

MODERNIZATION OF GCT, SITE, KARACHI

REPAIRING AND MAINTENANCE WORK OF ADMIN AND POWER SECTIONS

GRAND SUMMARY OF COST

S #	SUB HEAD	TOTAL AMOUNT
1	Cost of Admin Section Repairing Work (Page No. 02 - 21)	Rs=
2	Cost of Power Section Repairing Work (Page No. 22 - 41)	Rs=
Total Cost of Work		Rs=

The Director (Works & Services)

Dated: _____

Contractor's Signature with Stamp

Dated: _____

MODERNIZATION OF GCT, SITE, KARACHI

REPAIRING AND MAINTENANCE WORK OF ADMIN SECTION, (GROND FLOOR)

SUMMARY OF COST

S #	SUB HEAD	TOTAL AMOUNT
1	Cost of Civil Work (Scheduled Items) (Page No. 03 - 08)	Rs=
2	Cost of Civil Work (NSI) (Page No. 09 - 12)	Rs=
	(A)	Rs=
3	Cost of Plumbing Work (Scheduled Items) (Page No. 13 - 15)	Rs=
4	Cost of Plumbing Work (NSI) (Page No. 16 - 17)	Rs=
	(B)	Rs=
5	Cost of Electrical Work (Scheduled Items) (Page No. 18 - 19)	Rs=
6	Cost of Electrical Work (NSI) (Page No. 20 - 21)	Rs=
	(C)	Rs=
Total Cost of Work (A+B+C)=		Rs=

The Director (Works & Services)

Dated: _____

Contractor's Signature with Stamp

Dated: _____

MODERNIZATION OF GCT, SITE, KARACHI
REPAIRING AND MAINTENANCE WORK OF ADMIN SECTION,
(GROND FLOOR)

BILL OF QUANTITIES

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	REMOVAL OF PLASTER Removing cement or lime plaster. (Page No. 13, Item No. 33)	65,000.00	%Sft	121.00	78,650.00
2	DISMANTLING Dismantling glazed or encaustic tiles etc. (Page No. 13, Item No. 55)	35,000.00	%Sft	786.50	275,275.00
3	Dismantling cement concrete plain 1:2:4 (Page No. 10, Item No. 19-c)	9,500.00	%Cft	3,327.50	316,112.50
4	REMOVING DOORS Removing doors with chowket (Page No. 12, Item No. 33-a)	40	Each	142.18	5,687.20
5	REMOVING WINDOW Removing window and sky light with chowket (Page No. 12, Item No. 33-b)	105	Each	102.85	10,799.25
<u>PLINTH PROTECTION</u>					
6	Excavation in Ordinary Soil in foundation of Building Bridges and other structures including dagbelling dressing, refilling around structure with excavated earth watering and ramming lead upto 5 ft. (Page No. 4, Item No. 18-b)	2,000.00	%0Cft	3,176.25	6,352.50
7	Cement concrete plain including placing compacting, finishing and curing complete (including screining and washing at stone aggregate without shuttering (Page No. 15, Item No. 5)				
a	Ratio 1:4:8	300.00	%Cft	11,288.75	33,866.25
b	Ratio 1:3:6	300.00	%Cft	12,595.00	37,785.00
c	¾" thick Cement Plaster 1:4 upto 12' height. (Page No. 51, Item No. 11-c)	4,500.00	%Sft	3,015.76	135,709.20

MODERNIZATION OF GCT, SITE, KARACHI
 REPAIRING AND MAINTENANCE WORK OF **ADMIN SECTION,**
(GROND FLOOR)

BILL OF QUANTITIES

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
8	G.I.FRAMES FOR DOOR Providing and fixing G.I. Frames / Choukhats of size 7" X 2" or 4½ X 3" for door using 20 gauge G.I. sheet including welded hinges and fixing at site with necessary hold fasts, filling with cement sand slurry of ratio 1:6 and repairing the jambs. The cost also includes all carriage tools and plants used in making and fixing. (Page No. 92, Item No. 29)	850.00	Per Rft	228.90	194,565.00
9	DOOR & WINDOW First class deodar wood wrought, joinery in doors and windows etc. fixed in position including chowkats hold fasts hinges, iron tower bolts, chocks cleats handles and cords with hooks, etc. (Page No. 57, Item No. 7b) Rate of Door: Rs. 1,227.36 - G.I. Frame Rs. 228.90 = Door & Windows (Rs. 998.46)	1,120.00	Per Sft	998.46	1,118,275.20
10	MARBLE ON STAIR STEPS Laying white marble flooring fine dressed on the surface without winding set in lime mortar 1:2 including rubbing and polishing of the joints. (¾" thick) Page No. 42, Item No. 28.	390.00	Per Sft	567.48	221,317.20
11	SURFACE RENDERING Cement Plaster 1:5 upto 12' height				
a	½" thick <u>Internal Wall Plaster</u> (Page No. 51, Item No. 12-b)	40,000.00	%Sft	2,241.80	896,720.00
b	¾" thick <u>External Wall Plaster</u> (Page No. 51, Item No. 12-c)	20,000.00	%Sft	2,678.50	535,700.00
12	BLOCK MASONRY (6" Thick) Providing and laying 1:3:6 cement concrete solid block masonry wall 6" and below in thickness set in 1:6 cement mortar in ground floor Super Structure including raking out joints and curing etc. complete. (Page No. 18, Item No. 24)	1,500.00	%Cft	15,771.01	236,565.15

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(GROND FLOOR)

BILL OF QUANTITIES

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
13	GLASS PANES Glazing with panes (24 oz to 26 oz.) using putty and deodar wooden 1st class fillets. (Page No. 63, Item No. 46)	500.00	Per Sft	163.90	81,950.00
14	SCRAPPING PAINT Scrapping ordinary distemper, oil bound distemper or paint on walls. (Page No. 13, Item No. 54-b)	97,000.00	%Sft	226.88	220,073.60
15	PRIMING COAT Priming coat of chalk distemper (Page No. 53, Item No. 22)	27,000.00	%Sft	442.75	119,542.50
16	DISTEMPERING Preparing surface and painting with Distemper- 1st coat over priming coat (Page No. 53, Item No. 24-c) 3 Coats	27,000.00	%Sft	1,079.65	291,505.50
17	INTERNAL WALL PAINTING Preparing the surface and painting with matt finish including 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 (new surface). Page No. 54, Item No. 36-b. (3 Coats)	45,000.00	%Sft	3,444.38	1,549,971.00
18	WEATHER COAT 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. (Page No. 55, Item No. 38-a&b)	25,000.00	%Sft	2,567.95	641,987.50

MODERNIZATION OF GCT, SITE, KARACHI
 REPAIRING AND MAINTENANCE WORK OF **ADMIN SECTION,**
(GROND FLOOR)

