

## SCOPE OF WORK

### CONSTRUCTION OF LAVATORY BLOCK BESIDES PUMP ROOM

B.O.Q Item	Description	Unit	Quantity	Rate	Amount
	<b><u>SCHEDULE RATE ITEMS BASED ON CSR (SINDH) 2012</u></b>				
1	Excavation and Backfill				
	Excavation in foundation of building, bridges and other structures including dagbelling, dressing, refilling around structure with excavated earth watering and ramming lead upto 5 ft b) In ordinary soil Refer Item No. 18 Page no. 4 Chapter No. 1	%0 Cft	1,680.00	3,176.25	5,336
2	Lean Concrete				
	Cement concrete plain including placing, compacting, finishing and curing, complete including screening and washing of stone aggregate without shuttering. Refer Item No. 5(i) Pageno. 16, Chapter 4				
a	Ratio 1:4:8	%Cft	100.00	11,288.75	11,289
	Add Shuttering				
	Erection and removal of centering for RCC and Plain cement concrete works of Partial wood				
b	For Partial wood				
ii	Vertical	%Sft	100.00	1,270.50	1,271

Syed Akbar Hussain Kazmi  
Member - PC  
Manager Finance (Payable)  
IBA Karachi

**M.G. Construction**  
Proprietor

M. HARIQ QURESHI  
External Specialist - HE  
Procurement Specialist - HE  
University of Karachi

DR. SHAHID MIR  
Page 14 of 14 - PC  
Assistant Professor - Management  
IBA Karachi





3	<b>Termite Control Treatment</b>				
-	Providing Anti -termite treatment by spraying /sprinkling /spreading Neptachlar 0.5% Emulsion as an overall pre -construction treatment in slab type construction under the slab and along attached perches or entrances etc, complete as per directions of Engineer Incharge Item # 92, Page No. 109	P.Sft	1,372.00	9.74	13,363
4	<b>Structural Concrete</b>				
-	Roof slab and beams, Columns, rafts, lintels and other structural members laid in situ or precast laid in position complete in all respects  Refer Chapter 4 Page no. 16 Item No. 6(a)-(1) Ratio (1:2:4) 90 Lbs. cement 2 Cft sand 4 Cft Shingle 1/8" to 1/4" guage				
a	Footings/Foundations	Cft	200.00	337.00	67,400
b	Columns upto Plinth level	Cft	24.00	337.00	8,088
c	Plinth beams	Cft	190.48	337.00	64,192
d	Super structure Columns	Cft	81.00	337.00	27,297
e	Beams & Lintels	Cft	46.88	337.00	15,797
f	Slab and Projections	Cft	252.00	337.00	84,924
g	SITU wall upto Plinth	Cft	120.60	337.00	40,642
2	<b>Steel Reinforcement</b>				
-	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire  b) Using Tor bars Refer Item No. 8 (b) Page No. 17, Chapter 4 (1 Cwt = 0.056 ton)	Per Ton	2.50	89,316	223,290



Syed Akbar Hussain Kazmi  
Member - PC  
Manager Finance (Payable)  
IBA Karachi

M.G. Construction  
Proprietor

M. HANIS QURESHI  
External Member - PC  
Procurement Specialist - PC  
University of Karachi

Page 75

DR. SHAHID M. N. M.  
Chairman - PC  
Professor - Management  
IBA Karachi



5	<b>Sub-Flooring Base (1:3:6)</b>				
-	Cement concrete plain including placing, compacting, finishing and curing, complete including screening and washing of stone aggregate without shuttering. Refer Item No. 5(h) Page no. 16, Chapter 4	%Cft	372.00	12,595.00	46,853
6	<b>Block Masonry</b>				
-	Providing and laying 1 : 3 : 6 cement concrete solid block masonry wall 6" and below in thickness set in 1 : 6 cement sand mortar in ground floor superstructure including raking out joints and curing etc. complete.				
a	6" thick	%Cft	251.62	15,771.01	39,683
a	4" thick	%Cft	103.44	15,771.01	16,314
7	<b>Plaster</b>				
-	Refer Chapter No. 8 Page No. 52 Item No. 13				
a	Cement plaster 1:6 upto 12' upto 20 ft height. Refer Item No. 13 Page No. 47 b) 1/2" Thick	%Sft	557.50	2,206.60	12,302
b	Cement plaster 1:4 upto 12' height. Refer Item No. 11 Page No. 47 d) 3/4" Thick (Only for block masonry work)	%Sft	1,179.00	3,191.76	37,631
8	<b>Ceiling Distemper Paint</b>				
-	Distemping three coats on ceiling Refer Item No. 24 ( c ) Page no. 54	%Sft	340.00	1,079.65	3,671

