



GOVERNMENT OF SINDH

**SINDH GOVERNMENT
CHANDKA MEDICAL COLLEGE LARKANA
INFECTIOUS WASTE STERILIZATION FACILITY AT
CMC LARKANA**

BILL OF QUANTITIES

COST RS.		M
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CHANDKA MEDICAL COLLEGE LARKANA
INFECTIOUS WASTE STERILIZATION FACILITY AT CMC LARKANA
SUMMARY OF COST

S.No	ITEMS OF WORKS	AMOUNT
1	Composite Schedule Rate 2012 CIVIL WORK	4,089,958
2	PREMIUM _____ % ON SCHEDULE ITEMS	
	TOTAL OF SCHEDULE ITEMS	
1	NON SCHEDULE ITEMS CIVIL WORK	
	TOTAL OF NON-SCHEDULE ITEMS	
	A = TOTAL AMOUNT CIVIL WORK	
1	Composite Schedule Rate 2012 PLUMBING WORK	184,514
2	PREMIUM _____ % ON SCHEDULE ITEMS	
3	NON SCHEDULE ITEMS PLUMBING WORK	
	B = TOTAL AMOUNT PLUMBING WORK	
1	Composite Schedule Rate 2012 Electrical WORK	273,075
2	PREMIUM _____ % ON SCHEDULE ITEMS	
3	NON SCHEDULE ITEMS Electrical WORK	
	C = TOTAL AMOUNT PLUMBING WORK	
	TOTAL AMOUNT A+B+C	

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ABSTRACT OF COST

S.No	Description	Unit	Qty	Rate	Amount
	CIVIL WORK SCHEDULE ITEMS				
	EXCAVATION & BACK FLLING				
1	Excavtion in foundation of Building Bridges and other structures including dagbellling dressing,refilling around structrure with excavated earth Watering and ramming lead upto 5 ft.(SI.18/4) (b) In ordinary soil.	0%CFT	10,658.91	3,176.25	338,554
2	Filling watering and ramming earth under floor with new earth (Excavated from outside) lead upto one chain and lift upto 5feet. (SI.20/10)	0%CFT	25,058.91	3,630.00	90,964
3	Supplying and fillilg sand under floor and plugging in walls (SI.29/26)	%CFT	3,240.00	1,141.25	36,977
	MISCELLENOUS WORK				
4	Providing Anti-teRMmite treatment by spraying /sprinkling /spreading Neptachler 0.5% Emulsion as an overal pre construction treatment in slab type construction along external foundation trenches of the building over complete parimter of the foundation trench etc, as per directions of Engineer Incharge(SI.91/109)	PSF	6,352.47	9.74	61,873
5	Providing and laying single per layer of polythene sheet 0.13 mm thick for water proffing as per specification and nstructions of Engineer incharge.(SI.38/45)	PSF	2,752.47	10.70	29,451
	CONCERETE WORKS				
6	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing at stone aggregate without shutting. 1:4:8 (SI.98/112)	%CFT	3,176.24	11,288.75	358,557

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S.No	Description	Unit	Qty	Rate	Amount
	CIVIL WORK SCHEDULE ITEMS				
7	Damp Proof course with (cement sand and Shigle concrete 1:2:4) including 2 coats of asphaltic mixture. (SI.28/19)	%SFT	111.10	3,912.85	4,347
8	Cement concrete plain including placing compacting, finishing and curing, complete (including screening and washing at stone aggregate without shuttering 1:2:4 (SI.5/16)	%CFT	2,013.32	14,429.25	290,507
9	Erection and removal of centering for RCC or plain cement works of partial wood vertical.(SI.19b/18)	%SFT	3,130.56	3,127.41	97,905
10	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) R.C work in roof slab, beams columns rafts lintels and other structural members laid in situ or precast laid in position complete in all respects. (II)Ratio 1:1-1/2:3 (SI.6/17)	CFT	4,101.32	349.00	1,431,362
11	Providing and laying 1" thick topping cement concrete (1:2:4) including surface finishing and dividing into panels: (SI.16/42) (c) 2" thick (SCREEDING for ROOF)	%SFT	1,722.00	3,275.50	56,404
	SURFACE RENDERING				
12	Bitumen coating to plastered or cement concrete surface. (SI.11/71)	%SFT	5,751.67	778.09	44,753