BILL OF QUANTITIES

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
19	ENAMEL PAINT ON WOOD WORKS Preparing surface and painting of doors and windows any type (including edges) 3 Coats (Page No. 68, Item No. 5-C-i+ii)	7,500.00	%Sft	2,116.41	158,730.75
20	ENAMEL PAINT ON IRON WORKS Painting guard bars, gates iron bars gratings, railing including standard braces etc. and similar open work (3 Coats) Page No. 68, Item No. 4-d-ii)	7,250.00	%Sft	977.40	70,861.50
21	FALSE CEILING Supplying and fixing false ceiling of plaster of paris in panels including making frame work of deodar wood including painting with soligia paint. (Page No. 63, Item No. 52)	3,200.00	%Sft	25,293.42	809,389.44
22	SUB FLOORING				
a	4" thick - ratio (1:3:6) Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing at stone aggregate without shuttering (Page No. 15, Item No. 5-h)	10,000.00	%Cft	12,595.00	1,259,500.00
b	GLAZED TILE FLOORING Laying floors of approved coloured glazed tiles ¾" thick laid in white cement and pigment on a bed of ¾" thick cement mortar 1:2. Page No. 42, Item No. 25)	23,000.00	%Sft	27,747.06	6,381,823.80
23	GLAZED TILE DADO / SKIRTING White glazed tiles ¾" thick dado jointed in white cement and laid over 1:2 cement sand mortar ¾" thick including finishing. (Page No. 44, Item No. 37)	2,050.00	%Sft	28,253.61	579,199.01

MODERNIZATION OF GCT, SITE, KARACHI
 REPAIRING AND MAINTENANCE WORK OF **ADMIN SECTION,**
(GROND FLOOR)

BILL OF QUANTITIES

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
24	GLAZED CERAMIC TILE (BATHROOM) Laying floors of approved coloured glazed tiles ¾" thick laid in white cement and pigment on a bed of ¾" thick cement mortar 1:2. (Page No. 42, Item No. 25)	1,500.00	%Sft	27,747.06	416,205.90
25	GLAZED TILE DADO Glazed tile dado ¾" thick laid in pigment over 1:2 cement sand mortar ¾" thick including finishing. (Page No. 44, Item No. 38)	3,500.00	%Sft	28,299.30	990,475.50
26	WOODEN ARCHITRAVE Providing and fixing with sunk iron screws wooden Architrave approved design / shape having width not less than 2½ inches as directed by Engineer-in-Charge. (Page No. 65, Item No. 60)	1,440.00	Per Rft	49.97	71,956.80
27	IRON GRILL Providing and fixing iron steel grill using solid square bars of size ½" X ½" placed at 4" including and frame of flat iron patti of ¾" X ¾" including circle shape at 1-0 apart equivalent fitted with screws are pins with painting 3 coats with 1st coat of red oxide paint etc. (Page No. 93, Item No. 30)	2,510.00	Per Sft	194.16	487,341.60
28	MESH P/F G.I. expanded metal ½ - 2- gauge fixed to chowkats with ¾" deodar strips and screws. (Page No. 65, Item No. 66-A)	2,560.00	Per Sft	178.68	457,420.80
29	ROOF SCREEDING				
a	Providing and laying 3" thick topping cement concrete (1:2:4) including surface finishing and dividing into panels. (Page No. 41, Item No. 16-d)	27,000.00	%Sft	4,411.82	1,191,191.40
b	Two coats of bitumen laid hot using 34 lbs for %Sft over roof and blinded with sand at one Cft Per %Sft. (Page No. 34, Item No. 13)	42,000.00	%Sft	1,887.40	792,708.00

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(GROND FLOOR)

BILL OF QUANTITIES

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
30	ALUMINUM WINDOWS / VENTILATORS Supply & fixing Deluxe Model (Bronze) in position Aluminum channels framing for sliding windows & ventilators of Alcop made with 5mm thick tinted glass glazing (Belgium) & Aluminum fly screen including handleless stoppers & locking arrangement etc. complete (Page No. 107, Item No. 84(b))	2,600.00	Per Sft	1,318.52	3,428,152.00
Sub Total				Rs=	24,103,366.05
____ % above / below				Rs=	
Cost of Scheduled Items (Civil Work)				Rs=	

MODERNIZATION OF GCT, SITE, KARACHI
REPAIRING AND MAINTENANCE WORK OF ADMIN SECTION,
(GROND FLOOR)

BILL OF QUANTITIES

Non-Schedule Items (Civil Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
31	REMOVAL OF DEBRIS Removing of all debris and rubbish of all kinds and sizes from site including all lead and lifts as directed by the Engineer-in-Charge.	Lumpsum	Job		
32	TAKING OUT FITTINGS Taking out carefully of required all type of electrical and plumbing fitting and fixtures, air-conditioner with frame including G.I. Pipe, C.I Pipe, PVC Pipe and R.C.C Pipes etc. Complete in all respects including cutting of wall / plinth care and its repairing to original shape and specification stacking salvaged materials at site and disposing of unserviceable material by the Engineer-in-Charge upto any height and any floor.	Lum Sump	Job		
33	STONE SOLING Providing and laying soling stone 6" to 9" thick under floor including packing with spawls and chips and consolidation with compactor, watering etc. complete in all respect as per instructions of the Architect / Engineer-in-Charge.	1,000.00	P.Cft		
34	ROOM DOOR LOCKS Providing and fixing with C.P brass screws Alpha knob set lock of approved design, manufacturer, and colour, cutting wood to required shape and size with three operating keys (Taiwan make). complete in all respect as per specification & instructions of the Engineer-in-Charge.	40	Each		
35	DOOR CLOSER Providing and fixing with brass screws or specially supplied screws hydraulic door closer of approved design and manufacturer, cutting wood etc to required shape and size (Japan make). Complete in all respect as per specification and instructions of the Engineer-in-Charge.	10	Each		

MODERNIZATION OF GCT, SITE, KARACHI
 REPAIRING AND MAINTENANCE WORK OF ADMIN SECTION,
(GROND FLOOR)

BILL OF QUANTITIES

Non-Schedule Items (Civil Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
36	PLASTER PATCHES (SLAB) CRACK REPAIR Plastering 2" to 3" thick and (upto 2" wide) in patches in cement and sand mortar 1:4 including curing and scraping old damaged portion in regular shape and removal of rubbish form the site etc. complete as per direction of Engineer-in-charge in ground floor in required layers. (upto any height and any floor)	5,500.00	Per Sft		
37	PLASTER PATCHES (WALL) CRACK REPAIR Plastering ¾" to 1" thick and (upto 2" wide) in patches in cement and sand mortar 1:4 including curing and scraping old damaged portion in regular shape and removal of rubbish form the site etc. complete as per direction of Engineer-in-charge in ground floor in two layers. (upto any height and any floor)	4,500.00	Per Sft		
38	PVC RAIN DOWN PIPE Providing and fixing 3" dia polyving chloride rain water down pipe including tees, socket, bend and clamp bolts et, complete in all respect as per instruction by the Architect / Engineer. (DADEX or approved equivalent) upto any height and floor	200.00	Per Rft		
39	HANDRAILING Providing, fabricating and fixing staircase railing with 2" dia S.S. 16" handrail gauge and 1½" dia balustrade and ½" dia intermediate horizontal bars etc. complete hand railing as per detail on drawing embedded properly in RCC works. Complete in all respect as per drawings, specification and instructions of the Architect / Engineer-in-Charge.	250.00	Per Rft		

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 REPAIRING AND MAINTENANCE WORK OF **ADMIN SECTION,**
(GROND FLOOR)

