

	Province: Faryab	Project:		DAWAM (A221873)		
	District: Gurziwan	Project type:		Gravity water supply system		
	Village: Badga					
S/No شماره	Discription	Unit واحد	Quantity مقدار	Cost/Unit (Afs.) قیمت فی واحد به افغانی	Total Cost (Afs.) قیمت مجموعی	Remarks ملاحظات
A	BoQ of spring protection structures					
1	Excavation for Spring Protection ground type 2-3	M <sup>3</sup>	17			
2	Filling & Compacting in Base of spring protection	M <sup>3</sup>	10			
3	Filling & Compacting with Stone Gravel	M <sup>3</sup>	3.8			
4	Stone masonry with mortar 1:4 (cement- sand)	M <sup>3</sup>	9.6			
5	PCC M150 kg/cm2 - (1:2:4)	M <sup>3</sup>	1			
6	RCC M200kg/cm2 - (1:1.5:3)	M <sup>3</sup>	0.5			
7	Cement Plastering with padlow powder M-1:3	M <sup>2</sup>	11			
8	Cement Pointing M-1:3	M <sup>2</sup>	22.2			
9	Galvanized Iron (GI) pipe, for Outlet pipe, wall thickness 2.6 mm ,weight 2.9 kg/m, Nominal Diameter 1 1/2".	M	4			
10	Galvanized Iron (GI) pipe, for Over Flow pipe, wall thickness 2.6 mm ,weight 2.9 kg/m, Nominal Diameter 1 1/2".	M	4			
11	Galvanized Iron (GI) pipe, for Drain pipe, wall thickness 2.6 mm ,weight 2.9 kg/m, Nominal Diameter 1 1/2".	M	4			
12	Galvanized Iron (GI) pipe, for Ventilation pipe, wall thickness 2.6 mm ,weight 2.9 kg/m, Nominal Diameter 1 1/2".	M	2			
13	Gate valve (PN 10), Nominal Diameter = 1 1/2", series 14, PN10, VAG/AB	Pcs	2			
14	Fitting for Spring Protection Box as per site needed	LS	1			
Total Cost for one spring protection structure (Afs)					-	

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<b>B</b>	<b>BoQ of 30 cubic meters Stone Masonary water reservoir</b>					
1	Excavation for Reservoir ground type 2-3	M <sup>3</sup>	89			
2	Stone masonry with mortar 1:4 (cement- sand)	M <sup>3</sup>	78			
3	Back filling with soil and excavated material	M <sup>3</sup>	35			
4	Filling & Compacting with Stone Gravel	M <sup>3</sup>	17.0			
5	Plain Cement Concrete (PCC), M150.(1:2:4)	M <sup>3</sup>	11.4			
6	Reinforced Cement Concrete (RCC), M 200kg/cm2 including steel bars and shuttering according to the drawings	M <sup>3</sup>	16.2			
7	Plaster work with cement-sand + padlow powder M: 1:3 for inside and outside	M <sup>2</sup>	85			
8	Pointing work with cement-sand, M: 1:3	M <sup>2</sup>	35			
9	Isogam insulation on roof of reservoir	M <sup>2</sup>	25			
10	Supply and installation of iron gate for reservoir manhole (3mm thick) with all required activities and as per drawing	No	1			
11	Supply and installation of 2 inch Galvanzied Iron Ladder for reservoir with all required activites according to drawings	No	1			
12	Galvanized Iron (GI) pipe, for Inlet pipe, wall thickness 2.6 mm ,weight 2.9 kg/m, Nominal Diameter 1 1/2".	M	6			
13	Galvanized Iron (GI) pipe, for Out let pipe, wall thickness 2.9 mm ,weight 5.18 kg/m, Nominal Diameter 2 1/2".	M	5			
14	Galvanized Iron (GI) pipe, for Over flow pipe, wall thickness 2.9 mm ,weight 5.18 kg/m, Nominal Diameter 2 1/2".	M	5			
15	Galvanized Iron (GI) pipe, for Drain pipe, wall thickness 2.9 mm ,weight 5.18 kg/m, Nominal Diameter 2 1/2".	M	5			
16	Galvanized Iron (GI) pipe, for Ventilation pipe, wall thickness 2.6 mm ,weight 2.9 kg/m, Nominal Diameter 1 1/2".	M	2			
17	Flanged Gate valve (PN 10), Nominal Diameter = 2 1/2", series 14, PN10, VAG/AB or equivalent for Distribution system	Pcs	2			
18	End Cap for Drain Pipe, Nominal Diameter = 2 1/2"	Pcs	1			
19	Flunge Adepter (PN 10 ), dia = 2 1/2" for GI Pipe	Pcs	10			
20	GI Elbow 2 1/2"	Pcs	4			
21	GI Elbow 1 1/2"	Pcs	4			
22	FTA Adepter For Inlet Pipe	Pcs	1			
23	GI Union 1 1/2"	Pcs	2			

