

Proposed GVTC Building in Manchur, Bhirya City, District Naushehro Feroze

Grand Summary of Cost

S #	SUB HEAD	TOTAL AMOUNT
1	Cost of Proposed New Construction (Page No. 02 - 20)	Rs=
2	Cost of Proposed New Compound Wall (Page No. 21 - 25)	Rs=
3	Cost of External Development Work (Page No. 26 - 29)	Rs=
Total Cost of Work		Rs=

The Director (Works & Services)

Dated: _____

Contractor's Signature with Stamp

Dated: _____

Proposed GVTC Building in Manchur, Bhirya City, District Naushehro Feroze

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 (Non-Scheduled Items) (Page No. 09 - 11)	Rs= _____
	(A)	Rs=
3	Cost of Plumbing Work (Scheduled Items) (Page No. 12 - 14)	Rs=
4	Cost of Plumbing Work (Non-Scheduled Items) (Page No. 15 - 16)	Rs= _____
	(B)	
5	Cost of Electrical Work (Scheduled Items) (Page No. 17 - 18)	Rs=
6	Cost of Electrical Work (Non-Scheduled Items) (Page No. 19 - 20)	Rs= _____
	(C)	
Total Cost of Work (A+B+C)=		Rs=

The Director (Works & Services)

Dated: _____

Contractor's Signature with Stamp

Dated: _____

Proposed New Construction of GVTC Building in Manchur, Bhirya City,
District Naushehro Feroze

Bill of Quantities

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	EXCAVATION IN FOUNDATION Excavation in foundation in ordinary soil 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)	16,800.00	%0Cft	3,176.25	53,361.00
2	IMPORTED EARTH FILL				
a	Filling, watering and ramming earth under floor with new earth (excavated from outside) lead upto one chain and lift upto 5 feet. (Page No. 4, Item No. 22)	12,000.00	%0Cft	3,630.00	43,560.00
b	Add: extra lead 6 mile (referred from carriage of materials schedule)	12,000.00	%0Cft	774.96	9,299.52
3	CC IN FOUNDATION Cement concrete plain (ratio 1:4:8) including placing compacting, finishing and curing complete (including screening and washing at stone aggregate without shuttering (Page No. 15, Item No. 5-i)	1,700.00	%Cft	11,288.75	191,908.75
4	DAMP PROOF COURSE Damp proof course 2" thick with (cement sand and shingle concrete 1:2:4) including 2 coats of asphaltic mixture. (Page No. 18, Item No. 28-b)	300.00	%Sft	3,912.85	11,738.55
5	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.	400.00	Per Cwt	5,001.70	2,000,680.00
6	SUB FLOORING 3" 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)	1,749.00	%Cft	12,595.00	220,286.55

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7	SITU 1:3:6 Cement concrete plain ratio (1:3:6) including placing compacting, finishing and curing complete (including screening and washing at stone aggregate with shuttering (Page No. 15, Item No. 5-h)	1,750.00	%Cft	12,595.00	220,412.50
8	FORM WORK Erection and removal of centering for RCC or plain cement concrete works of Partal wood (2nd Class) Horizontal (Page No. 17, Item No. 19-bi).	3,500.00	%Sft	3,588.48	125,596.80
9	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.				
a	Plinth Beam (Ratio 1:2:4)	1,750.00	Per Cft	337.00	589,750.00
b	Columns Footing - Ratio (1:2:4) 90 lbs cement 2 cft sand 4 cft shingle ½" to ¾" gauge.	4,320.00	Per Cft	337.00	1,455,840.00
c	Beam & Lintels - Ratio (1:2:4) 90 lbs cement 2 cft sand 4 cft shingle ½" to ¾" gauge.	1,750.00	Per Cft	337.00	589,750.00
d	Slabs & Projection (6" thick) - Ratio (1:2:4) 90 lbs cement 2 cft sand 4 cft shingle ½" to ¾" gauge.	2,850.00	Per Cft	337.00	960,450.00
e	Stairs (6" thick) - Ratio (1:2:4) 90 lbs cement 2 cft sand 4 cft shingle ½" to ¾" gauge.	300.00	Per Cft	337.00	101,100.00

