

# ESTABLISHMENT OF UNIVERSITY OF BALTISTAN, SKARDU



## VOLUME III BILL OF QUANTITIES (APPENDIX –D TO BID) CIVIL (STRUCTURE AND ARCHITECTURE) TENDER

SEPTEMBER, 2019



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## BILL OF QUANTITIES

## GRAND SUMMARY

S.NO	Description	Amount			
		Type-1 (Pre-Cast B.wall)	Type-2 (Chain Link Fence)	Type-3 (with Rcc structure & Masonry wall)	Type-4 (Angle Iron post with barbed wire)
<b>A-SCHEDULE ITEMS</b>					
1	CIVIL WORKS				
	i) Structural works	1,321,661	674,479	4,210,417	1,793,250
	ii) Architectural works			1,675,258	
	Total of Schedule Item (A)	1,321,661	674,479	5,885,675	1,793,250
	_____ % Above/below on Civil Works of PWD-2012				
	Total of Schedule Item including Premium				
<b>B-NON SCHEDULE ITEMS</b>					
	CIVIL WORKS				
	i) Structural works				
	ii) Architectural works				
	Total of Non Schedule Item (B)				
	Total Cost of project (A+B) >>>>>				

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	PWD Schedule Rate	Amount
			1	2	3	4=1 x 3
<b>A-SCHEDULE ITEMS</b>						
1	Code -103,  Item # 2	<b>EARTH WORKS</b> <b>EXCAVATION</b> Excavation for foundation trenches and drains in gravelly soil and back filling the excavated material in foundation trenches plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, dressing and disposal of surplus excavated stuff as directed lead 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"	7,675	100 Cft	613.14	47,058
2	Code -103,  Item # 2	Excavation for foundation trenches and drains in hard rock by blasting where pick and jumper work is not possible including stacking of serviceable and unserviceable materials separately, 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"	7,675	100 Cft	2,104.36	161,510
3	Code -106	<b>SUB STRUCTURE</b> <b>CONCRETE WORKS</b> 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.				
4	Item # 11  Code -114  Item # 1+134+137	Below foundation, plinth beam, situ, walls, tanks, over stone soling or where required (Cylindrical 1000 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 3750 lbs. per sq. inch (23.24 N/mm <sup>2</sup> at 28 days) with a mix not leaner than 1:1-1/2:3 in columns footing of required shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. Foundation for any type including pedestal (Cylindrical Strength 3000 Psi)	1,724  5,462	100 Cft  100 Cft	14,411.43  21,685.85	248,453  1,184,481

