

WORLD VISION INTERNATIONAL
DAWAM WASH Project
BoQ for Islam Qala Health Center Rehabilitation Project

Health Center Name: Islam Qala CHC

District: Shirin Tagab

Province: Faryab

S/N	Activity/Item/Description	Unit	Quantity	Unit Cost AFN	Total Cost AFN	Remarks
A	BoQ for Sewer System					
A1	Excavation Work of Sewer Pipe: Excavation works in all kinds of soil.	M3	73.08			
A2	Sewer Pipe: Provision and installation of 5" PVC Pipe (C-Class), from toilet to Septic Tank to Drain Field with all required fittings according to Engineering consideration, complete work.	M	114.00			
A3	Sewer Pipe: Provision and installation of 4" PVC Pipe (C-Class), from toilet to Septic Tank to Drain Field with all required fittings according to Engineering consideration, complete work.	M	50.00			
A4	Sewer Pipe: Provision and installation of 2" PVC Pipe (C-Class), from wash basin to soak pit with all required fittings according to Engineering consideration, complete work.	M	10.00			
A5	Backfilling Work of Sewer Pipe: Backfilling from excavated soil with proper compaction.	M3	73.08			
Sub-Total Cost for Sewer System						
B	BoQ for Water Supply System					
B1	Excavation Work for Water Supply Trench: Excavation works in all kinds of soil including existing PCC demolition according to technical requirements.	M3	31.36			
B2	Backfilling of water Pipe Treanch: Backfilling of water treanch with proper compaction	M3	31.36			
B3	PPR-40mm: Provision and installation of PPR pipe- 40mm, PN-10, with control valve and all required fittings complete work.	M	10			
B4	PPR-32mm: Provision and installation of PPR pipe- 32mm, PN-10, with control valve and all required fittings complete work.	M	102			

B5	PCC M: 1:2:4: Providing and laying 10 cm. thick plain cement concrete 1:2:4 (M15) in perfect line & level with neat cement finish including necessary formworks and curing all complete	M3	0.32		
B6	Backfilling Work of Sewer Pipe: Backfilling from excavated soil with proper compaction.	M3	31.36		
B7	Roof Water Tank: Supply and installation of plastic- 3 layer roof water tank capacity=2000 litres including covering glass wool and all required fittings and activities, connection to the water system.	No	1.00		
Sub-Total Cost for Water Supply System					
C	BoQ for Construction of 04 Flush Toilet for Male and Female BNFs				
C1	Demolition works: Demolition of Existing BNFs dry vault latrine (3.75m X 2.8m X 2.15m)and removing the human waste to a remot and proper area plus preparation of the site for new construction work.	Lum Sum	1.00		Please see the attached drawing for more details
C2	Excavation works. in all kinds of soil.	M3	16.80		Please see the attached drawing for more details
C3	Stone Masonry Work: Providing and laying stone masonry in 1:4 cement mortar in perfect line & level and curing all complete	M3	21.10		Please see the attached drawing for more details
C4	Pointing Work: 1:3 cement pointing on the stone wall including raking the joints and curing all complete.	M2	10.98		Work should be done according to specifications
C5	Burnt Brick Work: Providing and laying first-class burnt brickwork in 1:4 cement mortar in perfect line & level and curing all complete.	M3	12.26		Please see the attached drawing for more details
C6	Back Filling Work: Providing and filling with soil in 15cm layers, watering & ramming all complete	M3	10.00		
C7	Gravel for Soling: Providing and filling gravel/sand including watering and compacting all complete.	M3	1.08		Please see the attached drawing for more details
C8	PCC M: 1:2:4: Providing and laying 7 cm. thick plain cement concrete 1:2:4 (M15) in perfect line & level with neat cement finish including necessary formworks and curing all complete	M3	6.44		Please see the attached drawing for more details
C9	Plaster Work: 12.5mm or more thick cement plaster in 1:4 cement mortar with a smooth finish in line & level including raking the joints, wetting the surface, and curing all complete.	M2	123.40		Please see the attached drawing for more details
C10	RCC Work M:1:1.5:3: Providing and laying reinforced cement concrete 1:1.5:3 (M20) in foundation (footings), Column, Beam, Slab, and Parpet wall in perfect line & level with proper compaction using the vibrator, curing all complete including the cost of the form works and the reinforcement.	M3	13.25		Please see the attached drawing for more details
C11	PVC Door: Providing and fixing PVC door- W=1.1m, H=2.15m (frame and shutter, double glass shutter in window) including 4mm thick clear glass and necessary accessories (tower bolts, lock, hinges, etc.) all complete, (size-7000) With glasses and all necessary equipment).	No	4.00		

