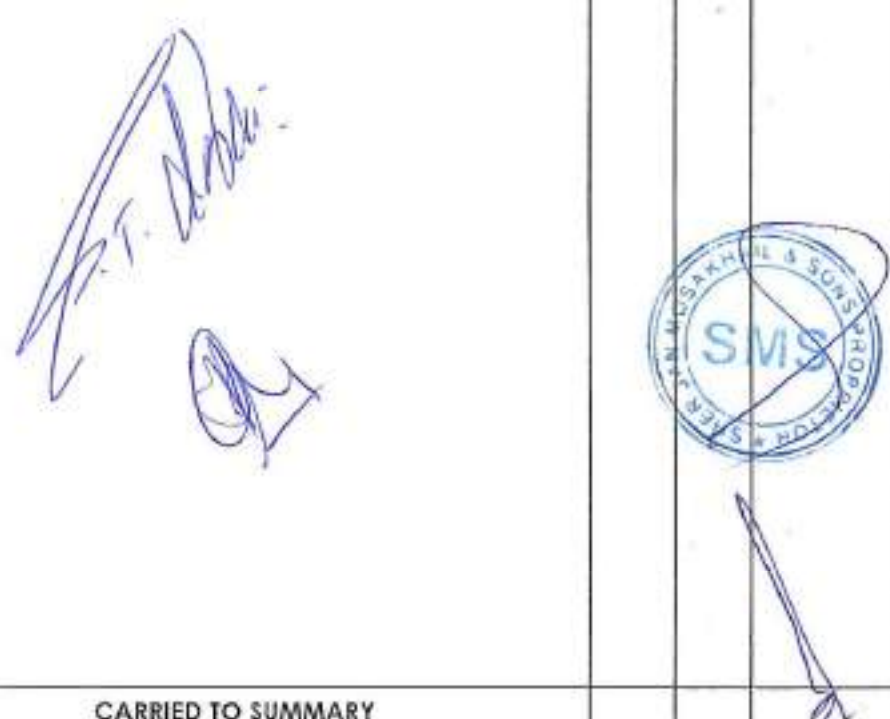
Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
A SCHEDULE ITEMS						
1	301-1	PLUMBING FIXTURES: Providing and fixing best quality squatting type glazed earthward W.C.Pan, Pakistan (of not less than 18" clear opening as measured between the flushing rim) Complete with and including the cost of 13.6 liters best quality low level plastic flushing cistern with internal fittings complete, P.V.C. flushing pipe suitable for this type with fittings and making requisite number of holes in walls, plinth & floor for pipe connections and making good in cement concrete 1:2:4.	5	Nos.	3,425	17,125
2	301-6	Providing and fixing Pakistani make best available quality European style white glazed earthenware wash down W.C.Pan complete with and including the cost of a plastic seat (PVC cover and buffers 3 galls. [13.6 liters] white glazed earthenware low level flushing cistern with siphon fittings, 1-1/2 inches (40mm) dia white porcelain enameled flush bend, 3/4 inch (20mm) dia, G.I. warning pipe carried outside and bent vertically downwards and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	9	Nos.	4,805	43,245
3	301-7	Providing and fixing Pakistani make flat back lipid front urinal basin (of not less than 17 inches or 430 mm in height of white glazed earthenware complete with and including the cost of one gallon (4.5 liters) glazed earthen ware automatic flushing cistern with fittings a pet cock brackets standard flush pipe with fittings, standard waste pipe (enameled iron) connection complete and making requisite number of holes in walls plinth and floor for pipe connections and making good in cement concrete 1:2:4	3	Nos.	2,804	8,412
4	301-8 & 10 & 14	Providing and fixing 25 inches x 18 inches (635 mm x 457 mm) lavatory basin in white glazed earthenware (Pakistani) complete with and including the cost of Brass oxidized bolts kit built into wall 1/2 inch (15 mm) dia. Chrome plated mixer 1-1/4" inches (32mm) rubber plug and chrome plated brass chain, 1-1/4 inches (32 mm) dia brass waste of approved pattern, 1-1/4 inches (32 mm) dia. Malleable iron or C.P. brass traps malleable iron or brass unions and making requisite number of holes in walls plinth and floor for pipe connections and making god in cement concrete 1:2:4 Extra over item No. 8 and 9 (Wasg basin) for providing and fixing best available (Pakistani make) white glazed earthenware pedestal. Extra over item No.8 and 9 for providing single hole chromium plated mixer tap 1/2 inch (15 mm) dia (English or approved foreign make).	15	Nos.	7,225	108,375
Continued..						
Page No. 1						



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BILL OF QUANTITIES

Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
		<u>PLUMBING FIXTURES (Cont....)</u>				
5	301-13	Providing and fixing Shower tray made of fiber glass of any color and design 31 inches x 31 inches (787 mm x 787 mm).	11	Nos.	2,394	26,334
6	301-20	Providing and fixing standing wall shower of CP brass 3 knobs of approved quality mixer unit and moveable shower head complete..	11	Nos.	4,590	50,490
7	301-21	Providing and fixing approved quality stainless steel sink 60" x 20" Pak made (Atlas) complete with brass oxidized bolt kit/angle iron brackets built into walls ½" dia CP sink mixer 1-1/4" rubber plug and CP brass chain 1-1/4" CP brass waste 1-1/4" dia malleable iron or CP brass bottle trap with malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	4	Nos.	18,677	74,708
8	302-6	Providing and fixing 20 inches x 16 inches (508 mm x 406 mm) Looking mirror of Belgium glass complete with Plastic frame and C.P. Brass screws.	8	Nos.	923	7,384
9	302-9	Providing and fixing bath room accessories of set of 6 pieces consist of one shelf, one towel rod with bracket, one soap dish, one tooth brush holder with glass and cover, one tissue paper holder one double hook one towel ring etc. complete of approved quality as per direction of Engineer in-charge.	8	Nos.	12,757	102,056
10	302-13	Providing and fixing chrome plated Muslim bib-cock without Muslim shower of approved quality	11	Nos.	721	7,931
						
						
		CARRIED TO SUMMARY				446,060

Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1	315-3	<p>SANITARY SEWAGE: Manholes and Gully traps</p> <p>Providing manhole Type "B" size 3'-0" x 2'-6" or 914mm x 762mm x 4ft (1.22mm) deep as per approved design and specifications complete for 4" to 12" diameter pipe, 4 ft. to 7'-5" Depth with cast iron cover and frame weights 1 Cwt. 3 Qtrs or 88.9 kg, in 6" thick RCC 1:2:4 slab 8" thick, c.c. 1:3:6 block masonry walls set in 1:3 c.m. 6" inch thick, 1:3:6, c.c. in foundation 1:2:4 c.c. in benching, 1/2" thick cement plaster in 1:4 c.m. to all inside wall surfaces, channels and benching etc. and top including providing and fixing cast iron foot rest at every foot of depth and making requisite number of main and branch channels complete but excluding that cost of excavation, backfilling, disposal of excavated stuff, manhole cover and frame.</p>	11	Nos.	17,442	191,862
						
CARRIED TO SUMMARY						191,862


Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
B NON-SCHEDULE ITEMS						
WATER SUPPLY:						
Cold and Hot Water Supply Piping						
		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 as indicated on the drawing, as per specifications and Engineers approval.				
i	Non-Sch	3/2" dia	440	Rft	110	48400 ✓
ii		1" dia	160	Rft	210	33600 ✓
iii		1 1/2" dia	220	Rft	250	55000 ✓
iv		1 1/2" dia	70	Rft	410	28700 ✓
v		2" dia	140	Rft	800	112000 ✓
vi		2 1/2" dia	90	Rft	950	85500 ✓
vii		3" dia	0	Rft	-	
viii		4" dia	0	Rft	-	
Valves						
		Providing and fixing of PPR Coated, brass Gate valves (of same material as piping) as indicated on the drawing, as per specifications and Engineers approval.				
1	Non-Sch	3/2" dia	0	Nos.	-	
ii		1" dia	1	Nos.	2500	2500 ✓
iii		1 1/2" dia	4	Nos.	3000	12000 ✓
iv		1 1/2" dia	3	Nos.	3000	9000 ✓
v		2" dia	2	Nos.	4000	8000 ✓
vi		2 1/2" dia	2	Nos.	5000	10000 ✓
vii		3" dia	0	Nos.	-	
viii		4" dia	0	Nos.	-	
Water Tanks and Connection						
		Connection for water tank including with valves, supports, excavation and Backfill, complete all in accordance with the drawing and specifications.				
3	Non-Sch		1	Item	42000	42000 ✓
4	Non-Sch	2 1/2" Connection to RCC water tanks	1	Nos.	18000	18000 ✓
5	Non-Sch	Connection to overhead water tanks using Float switch	1	Nos.	42000	42000 ✓
6	Non-Sch	Cast Iron Medium Duty Cover For RCC water tanks	2	Nos.	3000	6000 ✓
Continued..						512700

Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
		WATER SUPPLY (Cont....) Plumbing Specialties: Supply and installation of the following including all fittings, fixings, accessories, etc., as indicated on the drawing, as per Specifications and Engineers approval.				
7	Non-Sch					
i		1" Air Relief Valve	1	Nos.	15000	15000 ✓
ii		1 1/2" dia foot valve	1	Nos.	2500	2500 ✓
iii		2 1/2" Y-type Strainer	2	Nos.	5500	11000 ✓
iv		2 1/2" Flexible Connector	4	Nos.	7900	31600 ✓
8	Non-Sch	Pumps Supply and installation of below mentioned Transfer Pump Set including pump foundation, control panel, automatic float switch, wiring, valves, piping, accessories, etc., as indicated on the drawing, as per specifications and Engineers approval.				
	Non-Sch					
i		Transfer Pump (1 duty+1 standby) Flow = 100GPM @ 40ft. head	1	set	400000	400000 ✓
ii		Booster Pump (1 duty, 1 standby) Flow = 40GPM @ 55ft. head	1	set	400000	400000 ✓
9	Non-Sch	Water Filter Supply and installation of 3 stage UV Water filter having minimum flow rate of 0.5 gpm including valves, piping, accessories, etc., as indicated on the drawing, as per specifications and Engineers approval.	2	Nos.	15000	30000 ✓
10		Water Cooler 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 connections as indicated in the drawings, as per specifications and engineers approval. WC-01 to 02 (65 GPH)	2	Nos.	35000	70000 ✓
CARRIED TO SUMMARY			Total			1472800



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Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
11	Non-Sch	SANITARY SEWAGE:				
		Soil, Waste, Vent and Rainwater Pipes				
		Providing and fixing, uPVC pipes and fittings as per BS EN 1329 for above ground installations for Soil, Waste, Vent & R/w pipes 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.	1200	144000
		(ii) 3" dia	470	Rft.	1776	834720
		(iii) 4" dia	120	Rft.	2574	308880
		Providing and fixing, uPVC pipes and fittings as per BS EN 1401 for below ground installations for Soil pipes including excavation, backfill, fittings (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval.				
		(iv) 6" dia	380	Rft.	2600	988000
		Drainage Specialties				
12	Non-Sch	Providing and fixing, PVC floor trap with multiple dia inlet and cleanout plug of the approved self cleaning design with S.Steel grating, as indicated on the drawing, as per specifications and Engineers approval.	34	Nos	560	19040
13	Non-Sch	Providing and fixing UPVC cowl for vent pipe of the following dia including all accessories complete in all respects.				
		(i) 3" dia	7	Nos	520	3640
		(ii) 4" dia	0	Nos	5	
		(iii) 6" dia	0	Nos	-	
14	Non-Sch	Providing and fixing, PVC Roof Drains as per specifications and Engineers approval.	4	Nos	1540	61600
		Continued..				2359880

Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
SANITARY SEWAGE (Cont....)						
15	Non-Sch	Gully traps Construction of 18" x 18" Cement Concrete gully trap with 12"x 12" manhole cover as specified and shown on the drawing, as per specifications and Engineers approval.	9	Nos.	20000	180000
16	Non-Sch	External Connection Connection to external Sewage network, after obtaining approval from local authorities including the cost of excavation, Piping as specified and shown on the drawing, as per specifications and Engineers approval.	1	Job.	300000	300000
			Total			2839880
CARRIED TO SUMMARY						

Item No.	FWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		FIRE FIGHTING 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	Non-Sch	5 Kg CO2 wall mounted fire extinguisher	11	Nos.	5489	60379
ii	Non-Sch	6 Kg Dry powder wall mounted fire extinguisher	11	Nos.	2600	28600
iii	Non-Sch	12 Kg Automatic Dry Powder Fire extinguisher.	0	Nos.	15000	—
2		Fire Piping Supply, installation, testing and Commissioning of Seamless black steel SCH. 40 pipe as per ASTM A53 grade B with UL/FM Heavy Duty welded fittings, UL/FM Galvanized Supports and hangers, supports, painting and coding fire protection system of following sizes.				
i		3" dia	400	Rft	3266	1306400
ii		1 1/4" dia	110	Rft	2449	269390
3		Fire Valves Supply, installation, testing and Commissioning of UL/FM O.S and Y Ductile Iron Gate Valves with post indicator of Class 300 (UL) with EPDM Seal as per ASTM A536 Grooved or flanged type as required as per drawings, specifications and Engineers Recommendation.				
i		3" dia	1	Nos	12000	12000
4		Fire Hose Reel and Cabinet Supply, installation, testing and Commissioning of Dual compartment Stainless Steel Fire Hose cabinet (Exposed or recessed type) comprising of below mentioned items with S.Steel lock and handle, as per drawings, specifications and Engineers Recommendation. 1" diameter, 30m high pressure rubber hose reel tested on 30 bar with PRV (Pressure Reducing valve), Gate Valve and inlet lock shield control valve and Adjustable plastic Nozzle for Jet, spray and Shut off. 2 1/2" , 100 ft Long lay flat hose Rack + Multi Jey nozzle 2 1/2" diameter Landing valve Dia UL/FM Approved. 6 kg Co2 Extinguisher 5 KG ABC type Dry powder Extinguisher				
			6	Nos	65000	390000
Sub Total for Non Schedule Items			Total			2066769

Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		GAS WORKS Gas Piping Supply, Installation, testing and Commissioning of G.I Medium Pipes (hot Dipped) with high quality fittings as per BS EN 10255, conforming to Local Gas Company standards including all fitting, valve, flanges, reducers, tees, sockets, bends, clamps, support, cutting and fittings complete with testing and as per drawings, specifications and requirements of local gas company. 1/2" dia	160	RF1	170	27200
2		Gas Valves Supply, installation, testing and Commissioning of Isolation/Gate valves for Gas piping as indicated on the drawing, as per specifications and Engineers approval. 1/2" dia	2	Nos	500	1000
3		CONNECTIONS Supply, Installation, Testing & Commissioning of Gas Meter Assembly as indicated on the drawing, as per specifications and Engineer's approval.	1	Nos	15000	15000
Sub Total for Non Schedule Items			Total			43200

STUDENT HOSTEL
FEMALE



S.No	Description	Amount
A	PRELIMINARIES & GENERAL REQUIREMENTS	<i>Included in Permanent works</i>
B	PERMENANT Works	
1	CIVIL WORKS	96827416 ✓ 6405978 ✓
2	ELECTRICAL WORKS	6405976 937333 ✓ 937332
3	ELV WORKS	7320099 ✓
4	PLUMBING WORKS	
TOTAL COST		111,490,826 ✓ 111490823






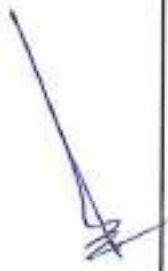
CIVIL WORKS






BILL OF QUANTITIES

S.No	Description	Amount
A	SCHEDULE ITEM	
1	EARTH WORKS	1,065,754
2	SUB STRUCTURE	15,323,593
3	SUPER STRUCTURE	27,179,734
4	MASONRY WORKS	4,990,965
5	THERMAL & MOISTURE PROTECTION	421,362
6	METAL WORKS	3,961,695
7	WOOD WORKS	3,042,797
8	FLOOR FINISHES	5,820,383
9	WALL FINISHES	6,925,311
10	CEILING FINISHES	1,776,727
11	EXTERNAL FINISHES (BUILDING)	5,683,084
12	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	92,764
	Total of Schedule Items - A	76,284,169
	Add 19% Premium on Civil Works of PWD-2012	
	Total of Schedule Items - A	90778161
B	NON-SCHEDULE ITEM	
1	EARTH WORKS	
2	SUB STRUCTURE	359005
3	SUPER STRUCTURE	
4	MASONRY WORKS	
5	THERMAL & MOISTURE PROTECTION	74000
6	METAL WORKS	
7	WOOD WORKS	1967900
8	FLOOR FINISHES	1041600
9	WALL FINISHES	
10	CEILING FINISHES	
11	EXTERNAL FINISHES (BUILDING)	2282500
12	EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)	3242500
	Total of Non-Schedule Items - B	6049255
	TOTAL CARRIED TO GRAND SUMMARY (A+B)	96827416



S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
SCHEDULE ITEMS						
1		EARTH WORKS				
1.1	Code-103.	Excavation for foundations, trenches, drains, underground tanks and septic tanks in gravelly soil (medium dense to very dense fine to coarse grained sandy gravel) and back filling the excavated material in foundation, 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 up to one chain (30.5 R.m) and lift up to 5 feet (1.52 m) etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.				
	Item # 2	From ± 0'-0" to -5' - 0"	50391 Cft	100 Cft	613.14	308,967
	Item # 2+28	From -5' - 0" to -8' - 0"	4488 Cft	100 Cft	690.49	30,989
	Item # 2+28+28	From -8' - 0" to -11' - 0"	1812 Cft	100 Cft	767.84	13,913
1.2	Code-104 Item #8	Supplying earth from approved outside sources within a radius of 5 miles (8 km) including digging, loading and unloading and filling in foundations, trenches, plinth or under floor, etc. including breaking clods, dressing, watering and 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 (1.52mm) etc. complete, including all lifts etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	17392 Cft	100 Cft	2,467.50	429,148
1.3	Code-117 Item #1	Providing and laying soring 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.	8696 Cft	100 Cft	3,251.34	282,737
						
						
						
						
Total Carried to Summary						1,065,754

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7 = 4 x 6
2		SUB STRUCTURE <i>Note: All RCC Concrete will be used only Ready mixed.</i>				
2.1	Code -106	CONCRETE WORKS Providing and laying in situ 1:4:8 (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 (Cylindrical 1000 Psi)	8770 CH	100 CH	14,411.43	1,263,882
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)	209 CH	100 CH	15,840.97	33,108
2.3	Code -114	REINFORCED CONCRETE WORKS 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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in columns footing of required shape with columns and pillars, of any 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+136	Foundation for any type (Cylindrical Strength 2500 Psi)	20985 CH	100 CH	17,514.88	3,675,498
						
Total Carried to Collection						4,972,488



5.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
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 work cube crushing strength of 4500 lbs. per sq. inch (31.04 N/mm ² at 28 days) 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 4000 Psi)	1555 Cft	100 Cft	26,704.50	415,255
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 work cube crushing strength of 4500 lbs. per sq. inch (31.04 N/mm ² at 28 days) 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/Shear Wall upto plinth (Cylindrical Strength 4000 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 work cube crushing strength of 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 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+136	Plinth Beams i/c ribs / projections (Cylindrical Strength 2500 Psi)	3410 Cft	100 Cft	18,172.93	619,697
 						
Total Carried to Collection						1,034,952


5.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
2.7	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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in foundation or bottom slab of rectangular underground water tank or septic tank 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 # 99+136	UGWTank Bottom Slab (Cylindrical Strength 2500 Psi)	802 CH	100 CH	15,182.84	121,766
2.8	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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in top slab of rectangular underground water tank or septic tank 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 # 104+136	UGWTank Top Slab (Cylindrical Strength 2500 Psi)	235 CH	100 CH	20,471.59	48,108
2.9	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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in walls of rectangular underground water tank or septic tank 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 # 101+136	UGWTank Walls (Cylindrical Strength 2500 Psi)	413 CH	100 CH	20,782.39	85,831
  						
Total Carried to Collection						255,705

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
2.10	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).	71547 Kg	Kg	123.02	8,801,712
2.11	Code -124 Item # 93	Providing and fixing plain polyvinyl chloride (PVC) water stops 12" (305 mm) wide in vertical or horizontal expansion joints including cutting and joining complete in all floors etc. complete in all respects as per drawing, standard, specifications and as directed by the Engineer.	116 Rft	Rft	500.16	58,019
2.12	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.	30971 Sft	100 Sft	648.08	200,717
Total Carried to Collection						9,060,448
COLLECTION						
Page No -2						4,972,488
Page No -3						1,034,952
Page No -4						255,705
Total from this Page						9,060,448
Total Carried to Summary						15,323,693

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S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
NON-SCHEDULE ITEMS						
		SUB STRUCTURE				
		TERMITE PROOFING				
2.13		Termite control treatment of sub grade soil, excavated surfaces and fill material with HEPTACHLOR emulsifiable to 0.5% with clean water or AGENDA 25 EC containing FIFRONIL or BIFLEX with Bifenitrin or DURSIN or TENERIL PLUS or MIRAGE AU AKBER GROUP or approved equivalent as per manufacturer's specifications and instructions, etc., complete in all respects as per drawing, standard specifications and as directed by the Engineer. <i>(Note: Final 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)</i>	18895 SF	SF	19	359005
 						
