



# GOVERNMENT OF SINDH

SINDH GOVERNMENT  
PMC HOSPITAL NAWABSHAH  
M & R WORKS AT TRAUMA CENTRE

## BILL OF QUANTITIES

ESTIMATED COST RS.		M
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**SINDH GOVERNMENT  
PMC HOSPITAL NAWABSHAH  
M & R WORKS AT TRAUMA CENTRE**

**SUMMARY OF COST**

S.No	ITEMS OF WORKS	AMOUNT
1	Composite Schedule Rate 2012 CIVIL WORK	2,066,382
2	Premium _____ % Above or Below On Schedule Items	
	<b>TOTAL OF SCHEDULE ITEMS</b>	
3	NON SCHEDULE ITEMS CIVIL WORK	
	<b>TOTAL OF NON-SCHEDULE ITEMS</b>	
	<b>A = TOTAL AMOUNT CIVIL WORK</b>	
1	Composite Schedule Rate 2012 PLUMBING WORK	28,897
2	Premium _____ % Above or Below On Schedule Items	
3	NON SCHEDULE ITEMS PLUMBING WORK	
	<b>B = TOTAL AMOUNT PLUMBING WORK</b>	
1	Composite Schedule Rate 2012 Electrical WORK	55,599
2	Premium _____ % Above or Below On Schedule Items	
3	NON SCHEDULE ITEMS Electrical WORK	
	<b>C = TOTAL AMOUNT ELECTRIC WORK</b>	
	<b>TOTAL AMOUNT A+B+C</b>	



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**ABSTRACT OF COST**

S.No	Description	Unit	Qty	Rate	Amount
	<b>CIVIL WORK SCHEDULE ITEMS</b>				
1	Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds: Lifting shuttering curing rendering and finishing the exposed surface (including screening and washing of shingle). (a) R. C work in roof slab, beams, columns, lintels and other structural members laid in situ or precast laid in position complete in all respects. (II) Ratio 1:1/2:3 (S.No 6 (ii) / Pg - 17).	Cft	520.00	349	181,480.00
2	Preparing the surface and painting with Matt finish I/c rubbing the syface with Bathy (Silicon carbide rubbing brick) filling the voids with zinc / 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.				
	2nd & Subsequent coat (S.No 36a,b / Pg # 55).	Sft	4,736.00	34.44	163,108
3	Distempereing c) Three Coats (S.No 24 c / Pg # 54).	%Sft	2,618.00	2725.8	71,361