Syed Akbar Hussain Khan  
Manager Finance - PC  
IBA Karachi



**M.G. Construction**  
Proprietor

M. HANFIS QURESHI  
External Member - PC  
Procurement Specialist - HEJ  
University of Karachi

Page 76

**DR. SHAHID MIR**  
Chairman - PC  
Assistant Professor - Management  
IBA Karachi

9	<b>Internal Paint</b>				
	Preparing the surface and painting with matt finish I/c rubbing the surface with Bathy (silicon carbide rubbing brick) filling the voids with zink /chalk / plaster of paris mixture, applying first coat premix, making the surface smooth and then painting 3 coats with matt finish of approved make etc: complete . Refer Item No. 36-A Page no. 55	%Sft	560.25	3,444.38	19,297
10	<b>External Paint</b>				
	Preparing the surface and painting with weather coat I/c rubbing the surface with rubbing brick / sand Paper, filling the voids with chalk/ plaster of Paris and then painting with weather coat of approved make. Refer Item No. 38-A & B Page No. 55	%Sft	1,179.00	2,567.95	30,276
11	<b>Porcelain Tiles Wall Dado</b>				
	Laying glazed tiles 1/4" thick dado of approved color & size jointing in white cement and laid over 1:2 cement sand mortar 3/4" thick including grouting with matching color and finishing. Refer Item No. 38 Page No. 45 Chapter No. 8	%Sft	980.31	28,299.30	277,421
12	<b>Porcelain Floor Tiles</b>				
	Laying floor of approved with glazed tiles 1/4" thick in white cement 1:2 over 3/4" thick cement mortar 1:2 complete Refer Item No. 24 Page No. 43 Chapter No. 8	%Sft	392.25	27,678.86	108,570



Syed Akbar Hussain Kazim  
Manager Finance (Payable)  
IBA Karachi

M.G. Construction  
Proprietor

M. HAFSO RASHIDI  
External Member - PC  
Procurement Specialist - HEJ  
University of Karachi

DR. SHAHID MIR  
Chairman - PC  
Assistant Professor - Management  
IBA Karachi



13	<b>Doors with Frame</b>				
	Providing and fixing in position doors, windows and ventilators of first class deodar wood frames, and 1-1/2" thick Teak wood ply shutters of first class deodar wood skeleton (Solid) styles and rails core of partial wood and Teak ply wood (3 ply) on both 54 sides including hold fasts, hinges, iron tower bolts, handles and cleats with cord etc, complete Refer Item No. 51 Page No. 51 Chapter No. 10				
a	D-1 (Size: 3'-0" x 7'-0")	Sft	21.00	1,245.96	26,165
b	D-2 (Size: 2'-6" x 7'-0")	Sft	87.50	1,245.96	109,022
c	D-3 (Size: 2'-0" x 7'-0")	Sft	14.00	1,245.96	17,443
14	<b>Aluminum Ventilators</b>				
	Supplying & fixing in position Aluminum channels framing for sliding windows & ventilators of made with 5 mm thick tinted glass glazing (Belgium) etc. Complete.				
	b) Deluxe model (Bronze)				
	Refer Item No. 84 Page No. 108 Chapter No. 18				
a	V-1 (Size: 1'-6" x 1'-0")	Sft	9.00	1,647.69	14,829
b	V-2 (Size: 3'-0" x 1'-6")	Sft	9.00	1,647.69	14,829
15	<b>Pre-cast rain water spouts</b>				
	Reinforced cement concrete spout including fixing in position with top and bottom khuras. Refer Item No. 27 Page No. 19 Chapter No. 4	Each	4.00	524.98	2,100