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S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
f	Columns Super Structure 1:1½:3	1,425.00	Per Cft	349.00	497,325.00
10	TERMITE PROOFING Providing anti-termite treatment by spraying / sprinkling / spreading Neptachler 0.5% Emulsion as an overall pre-construction treatment in slab type construction under the slab and attached perches or entrances etc. complete in all respect as per directions of the Engineer-in-Charge (Page No. 108, Item No. 92)	5,300.00	Per Sft	9.74	51,622.00
11	BRICK MASONRY Pacca Brick Work in ground floor in cement sand mortar (1:4) Page No. 20, Item No. 5-l(c)	5,670.00	%Cft	13,227.41	749,994.15
12	SURFACE RENDERING Cement Plaster 1:5 upto 12' height				
a	½" thick <u>Ceiling & Internal Wall Plaster</u> (Page No. 51, Item No. 12-b)	25,755.00	%Sft	2,241.80	577,375.59
b	¾" thick <u>External Wall Plaster</u> (Page No. 51, Item No. 12-c)	10,320.00	%Sft	2,678.50	276,421.20
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)	720.00	Per Sft	998.46	718,891.20
14	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 handless stoppers & locking arrangement etc. complete (Page No. 107, Item No. 84(b))	950.00	Per Sft	1,318.15	1,252,242.50

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S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
15	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)	5,300.00	%Sft	27,747.06	1,470,594.18
16	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)	650.00	%Sft	28,253.61	183,648.47
17	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.	320.00	Per Sft	567.48	181,593.60
18	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)	500.00	Per Rft	228.90	114,450.00
19	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)	1,000.00	Per Rft	49.97	49,970.00
20	TILES (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)	250.00	Sft%	27,747.06	69,367.65

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21	Glazed tile dado ¾" thick laid in pigment over 1:2 cement sand mortar ¾" thick including finishing. (Page No. 44, Item No. 38)	1,420.00	Sft%	28,299.30	401,850.06
22	PRIMING COAT Priming coat of chalk distemper (Page No. 53, Item No. 22)	5,300.00	%Sft	442.75	23,465.75
23	DISTEMPERING Preparing surface and painting with Distemper- 1st coat over priming coat (Page No. 53, Item No. 24-c) 3 Coats	5,300.00	%Sft	1,079.65	57,221.45
24	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)	20,000.00	%Sft	3,444.38	688,876.00
25	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)	10,320.00	%Sft	2,567.95	265,012.44
26	TEXTURE COATING Preparing the surface and applying rock wall / shield (Natural wall texture) coating to provide durable curst to wall thickness between 2mm to 32 mm (¾") with acrylic co-polymer emulsion, selected marble chips, adhesive and bactericides water resistance and fire and termite resistance (upto 20'-0" height). Page No. 55, Item No. 43)	1,500.00	%Sft	4,504.50	67,567.50

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(Civil Works)

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S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
27	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)	1,440.00	%Sft	2,116.41	30,476.30
28	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)	2,200.00	%Sft	977.40	21,502.80
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)	1,850.00	Per Sft	194.16	359,196.00
30	COLLAPSIBLE GATE Providing and fixing iron collapsible gate with channel framing of section 3/4" x 5/16" at 4" l/c riveted with ¾" x 1/8" flat iron patti placed diagonally and provided with top & bottom T-section 1" x 1" 1/8" along with rollers also l/c locking arrangement and fixing in floor/ceiling or wall etc, completed. (Page no. 94, Item No. 32)	100.00	Per Sft	387.04	38,704.00
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)	5,670.00	%Sft	4,411.82	250,150.19
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)	5,670.00	%Sft	1,887.40	107,015.58
Sub Total				Rs=	15,078,267.28
_____ % above / below				Rs=	
Cost of Scheduled Items (Civil Work)				Rs=	

Proposed New Construction of GVTC Building in Manchur, Bhirya City,
District Naushehro Feroze
Bill of Quantities

Non-Schedule Items (Civil Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
32	CLEARING OF SITE Clearing the site by cutting, removing all shrubs, trees, upto 6 inches girth, etc. and taking out their entire roots and filling the hollows with earth complete with dressing, consolidating and watering the filling including stacking the serviceable materials and disposal of useless material as directed, cost of earth.	Lumpsum	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.	3,000.00	P.Cft		
34	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.	150.00	Rft		
35	ROOM DOOR LOCKS Providing and fixing with C.P brass screws carona, yale lock of approved design, manufacturer, and colour Japan make, cutting wood to required shape and size with three operating keys. complete in all respect as per specification, drawings and instructions of the Engineer-in-Charge.	20	Each		