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24	Teflon tape, thread seal tape.	Pcs	4			
25	Wire mesh for Ventilation pipe including installation	Pcs	1			
<b>Total cost for all 30 cubic meters Stone Masonary drinking water reservoirs (Afs)</b>					-	
<b>C</b>	<b>BoQ for Break Pressure Tank (1 no of brek pressure Tank)</b>					
1	Excavation of pipe trench for distribution pipes laying in ground type 2-3	M <sup>3</sup>	16			
2	Back filling of pipe trench by excavated material	M <sup>3</sup>	4			
3	Stone masonry with cement- sand mortar M: 1:4	M <sup>3</sup>	8.5			
4	Plain Cement Concrete (PCC), M150 kg/cm2 (1:2:4)	M <sup>3</sup>	0.7			
5	Reinforced Cement Concrete (RCC), M 200kg/cm2 including steel bars and shuttering according to the drawings.	M <sup>3</sup>	0.45			
6	Plaster work with cement-sand, with padlow powder M: 1:3	M <sup>2</sup>	11			
7	Pointing work with cement-sand, M: 1:3	M <sup>2</sup>	13			
8	Galvanized Iron (GI) pipe, for Intlet pipe, wall thickness 2.6 mm ,weight 2.9 kg/m, Nominal Diameter 1 1/2".	M	2			
9	Galvanized Iron (GI) pipe, for Outlet pipe, wall thickness 2.6 mm ,weight 2.9 kg/m, Nominal Diameter 1 1/2".	M	2			
10	Galvanized Iron (GI) pipe, for Over Flow pipe, wall thickness 2.6 mm ,weight 2.9 kg/m, Nominal Diameter 1 1/2".	M	2			
11	Galvanized Iron (GI) pipe, for Ventilation pipe, wall thickness 2.6 mm ,weight 2.9 kg/m, Nominal Diameter 1 1/2".	M	2			
12	Gate valve (PN 10), Nominal Diameter = 1 1/2", series 14, PN10, VAG/AB	Pcs	1			
13	Fitting for break pressure Box as per site needed	LS	1			
<b>Total Cost for Break Pressure (Afs)</b>					-	
<b>D</b>	<b>BoQ of Valve Box (8 no of valve box)</b>					
1	Excavation in ground type 2-3	M <sup>3</sup>	21.50			
2	Back filling by excavated material	M <sup>3</sup>	3.0			
3	Stone masonry with mortar 1:4 (cement- sand)	M <sup>3</sup>	23.5			
4	PCC M150 kg/cm2 - (1:2:4)	M <sup>3</sup>	2.6			
5	Reinforced Cement Concrete (RCC), M200 kg/cm2 including steel bars and shuttering according to the drawing	M <sup>3</sup>	0.6			
6	Plaster work with cement-sand M: 1:3	M <sup>2</sup>	21.6			