C12	PVC Window: Providing and fixing PVC window- W=0.6m, H=0.5m (frame and double glass shutter) including 4mm thick clear glass and mosquito net in the window and necessary accessories (tower bolts, lock, hinges, etc.) , (size-7000) With glasses and all necessary equipment).	No	4.00			
C13	Electrical Work: Providing and fixing of Electrical works (Bulb, Socket and Exhaust fan-25.4cm with connection from the nearest electric line) all necessary fittings complete with testing and ready for operation as per drawing, specifications, manufacturer's recommendations, and Engineer's instructions.	Lum Sum	2.00			
C14	European Type Toilet: Provision & Installation Commodity toilet chairs (European Type).	No	2.00			
C15	Eastern Toilet: Provision & Installation eastern Toilet (Farshi Type).	No	2.00			
C16	Supply and installation of New wash basin: Supply and installation of wash basin plus flexible drainage pipe and all required fittings and accessories.	No	2.00			
C17	Supply and installation of Soap Keeper: Supply and installation of soap keeper.	No	2.00			
C18	Supply and installation of Mirror: Supply and installation of Mirror size 40x 60 cm.	No	2.00			
C19	Supply and installation of Mixer: Supply and installation of approved stainless steel mixer(taps) with all required fittings.	No	2.00			
C20	Supply and installation of Shutoff valve and Flexible Pipe: Supply and installation of shutoff valves, flexible pipe plus all required fittings and activities.	Pair	2.00			
C21	Supply and installation of 50 Litres Boiler: Supply and installation of 50-litre Boiler, 8 bar, 50/60 Hz, plus all required fittings and activities.	No	2.00			
C22	PVC Pipe C-Class: Providing and installation of PVC Pipe, C-Class Dia= 4" for black water, and Dia= 2" for grey water With all required fittings.	Lum Sum	1.00			
C23	Grease Trap: Providing and fixing of Grease Trap 25lbs Stainless Steel Interceptor, Side Inlet for greywater from handwashing.	Job	2.00			Made of heavy duty 1.2mm thickness 304 stainless steel. Anti-rust, anti-corrosion, non-deformation long service life. Flowing speed up to 5 Gallons Per Minute (G.P.M.)

C24	Painting Work: Two or more coats of approved color waterproof plastic paint with plaster of Paris (gypsum) giving uniform color on inner, outer walls, and ceiling.	M2	123.40			
C25	Ceramic and Tile Work: Providing and laying approved color ceramic glazed tile on wall & floor with 1:4 cement mortar base in a perfect line and level all complete.	M2	53.04			white color, good quality (Thickness 0.75 cm on floor and 0.5cm on walls, laser cut)
C26	PPR Pipe: Providing and installation of PPR pipe dia= 25mm, PN10 for cold water and dia=25mm, PN-20 for hot water including fittings with control valve from roof water tank to the fixtures.	Lum Sum	1.00			
C27	Roof Insulation: Providing and laying roof insulation (isogam) with all technical requirements.	M2	28.21			
C28	Roof Water Tank: Supply and installation of plastic- 3 layer roof water tank capacity=1000 litres including covering glass wool and all required fittings and activities, connection to the water system.	No	1.00			
C29	Hand Rail Work: Providing and fixing black steel pipe 2", handrail in ramp including a coat red oxide paint and two coats of approved color oil paint, Height of 0.9m, fixing balusters in concrete over the stone wall as per detailed drawing of Ramp, all complete.	M	16.40			
Sub-Total Cost for Construction of 04 Flush Toilets						
D	BoQ for Construction of Septic Tank for 04 Flush Toilets					
D1	Excavation Work of Septic Tank and Sewer Pipe: Excavation works in all kinds of soil.	M3	19.20			Please see the attached drawing for more details
D2	Burnt Brick Work: Providing and laying first-class burnt brickwork in 1:4 cement mortar in perfect line & level and curing all complete.	M3	5.52			Please see the attached drawing for more details
D3	Plaster Work: 12.5mm. or more thick Water Proof Cement (WPC) plaster in 1:2 cement mortar with a smooth finish in line & level including raking the joints, wetting the surface, and curing all complete.	M2	24.84			Please see the attached drawing for more details
D4	RCC Work: Providing and laying reinforced cement concrete 1:1.5:3 (M20) in foundation (footings), Slab in perfect line & level with proper compaction using the vibrator, curing all complete including the cost of the form works and the reinforcement.	M3	2.06			Please see the attached drawing for more details
D5	Plumbing Work(provision and installation of PVC pipe): Supply and installation of 5" PVC Pipe (C-Class), with all required fittings according to Engineering consideration, complete work as per attached drawing.	Lum Sum	1.00			