Total Carried to Summary						359005

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
3		SUPER STRUCTURE Note: All RCC Concrete will be used only Ready mixed.				
3.1	Code -114 Item # 4+135+138	REINFORCED CONCRETE WORKS 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/mm ² at 28 days) 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 (Cylindrical Strength 4000 Psi)				
	Item # 24+135+138	Ground Floor	3581 CH	100 CH	30,389.36	1,088,243
	Item # 24+135+138+92	First floor	2717 CH	100 CH	31,308.56	851,469
	Item # 24+135+138+ 92+93	Second Floor	2717 CH	100 CH	32,090.01	871,886
	Item # 24+135+138+ 92+93+93	Roof	436 CH	100 CH	32,841.46	143,189
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 4500 lbs. per sq. inch (31.04 N/mm ² at 28 days) 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.				
		RCC Wall / Shear Wall (Cylindrical Strength 4000 Psi)				
	Item # 30+135+138	Ground Floor	0 CH	100 CH	28,692.59	-
	Item # 30+135+138+92	First Floor	0 CH	100 CH	29,641.79	-
	Item # 30+135+138+92+9 3	Second Floor	0 CH	100 CH	30,393.28	-
	Item # 30+135+138+ 92+93+93	Roof	0 CH	100 CH	31,144.77	-
						
Total Carried to Collection						2,954,787

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
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 work cube crushing strength of 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) 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. Beams / Arches / purl / bracing / lintels / ribs / sills / coping / parapet wall / bands/around opening and projections (Cylindrical Strength 2500 Psi)				
	Item # 38+136	Ground Floor	3081 Cft	100 Cft	20,668.60	636,800
	Item # 38+136+92	First Floor	2878 Cft	100 Cft	21,617.80	622,160
	Item # 38+136+92+93	Second Floor	2909 Cft	100 Cft	22,369.25	650,721
	Item # 38+136+92+93+93	Roof	189 Cft	100 Cft	23,120.70	41,617
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 work cube crushing strength of 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 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 and ground floor etc. complete in all respects as per drawing, standard specifications and as directed by the Engineer. Slab w/o projections (Cylindrical Strength 2500 Psi)				
	Item # 57+136	Ground Floor	6869 Cft	100 Cft	19,520.67	1,340,875
	Item # 57+136+92	First Floor	6306 Cft	100 Cft	20,469.87	1,290,830
	Item # 57+136+92+93	Second Floor	6432 Cft	100 Cft	21,221.32	1,364,955
	Item # 57+136+92+93+93	Roof	419 Cft	100 Cft	21,972.77	92,066
Total Carried to Collection						6,040,024



S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 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.				
		Stair Case / steps /seals (Steps, Landing & Waist slab) (Cylindrical Strength 2500 Psi)				
	Item # 50+136	Ground Floor	371 CH	100 CH	25,989.63	96,422
	Item # 50+136+92	First Floor	371 CH	100 CH	26,938.83	99,943
	Item # 50+136+92+93	Second Floor	371 CH	100 CH	27,690.28	102,731
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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 in a square or 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 #	OH Water Tank Bottom Slab (Cylindrical Strength 2500 Psi)	162 CH	100 CH	27,268.62	44,175
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 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 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+136+(127x3)	OH Water Tank Walls (Cylindrical Strength 2500 Psi)	200 CH	100 CH	27,844.39	55,689
Total Carried to Collection						398,960



S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4		6	7 = 4 x 6
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 work cube crushing strength of 3000 lbs. per sq. inch (20.69 N/mm ² at 28 days) with a mix not leaner than 1:2:4 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.				
3.9	Item # 116+136+(127x3) Code-114	OH Water Tank Top Slab (Cylindrical Strength 2500 Psi) 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. chais, 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).	116 Cft	100 Cft	24,872.18	28,852
	Item # 166	Ground Floor	49906 Kg	Kg	123.02	6,139,436
	Item # 166+174	First Floor	42990 Kg	Kg	124.47	5,350,965
	Item # 166+174+175	Second Floor	43408 Kg	Kg	125.92	5,465,935
	Item # 166+174+175 +175	Roof	6287 Kg	Kg	127.37	800,775
Total Carried to Collection						17,785,963
		COLLECTION				
		Page No -7				2,954,787
		Page No -8				6,040,024
		Page No -9				398,960
		Total from this Page				17,785,963
Total Carried to Summary						27,179,734



S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
4		DPC & MASONRY WORKS				
4.1	Item # 3 Code -108 Page # 47	Damp Proof Course (DPC) Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded screened baji 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	1043 SF	100 SF	2,659.79	27,742
4.2	Item # 5 Code -108 Page # 47	Extra for using water proofing agent pudlo in item Nos. 4.1 (quantity to be used as per manufacturer's specification/2.50Kg per 100SF) etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	27 Kg	Kg	86.10	2,325
4.3	Code-111 Page # 87 & 82	Block Masonry (Hollow & Solids) Providing and laying 1:3:6 cement concrete hollow block masonry of any thickness using graded screened baji 1/2 inch (13 mm) and down gauge set in cement mortar 1:4 including scaffolding, raking out joints and curing etc. complete in basement and ground floor				
	Item # 1+12+18+19	Ground Floor	5304 CH	100 CH	13,779.44	730,861
	Item # 1+9+12+18+19	First Floor	3618 CH	100 CH	14,338.43	518,764
	Item # 1+9+10+12+18+19	Second Floor	3618 CH	100 CH	14,722.11	532,646
	Item # 1+9+10+10+12+ 18+19	Roof	399 CH	100 CH	15,105.79	60,272
4.4	Code-110 Page # 77, 80, 81 & 82	Providing and laying 1:3:6 machine made standard size 4'x8'x12" & 6'x8'x12" cement concrete solid block masonry 4 to 6 inches (102 mm to 152 mm) thick using graded screened baji 3/4 inch (19 mm) and down gauge set in cement mortar 1:4 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.				
	Item #44+92+100	Ground Floor	5458 CH	100 CH	15,933.28	869,438
	Item # 44+92+100+70	First Floor	5502 CH	100 CH	16,757.05	921,973
	Item # 34+92+100+70+71	Second Floor	5502 CH	100 CH	16,579.03	912,178
	Item # 44+92+100+70+71 +71	Roof	1970 CH	100 CH	18,116.01	356,885
4.5	Code-110 Page # 76, 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 in steps, stairs of approved design using graded screened baji 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.				
	Item # 34+92+75+68	FOR BLOCK MASONRY STEPS	329 CH	100 CH	17,532.37	57,681
Total Carried to Summary						4,970,965

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
5		THERMAL & MOISTURE PROTECTION				
5.1	Code-108 Item # 23 Page # 49	Providing and laying 1:9 cement concrete using screened graded baji 3/4 inch (19 mm) and down gauge in terracing 3 inches (76 mm) average thickness to required slope in panels including form work, consolidation, finishing, curing etc. and painting the surface with plastic bitumen No. 4 at the rate of 15 lbs per hundred square feet (0.73 Kg per sq.m) blinded with sand at the rate of 2 cubic feet per hundred square feet (0.06 Cu.m per sq.m) complete in second floor slab. Second Floor & Above	11637 SF	100 SF	3,620.88	421,362
Total Carried to Summary						421,362
6		METAL WORKS				
6.1	Code -119 Item # 43 Page # 240	M.S. / G.I Door Frame 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 BS, 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	3433 Rft	Rft	157.12	539,393
6.2	Code -122 Item # 159 Page # 333	Painting iron work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coat of any height in any floor etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	3855 SF	100 SF	2,776.62	107,039
6.3	Code -119 Item # 69 Page # 244	Providing and fixing double glazed Bronze anodized or Powder Coated aluminium Sliding/openable windows as per British standard manufactured by Lucky, Alcop, Gudson, Pakistan Cables and A.C.P. (fixing through their approved fabricators), Executive model section double or single glazed 101mm x 37mm and 2mm thick including the cost of aluminium netting, fitting, 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 panes.	3240 SF	SF	683.72	2,215,253



S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
6.4	Code-119 Item #60 Page # 242	Providing and fixing fully glazed Bronze anodized or powder coated aluminium fixed windows Partition as per British standard manufactured by Lucky, Alcop, Krudson, Pakistan cable and A.C.P. (fixing through their approved fabricators) deluxe model box section 101.76mm x 44.50mm and 3mm thick including the cost of aluminium 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 panes.	1677 Sft	Sft	330.23	553,796
6.5	Code-119 Item #119 Page # 254	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.	4917 Sft	Sft	88.91	437,170
6.6	Code-119 Item #53 Page # 242	Providing and fixing G.I. pipe railing of 2" (50 mm) diameter, comprising, vertical posts and horizontal bracing of G.I. pipe of the same dia as per design including cost of specials, bends, threading, cutting and making good the floor or wall of any kind in cement concrete 1:2:4 etc. complete in any floor.	291 Rft	Rft	374.72	109,044
Total Carried to Summary						3,961,655
7		WOOD WORKS				
7.1	Code-120 Item # 2 Page # 259	Door Frame Providing and fixing best quality deodar frames for doors, windows, ventilators, clerestory windows, shelves, partitions, trellis work, etc., as required. G.Floor F.Floor S.Floor & Roof	0 Cft 0 Cft 0 Cft	Cft Cft Cft	4,595.14 4,595.14 4,595.14	- - -
7.2	Code-120 Item # 63 Page # 265	Door Shutter Providing and fixing 1-1/2 inches (38 mm) thick pressed veneered door shutters fully flushed with commercial ply wood veneering on all faces and sides fixed over deodar wood cavities core and frame work of not less than 4 inches (102 mm) wide strip around with approved brass hinges and lower bolts etc., as required, complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	4212 Sft	Sft	655.18	2,759,618
7.3	Code-122 Item #160 Page # 333	Polish & Paint Painting wood work with synthetic enamel paint of approved make and shade two coats over and including the cost of one priming coat complete at any height in any floor. For Door Frame	10600 Sft	100 Sft	2,585.22	274,033
7.4	Code-119 Item # 119 Page # 254	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 Door Shutter	25 Sft	Sft	88.91	2,223
7.5	Code-120 Item # 182 Page # 279	Providing and fixing 2 inches (51 mm) thick best quality deodar wood partition fully glazed with glass panes 24 oz. (7.34 kg/51A.) deodar wood beading with putty packing to glasses etc., as required.	17 Sft	Sft	408.77	6,923
Total Carried to Summary						3,042,797

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
8		FLOOR FINISHES				
8.1	Code-117	Mosaic Tiles Providing and laying 1 inch (25 mm) thick floor of mosaic marble chips tiles 12" X 12" X 1" (1/2 inch topping 1/2" base) or 305 mm X 305 mm X 25 mm (13 mm topping, 12 mm base) in white cement with approved marble chips in ground floor over 1" (25 mm) lime mortar 1:2 (one lime two sand) including setting the tiles with grey cement slurry over lime mortar. Jointing and washing the tiles with cement slurry of matching colour including grinding, rubbing, polishing and curing etc. Complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 79 Page# 199	Ground Floor	5797 Sft	100 Sft	12,237.02	709,350
	Item # 79+94 Page# 199 & 201	First Floor	339 Sft	100 Sft	12,432.15	42,145
	Item # 79+94+95 Page# 199 & 201	Second Floor	580 Sft	100 Sft	12,564.84	72,876
8.2	Code-117 Item # 159 Page# 209	Porcelain Tiles Providing and laying light colour, glazed/non-skid vitrified porcelain tiles (Polished) not exceeding 1600 Sqcm each, (Pak made) on walls and floors, in any floor, laid with dry bond (tile 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.				
	Item # 159 Page# 209	G.Floor	6520 Sft	100 Sft	17,882.39	1,165,932
	Item # 159 Page# 209	First Floor	10688 Sft	100 Sft	17,882.39	1,911,270
	Item # 159 Page# 209	Second Floor	10730 Sft	100 Sft	17,882.39	1,916,780
Total Carried to Summary						5,020,353
9		WALL FINISHES				
9.1	Code-122	Internal Wall Plaster 1/2" (13 mm) thick cement plaster 1:6 on wall columns etc. in basement, pinth, 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 # 6 Page # 320	Ground Floor	39523 Sft	100 Sft	1,733.74	684,040
	Item # 6+87 Page # 320 & 327	First Floor	37044 Sft	100 Sft	1,884.61	698,135
	Item # 6+87+90 Page # 320, 327 & 328	Second Floor	37044 Sft	100 Sft	2,015.07	746,463
	Item # 6+87+90+90 Page # 320, 327 & 328	Roof	2881 Sft	100 Sft	2,145.53	61,813