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S.No	Description	Unit	Qty	Rate	Amount
	CIVIL WORK SCHEDULE ITEMS				
13	Cement plaster 1:4 upto 12' height. (c) 1/2" (8mm) (SI.11b/52)	%SFT	11,330.34	2,283.93	258,777
14	Cement plaster 1:4 upto 12' height. (c) 3/8" (12mm) (SI.11C/52)	%SFT	11,330.34	2,197.52	248,986
15	Preparing the surface and painting with matt finish I/c rubbing the surface with Bathy (silicon carbide rubbing brick) filing 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 (new surface)				
	(b) Second and each subsequent coat.(SI.36b/55)	%SFT	5,351.78	3,444.38	184,336
16	A.Preparing the surface and painting with weather coat I/c rubbing the surface with rubbing bricks/sand Paer, filling the voids with chalk/plaster of Paris and then painting with weather coat of approved make. (SI.38a/56)	%SFT	5,819.00	1,328.25	77,291
	2nd & subsequent coat	%SFT	5,819.00	1,239.70	72,138
17	(d) Preparing surface and painting guard bars, gate of iron bars, gratings, railing including standard braces, etc) And similar open work. (SI.5/56)				
	Priming coat	%SFT	464.00	521.95	2,422
	Each subsequent coat of paint.	%SFT	464.00	688.88	3,196
	FLOORING WORK				

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S.No	Description	Unit	Qty	Rate	Amount
	CIVIL WORK SCHEDULE ITEMS				
18	Providing and laying glazed tiles glazed 6"x6"x1/4" on floor or wall facing in required coloured and apttern of STILE specification jointed in white cement and pigment over a base of 1:2 grey cement mortar 3/4" thick including washing and fillilng of joints with slaurry of white cement and pigment in desired shape with finishing, clearing and cost of wax polish etc. complete including cutting tiles to proper profile.SCH/Page-47 item-60	%SFT	495.00	30,509.77	151,023
19	Flate Brick flooring lain in 1:6 cment mortar over a bed of 3/4" thick cment mortar 1:6 (SI.7/40)	%SFT	1,620.00	3,777.13	61,190
20	Supplying and fixing special heavy type steel doors for look-ups withen angle iron frame of 2-1/2" to 2- 1/2" x 3/8" with 1" diameter aseparate lockingbox having size of 12" x 12" of M.steel sheet embeded in masonry with proper locking arrangment as per approved design including cost of erection of steel gate fixing in masonry wall in cement concrete 1:2:4 etc . omplete as per instruction of enginner incharge	SFT	203.00	930.76	188,944
			G.Total		4,089,958

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S.No	Description	Unit	Qty	Rate	Amount
	CIVIL WORK NON SCHEDULE ITEMS				
	STONE SOLING				
1	Providing & laying Stone Soling 4" thick. TO 6" thick.including using granular material for filling stone widess levelling and compacting to required density etc.complete as per drawing and instruction approval of the Engineer Incharge / Consultant.	CFT	1,844.80		
	MASONRY WORK				
2	Providing, laying and jointing Solid Block Masonry in 1:6 cement sand mortar in walls, using Solid Concrete Blocks with size 12" x 8" x 6" having nominal crushing cylindrical strength 1200 Psi, at Ground Floor including scaffolding, raking out joints and curing, but excluding the cost of reinforcement, as per drawings and in accordance with the specifications.	CFT	2,653.97		
3	Providing, laying and jointing Hollow Block (800 to 1000 psi) Masonry in 1:6 cement sand mortar in walls, using Solid Concrete Blocks with size 12" x 8" x 6" having nominal crushing cylindrical strength 1200 Psi, at Ground Floor including scaffolding, raking out joints and curing, but excluding the cost of reinforcement, as per drawings and in accordance with the specifications.	CFT	774.60		
	STEEL WORK				
4	Providing and laying deformed (Grade - 60) reinforcement bars 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 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	14.35		
	SR CEMENT AND PLASTICIZER/ADMIXTURE				
5	Extra over concrete 3000 psi with SR Cement.	bags	673.36		
6	Mixing of additives (Plasticizers) in concrete.	Litres	1,180.54		

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S.No	Description	Unit	Qty	Rate	Amount
	CIVIL WORK NON SCHEDULE ITEMS				
7	Providing and fixing UPvc Door of approved size, design, with 5mm thick tinted glass glazing Half Glazed or quarter glaze as per instruction of engineer , fixed in position includings chowkats hold fasts hinges, iron tower bolts, chocks, cleats, handles, and cords with hooks, stoppers and hydraulic door closer etc complete with all respect as per structure engineer incharge	Sft	332.50		
8	Supplying & fixing in position UPVC chennel framing Sliding windows and ventilators make with 5mm thick tinted glass glazinglocks I/c handles, stoppers etc.	Sft	86.00		
9	Providing and laying fancy type Porcelain floor and dado tiles 24" x 24" & 1/4" thick as approved size specified approved quality / make / design and colour including laying with bond solution sand mortar including jointing in white cement including washing of tiles and filling of joints with slurry of white cement in desired shape with finishing including cutting of tiles to proper profile i/c. all respect labour and necessary required material as directed by the Engineer Incharge etc	Sft	2,024.00		
10	Providing & laying verona floor marble tiles of size 12"x12"x3/4" fine dressed on the surface without windining set in white cement laid over 3/4" thick bed of 1:2 grey cement mortar stting the tiles and pigment to match the colour of tiles, including curing, grinding, rubbing and chemical polishing etc complete, i.c tiles to proper profile.	Sft	90.00		
11	Providing and fixing of false ceiling of gypsum board in panel of required design and size including frame work of Aluminum T section hang with wire to ceiling etc.	Sft	1460.00		