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S.No	Description	Unit	QTY	Rate	Amount
	<b>CIVIL WORK SCHEDULE ITEMS</b>				
	Providing and fixing in position door and windows and ventilators for first class deodar wood frames 1 1/2" thick and teak wood ply shutters of first class deodar wood skeleton (Solid) stiled and ply wood stiled and rails core of partial wood and teak ply wood (3 Ply) on both sides including hold fast hinges al-drops Iron Tower Bolts handles Cleats with cord etc. Complete. (S.No 51 / Pg # 64).	P.Sft	112.00	1245.96	139,547.52
4					
	(d) Preparing surface and painting guard bars, gate of iron bars, gratings, railing including standard braces, etc) And similar open work. (Sl.5/56)	%SFT	432.00	521.95	2,255
5	Priming coat	%SFT	432.00	688.88	2,976
	Each subsequent coat of paint.				
6	Galvanized wire gauge 144 mesh per square inch of 22 S.W.G fixed to chowkats without deodar patti (S.No 62 / Pg - 66).	P.Sft	32.00	104.15	3,332.80
	Painting New Surfaces:				
7	c) Preparing surface and painting of doors and windows any type (including edges).				
	(i) Priming Coat	%SFT	224.00	862.95	1,933.01
	(ii) Each subsequent coat of paint	%SFT	224.00	626.73	1,403.88
	Providing & fixing iron steel grill using solid square bars of size 1/2" x 1/2" placed at 4" I/c and frame of flat iron patti of 3/4" x 3/4" I/c circle shape at 1'-0" apart equivalent fitted with screws are pins I/c painting 3 coats with 1st coat of red oxide paint etc (S.No 30 / Pg # 94).	P.SFT	432.00	194.16	83,877.12
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S.No	Description	Unit	Qty	Rate	Amount
	<b>CIVIL WORK SCHEDULE ITEMS</b>				
9	Providing and laying tiles glazed 6" x 6" x 1/4" on floor or wall facing in required colour and pattern of STILE specification jointed in white cement and pigment over a base of 1:2 grey cement mortar 3/4" thick including washing and filling of joints with slurry of white cement and pigment in desired shape with finishing, clearing and cost of wax polish etc. complete including cutting tiles to proper profile. (S.No 60 / Pg # 47).	%SFT	420.00	30509.77	128,141.03
10	Cement plaster 1:4 upto 12' height. (c) 3/8" (12mm) (SI.11C/52)	%SFT	1,334.00	2,197.52	29,315
11	Preparing the surface and painting with weather coat l/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. 2nd & subsequent coat (S.No 38 A & B / Pg - 56).	%SFT	1,428.00	2567.95	36,670.33
12	Providing and fixing approved quality mortice lock (S.No 21 / Pg - 60).	No	5.00	1786.13	8,930.65
13	Supplying & fixing imposition Aluminium channels framing for hinged doors or Alcop made with 5 mm thick tinted glass glazing (Belgium) and Alpha (Japan) locks l/c handles, stoppers etc.	SFT	568.00	1507.66	856,350.88
	<b>(Vol-II, Part-II, Chap-18, Pg-107, Sr. 83b)</b>				
14	Providing & fixing deodar Almirah 9" - 12" depth including boxing with back shelves, shutters brass fittings complete. (S.No 23 / Pg - 61).	SFT	200.00	1778.5	355,700.00





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S No	Description	Unit	Qty	Rate	Amount
	<b>CIVIL WORK NON SCHEDULE ITEMS</b>				
1	Providing and laying deformed (Grade - 60 ) reinforcement bars including thecost 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 preCOST spacer or M.s. chairs and tying with binding wire etc. complete in all respects as per drawings and in accordance with the specifications. :- (Horizontal and Vertical members).	Ton	2.08		
2	Providing & fixing roller window blinds of approved quality in required size and colour as directed by the Engineer Incharge.	SFT	432.00		
3	Providing & fixing false ceiling of thermopole in panels of required design and size including frame work of Aluminum T- section hanged with nail wire to ceiling etc: completed.	SFT	1,040.00		
<b>TOTAL AMOUNT</b>					



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S No	Description	Unit	Qty	Rate	Amount
<b>PLUMBING WORK SCHEDULE ITEMS</b>					
1	Supplying & fixing C.P Muslim Shower with crystal head etc. complete. (Vol-III, Part-V-B, Chap-6, Pg-18, Sr. 19b)	Each	6.00	3,432.00	20,592
2	S/Fixing long bib- cock of crystal head with 1/2" dia. (Vol-III, Part-V-B, Chap-6, Pg-18, Sr. 13b)	Each	6.00	1,384.24	8,305
					<b>28,897</b>



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S.No	Description	Unit	QTY	Rate	Amount
1	Providing and fixing indian type WC imported set couple set as approved quality make and design including with matching colour with existing tiles colour including three gallon flushing tank with p Trap and waste pipe including finishing curing etc. complete.	Each	3.00		
2	Providing and fixing English commode imported set couple set as approved quality make and design including with matching colour with existing tiles colour including three gallon flushing tank with p Trap and waste pipe including finishing curing etc. complete.	Each	1.00		
3	P/F wash basin approved quality etc. complete in all respect. (Imported).	Each	2.00		
4	S/F Muslim Shower with double bib cock approved quality etc. complete. (Imported make)	Each	2.00		
5	S/F CP brass concealed T-stop cock of superior quality with crystal head 1/2" dia (Master make)	Each	4.00		
6	P/F floor trap jali 6"x6" size double sheeted as approved colour, make & design matching with Existing Ties & fixing with fine finishing and proper slope etc. complete.	Each	10.00		