BILL OF QUANTITIES

Non-Schedule Items (Civil Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
40	IRON FITTING Providing and fixing iron hinges, tower bolts, cleats, handles, alldrops etc. in repairable wooden doors, windows and ventilators wherever required as per instructions of the Architect / Engineer-in-Charge.	200	Nos		
41	C.C GOLA Providing and laying gola 3" X 3" concrete 1:2:4 using graded screened bajri at junction of slab and walls and finished with cement plaster 1:4 including curing etc. complete.	1,200.00	Rft		
42	WATER STORAGE TANK OVER ROOF Construction of storage tank over roof of the required size poured and cast in RCC 1:2:4 including formwork in all walls and slab laying 2" thick 1:4 cement concrete floor finished with neat cement slurry, ½" thick cement plaster in 1:3 cement mortar internally all using approved water proofing agent pudlo or its equivalent grade @ 5lbs/bag of cement and ¾" thick in cement plaster in 1" to 3" cement mortar externally including curing etc. 1 no. manholes opening size 18"x 18" and C.I water tight Manhole cover and frame weight 40.Kg/ each with proper locking arrangement complete all as per drawing and design including the cost of reinforcement. Complete in all respect as per instructions of the Architect / Engineer-in-Charge.	3,000.00	Per Glen		

MODERNIZATION OF GCT, SITE, KARACHI
REPAIRING AND MAINTENANCE WORK OF ADMIN SECTION,
(GROND FLOOR)

BILL OF QUANTITIES

Non-Schedule Items (Civil Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
43	UNDERGROUND STORAGE TANK Construction of Underground Water Storage Tank including excavation in all kinds of soil / rock upto required depth and laying of 12" thick stone soiling in base and laying of 1:4:8 cement concrete in foundations, poured in casted in RCC 1:1½:3 using sulphate resistant cement including formwork in base slab, 3" thick 1:4 cement concrete floor finished with neat cement slurry, ½" thick cement plaster in 1:3 cement water internally with two coat of white wash, ½" thick 1:4 cement sand external plaster mixed pudlo @ 5 lbs / bag of cement or approved water proofing agent externally painted with PB-4 @ 20lb / 100 Sft etc. Providing and fixing ¾" dia M.S. galonised rungs at every foot of rest embedded properly in walls and 1 no. man hole opening size 24" x 24" to each tank and water tight C.I Manhole Cover and Frame weight 65kg / each with proper locking arrangement, complete in all respect as per drawing and design including the cost of reinforcement complete in all respect as per instruction of the Architect / Engineer.	5,000.00	Per Glen		
Cost of Non-Schedule Item (Civil Work)				Rs=	

MODERNIZATION OF GCT, SITE, KARACHI
 REPAIRING AND MAINTENANCE WORK OF **ADMIN SECTION,**
(GROND FLOOR)

BILL OF QUANTITIES

(Plumbing Works)
 Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
44	PAKISTANI WC Providing and fixing squatting type white glazed earthen ware W.C. Pan with front flush inlet and complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls plinth and floor for pipe connection and making good in cement concrete 1:2:4 (foreign equivalent) with 4" dia C.I. Trap (Page No. 1, Item No. 2-a)	4	Each	5,728.80	22,915.20
45	Providing and fixing European white glazed earthen ware wash down W.C. Pan complete with and including the cost of white / black plastic seat (best quality) and lid with c.p. brass hinges and buffers, 3 gallons white glazed earthen ware low level flushing cistern with siphon fitting 1½" dia white porcelain enameled flush bend ¾" dia and making requisite number of holes in walls plinth and floor for pipe connections and making good in cement 1:2:4 (foreign quality) Page No. 2, Item No. 5.	2	Each	11,477.40	22,954.80
46	GULLY TRAP Providing and fixing 6" X 6" X 4" CC Gully Trap with 4" outlet complete 4" thick 1:2:4 CC for bed & ½" thick cement plaster (1:3) to the kerb, C.I. grating 6" X 6" & C.I. Cover and frame 12" X 12" (inside) etc. complete (Page No. 23, Item No. 1)	6	Each	1,193.17	7,159.02
47	NYLON CONNECTION Providing and fixing in position nylon connection complete with ½" dia brass stop cock with pair of brass nuts and lining joints and nylon connections. (CH-I, Page No. 6, Item No. 23)	8	Each	447.15	3,577.20

MODERNIZATION OF GCT, SITE, KARACHI
 REPAIRING AND MAINTENANCE WORK OF **ADMIN SECTION,**
(GROND FLOOR)

BILL OF QUANTITIES

(Plumbing Works)
 Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
48	LAVATORY BASIN Providing and fixing 24" X 18" lavatory basin in white glazed earthen ware complete with & including the cost of W.I. or C.I. cantilever brackets 6" built into walls painted white in two cats after a primary coat of red lead paint a pare of ½" dia rubber plug and chrome plated brass chain 1¼" dia 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 i/c the cost of earthen ware pedestal white or coloured glazed (foreign equivalent) Page No. 3, Item No. 10+11	6	Each	7,461.47	44,768.82
49	BATHROOM ACCESSORIES Supply and fixing Bathroom Accessories set (7 Piece) including towel rod, brush holder, soap tray, shelf of approved design including cost of screws, nuts etc. complete (Master Brand or as recommended by Engineer-in-Charge). Page No. 19, Item No. 23	6	Each	10,322.40	61,934.40
50	HANDLE VALVE Providing and fixing handle valves (china) Page No. 17, Item No. 5 (I & II)				
a	½ " dia	6	Each	200.42	1,202.52
b	¾" dia	4	Each	271.92	1,087.68
51	BIB COCKS Supply and fixing C.P. Muslim Shower with double Bib Cock and ring pipe etc. complete (Page No. 19, Item No. 19-a)	4	Each	3,432.00	13,728.00
52	TEE STOP COCKS Supply and fixing ½" dia concealed tee stop cock of superior quality with cp head (CH-VI-Page No. 18, Item No. 12-b)	4	Each	889.46	3,557.84

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BILL OF QUANTITIES

(Plumbing Works)
 Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
53	STOP COCK Supply and fixing concealed tee- stop cock of superior quality with c.p. head ½" dia (Page No. 18, Item No. 12-a)	4	Each	843.92	3,375.68
54	PILLER COCK Supplying & fixing swan type pillar cock of superior quality with crystal head ½" dia. Page No. 19, Item No. 16(b)	7	Each	877.80	6,144.60
55	LONG BIB COCK Supply and fixing long bib cock of superior quality with C.P.head ½" dia. (Page No. 19, Item No. 13a)	3	Each	877.80	2,633.40
56	MIRROR P/F 24" X 18" beveled edge mirror of Belgium glass complete with 1/8" thick hard board and c.p.screws fixed to wooden pleat. (Standard Pattern) Page No. 7, Item No. 3-a)	2	Each	1,711.60	3,423.20
57	MANHOLE Constructing manhole or inspection chamber for the required diameter of circular sewer and 3'-6" (1067 mm) depth with walls of BB in cement sand mortar 1:3 cement plastered 1:3, ½" thick inside of walls and 1" thick over benching and channel including fixing C.I.Mahole cover with frame of clear opening 1-½' X 1-½' of 1.75 cwt. (88.9 kg) embedded in plain CC 1:2:4 and fixing ½" dia MS steps 6" wide projecting 4" from the face of wall at 12" CC duly painted etc. complete as per standard specifications and drawing. (4" to 12" dia 2' X 2' X 3'-6") Page No. CH-II, Page No. 46, Item No. P-a.	4	Each	14,748.00	58,992.00
Sub Total				Rs=	257,454.36
_____ % below / above				Rs=	
Cost of Plumbing Work (Scheduled Items)				Rs=	