Syed Akbar Hussain Kazmi  
Manager Finance (payable)  
IBA Karachi



**M.G. Construction**  
Proprietor

M. MARIS CO. RESHI  
External Member - PC  
Procurement Specialist - HEJ  
University of Karachi

Page 78

**DR. SHAHID MIR**  
Chairman - PC  
Assistant Professor - Management  
IBA Karachi



16	<b>CC Pavers (Grey)</b>				
	Providing & fixing cement paving blocks flooring having size of 197 x 97 x 60 (mm) of city /quaddra / cobble shape with natural colours , having strength b/w 5000 PSI to 8500 PSI i/c filling the joints with hill sand and laying in specified manner/ pattern and design etc complete. Refer Item No. 71 Page No. 49 Chapter No. 8	Sft	2,613.00	199.77	521,999
17	<b>CC Pavers (Red)</b>				
	Providing & fixing cement paving blocks flooring having size of 197 x 97 x 60 (mm) of city /quaddra / cobble shape with pigmented, having strength b/w 5000 PSI to 8500 PSI i/c filling the joints with hill sand and laying in specified manner/ pattern and design etc complete. Refer Item No. 72 Page No. 49 Chapter No. 8	Sft	426.00	223.97	95,411
<b>TOTAL ESTIMATED AMOUNT OF SCHEDULED BASED ITEMS (CIVIL WORKS)</b>				PKR	1,956,705.34
<b>ADD PREMIUM</b>					880517.25
<b>A - TOTAL AMOUNT WITH PREMIUM OF SCHEDULED BASED ITEMS (CIVIL WORKS)</b>					2,837,222.7

M. HARIQ QURESHI  
External Member - PC  
Procurement Specialist - HEI  
University of Karachi

Syed Akbar Hussain Kazmi  
Member - PC  
Manager Finance (Payable)  
IBA Karachi



M.G. Construction  
Proprietor

DR. SHAHID MUR  
Chairman - PC  
Assistant Professor - Management  
IBA Karachi



	NON-SCHEDULE ITEMS	Unit	Quantity	Rate	Amount
1	Stone Soling				
	6" inch thick compacted stone soling under floor and plinth protection.	Sft	1,372.00	55	75,460/-
2	Basin Vanity Slab				
	Providing, making and fixing 3/4" thick marble slab vanity top including of the following 2" thick precast RCC slab with 1/2" thick plaster both sides, wash basin hole/ cutting, painting/ polishing complete in all respects as per drawings, specifications and/or as directed by the Engineer.	Sft	16.25	1150/-	18,687.5
3	Mirror at Wash Basin area				
	Provide and install in position mirror in toilet consisting of 6mm thick Belgium mirror, double polished front and rear of approved quality with 12mm thick commercial ply backing foxed with 30x6mm thick imported (European) SS Clip, fix on wall including wastage, fixing and accessories etc. complete in all respect as per drawing, specifications and as instructed by the engineer	Sft	17.50	980/-	17,150/-
4	Roof Screeding				
	Providing and laying 3" thick (avg) cement concrete screed of 1:2:4 ratio, using 3000 psi concrete, laid in panels at any floor or height, including form work, vibrating, curing etc. Complete in all respects and conforming to the requirements of drawings, specifications and to the entire satisfaction of the Engineer.	Sft	396.00	200/-	79,200/-

Syed Akbar Hussain Kazmi  
Member - PC  
Manager Finance (Payable)  
IBA Karachi



M.G. Construction  
Proprietor

M. H. QURESHI  
External Member - PC  
Procurement Specialist - HEJ  
University of Karachi

Page 80

DR. SHAFIQ MIR  
Chairman - PC  
Assistant Professor - Management  
IBA Karachi



5	<b>Roof Treatment</b>				
	Providing & Laying elastomeric cementitious waterproofing and protective coating of Expancote Rubber-flex two component acrylic polymer modified cementitious coating manufactured by M/s FOSPAK or equivalent confirming to ASTM D412 & ASTM D4541:1989 in two coats to achieve a total dry film thickness of 1.25 - 2.00 mm as per manufacturer's recommendation with experienced applicator.	Sft	480.00	85/-	40800/-
6	<b>Exhaust Fans</b>				
	Providing and fixing exhaust fan of approved make (PAK Fan/Royal) with inner frame size: 12" x 12", complete with all necessary hardware and accessories and as directed by Engineer	Nos.	7.00	4500/-	31,500/-
7	<b>Refixing of Existing Pavers</b>				
	Refixing in position of existing pavers present at site including removal, shifting, laying, levelling, compaction of stone dust laid in approved pattern and as directed by Engineer	Sft	1,000.00	75/-	75000/-
8	<b>Manholes</b>				
	Constructing Manhole or inspection chamber internal size 2'-0" x 2'-0" x 3'-6" depth with walls of block masonry with cement sand mortar and 1:3 CSM plaster, 1/2" TH. Inside and 1" thick outside over benching and channel including fixing C.I. Man hole cover 1-1/2" x 1-1/2" of 1.75 CWT (88.9 KG) embedded in plain CC complete as per standard specifications and as directed by engineer	Nos.	2.00	11000/-	22000/-
<b>B - TOTAL AMOUNT OF NON-SCHEDULE ITEMS (CIVIL WORKS)</b>				<b>PKR</b>	<b>359,797.5</b>