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	PWD Schedule Rate	Amount
			1	2	3	4=1 x 3
5	Code -114 Item # 166	<b>REINFORCED CONCRETE WORKS</b> Providing and laying hard grade ribbed deformed (minimum yield point 60,000 psi or 414 Mpa) reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>	7,804	Kg	123.02	960,048
6	Code -119 Item # 38	Providing M. S. tees, angles and flats including fixing in position etc. complete in ground floor. etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	3,902	Kg	104.85	409,125
7	Code -124 Item # 17	Providing and fixing galvanized iron barbed wire fencing (with four points) to the posts of any description complete with hooks and binding wire etc.- if required (cost of posts not included).etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	5,571	Kg	157.39	876,819
8	Code -122 Item # 158	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.	1,312	100 Sft	2,722.37	35,717
<b>TOTAL NON SCHEDULE ITEMS (A) &gt;&gt;&gt;&gt;&gt;</b>						<b>1,321,661.00</b>
<b>B-NON SCHEDULE ITEMS</b>						
9	NSI	<b>BOUNDARY WALL WITH PRE-CAST PRESTRESSED COLUMN &amp; PLANKS.</b> Providing & installation of pre-cast boundary wall with 6" x 6-1/2" pre-stressed columns & 8'-3" x 1'-0"x 2" thick planks including all leads & lift <b>(excluding all foundation work which are covered above Sr # 1 to 5)</b> as per drawing & manufacturer specification etc. complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	3,902	Rft		
<b>TOTAL NON SCHEDULE ITEMS (B) &gt;&gt;&gt;&gt;&gt;</b>						
<b>TOTAL CARRIED TO GRAND SUMMARY TOTAL (A+B) &gt;&gt;&gt;&gt;&gt;</b>						<b>1,321,661.00</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	PWD Schedule Rate	Amount
			1	2	3	4=1 x 3
<b>A-SCHEDULE ITEMS</b>						
		<b>EARTH WORKS</b>				
		<b>EXCAVATION</b>				
1	Code -103,	Excavation for foundation trenches and drains in gravelly soil and back filling the excavated material in foundation trenches plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, dressing and disposal of surplus excavated stuff as directed lead 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"	1,050	100 Cft	613.14	6,438
2	Code -103,	Excavation for foundation trenches and drains in hard rock by blasting where pick and jumper work is not possible including stacking of serviceable and unserviceable materials separately, 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"	1,050	100 Cft	2,104.36	22,096
		<b>SUB STRUCTURE</b>				
		<b>CONCRETE WORKS</b>				
3	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 foundation, plinth beam, situ, walls, tanks, over stone soling or where required (Cylindrical 1000 Psi)	210	100 Cft	14,411.43	30,264
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 3750 lbs. per sq. inch (23.24 N/mm <sup>2</sup> at 28 days) with a mix not leaner than 1:1-1/2:3 in columns footing of required shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 1+134+137	Foundation for any type (Cylindrical Strength 3000 Psi)	1,050	100 Cft	21,685.85	227,701

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	PWD Schedule Rate	Amount
			1	2	3	4=1 x 3
5	Code -114 Item # 166	<b>REINFORCED CONCRETE WORKS</b> Providing and laying hard grade ribbed deformed (minimum yield point 60,000 psi or 414 Mpa) reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>	1,500	Kg	123.02	184,530
6	Code -119 Item # 38	Providing M. S. tees, angles and flats including fixing in position etc. complete in ground floor. etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	600	Kg	104.85	62,910
7	Code -124 Item # 17	Providing and fixing galvanized iron barbed wire fencing (with four points) to the posts of any description complete with hooks and binding wire etc.- if required (cost of posts not included).etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	858	Kg	157.39	135,041
8	Code -122 Item # 158	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.	202	100 Sft	2,722.37	5,499
<b>TOTAL SCHEDULE ITEMS (A) &gt;&gt;&gt;&gt;&gt;</b>						<b>674,479.00</b>
<b>B-NON SCHEDULE ITEMS</b>						
9	NSI	Providing & fixing galvanized iron chain link fence 2.4 M high ,consisting of G.I pipe post 48mm outer dia (Medium grade/wall thickness not less than 3.2mm) @ 3m (10 Rft) C/C, G.I wire chain link (individual spiral wires that are woven together) 50mm x 50mm mesh x 3.25mm dia Hot dip Galvanized, intermediate/cross braising with 4 Rows of tension wire, including fixing with 100mmx100mmx 3mm thick MS. Base plate, 4 Nos of galvanized Rawl Bolts 4" Long, Bracing Post 50mm O/D with M. S. Cleat welded on it for fixing the stretcher bar 30mm x 5mmx 2.4M long, tension wire with wire strainer. Every 10th post will be Bracing post , G.I. Chainink to be tied with tension wire 2mm dia G.I. Wire at 300 mm c/c., Chain link to be tied with G.I.Pipe Post with 2.6mm dia G.I.Wire at 200mm distance. and where required hard ware, all welded portion to painted with anti-corrosion galvanized paint as shown in the drawings, cutting, welding, cleaning etc, complete in all respects as per drawings, specifications and approval of the Engineer.	600	Rft		
<b>TOTAL NON SCHEDULE ITEMS (B) &gt;&gt;&gt;&gt;&gt;</b>						
<b>TOTAL CARRIED TO GRAND SUMMARY TOTAL (A+B) &gt;&gt;&gt;&gt;&gt;</b>						<b>674,479</b>