MODERNIZATION OF GCT, SITE, KARACHI
REPAIRING AND MAINTENANCE WORK OF ADMIN SECTION,
(GROND FLOOR)

BILL OF QUANTITIES

Non-Schedule Items (Plumbing Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
58	PPRC PIPES Providing and fixing PPRC Pipes and bend, elbow, tee & specials, etc.; including fixing, cutting and fitting, complete with and including the cost of cutting trench upto 2'-6" feet deep, refilling watering, ramming and disposal of surplus earth within one chain and painting 2 coats of bitumen paint to pipes and specials after cleaning and hessian cloth soaked in maxphalt composition wrapped tightly round the pipes and testing to a pressure head of 200 feet and cartage within 10 miles (16.09 km).				
a	Do. Do ½ inch (12 mm) Dia Pipe.	1,550.00	P.Rft		
b	Do. Do ¾ inch (20 mm) Dia Pipe.	1,120.00	P.Rft		
c	Do. Do 1 inch (25 mm) Dia Pipe.	1,050.00	P.Rft		
d	Do. Do 1¼ inch (32 mm) Dia Pipe.	837.73	Rft		
e	Do. Do. 2 inch (50 mm) dia pipe.	810.00	Rft		
59	UPVC PIPES FOR DRAIN Providing and fixing un plastized polyvinyl chloride pipe 8 inch dia (P.V.C) 'B' class and bend, tee, elbow specials etc. including cutting and fitting complete with and including the cost of cutting trench upto 1½ feet deep refilling, watering, ramming and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 km.) (working pressure 12 kg/cm²).	250.00	P.Rft		
60	3" DIA NON RETURN VALVE Providing & fixing 1½" dia non return valve. Complete in all respect as per instructions of the Engineer-in-Charge.	2	Each		

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(GROND FLOOR)

BILL OF QUANTITIES

Non-Schedule Items (Plumbing Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
61	u.P.V.C PIPE Providing and fixing un polyvinyl chloride pipe (P.V.C) "E" Class and tee, bend & elbow specials etc. including cutting and fitting, complete with and including the cost of trench upto 1-1/2 feet deep refilling, watering, ramming, and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (working pressure 12 kg/cm ²)				
a	Do. Do. 3 inches (75 mm) dia pipe	500.00	Rft		
b	Do. Do. 4 inches (100 mm) dia pipe	500.00	Rft		
62	MONO BLOCK PUMPING SET Providing and fixing mono block pumping set complete with ½ HP pump 2800 RPM complete with AC 220 V single phase motor on a common base plate having suction & discharge 1" X 1" and 40' head as approved including excavation, cast of RC foundation in ratio 1:2:4 S.R.C fairface including supply and installation of foundation bolts and nuts etc. of required dia meter. Complete in all respect as per instructions of the Engineer-in-Charge.	2	Each		
63	3" DIA NON RETURN VALVE Providing & fixing 1½" dia non return valve. Complete in all respect as per instructions of the Engineer-in-Charge.	2	Each		
Cost of Plumbing Works				Rs=	

MODERNIZATION OF GCT, SITE, KARACHI
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(GROND FLOOR)

BILL OF QUANTITIES

(Electrical Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
64	WIRING FOR LIGHT / FAN Wiring for light or fan point with 3/.029 PVC insulated wire in 20 mm (3/4") PVC conduit recessed in the wall or column as required.(Page No. 15, Item No. 124)	170.00	Per Point	1,130.00	192,100.00
65	WIRING FOR PLUG POINT Wiring for Plug point with 3/.029 PVC insulated wire in 20 mm (3/4") PVC conduit recessed in the wall or column as required.(Page No. 15, Item No. 125)	30.00	Per Point	669.00	20,070.00
66	CEILING ROSE Providing and fixing bakelite ceiling rose with two terminals (Page No. 330, Item No. B-228)	30	Each	72.00	2,160.00
67	CEILING FAN Providing and fixing brass ceiling fan 56" i/c Fan Clamp good and best approved quality locally manufactured sweep ceiling fans complete with required down rod, blades, flexible cord PVC / PVC required to connect the fan etc. (Page No. 34, Item No. C-235)	65	Each	3,185.00	207,025.00
68	WIRING FOR LIGHT CIRCUIT Providing & Laying (Main or Sub Main) PVC insulated with size 2-3/.036 copper conductor wire in ¾" dia PVC conduit on surface. (Page No. 1, Item No. 2)	300.00	Per Meter	139.00	41,700.00
69	MAIN / SUB MAIN Providing and laying (MAIN or SUB MAIN) PVC insulated with size 2-7/044 copper conductor in 1" dia PVC conduit on surface. (Page No. 1, Item No. 5)	150.00	Per Meter	305.00	45,750.00
70	Providing and laying (MAIN or SUB MAIN) PVC insulated with size 2-7/064 (16 mm ²) copper conductor in 1" dia PVC conduit recessed in the wall. (Page No. 2, Item No. 14)	20.00	Per Meter	641.00	12,820.00

MODERNIZATION OF GCT, SITE, KARACHI
REPAIRING AND MAINTENANCE WORK OF ADMIN SECTION,
(GROND FLOOR)

BILL OF QUANTITIES

(Electrical Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
71	Providing and fixing one way SP 5 amp switch flush type (Page No. 330, Item No. 219)	170	Each	54.00	9,180.00
72	Providing and fixing 3 pin way 5 amp plug & socket flush type (Page No. 330, Item No. 223)	30	Each	91.00	2,730.00
73	Providing and fixing 3 pin 10/15 amp plug & socket flush type (Page No. 330, Item No. 224)	15	Each	151.00	2,265.00
74	Providing and fixing circuit breaker 6,10,15,20,30,40,50,&63 amps DP (TB-55)on prepared board as required. (Page No. 31/204)	35	Each	2,456.00	85,960.00
Sub Total				Rs=	621,760.00
_____ above / below				Rs=	
Cost of Electrical Work (Scheduled Items)				Rs=	

MODERNIZATION OF GCT, SITE, KARACHI
 REPAIRING AND MAINTENANCE WORK OF **ADMIN SECTION,**
(GROND FLOOR)

BILL OF QUANTITIES

NSI - Electrical Works

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
75	EXHAUST FAN Supply & Installation of 8" dia plastic body exhaust fan including all civil works required for complete installation and including all labour and materials as required. Complete in all respect as per instructions of Engineer-in-Charge.	3	Each		
76	Providing & fixing Cubical type metal sheet Distribution board with locking arrangement as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required.	30	Per Sft		
77	FAN DIMMER Providing & fixing polycarbonate flame retardant fan dimmer with plate fixed on existing board recessed in wall or column including connection as required. Complete in all respect as per instructions of Engineer-in-Charge.	115	Each		
78	FAN CLAMP BOX Providing & fixing 75 mm X 100 mm X 113 mm size (14SWG) thick recessed type fan clamp box 13 mm dia MS bar fan clamp fixed in roof at casting time as required. Complete in all respect as per instructions of Engineer-in-Charge.	18	Each		

MODERNIZATION OF GCT, SITE, KARACHI
REPAIRING AND MAINTENANCE WORK OF ADMIN SECTION,
(GROND FLOOR)