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Bill of Quantities

Non-Schedule Items (Civil Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
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.	3	Each		
37	PVC RAIN DOWN PIPE Providing and fixing 3" dia polyvinyl chloride rain water down pipe including tees, socket, bend and clamp bolts etc, complete in all respect as per instruction by the Architect / Engineer. (DADEX or approved equivalent) upto any height and floor	90.00	Per Rft		
38	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.	400.00	Rft		
39	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 respects.	600.00	Per Glen		

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Bill of Quantities

Non-Schedule Items (Civil Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
40	UNDERGROUND WATER STORAGE TANK Construction of Underground Water Storage Tank each of capacity 2000 gallons including excavation in all kinds of soil / rock upto required depth and laying of 230 mm thick stone soiling in base and laying of 1:4:8 cement concrete in foundations, with 4mm thick water proofing membrane poured and cast in RCC 1:1½:3 using sulphate resistant cement including formwork in base slab, 76 mm thick 1:4 cement concrete floor finished with neat cement slurry, 50 mm thick cement plaster in 1:3 cement water internally with two coat of white wash, 50 mm 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 19 mm dia M.S. galvanized rungs at every 400 mm of rest embedded properly in walls and 1 no. man hole opening size 600 mm x 600mm of tank and water tight C.I manhole cover and frame each with proper locking arrangement, complete in all respect as per drawing and design including the cost of reinfo????????	1,500.00	Per Gln		
Cost of Non-Schedule Item (Civil Work)				Rs=	

**Proposed New Construction of GVTC Building in Manchur, Bhirya City,
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Bill of Quantities

(Plumbing Works)
Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
41	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
42	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.	3	Each	11,477.40	34,432.20
43	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)	7	Each	1,193.17	8,352.19
44	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)	7	Each	447.15	3,130.05

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Bill of Quantities

(Plumbing Works)
Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
45	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
46	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	7	Each	10,322.40	72,256.80
47	HANDLE VALVE Providing and fixing handle valves (china) Page No. 17, Item No. 5 (I & II)				
a	½ " dia	5	Each	200.42	1,002.10
b	¾" dia	5	Each	271.92	1,359.60
48	MUSLIM SHOWER Supply and fixing C.P. Muslim Shower with double Bib Cock and ring pipe etc. complete (Page No. 19, Item No. 19-a)	7	Each	3,432.00	24,024.00
49	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)	7	Each	889.46	6,226.22

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Bill of Quantities

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S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
50	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)	7	Each	843.92	5,907.44
51	PILLER COCK Supplying & fixing swan type pillar cock of superior quality with crystal head ½" dia. Page No. 19, Item No. 16(b)	4	Each	877.80	3,511.20
52	LONG BIB COCK Supply and fixing long bib cock of superior quality with C.P.head ½" dia. (Page No. 19, Item No. 13a)	9	Each	877.80	7,900.20
53	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
54	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 1" 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.	9	Each	14,748.00	132,732.00
Sub Total				Rs=	357,018.28
_____ % below / above				Rs=	
Cost of Plumbing Work (Scheduled Items)				Rs=	

Proposed New Construction of GVTC Building in Manchur, Bhirya City,
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Bill of Quantities

Non-Schedule Items (Plumbing Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
55	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.	200.00	P.Rft		
b	Do. Do ¾ inch (20 mm) Dia Pipe.	175.00	P.Rft		
c	Do. Do 1 inch (25 mm) Dia Pipe.	150.00	P.Rft		
d	Do. Do 1¼ inch (32 mm) Dia Pipe.	110.00	Rft		
e	Do. Do. 2 inch (50 mm) dia pipe.	100.00	Rft		
56	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/cm ²).	200.00	P.Rft		
57	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		

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Bill of Quantities

Non-Schedule Items (Plumbing Work)

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
58	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	200.00	Rft		
b	Do. Do. 4 inches (100 mm) dia pipe	220.00	Rft		
59	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=	

**Proposed New Construction of GVTC Building in Manchur, Bhirya City,
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Bill of Quantities