## BILL OF QUANTITIES

S.No	PWD SCHED. 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	PWD Schedule Rate	Amount
			1	2	3	4 = 1 x 3
<b>A-SCHEDULE ITEMS</b>						
1		<b><u>EARTH WORKS</u></b>				
		<b><u>EXCAVATION</u></b>				
1.1	Code -103,	Excavation for foundation trenches and drains in <b>gravelly</b> soil and back filling the excavated material in foundation trenches plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, dressing and disposal of surplus excavated stuff as directed lead 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"	15,640	100 Cft	613.14	95,895
	Item # 2+28	From -5' - 0" to -8' - 0"	-	100 Cft	690.49	-
1.2	Code -103,	Excavation for foundation trenches and drains in hard rock by blasting where pick and jumper work is not possible including stacking of serviceable and unserviceable materials separately, 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 # 9	From ± 0'-0" to -5' - 0"	2,760	100 Cft	2,104.36	58,080
	Item # 9+29	From -5' - 0" to -8' - 0"	-	100 Cft	2,201.05	-
1.3	Code -102 Item #14	Supplying and filling approved quality imported earth in depressions within a radius of 5 miles (8 km) under floors/foundations & where required etc. including breaking clods, leveling, dressing, watering and consolidating in 6 inches (152 mm) layers etc. complete, including all lifts etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
			-	100 Cft	2,314.41	-
1.4	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.				
			-	100 Cft	3,251.34	-

## BILL OF QUANTITIES

S.No	PWD SCHED. 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	PWD Schedule Rate	Amount
			1	2	3	4 = 1 x 3
<b>2</b>		<b><u>SUB STRUCTURE</u></b>				
		<b>CONCRETE WORKS</b>				
2.1	Code -106	Providing and laying in situ <b>1:4:8</b> (1 cement 4 sand and 8 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
2.2	Item # 11 Code -106	Below foundation, plinth beam, situ, walls, tanks, over stone soling or where required <b>(Cylindrical 1000 Psi)</b> Providing and laying in situ <b>1:3:6</b> (1 cement 3 sand and 6 coarse aggregate) cement concrete using crushed graded boulders 3/4" inch (19 mm) and down gauge in foundation, basement and plinth including form work, compacting, curing and removal of form work, etc. complete, foundation and basement up to 5 feet (1.52 m) depth and plinth up to 4 feet (1.2 m) height from ground level etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	1,723	100 Cft	14,411.43	248,309
2.3	Item # 12 Code -114	For Cast in situ / mass concrete or where required <b>(Cylindrical 1500 Psi)</b> <b>REINFORCED CONCRETE WORKS</b> Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch</b> (23.24 N/mm <sup>2</sup> at 28 days) with a mix not leaner than <b>1:1-1/2:3</b> in columns footing of required shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	66	100 Cft	15,840.97	10,455
	Item # 1+134+137	Foundation for any type <b>(Cylindrical Strength 3000 Psi)</b>	2,518	100 Cft	21,685.85	546,050



## BILL OF QUANTITIES

S.No	PWD SCHED. 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	PWD Schedule Rate	Amount
			1	2	3	4 = 1 x 3
2.4	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch</b> (23.24 N/mm <sup>2</sup> at 28 days) with a mix not leaner than <b>1:1-1/2:3</b> in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in foundation basement and plinth. etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 4+134+137	Columns up to plinth <b>(Cylindrical Strength 3000 Psi)</b>	483	100 Cft	22,934.55	110,774
2.5	Code -114	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch</b> (23.24 N /mm <sup>2</sup> at 28 days) with a mix not leaner than <b>1:1-1/2:3</b> in plinth beams of required shape and design including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 8+134+137	Plinth Beams i/c nibs / projections /platform <b>(Cylindrical Strength 3000 Psi)</b>	1,106	100 Cft	22,343.90	247,124
2.6	Code -114 Item # 166	Providing and laying hard grade ribbed deformed <b>(minimum yield point 60,000 psi or 414 Mpa)</b> reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>				
			11,035	Kg	123.02	1,357,526
2.7	Code -108 Item # 12	Providing a coat of <b>bitumen emulsion at 10 Lbs. per % sft. (0.49 Kg/sqm)</b> on walls and floor in ground floor & where require etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
			10,140	100 Sft	648.08	65,715