S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x5x6
9.2	Code-117 Item # 159 Page# 209	Dado & Skirting Providing and laying light colour, glazed/non skid vitrified porcelain tiles (Polished) not exceeding 1600 Sqcm each, (Palk mode) on walls and floors, in any floor, laid with dry bond (sile 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				
	Item # 159 Page# 209	G.Floor	2881 Sft	100 Sft	17,882.39	515,192
	Item # 159 Page# 209	First Floor	2542 Sft	100 Sft	17,882.39	454,570
	Item # 159 Page# 209	Second Floor	2542 Sft	100 Sft	17,882.39	454,570
9.3	Code-118 Item # 55 + 58 Page# 219	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 dado and skirting 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				
	Code-118 Item # 55 + 58 Page# 219	G.Floor	551 Sft	100 Sft	14,274.50	78,632
	Code-118 Item # 55 + 58+60 Page# 219	F.Floor	77 Sft	100 Sft	14,567.19	11,217
	Code-118 Item # 55 + 58+60+61 Page# 219	S.Floor	77 Sft	100 Sft	14,813.03	11,406
9.4	Code-122	Puddle 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	940 Sft	100 Sft	2,367.12	22,251
	Item # 8+88	O.H.W.T Plaster	620 Sft	100 Sft	2,572.28	15,948
9.5	Code-122	Providing and mixing water proofing agent putco in cement mortar of any description in any floor etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 30	U.G.W.T	26 Kg	Kg	85.15	2,240
	Item # 30	O.H.W.T	17 Kg	Kg	85.15	1,465
9.6	Code-122 Item # 162	Painting with (ICI) Deluxe plastic emulsion paint VIP of approved shade two coats over and including the cost of one priming coat complete over plastered surface of any height in any floor.	115509 Sft	100 Sft	2,742.08	3,167,349
Total Carried to Summary						4,926,311.00

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
10		CEILING FINISHES				
10.1	Code-122	Internal Ceiling Plaster 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.				
	Item # 6 Page # 320	Ground Floor	5360 Sft	100 Sft	1,730.74	92,768
	Item # 6+87 Page # 320 & 327	First Floor	6850 Sft	100 Sft	1,884.61	129,096
	Item # 6+87+90 Page # 320, 327 & 328	Second Floor	7102 Sft	100 Sft	2,015.07	143,110
	Item # 6+87+90+90 Page # 320, 327	Roof	760 Sft	100 Sft	2,145.53	16,306
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 fine wash including sand papering, dusting, and filling the holes, cracks and inequalities, if any, at any height in any floor.	19708 Sft	100 Sft	1,053.54	207,632
10.3	Code-124 Item # 182 Page# 361	Providing and fixing Gypsum board 2' x 2' x 12mm tiles ceiling including Aluminum T & L angle 1" x 1", c hanger clips joining clips and G.I Wire etc. complete as required in any floor.	10346 Sft	Sft	71.69	741,705
10.4	Code-124 Item # 183 Page# 361	Providing and fixing mineral fiber tiles 2' x 2' x 12mm ceiling including T & L angle hanger clips joining clips and G.I Wire etc. complete as required in any floor.	5757 Sft	Sft	77.49	446,110
Total Carried to Summary						1,776,727
11		EXTERNAL FINISHES				
11.1	Code-122	External 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 Page # 320	Ground Floor	17007 Sft	100 Sft	2,367.12	402,576
	Item # 8+88 Page # 320 & 327	First Floor	12054 Sft	100 Sft	2,572.28	310,063
	Item # 8+88+91 Page # 320, 327 & 328	Second Floor	12054 Sft	100 Sft	2,746.22	331,029
	Item # 8+88+91+91 Page # 320, 327 & 328	Roof	8396 Sft	100 Sft	2,920.16	245,177
11.2	Code-122 Item # 83 Page # 327	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. 11.1	49511 Sft	100 Sft	518.48	256,705
11.3	Code-122	Pointing 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.				
	Item # 172	Ground Floor to Roof	2733 Sft	100 Sft	1,406.88	38,450



S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
11.4	Code-122	Providing and applying colour Crete 1/4" (6.4 mm) 1:1:2 (1 white cement mixed with pigment, 1 marble powder and 2 marble chips zero No.) with horizontal & vertical joints or Grooves including dragging the surface with wire brush complete with curing etc., over base of 3/4" (19 mm) thick cement plaster 1:3 in plinth, mazzarine and ground floor including chiseling the surface to give texture of stone including the cost of base course etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer				
	Item # 79+82+83 Page # 326 & 327	Ground Floor	17007 Sft	100 Sft	8,043.11	1,367,892
	Item # 79+82+83+88	First Floor	12054 Sft	100 Sft	8,248.27	994,246
	Item # 79+82+83+88+91 Page # 326 & 327	Second Floor	12054 Sft	100 Sft	8,422.21	1,015,213
	Item # 79+82+83+88+91+9 1	Above Second floor & Roof	8396 Sft	100 Sft	8,596.15	721,733
11.5	Item # 88 Page # 149 & 150	Providing and fixing 1:2 precast reinforced or plain cement concrete jali or louvers up to 2 inches (51 mm) thick in required shape including form works and its removal, compacting and curing etc. complete but excluding the cost of reinforcement. in ground floor (no deduction for holes shall be made)				
	Item # 88	Ground Floor	0 CH	100 CH	33,815.30	-
	Item # 88+94	First Floor	0 CH	100 CH	34,478.61	-
	Item # 88+94+95	Second Floor	0 CH	100 CH	34,995.59	-
Total Carried to Summary						5,683,084
12		EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)				
		C.C 1:2:4 Floor				
12.1	Code-117	Providing and laying floors of 3 inches (76 mm) thick 1:2:4 cement concrete using graded screened bagli 3/4 inch (19 mm) and down gauge in ground floor laid in panels including form work, consolidation, finishing and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer				
	Item # 7	Ground Floor	953 Sft	100 Sft	4,289.49	40,879
12.2	Code-117 Item # 158 Page # 208	Providing and laying in floor C.C. 1:2:4 full pavers 2" thick of approved design and colour and pattern (average strength 7000 psi) laid on sand cushion filling of joint with sand and wiring etc. complete as per direction of Engineer in charge. (the cost of sand cushion is included) complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
			0 Sft	Sft	61.64	-
12.3	Code-117	Providing and laying 1 inch (25 mm) thick floor of mosaic marble chips tiles 12" X 12" X 1" (1/2 inch topping 1/2" base) or 305 mm X 305 mm X 25 mm (13 mm topping, 12 mm base) in white cement with approved marble chips in ground floor over 1" (25 mm) lime mortar 1:2 (one lime two sand) including setting the tiles with gray cement slurry over lime mortar, jointing and washing the tiles with cement slurry of matching colour including grinding, rubbing, polishing and curing etc. Complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 79 Page # 199	Ground Floor	424 Sft	100 Sft	12,237.02	51,885
Total Carried to Summary						92,764

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
NON-SCHEDULE ITEMS						
6		All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respects and to the entire satisfaction of the Engineer. METAL WORKS				
6.1	NS.I	LOUVERS DOORS Providing and fixing Branz anodized or Powder Coated aluminium louver door as per British standard manufactured by Lucky, Alcop, Kudson, Pakistan Cables and A.C.P. (fixing through their approved fabricators). Executive model section including the cost of aluminium filling, with all accessories cutting hole etc. and making good damages to walls etc. complete as required in any floor as per direction of the Engineer. (Note: minimum wall thickness for all sections shall be 2mm and width will not be less than 4" wide or according to the design)	148	Sq.	500	74000
Total Carried to Summary						74000




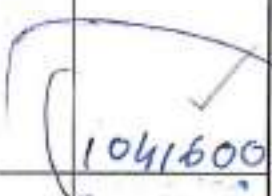
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S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
7		All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BSI/ASTM Standards, and complete in all respects and to the entire satisfaction of the Engineer.				
		WOOD WORKS				
7.1	N.S.I	FIRE RATED DOORS Providing and fixing wooden fire rated doors single & double leaf as per drawing with frames factory fabricated meet the requirements of the BM TRADA "Q" Mark Third Party Accredited scheme, tested in accordance with BS476 Pt22 1987 achieving a FD 60 minutes fire resisting rating, including standard fire door hardware fire rated locks or exit devices with latching units and exposed door closer (dormo or equivalent) key and thumb turn concealed JSS with SS hinges complete 50mm wall size frame and spray paint finish etc., complete from Safeco or approved as per specifications & relevant drawings, and to the entire satisfaction of the Engineer.	301 Sft	Sft	5300	1595300
7.2	N.S.I	Wooden Cabinets Providing making and fixing in position floor mounted lower cabinets (Pantry etc.) as per drawing of any height / floor, made of 3/4" thick coloured laminated (both face) Lasani board shutter free from formaldehyde including all around OAK wood tipping kitchen cabinet, 3" x 1-1/2" thick Partal wood frame, complete with all accessories i.e. imported hinges, locks, magnetic catches, best quality handles etc., including any formal 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. (Roof face will be measured for payments)	81 Sft 0.5ft 0.5ft	Sft Sft Sft	2250 3250 —	182250
7.3	N.S.I	Providing making and fixing in position wall mounted cabinets for (kitchen etc.) as per drawing of any height / floor, made of 3/4" thick colored laminated (both side) Lasani board shutter free from formaldehyde including all around Deodar wood tipping 3/8" thick, 3" x 1-1/2" thick Partal wood frame, 5mm one side laminated Lasani board back complete with all accessories i.e. imported hinges, locks, magnetic catches, best quality handles etc., including any formal 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. (Roof face will be measured for payments)	81 Sft 0.5ft 0.5ft	Sft Sft Sft	2350 — —	190350
Total Carried to Summary						1967900