(Electrical Works)
Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
60	WIRING FOR LIGHT / FAN Wiring for light or fan point with 3/.029 PVC insulated wire in 20 mm (3/4") PVC conduit on surface as required.(Page No. 15, Item No. 123)	175.00	Per Point	797.00	139,475.00
61	WIRING FOR PLUG POINT Wiring for Plug point with 3/.029 PVC insulated wire in 20 mm (3/4") PVC conduit on surface the wall or column as required.(Page No. 15, Item No. 125)	20.00	Per Point	669.00	13,380.00
62	CEILING ROSE Providing and fixing bakelite ceiling rose with two terminals (Page No. 330, Item No. B-228)	8	Each	72.00	576.00
63	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)	30	Each	3,185.00	95,550.00
64	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)	35.00	Per Meter	139.00	4,865.00
65	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)	250.00	Per Meter	305.00	76,250.00
66	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)	100.00	Per Meter	641.00	64,100.00

**Proposed New Construction of GVTC Building in Manchur, Bhirya City,
District Naushehro Feroze**

Bill of Quantities

(Electrical Works)
Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
67	Providing and fixing one way SP 5 amp switch flush type (Page No. 330, Item No. 219)	175	Each	54.00	9,450.00
68	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
69	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
70	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
71	Providing and fixing circuit breaker 15,20,30,40,50,60,75 & 100 amps TP (XS-100NS) on prepared board as required. (Page No. 31/207)	6	Each	9,261.00	55,566.00
Sub Total				Rs=	548,502.00
_____ above / below				Rs=	
Cost of Electrical Work (Scheduled Items)				Rs=	

Proposed New Construction of GVTC Building in Manchur, Bhirya City,
District Naushehro Feroze
Bill of Quantities

NSI - Electrical Works

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
72	EXHAUST FAN Supply & Installation of 12" dia metal body exhaust fan including all civil works required for complete installation and including making hole for the exhaust fan in wall and making it good, all labour and materials as required Complete in all respect as per instructions of Engineer-in-Charge.	6	Each		
73	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		
74	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.	30	Each		
75	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.	30	Each		
76	LIGHTING Providing and fixing LED 18W 10" size square / round light and 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.	90	Each		

Proposed New Construction of GVTC Building in Manchur, Bhirya City,
District Naushehro Feroze
Bill of Quantities

NSI - Electrical Works

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
77	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.	1	Each		
78	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=	

Proposed GVTC Building in Manchur, Bhirya City, District Naushehro Feroze
(Compound Wall)

Bill of Quantities

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	EXCAVATION Excavation in foundation in ordinary soil 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)	7,150.00	%0Cft	3,176.25	22,710.19
2	IMPORTED EARTH FILL				
a	Filling, watering and ramming earth under floor with new earth (excavated from outside) lead upto one chain and lift upto 5 feet. (Page No. 4, Item No. 22)	6,325.00	%0Cft	3,630.00	22,959.75
b	Add: extra lead 6 mile (referred from carriage of materials schedule)	6,325.00	%0Cft	774.96	4,901.62
3	CC IN FOUNDATION Cement concrete plain (ratio 1:4:8) including placing compacting, finishing and curing complete (including screening and washing at stone aggregate without shuttering (Page No. 15, Item No. 5-i)	600.00	%Cft	11,288.75	67,732.50
4	SITU 1:3:6 Cement concrete plain ratio (1:3:6) including placing compacting, finishing and curing complete (including screening and washing at stone aggregate with shuttering (Page No. 15, Item No. 5-h)	1,325.00	%Cft	12,595.00	166,883.75
5	FORM WORK Erection and removal of centering for RCC or plain cement concrete works of Partal wood (2nd Class) Horizontal (Page No. 17, Item No. 19-bi).	2,650.00	%Sft	3,588.48	95,094.72

Proposed GVTC Building in Manchur, Bhirya City, District Naushehro Feroze
(Compound Wall)

Bill of Quantities

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
6	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.				
a	Plinth Beam (Ratio 1:2:4)	710.00	Per Cft	337.00	239,270.00
b	Columns Footing - Ratio (1:2:4) 90 lbs cement 2 cft sand 4 cft shingle ½" to ¾" gauge.	850.00	Per Cft	337.00	286,450.00
c	Super-Structure Columns - Ratio (1:2:4) 90 lbs cement 2 cft sand 4 cft shingle ½" to ¾" gauge.	675.00	Per Cft	337.00	227,475.00
7	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.	150.00	Per Cwt	5,001.70	750,255.00
8	DAMP PROOF COURSE Damp proof course 2" thick with (cement sand and shingle concrete 1:2:4) including 2 coats of asphaltic mixture. (Page No. 18, Item No. 28-b)	525.00	%Sft	3,912.85	20,542.46