## BILL OF QUANTITIES

S.No	PWD SCHED. 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	PWD Schedule Rate	Amount
			1	2	3	4 = 1 x 3
<b>3</b>		<b><u>SUPER STRUCTURE</u></b>				
		<b>REINFORCED CONCRETE WORKS</b>				
3.1	Code -114 Item # 24+134+137	Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch</b> (23.24 N/mm <sup>2</sup> at 28 days) with a mix not leaner than <b>1:1-1/2:3</b> in columns of square or rectangular shape of regular section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in the ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
3.2	Code -114 Item # 38+134+137	Columns <b>(Cylindrical Strength 3000 Psi)</b> Providing and laying reinforced cement concrete with using crushed graded boulders 3/4" inch (19 mm) and down gauge having a minimum works cube crushing strength of <b>3750 lbs. per sq. inch</b> (23.24 N /mm <sup>2</sup> at 28 days) with a mix not leaner than <b>1:1-1/2:3</b> in straight beams lintels cantilever beams of required shape or section including form work and its removal, compacting and curing etc. but excluding the cost of reinforcement, in basement and ground floor etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	954	100 Cft	26,619.41	253,949
3.3	Code -114 Item # 166	Beams /Arches/ purdi / bracing / lintels / nibs / sills / coping /Pad / parapet wall /bands/around opening and projections <b>(Cylindrical Strength 3000 Psi)</b> Providing and laying hard grade ribbed deformed <b>(minimum yield point 60,000 psi or 414 Mpa)</b> reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>	738	100 Cft	24,839.57	183,316
			7,290	Kg	123.02	896,816

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S.No	PWD SCHED. 2012 Ref.No	Description	Qty	Unit (Sch. Rate)	PWD Schedule Rate	Amount
			1	2	3	4 = 1 x 3
3.4	Code -119 Item # 38	Providing M. S. tees, angles and flats including fixing in position etc. complete in ground floor. etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	937	Kg	104.85	98,244
3.5	Code -124 Item # 17	Providing and fixing galvanized iron barbed wire fencing (with four points) to the posts of any description complete with hooks and binding wire etc.- if required (cost of posts not included).etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	188	Kg	157.39	29,589
3.6	Code -122 Item # 158	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.	315	100 Sft	2,722.37	8,575
<b>TOTAL CARRIED TO GRAND SUMMARY (A) &gt;&gt;&gt;&gt;&gt;</b>						<b>4,210,417</b>

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	PWD Schedule Rate	Amount
			1	2	3	4=1 x 3
<b>A-SCHEDULE ITEMS</b>						
<b>DPC &amp; MASONRY WORKS</b>						
1	Item # 3 Code -108 Page # 47	<b>Damp Proof Course (DPC)</b> Providing and laying 2 inches (51 mm) thick damp proof course with cement concrete 1:2:4 cast in situ using graded 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	861	100 Sft	2,659.79	22,900.79
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.	23	Kg	86.10	1,980.30
3	Code-110 Item # 44+92+100 Page # 77, 81, 82	Providing and laying 1:3:6 machine made standard size 6"x8"x12" cement concrete solid block <b>4 to 6 inches</b> (102mm to 152 mm) thick using graded 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.	2,250	100 Cft	15,933.28	358,498.80
4	Code-122	3/4" (19 mm) thick cement plaster (Plain) 1:4 on walls and columns etc. in basement, plinth, mezzanine and ground floor including making edges, corners, <b>grooves</b> as specified and curing etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.				
	Item # 8+37 Page # 322	Ground Floor	25,383	100 Sft	3,100.23	786,931.38
5	Code-122 Item # 172 Page # 334	Painting three coats with weather shield paint deluxe (ICI) make of approved shade on plaster surface (External) and including the cost of cleaning the surface, sand papering etc. complete at any height in any floor etc., complete in all respects as per specifications & relevant drawings and all works to the satisfaction of the Engineer.	25,383	100 Sft	1,406.88	357,108.35
6	Code-119 Item # 38, page # 240	Providing M. S. tees, angles and flats including fixing in position etc. complete in ground floor.	1,410	Kg	104.85	147,838.50
<b>TOTAL CARRIED TO GRAND SUMMARY (A) &gt;&gt;&gt;&gt;&gt;</b>						<b>1,675,258.12</b>