**M.G. Construction**  
Proprietor

**DR. SHAHID MIR**  
Chairman - PC  
Assistant Professor - Management  
IBA Karachi

Syed Akbar Hussain  
Manager Finance (Payable)  
IBA Karachi





ADDENDUM & CORRIGENDUM NO. 2 (SCH. OF RATES (MATERIALS), VOL-III, PART-III, 6TH EDITION-2011 PUBLICATION No. 48)					
1	Cement				
	Cement Ordinary Portland	Bag	308.00	325-0	100,100/-
2	Steel				
	Steel MS Bar Ordinary Steel MS Bar Tor	P.M.Ton	2.50	112000-0	280,000/-
3	Wood				
	Wood (Deodar) 1st Class	Per Cft	14.70	5500/-	80,850/-
C - TOTAL AMOUNT OF ADDENDUM & CORRIGENDUM (CIVIL WORKS)			PKR	460,950/-	

Syed Akbar Hussain Kazmi  
Member - PC  
Manager Finance (Payable)  
IBA Karachi

M. H. QURESHI  
External Member - PC  
Procurement Specialist - HEJ  
University of Karachi

DR. SHAHID MIR  
Chairman - PC  
Assistant Professor - Management  
IBA Karachi



**M.G. Construction**

Proprietor



B.O.Q Item	Description	Unit	Quantity	Rate	Amount
	<b>PLUMBING WORKS (BASED ON PREVAILING MARKET RATES)</b>				
1	Plumbing Piping Facility Water Distribution PPRC Pipes				
	Supply and lay PPR pipes of PipePlus, Minhas, IIL or approved equivalent for hot and cold water distribution at any height system including specials such as tees, bends, elbows, unions, plugs, reducers etc. with heat fusion jointing method including cutting holes in masonry or concrete in wall, floor and slab and chiseling wall and floor and making good the same, complete in all respect as per drawing, specification and as directed by the Engineer.				
	Nominal internal diameter shall be as follows:				
a	20mm (3/4") Dia	Rft	106	300/-	31800/-
b	25mm (1") Dia	Rft	58	400/-	23200/-
2	Handle Valve				
	Supply and install in place handle valve of Minhas, Pipe Plus or IIL or equivalent for water system as specified, approved by the Engineer, complete in all respect as per specifications.				
a	25mm (1") internal diameter.	No.	2	1500/-	8000/-

Syed Akbar Hussain Karim  
Member - PC  
Manager Finance (Payable)  
IBA Karachi

IMHARIS GURESHI  
External Member - PC  
Department Specialist - HFI  
University of Karachi



**M.G. Construction**  
Proprietor

Page 83  
**DR. SHAHID MIR**  
Chairman - PC  
Assistant Professor - Management  
IBA Karachi



3	<b>Facility Sanitary Sewerage Drainage Pipe</b>				
	Supply and lay UPVC pipes of Pak Arab/ Steelex (SDR-41), Nikasi or equivalent for soil, waste and vent system including specials such as tees, bends, plugs, reducers, etc. with solvent cement jointing / rubber ring push fit jointing method including cutting holes in masonry or concrete in walls, floor and in slab, making good the same, complete in all respect as per drawing, specification and as directed by the Engineer.				
a	110 mm (4" Dia) diameter.	Rft	306	580/-	177,480/-
4	<b>Supply and fix one piece commode of approved quality.</b>				
	Supply and fix one piece toilet Commode of Porta or equivalent quality, in white or coloured with "P or S" trap of vitreous china, size shall be 741 x 438 x 637 mm with symphonic flushing mechanism and seat cover with hydraulic including all internal fittings with connection pipes, Tee stop cock etc. of master complete in all respect as per drawing and specifications.	No.	2	65000/-	130,000/-
5	<b>Supply and fix Indian type Squatting Pan of approved quality.</b>				
	Supply and fix Indian type Squatting Pan of Porta or approved quality in white or coloured of vitreous china, size shall be 585 x 435 x 300mm with P-Trap 4" dia ( Pak Arab ) , hung type flushing cistern of local aproved quality including all necessary fitting for connection with inlet and outlet pipes, Tee cock etc., of Master (Code: 076-CP) complete in all respect as per specifications and as directed by Engineer.	No.	2	21000/-	42000/-