BILL OF QUANTITIES

NSI - Electrical Works

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
79	LIGHTING Providing and fixing following light and light fixtures. Complete in all respect as per drawing, design, specification and instructions of the Engineer-in-Charge. (all lighting and fixtures should be Philips make or equivalent) Complete in all respect as per instructions of Engineer-in-Charge.				
a	LED 18W 10" size square / round	200	Each		
b	LED 10 W, 6" size square / round	20	Each		
c	LED Tube Light 4', 18 W	10	Each		
80	ELECTRIC WATER COOLER Providing and fixing of electric water cooler totally rust proof, pressure type with stainless steel body as manufactured by MECO including 3 stage water filter (mabzi or equivalent) as approved by the Engineer.	3	Each		
81	EARTHING SET Providing and fixing earthing set with 600 mm X 600 mm X 6 mm copper plate buried in the ground at a depth of 3.6 m or less if water come out from the ground level (with salt and charcoal, or earth chemical powder) etc., making the pit 3.6 m feet deep by excavation of all type of soil (except soft or hard rock) including fixing of 8 SWG copper wire in 13 mm GI pipe. Complete in all respect as per instructions of Engineer-in-Charge.	5	Job		
Cost of Electrical Work				Rs=	

MODERNIZATION OF GCT, SITE KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****SUMMARY OF COST**

S #	SUB HEAD	TOTAL AMOUNT
1	Cost of Civil Work (Scheduled Items) (Page No. 23 - 28)	Rs=
2	Cost of Civil Work (Non-Scheduled Items) (Page No. 29 - 32)	Rs=
	(A)	Rs=
3	Cost of Plumbing Work (Scheduled Items) (Page No. 33 - 35)	Rs=
4	Cost of Plumbing Work (NSI) (Page No. 36 - 37)	Rs=
	(B)	Rs=
5	Cost of Electrical Work (Scheduled Items) (Page No. 38 - 39)	Rs=
6	Cost of Electrical Work (NSI) (Page No. 40 - 41)	Rs=
	(C)	Rs=
Total Cost of Work (A+B+C)=		Rs=

The Director (Works & Services)

Dated: _____

Contractor's Signature with Stamp

Dated: _____

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	REMOVAL OF PLASTER Removing cement or lime plaster. (Page No. 13, Item No. 33)	15,000.00	%Sft	121.00	18,150.00
2	DISMANTLING Dismantling glazed or encaustic tiles etc. (Page No. 13, Item No. 55)	23,350.00	%Sft	786.50	183,647.75
3	Dismantling cement concrete plain 1:2:4 (Page No. 10, Item No. 19-c)	10,000.00	%Cft	3,327.50	332,750.00
4	Dismantling cement concrete reinforcement separating reinforcement from concrete cleaning and straightening the same. (Page No. 10, Item No. 20)	3,000.00	%Cft	5,445.00	163,350.00
5	REMOVING DOORS Removing doors with chowket (Page No. 12, Item No. 33-a)	25	Each	142.18	3,554.50
6	REMOVING WINDOW Removing window and sky light with chowket (Page No. 12, Item No. 33-b)	60	Each	102.85	6,171.00
	<u>PLINTH PROTECTION</u>				
7	EXCAVATION IN FOUNDATION Excavation in Ordinary Soil in foundation of Building Bridges and other structures including dabbiling dressing, refilling around structure with excavated earth watering and ramming lead upto 5 ft. (Page No. 4, Item No. 18-b)	2,000.00	%0Cft	3,176.25	6,352.50
a	Cement concrete plain including placing compacting, finishing and curing complete (including screining and washing at stone aggregate without shuttering (Page No. 15, Item No. 5)				
b	Ratio 1:4:8	1,050.00	%Cft	11,288.75	118,531.88
c	Ratio 1:3:6	1,050.00	%Cft	12,595.00	132,247.50

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION****BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
d	¾" thick Cement Plaster 1:4 upto 12' height. (Page No. 51, Item No. 11-c)	10,000.00	%Sft	3,015.76	301,576.00
8	RCC WORK 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) Page No. 15. Item No. 6. 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. Trenches - Ratio (1:2:4) 90 lbs cement 2 cft sand 4 cft shingle ¾" to ¾" gauge.	3,000.00	Per Cft	337.00	1,011,000.00
9	STEEL REINFORCEMENT Fabrication of mild steel reinforcement using Tor Bars for cement concrete including cutting, bending, laying in position making joints and fastenings including cost of binding wire (also includes removal of rust from bars) Page No. 16, Item No. 8-b.	5.00	Per Cwt	5,001.70	25,008.50
10	SUB FLOORING 4" thick - ratio (1:3:6) Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing at stone aggregate without shuttering (Page No. 15, Item No. 5-h)	35,550.00	%Cft	12,595.00	4,477,522.50
11	FINISH FLOORING Providing and laying 3" thick topping cement concrete (1:2:4) including surface finishing and dividing into panels. (Page No. 41, Item No. 16-d)	35,550.00	%Sft	4,411.82	1,568,402.01

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
12	G.I.FRAMES FOR DOOR Providing and fixing G.I. Frames / Choukhats of size 7" X 2" or 4½ X 3" for door using 20 gauge G.I. sheet including welded hinges and fixing at site with necessary hold fasts, filing with cement sand slurry of ratio 1:6 and repairing the jambs. The cost also includes all carriage tools and plants used in making and fixing. (Page No. 92, Item No. 29)	600.00	Per Rft	228.90	137,340.00
13	DOOR & WINDOW First class deodar wood wrought, joinery in doors and windows etc. fixed in position including chowkats hold fasts hinges, iron tower bolts, chocks cleats handles and cords with hooks, etc. (Page No. 57, Item No. 7b) Rate of Door: Rs. 1,227.36 - G.I. Frame Rs. 228.90 = Door & Windows (Rs. 998.46)	650.00	Per Sft	998.46	648,999.00
14	SURFACE RENDERING Cement Plaster 1:5 upto 12' height				
a	½" thick <u>Internal Wall Plaster</u> (Page No. 51, Item No. 12-b)	35,000.00	%Sft	2,241.80	784,630.00
b	¾" thick <u>External Wall Plaster</u> (Page No. 51, Item No. 12-c)	16,000.00	%Sft	2,678.50	428,560.00
15	GLASS PANES Glazing with panes (24 oz to 26 oz.) using putty and deodar wooden 1st class fillets. (Page No. 63, Item No. 46)	1,000.00	Per Sft	163.90	163,900.00
16	SCRAPPING PAINT Scrapping ordinary distemper, oil bound distemper or paint on walls. (Page No. 13, Item No. 54-b)	75,000.00	%Sft	226.88	170,160.00
17	PRIMING COAT Priming coat of chalk distemper (Page No. 53, Item No. 22)	24,000.00	%Sft	442.75	106,260.00