D6	Vent Pipe: Provision and installation of 3" GI Pipe with fly mesh, with all required fittings according to Engineering consideration, complete work.	M	0.50			
D7	Backfilling Work: Backfilling work with required compaction according to technical requirements	M3	68.88			
D8	Site Cleaning: Cleaning of the site from any construction materials, complete work.	Lum Sum	1.00			
Sub-Total Cost for Construction of Septic Tank						
E	Construction of Drain Field					
E1	Excavation Work: Excavation works in all kinds of soil.	M3	16.21			
E2	PVC Pipe Instalation: Provision and Installation of PVC Pipe, C-Class, Dia-5", with all required fittings and technical requirements.	M	22.26			
E3	Course Gravel Filling : Provision and filling of Coarse gravel for Drain Field area, all complete work.	M3	8.10			
E4	Back Filling: Providing and filling with soil in 150mm.	M3	8.10			
Sub-Total Cost for Construction Drain Field						
F	BoQ for Bore Well Protection Box					
F1	Excavation Work for Well Protection Box: Excavation works in all kinds of soil including existing PCC demolition.	M3	2.70			
F2	PCC M: 1:2:4 for Water pipe Treanch Providing and laying 15cm. thick plain cement concrete 1:2:4 (M15) with neat cement finish including necessary formworks and curing all complete	M3	0.48			
F3	Gravel for Soling: Providing and filling gravel th=5cm.	M3	0.23			
F4	PCC M: 1:2:4: Providing and laying 10 cm. thick plain cement concrete 1:2:4 (M15) with neat cement finish including necessary formworks and curing all complete	M3	0.23			

F5	Burnt Brick Work: Providing and laying first-class burnt brickwork in 1:4 cement mortar in perfect line & level and curing all complete.	M3	1.50			
F6	Plaster Work: 12.5mm. or more thick Water Proof Cement (WPC) plaster in 1:2 cement mortar with a smooth finish in line & level including raking the joints, wetting the surface, and curing all complete.	M2	4.00			
F7	RCC Work: Providing and laying reinforced cement concrete 1:1.5:3 (M20) in Slab curing all complete including the cost of the form works and the reinforcement.	M3	0.18			
Sub Total cost of Bore Well Protection Box						
G	BoQ for Manhole Construction					
G1	Excavation Work: Excavation works in all kinds of soil.	M3	9.45			
G2	Gravel for Soling: Providing and filling gravel.	M3	0.45			
G3	PCC M: 1:2:4: Providing and laying 10 cm. thick plain cement concrete 1:2:4 (M15) with neat cement finish including necessary formworks and curing all complete	M3	0.60			

G4	Burnt Brick Work: Providing and laying first-class burnt brickwork in 1:4 cement mortar in perfect line & level and curing all complete.	M3	6.00			
G5	Plaster Work: 12.5mm. or more thick Water Proof Cement (WPC) plaster in 1:2 cement mortar with a smooth finish in line & level including raking the joints, wetting the surface, and curing all complete.	M2	16.00			
G6	RCC Work: Providing and laying reinforced cement concrete 1:1.5:3 (M20) in Slab curing all complete including the cost of the form works and the reinforcement.	M3	0.72			
Sub Total cost of Bore Well Protection Box/Manhole						
H	New Wash Basin + Soak Pit					
H1	Excavation of Soak Pit: Excavation of soak pit in soft soil, Dia=0.9m, depth=1.2m	M3	0.64			
H2	Supply and installation of New wash basin: Supply and installation of wash basin plus flexible drainage pipe and all required fittings and accessories.	No	1.00			
H3	Supply and installation of Soap Keeper: Supply and installation of soap keeper.	No	1.00			
H4	Supply and installation of Mirror: Supply and installation of Mirror size 40x 60 cm.	No	1.00			
H5	Supply and installation of Mixer: Supply and installation of approved stainless steel mixer(taps) with all required fittings.	No	1.00			
H6	Supply and installation of Shutoff valve and Flexible Pipe: Supply and installation of shutoff valves, flexible pipe plus all required fittings and activities.	Pair	1.00			
H7	RCC Circular Cover: Supply and installation of RCC cover for soak pit, D=1m	No	1.00			
Sub Total cost of Existing BNFs Latrine Rehabilitation						