Syed Akbar Hussain  
Manager Finance Payable  
IBA Karachi

M. HANIS QURESH  
External Member - PC  
Procurement Specialist - HEJ  
University of Karachi

Page 84

DR. SHAHID MIR  
Chairman - PC  
Assistant Professor - Management  
IBA Karachi



M.G. Construction

Proprietor



6	Providing and fixing Over counter Wash basin				
	Supply and fix wash basin of Porta or approved equivalent, in white or coloured with Over Counter Vanity shall be 610mm x 500 mm including all internal fitting with connection pipes concealed Tee cocks, Pure Brass Bottle Trap, CP basin mixer, waste pipe etc., of Master brand or equivalent approved by the Engineer, complete in all respect as per drawing and specifications.	No.	2	32000/-	64000/-
7	Supply, fix muslim shower and double bib cock complete with PVC flexible pipe				
	Supply and fix muslim shower complete with PVC flexible pipe, and double Bib Cock of matching knobs, of Master, complete in all respect as per drawing and as directed by the Engineer.	No.	4	7800/-	31,200/-
8	Providing and fixing Stainless Steel Floor Trap				
	Supply and fix in position UPVC Floor Trap with SS Jali top tile & strainer of Master, Dadex - Nikasi or equivalent, floor trap shall be connected to a waste stack with bend, complete in all respect as per specification.	No.	6	800/-	4800/-

Syed Akbar Hussain Kazmi  
Member - PC  
Manager Finance (Payable)  
IBA Karachi

M. HANIS QURESHI  
External Member - PC  
Procurement Specialist - HEJ  
University of Karachi

DR. SHAHID MIR  
Chairman - PC  
Assistant Professor - Management  
IBA Karachi



M.G. Construction  
Proprietor



9	Providing and fixing Chrome Plated Bib Cocks	-			
	Supply and fix following chrome plated Bib Cocks / Stop, Cocks 12 mm dia. of Master with matching knobs, complete in all respect, as per drawing and specification.				
a	Bib Cock. (90 Degree)	No.	5	2500/-	12500/-
10	Electric Geyser	-			
	Providing and installation of Instant Electric Geyser of NASGAS brand (Model: DG-9L) or equivalent. Mounted at required height including all fixing accessories complete in all respect and as directed by Engineer	No.	1	30000/-	30000/-
11	Bathroom Accessories.	-			
	Supply and fix following bathroom accessories in chrome plated of Master or equivalent approved, complete in all respect as per specification.				
a	Towel Rod with Brackets.	Each	1	1000/-	1000/-
b	Soap Dish.	Each	2	300/-	600/-
c	Double Hook & Towel Ring.	Each	1	450/-	450/-
12	Providing and fixing Chrome Plated Bath Mixer				
	Supply and fix chrome plated wall type bath mixer with over head shower and matching knobs of Master/Faisal Brand, complete in all respect as per drawing and specification.	No.	1	18000/-	18000/-
D - TOTAL AMOUNT (PLUMBING WORKS)				PKR	578,030/-



Syed Akbar Hussain Kazmi  
Member - PC  
Manager Finance (Payable)  
IBA Karachi

M.G. Construction

Proprietor

M. H. QURESHI  
External Member - PC  
Procurement Specialist - HEJ  
University of Karachi

DR. SHAHID MIR  
Assistant Professor - Management  
IBA Karachi



Grand Total Amount of A+B+C+D

Rs. 4,236,000.24.

Grand Total Amount of A+B+C+D in Words:

Rupees: Four million, two hundred thirty six  
thousand, only.

Dr

Syed Atiqat Hussain Kazim  
Member - PC  
Manager Finance (Payable)  
IBA Karachi

M. HARIS QURESHI  
External Member - PC  
Procurement Specialist - HEJ  
University of Karachi

DR. SHAHID MIR  
Chairman - PC  
Assistant Professor - Management  
IBA Karachi



M.G. Construction  
Proprietor