7	S/F Wash Basin Mixture of superior quality with CP head 3/4" dia (Imported make)	Each	2.00		
8	Providing and fixing uPVC pipe including cutting making and jointing with swich pest with special approved quality including all cost of labour as directed by the Engineer Incharge etc. complete.				
	uPVC Pipe 4" dia	Rft	10.00		
	uPVC Pipe 3" dia	Rft	10.00		
	uPVC Pipe 3/4" dia	Rft	10.00		
	uPVC Pipe 1/2" dia	Rft	10.00		
9	Providing and fixing uPVC pipe fiffing imported quality including all cost of labour as directed by the Engineer Incharge etc. complete.				
	4" dia plug tee	Each	5.00		
	4" dia plain bend	Each	5.00		
	4" dia cowel	Each	5.00		
	4" dia y-tee	Each	5.00		
<b>TOTAL AMOUNT</b>					



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S.No	Description	Unit	Qty	Rate	Amount
	<b>ELECTRIFICATION SCHEDULE</b>				
1	Wiring for light or fan point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit recessed in the wall or column as required. (S.I.No. 124, Page No. 15).	P. pt	20.00	1,130.00	22,600
2	Wiring for plug point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit recessed in the wall or column as required. (S.I.No126, Page No. 15).	P. pt	20.00	985.00	19,700
3	Wiring for call bell point with 3/.029 PVC insulated wire in 20mm (3/4") PVC conduit recessed in the wall or column as required. (S.I.No. 128, Page No. 15).	P. pt	2.00	1,764.00	3,528
4	Providing & fixing Brass Ceiling fans 56" (good quality) E/C item no 235	Each	3.00	3185	9,555
5	Providing & fixing Bakelite ceiling rose with two terminals. (S.I.No. 228, Page No. 33)	rm	3.00	72.00	216
					<b>55,599</b>





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SEWERAGE & WATER SUPPLY LINES

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ESTIMATED COST RS.		
		M



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**SUMMARY OF COST**

S.No	ITEMS OF WORKS	AMOUNT
1	Composite Schedule Rate 2012 CIVIL WORK	3,566,194
2	Premium _____ % Above or Below On Schedule Items	
	<b>TOTAL OF SCHEDULE ITEMS</b>	
3	NON SCHEDULE ITEMS CIVIL WORK	
	<b>TOTAL OF NON-SCHEDULE ITEMS</b>	
	<b>A = TOTAL AMOUNT CIVIL WORK</b>	
	<b>TOTAL AMOUNT A</b>	



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ABSTRACT OF COST**

S.No	Description	Unit	Qty	Rate	Amount
<b>CIVIL WORK SCHEDULE ITEMS</b>					
1	Excavation for pipe line in trenches, and pits in soft soil i/c trimming and dressing sides to true alignment and shape levelling of beds of trenches to correct level and grade, cutting joint holes and disposal of surplus earth within one chain as directed by Engineer Incharge. Providing fence guards, lights, flags and temporary crossings for non-vehicular traffic wherever required lift up to 5 ft (1.52 m) and lead up to one chain (30.5m) (S.No 1 / Pg - 60).	%0Cft	76,800.00	3600	276,480.00
2	Providing, Laying and Jointing RCC pipes (Cement Collar Joints).  Providing, Laying RCC pipes & Collars of Class 'A' and fixing in trench i/c cutting, fitting and jointing with maxphalt composition and cement mortar (1:1) i/c testing with water to a head of 4.5 meter or 15 ft. 225 mm (9" dia) d) 300 mm (12" dia) (S.No 1 / Pg - 15). e) 225 mm (9" dia) 225 mm (9" dia) 300 mm (12" dia)	RFT RFT	2,880.00 1,920.00	142 246	408,960.00 472,320.00
3	Filling, watering and ramming earth under floor with new earth (Excavated from outside) lead up to one chain and lift up to 5 feet. (S.No 22 / Pg - 4).	%0Cft	14,400.00	3630	52,272.00