S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
		All items under this head (Architectural) to be carried out as per specifications, Drawings, relevant BS/ASTM Standards, and complete in all respects and to the entire satisfaction of the Engineer.				
8		FLOOR FINISHES				
8.1	N.S.I	Providing and laying Terrazzo tiles/slab with bull nosing in one piece /full length (up to 5 feet long) 1-1/2" thick for Treads consisting of 3/4" thick topping 1:2 (One gray cement 2 approved marble chips No. 0 to 4 & chipchips) in white cement over a base 1:2:4 (One cement, two sand & four crush) cement concrete 3/4" thick in any floor laid with cement slurry/dry over existing surface including jointing with approved quality grouting material & grinding, polishing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
		Ground floor	335 SF	SF	600	201000 ✓
		First floor	303 SF	SF	600	181800 ✓
		Second floor	303 SF	SF	600	181800 ✓
8.2	N.S.I	Providing and laying Terrazzo tiles/slab in one pieces for Risers at consisting of 1/2" thick 1:2 (One gray cement 2 approved marble chips No. 0 to 4) laid with cement slurry/dry board over existing surface in any floor including jointing with approved quality grouting material & grinding, polishing complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer				
		Ground floor	167 SF	SF	600	100200 ✓
		First floor	152 SF	SF	600	91200 ✓
		Second floor	152 SF	SF	600	91200 ✓
8.3	N.S.I	Providing, laying and fixing Per-Polished Marble Counter Top 24" wide and 3/4" thick as per drawing, activities include provide & fix 1-1/2" thick RCC slab, setting with Dry Band, fixing in wall with cutting/chiseling in RCC / CC members etc. grouting with matching colour approved grouting material in joints, 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				
			162 SF	SF	1200	194400 ✓
  						 1041600 ✓
Total Carried to Summary						

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
11		EXTERNAL FINISHES				
11.1	N.S.I	Providing & Laying Natural Sand 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 level)	0 Sft	Sft	-	-
11.2	N.S.I	External Building LOGO's Provide, make, finish and fix in position LOGO & LETTERING ("SINDH MADRESSATUL ISLAM UNIVERSITY -FEMALE STUDENTS HOSTEL") lettering with 48" dia Logo on External walls including 2" thick Plaster in 1:4 cement, sand mortar with LOGO made of Stainless Steel Sheet (size as shown in drawing), fixed to walls with 3" long steel rawel bolts, strictly according to drawings. This includes three coats of plastic emulsion paint and preparation of surface with filling manufactured by ICI, all nails, screws, glues etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
		a) Lettering with 4" dia Logo	50 Each	Each	20000	1000000
		b) Logo Plaster (6'-0" x 24'-6")	150 Each	Sft	50	7500
11.3	N.S.I	Rain Water Spouts Providing, Making and fixing in position R.C.C Precast Rain Water spouts (size as shown in drawing), complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	0 Each	Each	8100	-
11.4	N.S.I	Providing, Making and fixing ornamental columns, and ball finial comprising of artificial sand stone round & other geometrical shape over around windows & parapet wall (size as shown in drawing), complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
11.5		a) Ornamental Pre cast Columns	0 Rft	Rft	2000	-
11.6	N.S.I	b) Ornamental Pre cast ball finial with base	0 Rft	Nos	5000	-
11.7	N.S.I	Providing & Laying pre cast cornices with 3000 psi concrete over columns, walls, arches & where required with cement sand mortar 1:2 in any pattern in as per direction of the engineer-in-charge including the cost of curing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer. (at any height any floor)	510 Rft	Rft	2500	1275000
11.7	N.S.I	Providing and fixing Kapral/Clay tile of approved size, thickness, colors & patterns, over roof, including fixing with 1:4 cement sand mortar/Dry band, grouting with approved material including cutting, jointing, curing, etc. complete in all respect as per drawings, specifications and the satisfaction of the Engineer. (at any height in any level)	0 Sft	Sft	-	-
Total Carried to Summary						2282500



S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	Rate (RS)	Amount (RS)
1	2	3	4	5	6	7=4x6
12		EXTERNAL FINISHES OTHER THAN BUILDING (NON COVERED AREA)				
12.1	N.S.I	Providing and laying Terrazzo tiles/slabs with bull nosing in one piece /full length (up to 5 feet long) 1-1/2" thick for treads consisting of 3/4" thick topping 1:2 (One gray cement 2 approved marble chips No. 0 to 4 & chopchop) in white cement over a base 1:2:4 (One cement, two sand & four crush) cement concrete 3/4" thick in any floor laid with cement slurry/dry over existing surface including jointing with approved quality grouting material & grinding, polishing etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	357 Sft	Sft	310	110670
12.2	N.S.I	Providing and laying Terrazzo tiles/slab in one pieces for Risers at consisting of 1/2" thick 1:2 (One gray cement 2 approved marble chips No. 0 to 4) laid with cement slurry/dry board over existing surface in any floor including jointing with approved quality grouting material & grinding, polishing complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	178 Sft	Sft	310	55180
12.3	N.S.I	Providing and making Planter/ land escaping as shown on drawing all works comprising (earth filling, sweet earth with mature plants and grassing compacting, curing, finishing & leveling) etc., excluding Tree, complete in all respects as per drawing, standard, specifications and direction of the Engineer.	264 Sft	Sft	600	158400
  						 324250
Total Carried to Summary						

ELECTRICAL WORKS




BILL OF QUANTITIES



S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
NON-SCHEDULE ITEMS		
1	INTERNAL ELECTRIFICATION	1663898 ✓
2	L.V. PANELS & DISTRIBUTION BOARDS	166051.4 ✓
3	LOW VOLTAGE CABLES AND WIRES	76678.50 ✓
4	CONDUITS & PIPES	137637.6 ✓
5	WIRING ACCESSORIES	1086220.8 ✓
6	LIGHT FIXTURE & FANS	2467966 ✓
7	EXTERNAL LIGHTING	99076 ✓
8	UPS SYSTEM (ON HOLD)	
9	EARTHING SYSTEM	401566 ✓
10	LIGHTNING PROTECTION SYSTEM (LPS)	306884 ✓
TOTAL AMOUNT		6405976 ✓


[Handwritten signatures]




6405978/- ✓

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
NON-SCHEDULE ITEMS					
1	INTERNAL ELECTRIFICATION				
a)	3 WIRE IN PVC RECESSED CONDUIT				
i	Wiring for sub-main with 3x 1.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	6,680	Mtr.	158	1055440
ii	Wiring for sub-main with 3x 2.5 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	3,251	Mtr.	158	513658
iii	Wiring for sub-main with 3x 4 mm ² , PVC insulated wire 300/500 volts grade, single core, stranded copper conductor wire in 20 mm (3/4") dia PVC conduit recessed in the wall, column and roof etc as required.	600	Mtr.	158	94800
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					1663898

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
2	L.V. PANELS & DISTRIBUTION BOARDS				
a)	Supply, installation, testing & commissioning of Wall/Flush mounted Main Distribution Board (MDB) / Sub Main Distribution Board (SMDB) / Distribution Boards (DB), made with 16 SWG sheet steel metal, as per single line diagram, dust protected, vermin proof housing coated with approved color having all the necessary switching & protections, including all mounting accessories as per specifications and drawings, complete in all respect.				
i	MDB-FH	1	No.	21085.9	21085.9
ii	DB-FH-GF1	1	No.	21085.9	21085.9
iii	DB-FH-GF2	1	No.	21085.9	21085.9
iv	DB-FH-GF-ICT	1	No.	21085.9	21085.9
v	DB-FH-1F1	1	No.	21085.9	21085.9
vi	DB-FH-1F2	1	No.	17132	17132
vii	DB-FH-2F1	1	No.	21085.9	21085.9
viii	DB-FH-2F2	1	No.	17132	17132
b)	Supply, installation, testing & commissioning of following Isolators, in 16 SWG sheet steel enclosure with neutral and earth terminal strips, including all mounting accessories as per specification & drawing, complete in all respect.				
i	20A, SPN Isolator	2	Nos.	2636	5272
 					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					166051.4

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
3	LOW VOLTAGE CABLES AND WIRES Supply, laying, termination and commissioning of following copper conductor cable in already laid PVC conduit / cable tray / trench as required as per drawing and specification ,complete in all respect.				
a)	1 Core - Cu.PVC/PVC Cable (600/1000V)				
i	1 Core - 10 Sq.mm	1130	Mtr.	52.7	59551 ✓
b)	1 Core - CU/PVC Cable as ECC				
i	1 Core - 10 Sq.mm Cu/PVC Cable	325	Mtr.	52.70	17127.50 ✓
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					76678.50

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
4	CONDUITS & PIPES				
a)	Providing and laying of following size (inner dia) PVC / UPVC Conduit as race ways with all accessories recessed / surface on wall / column / under floor for Power. As per specifications and drawings, complete in all respect.				
i	25 mm dia PVC	20	Mtr.	237	4740 ✓
ii	38 mm dia PVC	20	Mtr.	237	4740 ✓
iii	50 mm dia PVC	325	Mtr.	316	102700 ✓
b)	Providing and laying of UPVC (Class-D) pipe having dia of following size. Buried in ground as per drawing. Including excavation for laying of pipe and backfilling with clean sand (under and above pipe), compaction, concrete, plugging of pipe ends etc. as shown on drawing complete in all respect.				
i	100 mm dia UPVC (Class-D)	5	Mtr.	790	3950 ✓
c)	Providing and Construction of Manhole Size 600x600x900 mm deep, 6" thick, concrete 1:2:4 ratio with 600mm round heavy duty cast iron cover, 100% water proof, complete in all respect.	1	No.	21086	21086 ✓
d)	Providing & Installing of Pull Box as per drawing and specification, complete in all respect.	8	Nos.	52.70	421.6 ✓
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					137637.6

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
5	WIRING ACCESSORIES				
a)	Supply, installation, testing & commissioning of following 10/13/15/20A, 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 specification, complete in all respects.				
i	10A, One Gang Switch	311	Nos.	1318	409898
ii	10A, One Gang Switch Weatherproof type	1	Nos.	1318	1318
iii	10A, One Gang 2way Switch	14	Nos.	1318	18452
iv	10A, Two Gang Switch	30	Nos.	1318	39540
v	10A, Three Gang Switch	32	Nos.	1318	42176
vi	10A, Four Gang Switch	33	Nos.	1318	43494
vii	20A, Double Pole Switch	9	Nos.	1318	11862
viii	One Gang Dimmer with 10A Switch	124	Nos.	1318	163432
ix	Two Gang Dimmer with 10A Switch	15	Nos.	1318	19770
x	10A, 2-Pin 1-Gang Switched Socket Outlet	318	Nos.	922	293196
xi	13A, 3 Pin Flat 2-Gang Switched Socket Outlet	9	Nos.	922	8298
xii	13A, Unswitched Spur Outlet	4	Nos.	922	3688
xiii	15A, 3Pin Switched Socket Outlet	4	Nos.	790	3160
xiv	Flex Outlet	9	Nos.	2372	21348
xv	32A, 3Pin Industrial Outlet	1	No.	6588.8	6588.8
CARRIED TO ELECTRICAL SUMMARY =====>>>>					1086220.8



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S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
7	EXTERNAL LIGHTING				
a)	Supply, installation, testing & commissioning of following light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per specification, 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	Type R1	19	Nos.	2108	40052
ii	Type W1	19	Nos.	2108	40052
iii	Type W2	9	Nos.	2108	18972
CARRIED TO ELECTRICAL SUMMARY =====>>>>					99076