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
18	DISTEMPERING Preparing surface and painting with Distemper- 1st coat over priming coat (Page No. 53, Item No. 24-c) 3 Coats	24,000.00	%Sft	1,079.65	259,116.00
19	INTERNAL WALL PAINTING Preparing the surface and painting with matt finish including 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 (new surface). Page No. 54, Item No. 36-b. (3 Coats)	35,000.00	%Sft	3,444.38	1,205,533.00
20	WEATHER COAT 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. (Page No. 55, Item No. 38-a&b)	16,000.00	%Sft	2,567.95	410,872.00
21	ENAMEL PAINT ON WOOD WORKS Preparing surface and painting of doors and windows any type (including edges) 3 Coats (Page No. 68, Item No. 5-C-i+ii)	1,500.00	%Sft	2,116.41	31,746.15
22	ENAMEL PAINT ON IRON WORKS Painting guard bars, gates iron bars gratings, railing including standard braces etc. and similar open work (3 Coats) Page No. 68, Item No. 4-d-ii)	5,000.00	%Sft	977.40	48,870.00
23	FALSE CEILING Supplying and fixing false ceiling of plaster of paris in panels including making frame work of deodar wood including painting with soligia paint. (Page No. 63, Item No. 52)	2,200.00	%Sft	25,293.42	556,455.24

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
24	GLAZED TILE FLOORING Laying floors of approved coloured glazed tiles ¼" thick laid in white cement and pigment on a bed of ¾" thick cement mortar 1:2. (Page No. 42, Item No. 25)	8,000.00	%Sft	27,747.06	2,219,764.80
25	GLAZED TILE DADO / SKIRTING White glazed tiles ¼" thick dado jointed in white cement and laid over 1:2 cement sand mortar ¾" thick including finishing. (Page No. 44, Item No. 37)	2,050.00	%Sft	28,253.61	579,199.01
26	GLAZED CERAMIC TILE (BATHROOM) Laying floors of approved coloured glazed tiles ¼" thick laid in white cement and pigment on a bed of ¾" thick cement mortar 1:2. (Page No. 42, Item No. 25)	850.00	%Sft	27,747.06	235,850.01
27	GLAZED TILE DADO Glazed tile dado ¼" thick laid in pigment over 1:2 cement sand mortar ¾" thick including finishing. (Page No. 44, Item No. 38)	1,500.00	%Sft	28,299.30	424,489.50
28	WOODEN ARCHITRAVE Providing and fixing with sunk iron screws wooden Architrave approved design / shape having width not less than 2½ inches as directed by Engineer-in-Charge. (Page No. 65, Item No. 60)	1,440.00	Per Rft	49.97	71,956.80
29	IRON GRILL Providing and fixing iron steel grill using solid square bars of size ½" X ½" placed at 4" including and frame of flat iron patti of ¾" X ¾" including circle shape at 1-0 apart equivalent fitted with screws are pins with painting 3 coats with 1st coat of red oxide paint etc. (Page No. 93, Item No. 30)	5,000.00	Per Sft	194.16	970,800.00

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
30	MESH				
a	P/F G.I. expanded metal $\frac{1}{8}$ - 2- gauge fixed to chowkats with $\frac{3}{4}$ " deodar strips and screws. (Page No. 65, Item No. 66-A)	4,000.00	Per Sft	178.68	714,720.00
b	ALUMINUM WINDOWS / VENTILATORS Supply & fixing Deluxe Model (Bronze) in position Aluminum channels framing for sliding windows & ventilators of Alcop made with 5mm thick tinted glass glazing (Belgium) & Aluminum fly screen including handleless stoppers & locking arrangement etc. complete (Page No. 107, Item No. 84(b))	2,200.00	Per Sft	1,318.52	2,900,744.00
31	ROOF SCREEDING				
a	Providing and laying 3" thick topping cement concrete (1:2:4) including surface finishing and dividing into panels. (Page No. 41, Item No. 16-d)	24,000.00	%Sft	4,411.82	1,058,836.80
b	Two coats of bitumen laid hot using 34 lbs for %Sft over roof and blinded with sand at one Cft Per %Sft. (Page No. 34, Item No. 13)	39,000.00	%Sft	1,887.40	736,086.00
Sub Total				Rs=	23,213,152.44
____ % above / below				Rs=	
Cost of Scheduled Items (Civil Work)				Rs=	

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

Non-Schedule Items (Civil Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
32	REMOVAL OF DEBRIS Removing of all debris and rubbish of all kinds and sizes from site including all lead and lifts as directed by the Engineer-in-Charge.	Lumpsum	Job		
33	TAKING OUT FITTINGS Taking out carefully of required all type of electrical and plumbing fitting and fixtures, air-conditioner with frame including G.I. Pipe, C.I Pipe, PVC Pipe and R.C.C Pipes etc. Complete in all respects including cutting of wall / plinth care and its repairing to original shape and specification stacking salvaged materials at site and disposing of unserviceable material by the Engineer-in-Charge upto any height and any floor.	Lum Sump	Job		
34	STONE SOLING Providing and laying soling stone 6" to 9" thick under floor including packing with spawls and chips and consolidation with compactor, watering etc. complete in all respect as per instructions of the Architect / Engineer-in-Charge.	1,300.00	P.Cft		
35	ROOM DOOR LOCKS Providing and fixing with C.P brass screws Alpha knob set lock of approved design, manufacturer, and colour, cutting wood to required shape and size with three operating keys (Taiwan make). complete in all respect as per specification & instructions of the Engineer-in-Charge.	60	Each		
36	DOOR CLOSER Providing and fixing with brass screws or specially supplied screws hydraulic door closer of approved design and manufacturer, cutting wood etc to required shape and size (Japan make). Complete in all respect as per specification and instructions of the Engineer-in-Charge.	25	Each		

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

Non-Schedule Items (Civil Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
37	PLASTER PATCHES (SLAB) CRACK REPAIR Plastering 2" to 3" thick in patches in cement and sand mortar 1:4 including curing and scraping old damaged portion in regular shape and removal of rubbish form the site etc. complete as per direction of Engineer-in-charge in ground floor in required layers. (upto any height and any floor)	3,150.00	Per Sft		
38	PLASTER PATCHES (WALL) Plastering ¾" to 1" thick in patches in cement and sand mortar 1:4 including curing and scraping old damaged portion in regular shape and removal of rubbish form the site etc. complete as per direction of Engineer-in-charge in ground floor in two layers. (upto any height and any floor)	5,200.00	Per Sft		
39	PVC RAIN DOWN PIPE Providing and fixing 3" dia polyving chloride rain water down pipe including tees, socket, bend and clamp bolts et, complete in all respect as per instruction by the Architect / Engineer. (DADEX or approved equivalent) upto any height and floor	350.00	Per Rft		
40	HANDRAILING Providing, fabricating and fixing staircase railing with 2" dia S.S. 16" handrail gauge and 1½" dia balustrade and ½" dia intermediate horizontal bars etc. complete hand railing as per detail on drawing embedded properly in RCC works. Complete in all respect as per drawings, specification and instructions of the Architect / Engineer-in-Charge.	65.00	Per Rft		
41	IRON FITTING Providing and fixing iron hinges, tower bolts, cleats, handles, alldrops etc. in repairable wooden doors, windows and ventilators wherever required as per instructions of the Architect / Engineer-in-Charge.	100	Nos		