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<b>Total cost for all valve boxes (Afs)</b>					-	
<b>E</b>	<b>BoQ of Excavation &amp; Backfilling of pipe trench</b>					
1	Excavation of pipe trench in ground type 2-3	M <sup>3</sup>	3904			
2	Back filling of pipe trench by soft soil around the pipe	M <sup>3</sup>	1171			
3	Back filling of pipe trench by ordinary soil	M <sup>3</sup>	2732			
<b>Total Cost for Excavation &amp; Backfilling of pipe trench</b>					-	
<b>F</b>	<b>BoQ of Pipes &amp; Fittings</b>					
1	Supplying, installation of High Density Polyethylene pipe (PE 100 PN 10 SDR 17), Outside Diameter: 40mm, wall thickness 2.4mm, weight 0.295kg/m, comply ISO4427, DIN 8074, ASTM D3035, ASTM D2515 All relevant marks must be attached in pipe (Bar, Measurement, Length, Standards).	M	1429			
2	Supplying, installation of High Density Polyethylene pipe (PE 100 PN 10 SDR 17), Outside Diameter: 50mm, wall thickness 3mm, weight 0.453 kg/m, comply ISO4427, DIN 8074, ASTM D3035, ASTM D2515 All relevant marks must be attached in pipe (Bar, Measurement, Length, Standards).	M	4035			
3	Supplying, installation of High Density Polyethylene pipe (PE 100 PN 10 SDR 17), Outside Diameter: 63mm, wall thickness mm 3.8, weight 0.721 kg/m, comply ISO4427, DIN 8074, ASTM D3035, ASTM D2515 All relevant marks must be attached in pipe (Bar, Measurement, Length, Standards).	M	145			
4	Supplying, installation of High Density Polyethylene pipe (PE 100 PN 10 SDR 17), Outside Diameter: 75mm, wall thickness 4.5 mm, weight 1.02 kg/m, comply ISO4427, DIN 8074, ASTM D3035, ASTM D2515 All relevant marks must be attached in pipe (Bar, Measurement, Length, Standards).	M	274			
5	Fitting as per fitting chart and site needed	LS	1			
6	Galvanized Iron pipe, dia. 3", for crossing pipe in river.	M	30			
7	PCC Mark (1:2:4) work for covering the GI pipe 3"	M <sup>3</sup>	4			
8	supply and installation of Flung PRV 2" (PN 10) with all fittings and accessories.	No	1			
9	supply and installation of PRV 1 1/2" (PN 10) with all fittings and accessories.	No	1			
10	supply and installation of PRV 1 1/4" (PN 10) with all fittings and accessories.	No	2			
11	supply and installation of flow control valve FCV 1 1/2" (PN 10) with all fittings and accessories.	No	3			
13	supply and installation of flow control valve FCV 2" (PN 10) with all fittings and accessories.	No	1			

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14	House connection from main pipe to inside houses, public buildings (school, mosque and clinic) with its all accessories including 1/2" Saddle clamp, Elbow, Female threaded adapter, (MTA), Gate valve, Water meter, Non return valve, Brass Water tap, Socket 1/2", 2 Bends 1/2", 3m 1/2" GI Pipe 20mm HDPE pipe PN-16 (th=1.9mm, W=0.112kg/m) with average length of 25 meters each and prefabricated heavy duty water meter box	No	70			
15	Supply and installation of warning Tap	No	32			
16	PVC pipe Class B, 4" for covering the taps inside the houses	M	70			
<b>Total Cost for Pipe and Fitting</b>					-	
<b>G</b>	<b>BoQ of House Connection (70 No STP)</b>					
1	Excavation in ground different type 2	M <sup>3</sup>	17.3			
2	Back filling by excavated material	M <sup>3</sup>	4.3			
3	Crush Gravel For stand tap	M <sup>3</sup>	8.7			
4	PCC M150 kg/cm2 - (1:2:4)	M <sup>3</sup>	12			
5	PCC for filling the PVC pipe and tap stand according to the drawings	M <sup>3</sup>	0.5			
6	Project Sign board	NO	1			
<b>Total cost for all House Connection (Afs)</b>					-	
<b>Grant Total in (AFN)</b>						-

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