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S.No	Description	Unit	Qty	Rate	Amount
	CIVIL WORK NON SCHEDULE ITEMS				
12	Providing and fixing Fiberglass Sheds 4mm thick including cost of pipes, angle iron truss 1.1/2" x 1-1/2" with pulins complete with all respect as per drawings attached	Sft	250.00		
13	Providing & fixing u channel aluminum framing fixed partition including tempered 12mm thick (ghani/tariq) including gaskit screw complete with all respect etc. as per instruction of engineer in charge	SFT	175.50		
14	Installation of prefabricated PU Panel & refrigeration unit at storage facility size 8'x10' room to maintain temperature between 2 to 7 degree centigrade with all accessory for insulation of room ceiling walls and floor as per specification and design	Job	2.00		
15	Providing & fixing thermopole sheets 4" thick of approved quality as per the direction of the Engineer in charge.	SFT	864.00		
TOTAL AMOUNT					

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S.No	Description	Unit	Qty	Rate	Amount
1	PLUMBING WORK SCHEDULE ITEMS				
	Providing , Laying uPVC pressure Pipes of Class 'D' fixing in trench i/c cutting fitting and jointing with Z joint with one rubber ring i/c testing with water to a head 122 meter or 400 ft.(SI,PH-53/23)				
	UPVC pipe 110 mm dia	rm	30.00	741.51	22,245
	UPVC pipe 25mm dia	rm	20.00	91.87	1,837
	UPVC pipe 38mm dia	rm	20.00	144.36	2,887
2	Providing R C C Manhole Cover & Frame i/c Cost of Material etc. (SI,PH-J135)	Cwt	4.00	6,985.00	27,940
3	Providing , Laying uPVC pressure Pipes of Class 'D' fixing in trench i/c cutting fitting and jointing with Z joint with one rubber ring i/c testing with water to a head 122 meter or 400 ft. uPVC Pipe 50 mm Ø Class D (SI,PH-53 E3/23)	rm	20.00	741.51	14,830
4	Manufacturing, supplying & fixing black steel M.S pipe made out of M.S sheet confirming to API 5L grade X-42 ERW & Externally asphalt coated with fiber glass 5mm thick & internally C.C lining 8mm thick (AWWA specification) i/c laying jointing with Hilical welding in trenches i/c cost of bends of any degree & testing with water specified pressure for different dia of pipes as below: 4.8 mm thick				
a	4" dia	rm	10.00	2,904.64	29,046
b	3" dia	rm	35.00	2,449.36	85,728
					184,514

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S.No	Description	Unit	Qty	Rate	Amount
1	Gate Valve 38mm dia	No.	2.00		
2	Lift pump 0.4kw, incl, fitting accessories and installation including conection to the electric power	Each	1.00		
3	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	2.00		
4	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	2.00		
5	P/F wash basin approved quality etc. complete in all respect. (Imported).	Each	2.00		
6	S/F Muslim Shower with double bib cock approved quality etc. complete. (Imported make)	Each	2.00		
7	S/F CP brass concealed T-stop cock of superior quality with crystal head 1/2" dia (Master make)	Each	4.00		

8	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	32.00		
9	S/F Wash Basin Mixture of superior quality with CP head 3/4" dia (Imported make)	Each	2.00		
10	Providing and fixing uPVC pipe including cutting making and jointing with switch pest with special approved quality including all cost of labour as directed by the Engineer Incharge etc. complete.				
	uPVC Pipe 4" dia	Rft	20.00		
	uPVC Pipe 3" dia	Rft	20.00		
	uPVC Pipe 3/4" dia	Rft	20.00		
	uPVC Pipe 1/2" dia	Rft	160.00		
11	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	20.00		
	4" dia plain bend	Each	20.00		
	4" dia cowel	Each	20.00		
	4" dia y-tee	Each	20.00		
	3" dia plug tee	Each	20.00		
	3" dia plain bend	Each	20.00		
	3" dia cowel	Each	20.00		
	3" dia y-tee	Each	20.00		
	3/4" dia valve	Each	50.00		
	1/2" dia valve	Each	50.00		
	Supply & Providing of Infectious Waste Bins				
	HDPE BINS - 240 LITERS	EACH	100.00		
	HDPE BINS - 640 LITERS	EACH	20.00		
TOTAL AMOUNT					