99076

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
6	LIGHT FIXTURE & FANS				
a)	Supply, installation, testing & commissioning of following light fixtures complete with starters, Electronic ballast (unless mention otherwise), lamps, lamp holders, drivers, mounting accessories etc., as per specification, 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	Type BL	16	Nos.	1318	21088
ii	Type D1	299	Nos.	1318	394082
iii	Type D2	99	Nos.	1318	130482
iv	Type D3	54	Nos.	1318	7172
v	Type D4	21	Nos.	1318	27678
vi	Type D5	48	Nos.	1318	63264
vii	Type D6	13	Nos.	1318	17334
viii	Type LD1	14	Nos.	1318	18452
ix	Type LD2	7	Nos.	1318	9226
x	Type W3	286	Nos.	2108	602888
b)	Supply, installation, testing and commissioning of following items including all connecting accessories as per drawings, specifications, complete in all respects.				
i	48" dia Sweep Ceiling Fan	8	Nos.	7500	60000
ii	56" dia Sweep Ceiling Fan	131	Nos.	7500	982500
iii	8" dia Exhaust Fan	20	Nos.	3500	70000
CARRIED TO ELECTRICAL SUMMARY =====>>>>					2467966



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S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
8	UPS SYSTEM				
a)	Providing, installing, testing & commissioning of True Online Double Conversion UPS rating 6 kVA Single Phase in, Single Phase out, minimum 0.9 output power factor with 10 minutes battery backup, batteries with related DC cables from UPS to batteries, external By-pass and all accessories as per specification & drawings, complete in all respect.	1	No.	HOLD	HOLD
					
					
CARRIED TO ELECTRICAL SUMMARY =====>>>>					

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
9	EARTHING SYSTEM				
a)	Supply, installing, testing and commissioning of following items for complete earthing system including all connecting accessories as per drawings and specifications complete in all respect.				
i	Earth pit with Rod type earth electrode, 3/4" dia and 3 meters long copper rod .	1	No.	197680	197680
b)	Supply, installing, testing and commissioning of following items for complete clean earthing system including all connecting accessories as per drawings & specifications complete in all respect.				
i	Earth pit with Rod type earth electrode, 3/4" dia and 3 meters long copper rod .	1	Job.	197680	197680
c)	Supply, Installation, Testing and Commissioning of Earth Copper Bar 300x50x6 mm for earthing system as per drawings and instruction of consultant.	2	Nos.	1318	2636
d)	Supply, laying, testing and commissioning of 1x70 Sq.mm PVC Insulated Cu. Conductor cable as earth continuity conductor (ECC) in 38 mm dia uPVC conduit, complete in all respect.	30	Mtr.	119	3570
CARRIED TO ELECTRICAL SUMMARY =====>>>>					401566



S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
10	LIGHTNING PROTECTION SYSTEM (LPS)				
a)	Supply, installation, testing and commissioning of 27mm x 2mm Tinned Copper Tape to be run on roof and on the elevation of the building as required and shown on drawings including all fixing accessories etc., as per specification, as per site requirement necessary for the functioning of the system and drawing, complete in all respect.	140	Mtr.	395	55300
b)	Supply, installation, testing and commissioning of Early Streamer Emission (ESE) Air Terminal mounted on 2 meter elevation mast, as per drawing, complete in all respect and having following specifications: Efficiency: 60 micro seconds Lightning current withstanding test (10/350µs): 100 kA ESE Central Rod: Nickel Plated Copper Metal Housing : Stainless Steel 316L Protection Radius : 31 meter at 2 meter height	1	No.	39537	39537
c)	Providing and installation of 2 meter high elevation mast consisting side wall mounting bracket for installation and fixing of ESE Air Terminal, as per drawing and specification as per site requirement necessary for the system, complete in all respect.	3	Nos.	39537	118611
d)	Providing and installation of pyramid holdfasts / studs filled with cement for holding and supporting the flat tape conductor, as per drawing and specification as per site requirement necessary for the system, complete in all respect.	49	Nos.	1318	64582
e)	Providing and installation of lightning flash counter as per drawing and specification as per site requirement necessary for the system, complete in all respect.	1	No.	3954	3954
f)	Providing and installation of Earth Electrode Copper bond earth rod 3 meters and clamp, Polypropylene earth pit, as per drawing and specification, complete in all respect.	6	Nos.	208	12648
g)	Providing and installation of Test Clamp and Guard Tube 2 m in length, as per drawing and specification, as per specification, as per site requirement necessary for the functioning of the system, complete in all respect.	2	Job.	5271	10542



S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
h)	Supply, laying, testing and commissioning of 1x70 Sq.mm PVC insulated Cu. Conductor cable in 32 mm dia uPVC Pipe at ground level connecting Lightning protection pits to power earthing pits, complete in all respect.	10	Mtr.	171	1710
CARRIED TO ELECTRICAL SUMMARY =====>>>>					306884

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ELV SYSTEM





S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
NON-SCHEDULE ITEMS		
1	CONDUITS & PIPES	527500 ✓
2	VOICE, DATA COMMUNICATION & CCTV CABLING SYSTEMS (Passive Equipment Only) (Equipments & cabling on HOLD, only conduiting in Contractor's Scope)	312650 ✓
3	ACCESS CONTROL SYSTEM (On HOLD)	
4	CCTV SYSTEM (On HOLD)	
5	CABLE TELEVISION SYSTEM (CATV) (Equipments & cabling on HOLD, only conduiting in Contractor's Scope)	7182.50 ✓
6	CABLE TRAY	90000 ✓
TOTAL AMOUNT		937332.5 ✓






S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
NON-SCHEDULE ITEMS					
1	CONDUITS & PIPES				
a)	Providing and laying of following size UPVC pipe of Class D for ELV Cables (copper / optic fiber). Buried in ground / under roads / under floor as per specification, including excavation for laying of pipe, bricks, warning tape and backfilling with new and fresh soil etc., as shown on the drawing, complete in all respect.				
i	2" dia UPVC Conduit	15	Mtr.	2000	30000
b)	Providing and Construction of Manhole Size 2' x 2' x 3' mm deep 6" thick concrete 1:2:4 ratio with 2' round heavy duty cast iron cover, 100% water proof, complete in all respect. (For Incoming Telecommunication cables).	1	No.	97500	97500
c)	Providing and Installation of Pull Box as per drawing and specification, complete in all respect.	1	No.	400000	400000
 					
CARRIED TO ELV SUMMARY =====>>>>					527500



S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
2	VOICE, DATA COMMUNICATION & CCTV CABLING SYSTEMS (Passive Equipment Only)				
a)	Providing, installation, testing and commissioning of following Data / Voice Cabinets, for patch panel, Fiber panels, adapter, PDU's, Fans and space for active switches as it may require to accommodate complete the entire passive and active network as per the single line diagram drawing and specification, complete in all respect.				
i	12U Data Rack in IT Room (800mmx800mm)	3	No.	HOLD	HOLD
b)	Supply, installing, 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.	102	Nos.	HOLD	HOLD
c)	Providing, fixing, testing and commissioning of 4 Pair RJ-45, Cat-6 Simplex Outlet for Data with I/O - Shutter type with 16 SWG back box as per drawing and specification, complete in all respect.	1	Nos.	HOLD	HOLD
d)	Supply, installing, testing and commissioning of Single RJ-45, Cat-6 outlet for Camera with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.	17	Nos.	HOLD	HOLD
e)	Supply, installing, testing and commissioning of Single RJ-45, Cat-6 outlet for WIFI with shutter type and 16 SWG back box including tagging, as per drawing and specification, complete in all respect.	3	No.	HOLD	HOLD
f)	Supply, laying, testing and commissioning of CAT-6, 4 pair cable for Single RJ-45 outlet (Data, Voice, Camera, Wifi and Access control system) in 25mm dia PVC conduit concealed/surface from each outlet to IDF racks, including tagging and piping with all necessary accessories, complete in all respect. (Cabling on HOLD, only conduiting in Contractor's Scope)	3700	Mtr.	84.5	312650
g)	Supply, laying, testing and commissioning of Cat 5e, 25 pair Backbone cable from Admin building to IDF racks in already laid cable tray / conduit, including with all the necessary accessories as per drawing and specifications, complete in all respect.	4275	Mtr.	HOLD	HOLD
h)	Supply, laying, testing and commissioning of 8 core multi mode OM3 Fiber optic cable from IDF rack to remaining IDF Racks in already laid cable tray / conduit, including with all necessary accessories, as per drawing and specification, complete in all respect.	30	Mtr.	HOLD	HOLD



S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
j)	Supply, laying, testing and commissioning of 2 core single mode OS2 Fiber optic cable from Admin Building to IDF Racks in already laid cable tray / conduit, including with all necessary accessories, as per drawing and specification, complete in all respect.	1700	Mtr.	HOLD	HOLD
k)	Supply, installing, testing and commissioning of 24 port Cat 6, RJ 45 UTP Patch Panel fully loaded with tool less jacks and rear cable manager, as per drawing and specification, complete in all respect.	3	No.	HOLD	HOLD
l)	Supply, installing, testing and commissioning of 24 port Fiber Patch Panel fully loaded with pigtailed etc., and rear cable manager, as per drawing and specification, complete in all respect.	3	No.	HOLD	HOLD
m)	Supply, installing, testing and commissioning of 19" front/rear (as required) cable organizer between patch panels and active equipment to provide patch cable management including with all necessary accessories, as per drawing and specification, complete in all respect.	6	Nos.	HOLD	HOLD
n)	Providing, 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 (1m) Long Patch Cord.	123	Nos.	HOLD	HOLD
ii	CAT-6 (2m) Long Patch Cord.	123	Nos.	HOLD	HOLD
o)	Supply, installing, testing and commissioning of following blocks in Data rack, as per drawing and specification, complete in all respect.				
i	100 Pair IDC Block	1	No.	HOLD	HOLD
ii	50 Pair IDC Block	2	No.	HOLD	HOLD
p)	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.	HOLD	HOLD
 					
CARRIED TO ELV SUMMARY =====>>>>					

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
3	ACCESS CONTROL SYSTEM				
a)	Supply, installing, testing and commissioning of 2 Door Controller LAN Based with power supply, as per drawings and specification, complete in all respect.	2	No.	HOLD	HOLD
b)	Supply, installing, testing and commissioning of BIO Proximity Card Reader, as per drawings and specification, complete in all respect.	3	No.	HOLD	HOLD
c)	Supply, installing, testing and commissioning of Exit Control Push Button, as per drawings and specification, complete in all respect.	3	No.	HOLD	HOLD
d)	Supply, installing, testing and commissioning of Electromagnetic Door Lock with matching power supply, as per drawings and specification, complete in all respect.	3	No.	HOLD	HOLD
e)	Supply, installing, testing and commissioning of PVC Card for Reader, as per drawing and specifications, complete in all respect.	30	Nos.	HOLD	HOLD
f)	Installation, testing, commissioning & programming by Manufacturer Authorized Agent / Dealer and handing over complete Access Control System to Owner with providing training, SOP, complete equipment's manual and warranty documents to Owner's Representative.	1	Job.	HOLD	HOLD
					