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

Non-Schedule Items (Civil Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
42	C.C GOLA				
a	Providing and laying gola 3" X 3" concrete 1:2:4 using graded screened bajri at junction of slab and walls and finished with cement plaster 1:4 including curing etc. complete.	750.00	Rft		
b	Repairing of Sky light windows fixed on roof as replacing of glass, welding of section, painting, hardware fitting with complete accessories. Making the good as required at site. Complete in all respect as per instructions of the Engineer-in-Charge. (upto any height and any floor)	Lumpsum	Job		
c	REPLACEMENT & FIXING GLASS Replacing, Providing and fixing 5mm thick imported (best quality) plain / tinted glass wherever required with iron nails and putty etc. Complete in all respect at any height and any floor including the cost of beading as shown on the drawing.	1,500.00	Sft		
43	WATER STORAGE TANK OVER ROOF Construction of storage tank over roof of the required size poured and cast in RCC 1:2:4 including formwork in all walls and slab laying 2" thick 1:4 cement concrete floor finished with neat cement slurry, ½" thick cement plaster in 1:3 cement mortar internally all using approved water proofing agent pudlo or its equivalent grade @ 5lbs/bag of cement and ¾" thick in cement plaster in 1" to 3" cement mortar externally including curing etc. 1 no. manholes opening size 18"x 18" and C.I water tight Manhole cover and frame weight 40.Kg/ each with proper locking arrangement complete all as per drawing and design including the cost of reinforcement. Complete in all respect as per instructions of the Architect / Engineer-in-Charge.	1,000.00	Per Glen		

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

Non-Schedule Items (Civil Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
44	UNDERGROUND STORAGE TANK Construction of Underground Water Storage Tank including excavation in all kinds of soil / rock upto required depth and laying of 12" thick stone soiling in base and laying of 1:4:8 cement concrete in foundations, poured in casted in RCC 1:1½:3 using sulphate resistant cement including formwork in base slab, 3" thick 1:4 cement concrete floor finished with neat cement slurry, ½" thick cement plaster in 1:3 cement water internally with two coat of white wash, ½" thick 1:4 cement sand external plaster mixed pudlo @ 5 lbs / bag of cement or approved water proofing agent externally painted with PB-4 @ 20lb / 100 Sft etc. Providing and fixing ½" dia M.S. galonised rungs at every foot of rest embedded properly in walls and 1 no. man hole opening size 24" x 24" to each tank and water tight C.I Manhole Cover and Frame weight 65kg / each with proper locking arrangement, complete in all respect as per drawing and design including the cost of reinforcement complete in all respect as per instruction of the Architect / Engineer.	2,000.00	Per Glen		
Cost of Non-Schedule Item (Civil Work)				Rs=	

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

(Plumbing Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
45	PAKISTANI WC Providing and fixing squatting type white glazed earthen ware W.C. Pan with front flush inlet and complete with including the cost of flushing cistern with internal fitting and flush pipe with bend and making requisite number of holes in walls plinth and floor for pipe connection and making good in cement concrete 1:2:4 (foreign equivalent) with 4" dia C.I. Trap (Page No. 1, Item No. 2-a)	2	Each	5,728.80	11,457.60
46	Providing and fixing European white glazed earthen ware wash down W.C. Pan complete with and including the cost of white / black plastic seat (best quality) and lid with c.p. brass hinges and buffers, 3 gallons white glazed earthen ware low level flushing cistern with siphon fitting 1½" dia white porcelain enameled flush bend ¾" dia and making requisite number of holes in walls plinth and floor for pipe connections and making good in cement 1:2:4 (foreign quality) Page No. 2, Item No. 5.	2	Each	11,477.40	22,954.80
47	GULLY TRAP Providing and fixing 6" X 6" X 4" CC Guly Trap with 4" outlet complete 4" thick 1:2:4 CC for bed & ½" thick cement plaster (1:3) to the kerb, C.I. grating 6" X 6" & C.I. Cover and frame 12" X 12" (inside) etc. complete (Page No. 23, Item No. 1)	4	Each	1,193.17	4,772.68
48	NYLON CONNECTION Providing and fixing in position nylon connection complete with ½" dia brass stop cock with pair of brass nuts and lining joints and nylon connections. (CH-I, Page No. 6, Item No. 23)	4	Each	447.15	1,788.60

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

(Plumbing Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
49	LAVATORY BASIN Providing and fixing 24" X 18" lavatory basin in white glazed earthen ware complete with & including the cost of W.I. or C.I. cantilever brackets 6" built into walls painted white in two cats after a primary coat of red lead paint a pare of ½" dia rubber plug and chrome plated brass chain 1¼" dia 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 i/c the cost of earthen ware pedestal white or coloured glazed (foreign equivalent) Page No. 3, Item No. 10+11	4	Each	7,461.47	29,845.88
50	BATHROOM ACCESSORIES Supply and fixing Bathroom Accessories set (7 Piece) including towel rod, brush holder, soap tray, shelf of approved design including cost of screws, nuts etc. complete (Master Brand or as recommended by Engineer-in-Charge). Page No. 19, Item No. 23	4	Each	10,322.40	41,289.60
51	HANDLE VALVE Providing and fixing handle valves (china) Page No. 17, Item No. 5 (I & II)				
a	½ " dia	6	Each	200.42	1,202.52
b	¾" dia	4	Each	271.92	1,087.68
52	BIB COCKS Supply and fixing C.P. Muslim Shower with double Bib Cock and ring pipe etc. complete (Page No. 19, Item No. 19-a)	6	Each	3,432.00	20,592.00
53	TEE STOP COCKS Supply and fixing ½" dia concealed tee stop cock of superior quality with cp head (CH-VI-Page No. 18, Item No. 12-b)	6	Each	889.46	5,336.76

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

(Plumbing Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
54	STOP COCK Supply and fixing concealed tee- stop cock of superior quality with c.p. head ½" dia (Page No. 18, Item No. 12-a)	6	Each	843.92	5,063.52
55	PILLER COCK Supplying & fixing swan type piller cock of superior quality with crystal head ½" dia. Page No. 19, Item No. 16(b)	5	Each	877.80	4,389.00
56	LONG BIB COCK Supply and fixing long bib cock of superior quality with C.P.head ½" dia. (Page No. 19, Item No. 13a)	5	Each	877.80	4,389.00
57	MIRROR P/F 24" X 18" beveled edge mirror of Belgium glass complete with 1/8" thick hard board and c.p.screws fixed to wooden pleat. (Standard Pattern) Page No. 7, Item No. 3-a)	2	Each	1,711.60	3,423.20
58	MANHOLE Constructing manhole or inspection chamber for the required diameter of circular sewer and 3'-6" (1067 mm) depth with walls of BB in cement sand mortar 1:3 cement plastered 1:3, ½" thick inside of walls and 1" thick over benching and channel including fixing C.I.Mahole cover with frame of clear opening 1-½' X 1-½' of 1.75 cwt. (88.9 kg) embedded in plain CC 1:2:4 and fixing 4" dia MS steps 6" wide projecting 4" from the face of wall at 12" CC duly painted etc. complete as per standard specifications and drawing. (4" to 12" dia 2' X 2' X 3'-6") Page No. CH-II, Page No. 46, Item No. P-a.	4	Each	14,748.00	58,992.00
Sub Total				Rs=	216,584.84
_____ % below / above				Rs=	
Cost of Plumbing Work (Scheduled Items)				Rs=	