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S.No	Description	Unit	Qty	Rate	Amount
	ELECTRIFICATION SCHEDULE				
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	65.00	1,130.00	73,450
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	5.00	1,764.00	8,820
4	Providing and laying (Main or sub Main)PVC insulated with size 2-7/.029 copper conductor in 3/4" dia PVC conduit recessed in the wall or column as required. (S.I.No. 10 Page No. 2).	rm	150.00	222.00	33,300
5	Providing and laying (Main or sub Main)PVC insulated with size 2-7/.036 copper conductor in 3/4" dia PVC conduit recessed in the wall or column as required. (S.I.No. 11 Page No. 2).	rm	150.00	252.00	37,800
6	Providing and laying (Main or sub Main)PVC insulated with size 2-7/.044 (6mm ²) copper conductor in 3/4" dia PVC conduit recessed in the wall or column as required. (S.I.No. 12 Page No. 2).	rm	150.00	341.00	51,150
7	Providing & fixing Brass Ceiling fans 56" (good quality) E/C item no 235	Each	15.00	3185	47,775

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S.No	Description	Unit	Qty	Rate	Amount
	ELECTRIFICATION SCHEDULE				
8	Providing & fixing Bakelite ceiling rose with two terminals. (S.I.No. 228, Page No. 33)	rm	15.00	72.00	1,080
					273,075

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NON SCHEDULE**

S.No	Description	Unit	Qty	Rate	Amount
	ELECTRIFICATION NON SCHEDULE				
1	Providing and fixing switches or sockets as per following specification and requirements (5 Amp): a) one gange	No.	8.00		
2	b) two gange	No.	8.00		
3	c) four gange	No.	8.00		
4	d) six gange	No.	8.00		
5	e) two pin 5 AMP sockets for half point	No.	8.00		
6	f) 5 pin plug socket for multiple use 10-15 amp	No.	8.00		
7	g) 3 pin power plug socket 20 amp	No.	8.00		
8	Providing and fixing bakelite holder (thread type) heavy and good quality with brass internal fittings complete with fixing accessories	No.	48.00		
9	Providing and fixing of Ding Dong Bell with fixing accessories	No.	15.00		
10	Providing and fixing of PVC pipe for cable laying or crossing or as extension pipe to feed another floor. Including cutting of wall making hole or cutting floor and making the surface good. Complete as required. PVC 1" dia (25mm).	rm	100.00		
11	Providing and fixing of G.I pipe for cable laying or crossing or as extension pipe to feed an other floor. Including cutting of wall making hole or cutting floor and making the surface good. Complete as required.: G.I 1" dia (25mm)	rm	20.00		
12	P/F Fan dimmer fancy type pak/royal/millat/imported make with necessary connection. On sheet complete as required.	No.	25.00		
13	P/F Exhaust Fan 10" to 12" sweep with wall clamp Metal Body/Plastic Body Pak/Royal/Millat/Imported i/c necessary electric connection etc, complete.	No.	3.00		

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S.No	Description	Unit	Qty	Rate	Amount
14	P/F Earthing set with 1.5"x1.5' x.55' GI plate buried in the ground at depth of 12-ft: upto water level with salt and charcoal mixture etc i/c providing GI pipe and copper wire 8-SWG inspection chamber with MS cover plate.	job	1.00		
15	Providing & fixing Energy Saver 24 Watts approved quality etc, complete (Phillips).	No.	60.00		
16	Providing and fixing as per following specifications and requirements, powder coated box,door/ wall mountain with locking arrangement a) DP-50 AMP 6KA 01 No b) copper bus bars (50amp) 3no c) MCB (for room) (2-6 amp) 8no (2spare) d) MCB (15amp) (for RO/ washroom) e) MCB (10amp) (for water pump)	job	1.00		
17	Providing and fixing as per following specifications and requirements, powder coated box,door/ wall mountain with locking arrangement a) MCB (15amp) 01no b) MCB (10amp) 01no c) MCB (2-6 amp) 06 no (1 spare) d) Set of copper busbars 50 Amp 04 no.s	job	1.00		
18	Providing and fixing sweet water pump motor set 1 hp monoblock/donkey pump complete with foundation pad and fixing aseccories as per approval of Engineer Incharge	job	2.00		
19	providing & fixing of fan hooks with all accessories	each	25.00		
20	Providing and laying (Main or sub Main)PVC/PVC as per following specification. with1-7/.044 copper conductor in 1-1/2" dia PVC conduit recessed in the wall or column as required.	rm	100.00		

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21	Providing and laying (Main or sub Main)PVC/pvc as per following specification. With 1-7/.064 copper conductor in 1-1/2" dia PVC conduit recessed in the wall or column as required.	rm	100.00		
22	Providing and fixing of pvc pipe including specials 1" dia to be burried in the ground by excavation/cutting katcha floor and making surface good complete as required.	rm	75.00		
TOTAL AMOUNT					