CARRIED TO ELV SUMMARY =====>>>>					

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
4	CCTV SYSTEM				
a)	Supply, installing, testing and commissioning of 2 MP IP based camera with 1/2.8" CMOS 3.3 to 12mm varfocal lens, power adopter, wall mounted bracket, and IP-65 housing, complete in all respect with fixing accessories, as per drawing and specifications, complete in all respect.	17	Nos.	HOLD	HOLD
b)	Installation, testing, commissioning, programming by Manufacturer Authorized Agent / Dealer and handing over complete CCTV System to Owner with providing training, SOP, complete equipment's manual and warranty documents to owners representative.	1	Job.	HOLD	HOLD
 					
CARRIED TO ELV SUMMARY =====>>>>					

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3 x 5)
5	CABLE TELEVISION SYSTEM (CATV)				
a)	Supply, installation, testing and commissioning of TV outlet face plate with 16 SWG back box, complete in all respects.	4	Nos.	HOLD	HOLD
b)	Supply and installation of CATV 2x4 Way Splitter with box, complete in all respects.	1	No.	HOLD	HOLD
c)	Supply and installation of CATV RG-06 Co-axial 75 ohms shielded cable in 25mm dia PVC conduit from Splitter box to TV outlet, complete in all respects. (Cabling on HOLD, only conduiting in Contractor's Scope)	85	Mtr.	84.50	7182.50
					
					
CARRIED TO ELV SUMMARY =====>>>>					7182.50

S.NO.	DESCRIPTION	QTY	UNIT	RATE (Rs.)	AMOUNT (Rs.)
1	2	3	4	5	6 = (3x5)
6	CABLE TRAY				
a)	Providing and Installing of following size of base perforated for ELV System, Fabricated with 14/16 SWG MS Sheet steel Hot dip Galvanized with Cover including all installation accessories (Hot Dip Galvanized) such as appropriate sizes and lengths of M.S Rod / Angle Iron Supports and Rawl Bolts etc. Complete in all respect as shown in drawings and specification or as directed by the Engineer.				
i	300 x 50mm: 16 SWG	20	Mtr.	4500	90000
CARRIED TO ELV SUMMARY =====>>>>					90000

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ELV SYSTEM




S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
A. SCHEDULE ITEMS		
1	Plumbing Fixtures	446,060
2	Manholes & Gully traps	191,862
	Sub Total	637,922
	Add <u>41%</u> Above/Below/At par on Plumbing Works of Composite Schedule of Rates 2012, PWD Schedule 2012	261,548
	TOTAL-A Rs.	899,470
B. NON-SCHEDULE ITEMS		
1	Water Supply	147,280
2	Sanitary Sewage	28,370
3	Fire Fighting Works	20,667
4	Gas Works	4,400
	SUB-TOTAL-B Rs.	642,062
	TOTAL AMOUNT (A+B)	732,099


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Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
A SCHEDULE ITEMS						
1	301-1	PLUMBING FIXTURES: Providing and fixing best quality squatting type glazed earthenware W.C.Pan, Pakistan (of not less than 18" clear opening as measured between the flushing rim) Complete with and including the cost of 13.6 liters best quality low level plastic flushing cistern with internal fittings complete, P.V.C. flushing pipe suitable for this type with fittings and making requisite number of holes in walls, plinth & floor for pipe connections and making good in cement concrete 1:2:4.	5	Nos.	3,425	17,125
2	301-6	Providing and fixing Pakistani make best available quality European style white glazed earthenware wash down W.C.Pan complete with and including the cost of a plastic seat (PVC cover and buffers 3 galls. (13.6 liters) white glazed earthenware low level flushing cistern with siphon fittings, 1-1/2 inches (40mm) dia white porcelain enameled flush bend, 3/4 inch (20mm) dia, G.I. warning pipe carried outside and bent vertically downwards and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	9	Nos.	4,805	43,245
3	301-7	Providing and fixing Pakistani make flat back lipid front urinal basin (of not less than 17 inches or 430 mm in height) of white glazed earthenware complete with and including the cost of one gallon (4.5 liters) glazed earthenware automatic flushing cistern with fittings a pet cock brackets standard flush pipe with fittings, standard waste pipe (enameled iron) connection complete and making requisite number of holes in walls plinth and floor for pipe connections and making good in cement concrete 1:2:4	3	Nos.	2,804	8,412
4	301-8 & 10 & 14	Providing and fixing 25 inches x 18 inches (635 mm x 457 mm) lavatory basin in white glazed earthenware (Pakistani) complete with and including the cost of Brass oxidized bolts kit built into wall 1/2 inch (15 mm) dia. Chrome plated mixer 1-1/4" inches (32mm) rubber plug and chrome plated brass chain, 1-1/4 inches (32 mm) dia brass waste of approved pattern, 1-1/4 inches (32 mm) dia, Malleable iron or C.P. brass traps malleable iron or brass unions and making requisite number of holes in walls plinth and floor for pipe connections and making good in cement concrete 1:2:4 Extra over item No. 8 and 9 (Wasg basin) for providing and fixing best available (Pakistani make) white glazed earthenware pedestal. Extra over item No.8 and 9 for providing single hole chromium plated mixer tap 1/2 inch (15 mm) dia (English or approved foreign make)	15	Nos.	7,225	108,375
Continued..						



Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
		<u>PLUMBING FIXTURES (Cont....)</u>				
5	301-13	Providing and fixing Shower tray made of fiber glass of any color and design 31 inches x 31 inches (787 mm x 787 mm).	11	Nos.	2,394	26,334
6	301-20	Providing and fixing standing wall shower of CP brass 3 knobs of approved quality mixer unit and moveable shower head complete..	11	Nos.	4,590	50,490
7	301-21	Providing and fixing approved quality stainless steel sink 60" x 20" Pak made (Atlas) complete with brass oxidized bolt kit/angle iron brackets built into walls ½" dia CP sink mixer 1-1/4" rubber plug and CP brass chain 1-1/4" CP brass waste 1-1/4" dia malleable iron or CP brass bottle trap with malleable iron or brass unions and making requisite number of holes in walls, plinth and floor for pipe connections and making good in cement concrete 1:2:4	4	Nos.	18,677	74,708
8	302-6	Providing and fixing 20 inches x 16 inches (508 mm x 406 mm) Looking mirror of Belgium glass complete with Plastic frame and C.P. Brass screws.	8	Nos.	923	7,384
9	302-9	Providing and fixing bath room accessories of set of 6 pieces consist of one shelf, one towel rod with bracket, one soap dish, one tooth brush holder with glass and cover, one tissue paper holder one double hook one towel ring etc. complete of approved quality as per direction of Engineer in-charge.	8	Nos.	12,757	102,056
10	302-13	Providing and fixing chrome plated Muslim bib-cock without Muslim shower of approved quality	11	Nos.	721	7,931
						
		CARRIED TO SUMMARY				446,060

Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1	315-3	<p>SANITARY SEWAGE:</p> <p>Manholes and Gully traps Providing manhole Type 'B' size 3'-0" x 2'-6" or 914mm x 762mm x 4ft (1.22mm) deep as per approved design and specifications complete for 4" to 12" diameter pipe, 4 ft. to 7'-5" Depth with cast iron cover and frame weights 1 Cwt, 3 Qtrs or 88.9 kg, in 6" thick RCC 1:2:4 slab 8" thick, c.c. 1:3:6 block masonry walls set in 1:3 c.m. 6" inch thick, 1:3:6, c.c. in foundation 1:2:4 c.c. in benching, 1/2" thick cement plaster in 1:4 c.m. to all inside wall surfaces, channels and benching etc. and top including providing and fixing cast iron foot rest at every foot of depth and making requisite number of main and branch channels complete but excluding that cost of excavation, backfilling, disposal of excavated stuff, manhole cover and frame.</p>	11	Nos.	17,442	191,862
						
CARRIED TO SUMMARY						191,862

Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
B NON-SCHEDULE ITEMS						
WATER SUPPLY:						
Cold and Hot Water Supply Piping						
1	Non-Sch	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 as indicated on the drawing, as per specifications and Engineers				
i		¾" dia	440	Rft	110	48400 ✓
ii		1" dia	160	Rft	240	38400 ✓
iii		1½" dia	220	Rft	256	56320 ✓
iv		1¾" dia	70	Rft	410	28700 ✓
v		2" dia	140	Rft	800	112000 ✓
vi		2½" dia	90	Rft	950	85500 ✓
vii		3" dia	0	Rft	-	
viii		4" dia	0	Rft	-	
Valves						
2	Non-Sch	Providing and fixing of PPR Coated, brass Gate valves (of same material as piping) as indicated on the drawing, as per specifications and Engineers approval.				
i		¾" dia	0	Nos.	-	
ii		1" dia	1	Nos.	2500	2500 ✓
iii		1½" dia	4	Nos.	3000	12000 ✓
iv		1¾" dia	3	Nos.	3000	9000 ✓
v		2" dia	2	Nos.	4000	8000 ✓
vi		2½" dia	2	Nos.	5000	10000 ✓
vii		3" dia	0	Nos.	-	
viii		4" dia	0	Nos.	-	
Water Tanks and Connection						
3	Non-Sch	Connection for water tank including with valves, supports, excavation and Backfill, complete all in accordance with the drawing and specifications.	1	Item	42000	42000 ✓
4	Non-Sch	2 1/2" Connection to RCC water tanks	1	Nos.	10000	10000 ✓
5	Non-Sch	Connection to overhead water tanks using Float switch	1	Nos.	42000	42000 ✓
6	Non-Sch	Cast Iron Medium Duty Cover For RCC water tanks	2	Nos.	3000	6000 ✓
Continued..						512700



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Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
		WATER SUPPLY (Cont....)				
		Plumbing Specialties:				
7	Non-Sch	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" Air Relief Valve	1	Nos.	15000	15000 ✓
ii		1 1/2" dia foot valve	1	Nos.	2500	2500 ✓
iii		2 1/2" Y-type Strainer	2	Nos.	5500	11000 ✓
iv		2 1/2" Flexible Connector	4	Nos.	7900	31600 ✓
8	Non-Sch	Pumps				
	Non-Sch	Supply and installation of below mentioned Transfer Pump Set including pump foundation, control panel, automatic float switch, wiring, valves, piping, accessories, etc., as indicated on the drawing, as per specifications and Engineers approval.				
i		Transfer Pump (1 duty+1 standby) Flow = 100GPM @ 40ft. head	1	set	400000	400000 ✓
ii		Booster Pump (1 duty, 1 standby) Flow = 40GPM @ 55ft. head	1	set	400000	400000 ✓
9	Non-Sch	Water Filter				
		Supply and installation of 3 stage UV Water filter having minimum flow rate of 0.5 gpm including valves, piping, accessories, etc., as indicated on the drawing, as per specifications and Engineers approval.	2	Nos.	15000	30000 ✓
10		Water Cooler				
		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 ² (142 p.s.i.) with recommended maximum working pressure of 3kg/cm ² (42 p.s.i.) including all accessories like Valves, interconnecting piping, Drain tray and drain connections as indicated in the drawings, as per specifications and engineers approval.				
		WC-01 to 02 (65 GPH)	2	Nos.	35000	70000 ✓
CARRIED TO SUMMARY			Total			1472800