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S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	PWD Schedule Rate	Amount
			1	2	3	4=1 x 3
<b>A-SCHEDULE ITEMS</b>						
		<b>EARTH WORKS</b>				
		<b>EXCAVATION</b>				
1	Code -103,	Excavation for foundation trenches and drains in gravelly soil and back filling the excavated material in foundation trenches plinth or under floor including breaking clods, watering, consolidation by ramming in layers not exceeding 9 inches (229 mm) in depth to full compaction, dressing and disposal of surplus excavated stuff as directed lead 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"	1,752	100 Cft	613.14	10,742
2	Code -103,	Excavation for foundation trenches and drains in hard rock by blasting where pick and jumper work is not possible including stacking of serviceable and unserviceable materials separately, 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"	1,752	100 Cft	2,104.36	36,868
		<b>SUB STRUCTURE</b>				
		<b>CONCRETE WORKS</b>				
3	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 foundation, plinth beam, situ, walls, tanks, over stone soling or where required (Cylindrical 1000 Psi)	-	100 Cft	14,411.43	-
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 3750 lbs. per sq. inch (23.24 N/mm <sup>2</sup> at 28 days) with a mix not leaner than 1:1-1/2:3 in columns footing of required shape including form work and its removal, compacting, leveling and curing etc. complete but excluding the cost of reinforcement, in foundation basement and plinth etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.				
	Item # 1+134+137	Foundation for any type (Cylindrical Strength 3000 Psi)	2,603	100 Cft	21,685.85	564,483

## BILL OF QUANTITIES

S.No	PWD Schedule 2012 Ref.No	Description	Qty	Unit	PWD Schedule Rate	Amount
			1	2	3	4=1 x 3
5	Code -114 Item # 166	<b>REINFORCED CONCRETE WORKS</b> Providing and laying hard grade ribbed deformed (minimum yield point 60,000 psi or 414 Mpa) reinforcement bars with & including the cost of straightening, cutting, bending, binding, wastage, and such overlaps as are not shown in the drawings, placing in position on cement concrete 1:2:4 precast or Ms. chairs, tying with binding wire, cost of chairs and wires etc. in all kinds of RCC work in foundation, basement, plinth and ground floor of building including septic tanks and under ground tanks and in projections for future extension.etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer. <b>(Bars to be cut and placed in position at any level according to the Bar bending schedule prepared by the contractor and approved by the Engineer).</b>	-	Kg	123.02	-
6	Code -119 Item # 38	Providing M. S. tees, angles and flats including fixing in position etc. complete in ground floor. etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	7,931	Kg	104.85	831,570
7	Code -124 Item # 17	Providing and fixing galvanized iron barbed wire fencing (with four points) to the posts of any description complete with hooks and binding wire etc.- if required (cost of posts not included).etc. complete in all respects as per drawing, standard , specifications and as directed by the Engineer.	1,602	Kg	157.39	252,101
8	Code -122 Item # 158	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.	3,581	100 Sft	2,722.37	97,486
<b>TOTAL SCHEDULE ITEMS (A) &gt;&gt;&gt;&gt;&gt;</b>						<b>1,793,250.00</b>