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S.No	Description	Unit	Qty	Rate	Amount
	<b>CIVIL WORK SCHEDULE ITEMS</b>				
4	Cleaning inside sewerage lines completely restoring original silt free space/diameter of pipe lines by labour and equipment (Mechanically/electrically driven). Including accessories like pulley's steel rope, bucket and daggers sizing from 6" to 18" dia. Their "to and from" pulling action (No. of passes shall be as many as required) would be taken in two phases (First phase entire length from down stream to up stream) bringing down peak hours sewerage to flow inside pipe line (as free flow) and in second phase from up stream to down stream of entire length ensuring no silt is observed in buckets (6" dia to 18" dia) except only sewerage water and finally passing a steel ball of dia 12" lesser than the diameter of pipe but not exceeding 48" dia ball even for larger dia pipe to ensure perfect cleaning. The job includes all the hire/cost of equipment and accessories of above winching machine/devices along with/engines with winching drum set having, steel rope pully mounted over it, steel bucket from 6" to 18" dia hooks and other protection likes safety barriers, traffic signs, traffic cones ensuring no damage to pipe along with ensuring safety to labour and other public property/lives and removal of silts/solid during desilting and clearance of site etc. Complete as per full satisfaction of Site Engineer. V) 24" dia (S.No 1 / Pg - 30, Chapter 16).	RFT	4,000.00	209.30	837,200
5	Providing & laying including sutting and fitting C.I pipes in trenches and testing with water to pressure head of 200 ft. (a) 3" dia C.I Pipe (S.No 1 / Pg - 22, Chapter - 09).	RFT	6,000.00	196.52	1,179,120
6	Providing & fixing C.I standard 90 degrees bends in trench I/c testing with water to a Pressure Of 200ft. (a) 3" dia C.I bend 90°. (S.No 2 / Pg - 22, Chapter - 09).	Each	40.00	610.5	24,420



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S.No	Description	Unit	Qty	Rate	Amount
	<b>CIVIL WORK SCHEDULE ITEMS</b>				
7	Providing & fixing C.I standard 45 degree of below 45 degree bends in trenches, including testing with water to a pressure head of 200 ft. (a) 3" dia C.I bend 45°. (S.No 3 / Pg - 22, Chapter - 09).	Each	40.00	610.5	24,420
8	Providing & fixing C.I standard tees in trenches including testing with water to a pressure head of 200 ft. (a) 3" X 3" dia C.I tee. (S.No 4 / Pg - 22, Chapter - 09).	Each	40.00	1,364.00	54,560
9	Providing & fixing C.I standard crosses in trench including with testing water to a pressure head of 200 ft. (a) 3" dia Cast Iron Cross. (S.No 5 / Pg - 22, Chapter - 09).	Each	40.00	2684	107,360.00
10	Providing & fixing cast iron standard tapers in trench I/c testing with water to a pressure head of 200 feet. (a) 3" dia Cast Iron Taper. (S.No 6 / Pg - 23)	Each	40.00	1,133.00	45,320
11	Cleaning of collecting tank/sump below ground level i/c dewatering of sullage water & disposal of garbage, solid waste etc: outside the tank etc complete. (S.No T-1 / Pg - 59).	%0Cft	3,200.00	11900	38,080.00
12	Manufacturing and supplying of 21" R.C.C manhole cover cast in 1:2:4 concrete ratio 3 inch deep at centre, reinforced with 1/2" dia tor steel bars at 4" c/c welded to 3/16" thick 2" wide M.S plate two hook of 3/8" dia tor bar including compacting I/c curing, and transportation within 10 miles. (a) 21 inch dia (S.No 1 / Pg - 31, Chapter - 17).	Each	50.00	913.63	45,681.50





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S No	Description	Unit	QTY	Rate	Amount
<b>CIVIL WORK NON SCHEDULE ITEMS</b>					
1	Cleaning & Decontamination of underground / over head water tank with chemical I/c dewatering and cleaning the walls with hand brush , applying potassium per magnate coat to eliminate all bacteria's germs and removing the algae and vegetal growth and white washing two coats.	Job	8.00		
2	Providing & fixing of Motor of 15 hp with Wending Copper wiring including all accessories, loading, unloading, cartage etc complete.	Each	2.00		
<b>TOTAL AMOUNT</b>					