Proposed GVTC Building in Manchur, Bhirya City, District Naushehro Feroze
(Compound Wall)

Bill of Quantities

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
9	TERMITE PROOFING Providing anti-termite treatment by spraying / sprinkling / spreading Neptachler 0.5% Emulsion as an overall pre-construction treatment in slab type construction under the slab and attached perches or entrances etc. complete in all respect as per directions of the Engineer-in-Charge (Page No. 108, Item No. 92)	800.00	Per Sft	9.74	7,792.00
10	BRICK MASONRY Pacca Brick Work in ground floor in cement sand mortar (1:4) Page No. 20, Item No. 5-I(c)	1,525.00	%Cft	13,227.41	201,718.00
11	SURFACE RENDERING Cement Plaster 1:5 upto 12' height				
a	½" thick <u>Wall Plaster</u> (Page No. 51, Item No. 12-b)	9,000.00	%Sft	2,241.80	201,762.00
b	¾" thick <u>Wall Plaster</u> (Page No. 51, Item No. 12-c)	9,000.00	%Sft	2,678.50	241,065.00
12	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)	9,000.00	%Sft	2,567.95	231,115.50
13	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)	350.00	%Sft	977.40	3,420.90

Proposed GVTC Building in Manchur, Bhirya City, District Naushehro Feroze

(Compound Wall)

Bill of Quantities

(Civil Works)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
14	STEEL DOOR Supplying and fixing special heavy type steel doors for look – ups withn angle iron frame of 2-1/2" to 2-1/2" x 3/8" size and shutter of 2" x 2" x 3/8" with 1" diameter M.S bars placed @ 4" center to center with a separate locking box having size of 12" x 12" of M. steel sheet embedded in masonry with proper locking arrangement as per approved design including cost of erection of steel gate and fixing in masonry wall in cement concrete 1:2:4 etc. complete, as per instructions of Engineer Incharge. (S.I.No.27/P-93)	150.00	Per Sft	930.76	139,614.00
15	ANGLE IRON FOR BARBED WIRE Providing and fixing angle iron vertical posts for barbed wire fencing of size 2" X 2" ¼" embedded in RCC masonry pillars i/c making cuts / holders @ 12" i/c fixing in pillars by chiseling and filling with cement sand mortar saprining & finishing the surface. (Page No. 94, Item No. 8)	210.00	Per Rft	169.18	35,527.80
16	BARBED WIRE Providing and fixing barbed wire fencing with 12 gauge 4 points @ 6" apart barbed wire i/c straightening and fixing in angle iron vertical posts. (Page No. 95, Item No. 9)	1,250.00	Per Rft	8.38	10,475.00
Sub Total		(A)		Rs=	2,976,765.19
____ % above / below				Rs=	
Cost of Scheduled Items (Civil Work)				Rs=	

Proposed GVTC Building in Manchur, Bhirya City, District Naushehro Feroze
(Compound Wall)
Bill of Quantities

(Civil Works) NSI

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
17	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.	800.00	P.Cft		
Sub Total (NSI)		(B)		Rs=	

Cost of Compound Wall	(A+B)
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**Proposed GVTC Building in Manchur, Bhirya City, District Naushehro Feroze
(External Development Work)**

Bill of Quantities

(Ext. Dev Work)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	IMPORTED EARTH FILL				
a	Filling, watering and ramming earth under floor with new earth (excavated from outside) lead upto one chain and lift upto 5 feet. (Page No. 4, Item No. 22)	18,000.00	%0Cft	3,630.00	65,340.00
b	Add: extra lead 6 mile (referred from carriage of materials schedule)	18,000.00	%0Cft	774.96	13,949.28
2	KERB STONE				
	Providing and fixing Precast Edge Block 3750 PSI Industrial made size 6" thick x 12" long x 18" high including the cost of cartage, excavation, form work for haunching 1450 PSI lean concrete, 2250 PSI concrete for huanching, 1:4 cement sand mortar. VOL-III (Part-VI) (Page No. 15, Item No. 14)	200.00	Per Rft	297.01	59,402.00
3	CEMENT TILES				
	Coloured cement tiles (Pattern 12" X 12" X 1") of approved shade and pattern laid flat in 1:2 grey cement mortar over a bed of ¾" thick grey cement mortar 1:2. (Page No. 46, Item No. 59)	2,550.00	%Sft	9,424.84	240,333.42
4	CC 1:4:8				
	Cement concrete plain (ratio 1:4:8) including placing compacting, finishing and curing complete (including screining and washing at stone aggregate without shuttering (Page No. 15, Item No. 5-i)	850.00	%Cft	11,288.75	95,954.38
5	SITU 1:3:6				
	Cement concrete plain ratio (1:3:6) including placing compacting, finishing and curing complete (including screening and washing at stone aggregate with shuttering (Page No. 15, Item No. 5-h)	500.00	%Cft	16,183.48	80,917.40