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

Non-Schedule Items (Plumbing Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
59	PPRC PIPES Providing and fixing PPRC Pipes and bend, elbow, tee & specials, etc.; including fixing, cutting and fitting, complete with and including the cost of cutting trench upto 2'-6" feet deep, refilling watering, ramming and disposal of surplus earth within one chain and painting 2 coats of bitumen paint to pipes and specials after cleaning and hessian cloth soaked in maxphalt composition wrapped tightly round the pipes and testing to a pressure head of 200 feet and cartage within 10 miles (16.09 km).				
a	Do. Do ½ inch (12 mm) Dia Pipe.	1,050.00	P.Rft		
b	Do. Do ¾ inch (20 mm) Dia Pipe.	990.00	P.Rft		
c	Do. Do 1 inch (25 mm) Dia Pipe.	850.00	P.Rft		
d	Do. Do 1¼ inch (32 mm) Dia Pipe.	710.00	Rft		
e	Do. Do. 2 inch (50 mm) dia pipe.	696.00	Rft		
60	UPVC PIPES FOR DRAIN Providing and fixing un plastized polyvinyl chloride pipe 8 inch dia (P.V.C) 'B' class and bend, tee, elbow specials etc. including cutting and fitting complete with and including the cost of cutting trench upto 1½ feet deep refilling, watering, ramming and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (16.09 km.) (working pressure 12 kg/cm²).	130.00	Rft		
61	3" DIA NON RETURN VALVE Providing & fixing 1½" dia non return valve. Complete in all respect as per instructions of the Engineer-in-Charge.	1	Each		

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

Non-Schedule Items (Plumbing Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
62	u.P.V.C PIPE Providing and fixing un polyvinyl chloride pipe (P.V.C) "E" Class and tee, bend & elbow specials etc. including cutting and fitting, complete with and including the cost of trench upto 1-1/2 feet deep refilling, watering, ramming, and disposal of surplus earth within one chain and after cleaning the pipe and cartage within 10 miles (working pressure 12 kg/cm ²)				
a	Do. Do. 3 inches (75 mm) dia pipe	80.00	Rft		
b	Do. Do. 4 inches (100 mm) dia pipe	75.00	Rft		
63	MONO BLOCK PUMPING SET Providing and fixing mono block pumping set complete with ½ HP pump 2800 RPM complete with AC 220 V single phase motor on a common base plate having suction & discharge 1" X 1" and 40' head as approved including excavation, cast of RC foundation in ratio 1:2:4 S.R.C fairface including supply and installation of foundation bolts and nuts etc. of required dia meter. Complete in all respect as per instructions of the Engineer-in-Charge.	1	Each		
Cost of Plumbing Works				Rs=	

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

(Electrical Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
64	WIRING FOR LIGHT / FAN Wiring for light or fan point with 3/.029 PVC insulated wire in 20 mm (3/4") PVC conduit recessed in the wall or column as required.(Page No. 15, Item No. 124)	170.00	Per Point	1,130.00	192,100.00
65	WIRING FOR PLUG POINT Wiring for Plug point with 3/.029 PVC insulated wire in 20 mm (3/4") PVC conduit recessed in the wall or column as required.(Page No. 15, Item No. 125)	20.00	Per Point	669.00	13,380.00
66	CEILING ROSE Providing and fixing bakelite ceiling rose with two terminals (Page No. 330, Item No. B-228)	30	Each	72.00	2,160.00
67	CEILING FAN Providing and fixing brass ceiling fan 56" i/c Fan Clamp good and best approved quality locally manufactured sweep ceiling fans complete with required down rod, blades, flexible cord PVC / PVC required to connect the fan etc. (Page No. 34, Item No. C-235)	50	Each	3,185.00	159,250.00
68	WIRING FOR LIGHT CIRCUIT Providing & Laying (Main or Sub Main) PVC insulated with size 2-3/.036 copper conductor wire in ¾" dia PVC conduit on surface. (Page No. 1, Item No. 2)	100.00	Per Meter	139.00	13,900.00
69	MAIN / SUB MAIN Providing and laying (MAIN or SUB MAIN) PVC insulated with size 2-7/044 copper conductor in 1" dia PVC conduit on surface. (Page No. 1, Item No. 5)	200.00	Per Meter	305.00	61,000.00
70	Providing and laying (MAIN or SUB MAIN) PVC insulated with size 2-7/064 (16 mm ²) copper conductor in 1" dia PVC conduit recessed in the wall. (Page No. 2, Item No. 14)	50.00	Per Meter	641.00	32,050.00

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

(Electrical Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
71	Providing and fixing one way SP 5 amp switch flush type (Page No. 330, Item No. 219)	170	Each	54.00	9,180.00
72	Providing and fixing 3 pin way 5 amp plug & socket flush type (Page No. 330, Item No. 223)	20	Each	91.00	1,820.00
73	Providing and fixing 3 pin 10/15 amp plug & socket flush type (Page No. 330, Item No. 224)	10	Each	151.00	1,510.00
74	Providing and fixing circuit breaker 6,10,15,20,30,40,50,&63 amps DP (TB-55)on prepared board as required. (Page No. 31/204)	45	Each	2,456.00	110,520.00
Sub Total				Rs=	596,870.00
_____ above / below				Rs=	
Cost of Electrical Work (Scheduled Items)				Rs=	

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

NSI - Electrical Works

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
75	EXHAUST FAN Supply & Installation of 8" dia plastic body exhaust fan including all civil works required for complete installation and including all labour and materials as required. Complete in all respect as per instructions of Engineer-in-Charge.	4	Each		
76	Providing & fixing Cubical type metal sheet Distribution board with locking arrangement as per drawing ,vermin protected duly powder coated paint i/c all fastening material including wiring with suitable gauge PVC x PVC wire complete as required.	14	Per Sft		
77	FAN DIMMER Providing & fixing polycarbonate flame retardant fan dimmer with plate fixed on existing board recessed in wall or column including connection as required. Complete in all respect as per instructions of Engineer-in-Charge.	50	Each		
78	FAN CLAMP BOX Providing & fixing 75 mm X 100 mm X 113 mm size (14SWG) thick recessed type fan clamp box 13 mm dia MS bar fan clamp fixed in roof at casting time as required. Complete in all respect as per instructions of Engineer-in-Charge.	15	Each		
79	LIGHTING Providing and fixing following light and light fixtures. Complete in all respect as per drawing, design, specification and instructions of the Engineer-in-Charge. (all lighting and fixtures should be Philips make or equivalent) Complete in all respect as per instructions of Engineer-in-Charge.				
a	LED 18W 10" size square / round	105	Each		
b	LED 10 W, 6" size square / round	20	Each		
c	LED Tube Light 4', 18 W	6	Each		

MODERNIZATION OF GCT, SITE, KARACHI**REPAIRING AND MAINTENANCE WORK OF POWER SECTION,****BILL OF QUANTITIES**

NSI - Electrical Works

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
80	ELECTRIC WATER COOLER Providing and fixing of electric water cooler totally rust proof, pressure type with stainless steel body as manufactured by MECO including 3 stage water filter (mabzi or equivalent) as approved by the Engineer.	2	Each		
81	EARTHING SET Providing and fixing earthing set with 600 mm X 600 mm X 6 mm copper plate buried in the ground at a depth of 3.6 m or less if water come out from the ground level (with salt and charcoal, or earth chemical powder) etc., making the pit 3.6 m feet deep by excavation of all type of soil (except soft or hard rock) including fixing of 8 SWG copper wire in 13 mm GI pipe. Complete in all respect as per instructions of Engineer-in-Charge.	1	Job		
Cost of Electrical Work				Rs=	