I	Existing Female Staff Flush toilet Rehabilitation					
I1	Existing wash basin Repairing: Supply and installation of wash basin's approved mixer(tap) plus all required fittings and accessories.	No	2.00			
I2	Existing wash basin Repairing: Supply and installation of shutoff valves, plus flexible pipes and all required fittings and accessories.	Pair	2.00			
I3	Flush Tank Installation: Providing and installation of flush tank with all fittings and accessories, complete work.	No	2.00			
I4	Muslim Shower Installation: Providing and installation of muslim shower with all fittings and accessories, complete work.	No	2.00			
Sub Total cost of Existing BNFs Latrine Rehabilitation						
J	Existing Male Staff Flush Toilet Rehabilitation					
J1	Eastern Toilet (Farshi): Providing and installation of Flush Toilet including with all fittings and accessories complete work.	No	1.00			
J2	Flush Tank: Providing and installation of flush tank with all fittings and accessories complete work.	No	1.00			
J3	Supply and installation of New wash basin: Supply and installation of wash basin plus flexible drainage pipe and all required fittings and accessories.	No	1.00			
J4	Supply and installation of Soap Keeper: Supply and installation of soap keeper.	No	1.00			
J5	Supply and installation of Mirror: Supply and installation of Mirror size 40x 60 cm.	No	1.00			
J6	Supply and installation of Mixer: Supply and installation of approved stainless steel mixer(taps) with all required fittings.	No	1.00			
J7	Supply and installation of Shutoff valve and Flexible Pipe: Supply and installation of shutoff valves, flexible pipe plus all required fittings and activities.	Pair	1.00			
J8	Supply and installation of Tap: Supply and installation of approved tap with all required fittings.	No	1.00			
J9	Supply and installation of Floor Drain: Supply and installation of Floor Drain with all required fittings.	No	2.00			
J10	Supply and installation of Shower: Supply and installation of Shower with all required fittings (complete package).	No	3.00			

J11	Muslim Shower: Supply and installation of Muslim shower with all required fittings, complete package.	No	1.00			
J12	Paper Holder: Providing and installation of paper holder.	No	1.00			
J13	Demolition of Existing Ceramic and Tile: Demolition of existing ceramic and tiles.	M2	44			
J14	Ceramic and Tile Work: Providing and laying approved color ceramic glazed tile on wall & floor with 1:4 cement mortar base in a perfect line and level all complete.	M2	44			
J15	Painting Work: Two or more coats of approved color waterproof plastic paint with plaster of Paris (gypsum) giving uniform color on inner, outer walls, and ceiling with Office and donor Logo.	M2	45.6			
J16	Boiler 50 Litre: Supply and installation of boiler capacity 50 litre, 0.8MPa , 50/60 Hz, including all required accessories/fittings, electric and plumbing works, complete work.	No	1.00			
J17	Plumbing Work: -Supply and installation of PVC pipe (black water=4", grey water=2", C-class) including all required fittings and activities (complete work). -Supply and installation of PPR pipe dia-25mm, PN=10 for cold water and dia-25mm, PN-20 for hot water including all required fittings and activities(complete work).	Lum Sum	1.00			
Sub Total cost of Male Staff Flush Toilet						
Grand Total for All BoQ (A+B+C+D+E+F+G+H+I+J)						

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Designation: WASH Engineer

Signature:



Date:

Aug 19, 2024

Technical Review by: Farooq Jawid
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Signature:



Date:

Aug 20, 2024

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Date:

Aug 20, 2024