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Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
11	Non-Sch	SANITARY SEWAGE:				
		Soil, Waste, Vent and Rainwater Pipes				
		Providing and fixing, uPVC pipes and fittings as per BS EN 1329 for above ground installations for Soil, Waste, Vent & R/w pipes 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.	1200	144000 ✓
		(ii) 3" dia	470	Rft.	1770	831900 ✓
		(iii) 4" dia	120	Rft.	2574	308880 ✓
		Providing and fixing, uPVC pipes and fittings as per BS EN 1401 for below ground installations for Soil pipes including excavation, backfill, fittings (bend, tees, Y-tee etc.) as indicated on the drawing, as per specifications and Engineers approval.				
		(iv) 6" dia	380	Rft.	2600	988000 ✓
12	Non-Sch	Drainage Specialties				
		Providing and fixing, PVC floor trap with multiple dia inlet and cleanout plug of the approved self cleaning design with S.Steel grating, as indicated on the drawing, as per specifications and Engineers approval.	34	Nos	560	19040 ✓
13	Non-Sch	Providing and fixing UPVC cowl for vent pipe of the following dia including all accessories complete in all respects.				
		(i) 3" dia	7	Nos	520	3640 ✓
		(ii) 4" dia	0	Nos	-	
		(iii) 6" dia	0	Nos	-	
14	Non-Sch	Providing and fixing, PVC Roof Drains as per specifications and Engineers approval.	4	Nos	15400	61600 ✓
						
Continued..						2357060

Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
		SANITARY SEWAGE (Cont....)				
15	Non-Sch	Gully traps Construction of 18" x 18" Cement Concrete gully trap with 12"x 12" manhole cover as specified and shown on the drawing, as per specifications and Engineers approval.	9	Nos.	20000	180000 ✓
16	Non-Sch	External Connection Connection to external Sewage network, after obtaining approval from local authorities including the cost of excavation, Piping as specified and shown on the drawing, as per specifications and Engineers approval.	1	Job.	300 000	300 000 ✓
						
CARRIED TO SUMMARY			Total			283706 ✓

Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		FIRE FIGHTING 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	Non-Sch	5 Kg CO2 wall mounted fire extinguisher	11	Nos.	5489	60379 ✓
ii	Non-Sch	6 Kg Dry powder wall mounted fire extinguisher	11	Nos.	2600	28600 ✓
iii	Non-Sch	12 Kg Automatic Dry Powder Fire extinguisher.	0	Nos.		
2		Fire Piping Supply, installation, testing and Commissioning of Seamless black steel SCH. 40 pipe as per ASTM A53 grade B with UL/FM Heavy Duty welded fittings, UL/FM Galvanized Supports and hangers, supports, painting and coding fire protection system of following sizes.				
i		3" dia	400	Rft	3266	1306400 ✓
ii		1 1/4" dia	110	Rft	2449	269390 ✓
3		Fire Valves Supply, installation, testing and Commissioning of UL/FM O.S and Y Ductile Iron Gate Valves with post indicator of Class 300 (UL) with EPDM Seal as per ASTM A536 Grooved or flanged type as required as per drawings, specifications and Engineers Recommendation.				
i		3" dia	1	Nos	12000	12000 ✓
4		Fire Hose Reel and Cabinet Supply, installation, testing and Commissioning of Dual compartment Stainless Steel Fire Hose cabinet (Exposed or recessed type) comprising of below mentioned items with S.Steel lock and handle, as per drawings, specifications and Engineers Recommendation. 1" diameter, 30m high pressure rubber hose reel tested on 30 bar with PRV (Pressure Reducing valve), Gate Valve and inlet lock shield control valve and Adjustable plastic Nozzle for Jet, spray and Shut off. 2 1/2" , 100 ft Long lay flat hose Rack + Multi Jet nozzle 2 1/2" diameter Landing valve Dia UL/FM Approved 6 kg Co2 Extinguisher 5 KG ABC type Dry powder Extinguisher				
			6	Nos	65000	390000 ✓
Sub Total for Non Schedule Items			Total			2066769 ✓



Item No.	PWD Schedule 2012	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1		GAS WORKS Gas Piping Supply, installation, testing and Commissioning of G.I Medium Pipes (hot Dipped) with high quality fittings as per BS EN 10255, conforming to Local Gas Company standards including all fitting, valve, flanges, reducers, tees, sockets, bends, clamps, support, cutting and fittings complete with testing and as per drawings, specifications and requirements of local gas company. 1/2" dia	160	Rft	150	24000 ✓
2		Gas Valves Supply, installation, testing and Commissioning of Isolation/Gate valves for Gas piping as indicated on the drawing, as per specifications and Engineers approval. 1/2" dia	2	Nos	2500	5000 ✓
3		CONNECTIONS Supply, installation, Testing & Commissioning of Gas Meter Assembly as indicated on the drawing, as per specifications and Engineer's approval.	1	Nos	15000	15000 ✓
Sub Total for Non Schedule Items			Total			44000



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LOT-5A



S.No	Description	Amount (Rs.)
1	GRADING WORKS	8990628 8,990,629
2	ROAD WORKS	136817125
TOTAL COST OF LOT-5A		22,672,341 22672340

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22,672,341
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GRADING WORKS




S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
1	Grading Works	7,684,298.00
Total of Schedule Items - A Add <u>17%</u> Premium on Civil Works of PWD-2012		7,684,298 1,306,330
		8,990,628
B	NON-SCHEDULE ITEMS	
1	Grading Works	8,990,629
TOTAL AMOUNT OF GRADING WORKS		8,990,628 8,990,629

S. T. Akbar



8,990,629

ABSTRACT COST OF GRADING SIMU

SR. #	Description	Unit	Quantities	Rate	Amount (Rs)
	SCHEDULE ITEMS				
1	Clearing jungle (ordinary) by cutting, removing all shrubs, trees, upto 6 inches (152 mm) girth, etc. and taking out their entire roots and filling the hollows with earth complete with dressing, consolidating and watering the filling including stacking the serviceable materials and disposal of useless material as directed, (Including all lead & Lift) , cost of earth included. (PWD) 102, Sr. 1)	Sft	80,366	0.43	34,557
2	SUITABLE CUT Cutting to a required gradient in all kinds of soil (except rock murum and gravelly soil) and filling and excavated stuff in 6 inches (152 mm) layers in depression, where required or disposing the same complete with levelling, dressing and watering the filling and consolidation etc. as required, (Including all lead & Lift) . (PWD) 102, Sr. 6)	Cft	287,686	10.99	3,161,669
3	SUITABLE CUT Cutting to a required gradient in soft, or disintegrated rock by hammering and chiseling and jumper work including sorting out and stacking serviceable and unserviceable materials separately, complete with levelling and dressing as required, or disposing the same complete (Including all lead & Lift) (PWD) 102, Sr. 10)	Cft	191,791	19.68	3,774,447
4	Making earthen embankments with earth taken from approved borrow pits including cost of excavation, placing earth in layers not exceeding 9" (229 mm) depth as per approved section including dressing top and sides of the bank within in all kinds of soil (except gravelly, murum, wet silt, clay or mud and rock) Including Compaction by mechanical means at OMC, AASHTO max dry density 90% and all lead & Lift. (PWD) 127, Sr. 10)	Cft	59,026	12.09	713,624
					
GRADING BILL (SCHEDULE ITEM)					7,684,298

ROAD WORKS



S. NO.	DESCRIPTION	TOTAL AMOUNT IN PAK RUPEES
A	SCHEDULE ITEMS	
1	EARTH WORK	11,307,200.00
	Total of Schedule Items - A	11,307,200
	Add <u>21</u> % Premium on Civil Works of PWD-2012	2,374,512
		13,681,712
B	NON-SCHEDULE ITEMS	
1	EARTH WORK	
	TOTAL AMOUNT (A+B) FOR 1 No.	13,681,712

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S.No.	Item # PWD / NHA Specifications	Description	Unit	Estimated Quantities	PWD Rate (Rs.)	Amount (Rs)
1	2	3	4	5	6	7 = (5x6)
		BILL NO : 1 EARTH WORKS SCHEDULE ITEMS				
1	(PWD) 102, Sr. 1)	Clearing jungle (ordinary) by cutting, removing all shrubs, trees, upto 6 inches (152 mm) girth, etc. and taking out their entire roots and filling the hollows with earth complete with dressing, consolidating and watering the filling including stacking the serviceable materials and disposal of useless material as directed, lead to 10 chains (305 Rm), cost of earth included	Sft	455,004	0.43	195,652
2	(PWD) 127, Sr. 1)	SUITABLE CUT Excavation or cutting in all kinds of soil (except gravelly, murem, wet silt, clay or mud and rock) to a required grade, camber and side slopes including dressing top and sides. To Be Used in Refill for Embankment	Cft	142,450	4.36	621,082
3	(PWD) 127, Sr. 5)	SUITABLE CUT Excavation or cutting in soft rock by hammering, chiselling and pick and jumper work including sorting and stacking the excavated stuff complete. To Use in Refill for Embankment	Cft	61,050	14.83	905,372
4	(PWD) 127, Sr. 9)	Extra if excavated earth is required to be filled in road embankment by placing it in layers not exceeding 9" (229 mm) in depth as per approved section including dressing top and sides of the bank (including all Lead & Lift).	Cft	203,500	2.03	413,105
5	(PWD) 127, Sr. 10)	Making earthen embankments with earth taken from approved borrow pits including cost of excavation, placing earth in layers not exceeding 9" (229 m) depth as per approved section including dressing top and sides of the bank in all kinds of soil (except gravelly, murem, wet silt, clay or mud and rock). (including all Lead & Lift)	Cft	501,500	12.09	6,043,135
6	(PWD) 127, Sr. 18)	Compaction of earthen embankments to full depth and width below sub-grade level by approved mechanical means in layers not exceeding 9" (229 mm) in depth at optimum moisture content including watering, mixing by mechanical means complete (the sub-grade embankment of 3 ft. (914 mm) or less in height shall be compacted to at least 95% modified A.A.S.H.O. max. dry density or their full depth and width, embankments over 3 ft. (914 mm) in depth shall have top 3 ft. (914 mm) compacted to not less than 95% modified A.A.S.H.O. maximum dry density to their full depth and width and portion below 3 ft. (914 mm) compacted not less than 85% modified A.A.S.H.O. max. dry density to their full depth and width)	Cft	705,000	3.01	2,122,050
7	(PWD) 127, Sr. 20)	Preparation of sub-grade over bottom of excavation with required dressing to required grade, camber and side slopes including cutting to required depth and , breaking clods watering and consolidation with suitable mechanical means to attain minimum density of 95% modified A.A.S.H.O. maximum dry density for top 6" (152mm) layers including disposal of surplus earth within 3 chains (92 m) lead complete.	Cft	145,332	6.79	986,804
		BILL NO. 01 EARTH WORKS				11,307,200