Proposed GVTC Building in Manchur, Bhirya City, District Naushehro Feroze

(External Development Work)

Bill of Quantities

(Ext. Dev Work)

Sindh Schedule of Rates 2012

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
6	FORM WORK Erection and removal of centering for RCC or plain cement concrete works of Partal wood (2nd Class) Horizontal (Page No. 17, Item No. 19-bi).	1,000.00	%Sft	3,588.48	35,884.80
7	SEWAGE MANURE Supplying, stacking and spreading well decayed sewage manure from approved sources including all leads and lifts. (Page No. 103, Item No. 44)	400.00	P.Cart Load	298.12	119,248.00
Sub Total				Rs=	711,029.28
_____% Add / Below on Scheduled Items				Rs=	
Cost of Scheduled Work (External Development Work)				Rs=	

Proposed GVTC Building in Manchur, Bhirya City, District Naushehro Feroze

(External Development Work)

Bill of Quantities

(Ext. Dev Work)

NSI

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
8.00	ELECTRICITY CONNECTION Provision of 3 phase power supply AC 380 / 440 volts from WAPDA for this institution in existing power switch and make the building functional and energization. Complete checking the constant volts 380 /440 etc. as required and directed by the Engineer-in-Charge.	Lumpsum	Job		
9	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.	1,500.00	P.Cft		
10	SUPPLY GARDEN SOIL (SWEET EARTH) Supply and stacking garden approved garden soil (sweet earth) free from salts, pebbles and grass roots etc. including all leads and lifts. Complete in all respect as per specification and instructions of the Architect / Engineer-in-Charge.	1,050.00	P.Cft		
11	SPREADING GARDEN SOIL (SWEET EARTH) Spreading approved garden soil (sweet earth) in uniform thickness including mixing and breaking clods and dressing fine for grassing including disposal of rubbish with 3 chains (92 m) Complete in all respect as per specification and instructions of the Architect / Engineer-in-Charge.	1,050.00	P.Cft		
12	GRASSING Grassing fine by dribbling grass roots 3" apart including watering, weeding till such time the grass is set and becomes green and is fit for mowing. Complete in all respect as per specification and instructions of the Architect / Engineer-in-Charge.	800.00	P.Sft		

**Proposed GVTC Building in Manchur, Bhirya City, District Naushehro Feroze
(External Development Work)**

Bill of Quantities

(Ext. Dev Work)
NSI

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
13	MANHOLE Providing manhole size 2 feet x 1-1/2 feet or (inside dimensions) x 2 feet deep as per approved design and specifications complete for 4 inches to 12 inches dia pipes up to 3 feet -11 inches depth with R.C.C. cover and frame 16 inches dia, inside thick RCC 1:2:4 slab, 8 inches thick c.c. 1:3:6 block masonry walls set in 1:3 c.m; 6 inches thick 1:3:6 C.M to all inside wall surfaces, channels and benching etc. and to top including making requisite number of main and branch channels including the cost of excavation back filling and disposal of excavated stuff. Complete in all respect as per instructions of Engineer-in-Charge.	4	Each		
14	UPVC PIPES Providing and fixing un plasticized Polyvinyl Chloride Pipe (U.P.V.C) class 'B' for cold & hot water with fitting tees, bends, elbows, sockets, reducing sockets, union (all specials) and clamps including fixing cutting and fitting etc. breaking through walls, beams and chase cutting etc. and making good condition. complete in all respect as per instructions of the Architect / Engineer - in - Charge. (DADEX or approved equalvent)				
a	Do. Do. 3" dia pipe	110.00	Rft		
b	Do. Do. 4" dia pipe	90.00	Rft		
Cost of NSI (External Development Work)				Rs=	

Cost of Schedule Items	(A)	Rs=
Cost of NSI	(B)	Rs=
Total Cost of External Development Work	(A+B)	Rs=