

Project purpose: Providing WASH facilities to health care center

village BHC Dara Shakh

project: DAWAM

Project # A221873

Date:

Province: Faryab

District Gurzwian

NO	ITEMS موضوعات	UNIT واحد	Work quantity and cost estimated		
			QUANTITY مقدار	Unit Cost (Af) قیمت فی واحد	Total cost(Afs) قیمت مجموعی
1	Site Preparation: to clean site from all existent materials.	M2	400.00		
2	Excavation: In ordinary soil-type three, excavation will be take place for different types of structure as per drawing and spesification.	M3	68.38		
3	PCC (M-150, 1:2:4): The PCC work is for placement under the collecting stand according to the drawing considering the shuttering needs, using cement sand mortar base on given specifications. • Curing should be done for minimum 7 days.	M3	3.50		
4	RCC M:250 (1:1:2)	M3	5.68		
5	Stone Work	M3	10.50		
6	Pointing M 400 1:3	M2	24.00		
7	Reinforcement	Kg	126.25		
8	Oil Pointing 100%	M2	59.00		
9	BackFilling	M3	52.53		
Sub Total					-
	Solar System				

10	<p>WATER PUMP 1 1/4":Renewable energy submersible pumps with build in inverter for solar, wind and AC powersource. Runs on both AC and DC voltage installation:</p> <p>Maximum ambient pressure: 15 bar</p> <p>Type of connection: Rp</p> <p>Size of connection: 1 1/4 inch</p> <p>Minimum borehole diameter: 76 mm</p> <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: 0 .. 35 °C</p> <p>Electrical data:</p> <p>Motor type: MSF3N</p> <p>Power input - P1: 0.9 kW</p> <p>Rated power - P2: 0.6 kW</p> <p>Rated voltage AC: 1 x 90-240 V</p> <p>Rated voltage DC: 30-300 V</p> <p>Rated current: 8.4 A</p> <p>Power factor: 1.0</p> <p>Rated speed: 10700 rpm</p> <p>Start. method: DOL</p> <p>Enclosure class (IEC 34-5): IP68</p> <p>Insulation class (IEC 85): F</p> <p>Built-in motor protection: Y</p> <p>Thermal protec: INT</p> <p>Length of cable: 2 m</p> <p>Motor No: 99586834</p> <p>Udc: 300 V</p> <p>Udc: 30 V</p>	No	1.00		
11	Wire 6 mm2 for submerssible pump,	m	65.00		
12	<p>Solar module configuration:</p> <p>Number of solar modules in series: 4, in parallel: 1</p> <p>Solar array rated power: 1.08 kW</p> <p>Solar array rated volts: 126 V</p> <p>Sun tracking: Yes (single (polar) axis)</p> <p>Tilt angle: 35 deg.</p> <p>AC power (backup) - water production</p> <p>Recommended minimum output: 1 kW</p> <p>AC 115 V: Produces: 1.848 m³/h</p> <p>AC 230 V: Produces: 1.863 m³/h</p>	Watt	1080.00		
13	<p>Provide and install 200 liters Boiler(heater):</p> <p>Installation with all fitting:</p> <p>Suppling by solar System</p>	No	1.00		

14	Plastic Water Reservoir 1000 liters : for supplying the System, with all required fitting/activities	no	1.00		
15	Glass wool of water reservoir 1000 liters plastic	Lum sum	1.00		
16	Solar frame: Solar Panels Stand for 18X270 or based on selected solar with Installation.	No	1.00		
17	electrical solar cable 1*10mm2	m	50.00		
18	electrical sensor cable 3*1.5mm2	m	90.00		
19	Plastic Rope	m	120.00		
20	Cable locking Clip	No	20.00		
21	Well Probe Sensor	No	1.00		
22	Float Switch set (Mechanical Device for tank water level detection from well to reservoir with with cable and all other necessary tools)	No	1.00		
23	earthing system	set	1.00		
Sub Total					-
	Drilling of well				
24	Well drilling with percussion machine with 12" dia	m	60.00		
25	PVC Casing Pipe 8" dia Class C 6mm thickness	m	30.00		
26	PVC Filter Pipe 8" dia Class c, opening area does not exceed 25% of total area.	m	30.00		
27	Gravel Packing back of the filters pipes in 25m length, based on soil texture, River Gravel sized from 3mm to 12mm according to the soil texture, as per advise of WVA WASH Engineer	m	1.57		
28	Backfilling of Casing Pipe with soft Clay without any gravel	m3	0.78		
29	Pump Test for determination of Hydrogeological parameters	Hour	8.00		
30	Supplying and installation of all required fittings for well	Lot	1.00		
31	Supply and installation of metallic sign board	No	1.00		
32	Pipe 50mm HDPE 100: Pipe 50mm OD, HDPE 100, PN-10, Thickness 3 mm & Weight 0.453kg/m, Including well pipe	m	149.00		
33	PPR Pipe PN-10: Providing and installation of PPR pipe size 25mm including fittings. In one new Wash Basin.	m	30.00		
34	Isogam: Isogam top of Latrine 5x3 with installation and required work with good quality.	m2	16.00		
35	PVC Pipe C-Class: Providing and installation of PVC Pipe, C-Class Dia= 4" for Ventilator latrine with installation	m	14.00		

36	PVC Pipe C-Class: Providing and instalation of PVC Pipe, C-Class Dia= 4" for black water With all required fittings.	m	105.00		
37	PVC Door: Romoving existing doors and Providing/Installing PVC door two size (W=0.8m, H=2m+W=0.7,H=2) (frame and shutter, double glass shutter in window) including 4mm thick clear glass and necessary accessories (tower bolts, lock, hinges, etc.) all complete.	m2	11.47		
38	Eastern Toilet: Providing and installation of eastern toilet plus Flush tank including paper holder, Muslim shower with all fittings and accessories, complete work, connect to main pipe as drawing	No	2.00		
39	Wash Basin Installation: -Supply and installation of Wash Basin with all required fittings. -Supply and installation of mirror 60 x 40. - Supply and installation of soap keeper. -Supply and connected with pipe 3" to 4"PVC main pipe. -Supply and insatllation of mixer cold and hot system to each Wash Basin. -Supply and installation of PPR pipe, dia=20mm, with all required fittings with connection to the nearest water pipe 32m.	No	9.00		
Sub Total					-
Total Cost for BHC Dara Shakh Project					-
The works actually executed shall be measured, contractor shall visit the site of the works and obtain all information that may be necessary for completing their offer as under the provision of this contract no claim for additional work is accepted once the contract is signed.					

Prepared by: Sayed Masoud Tural

Designation: WASH Engineer

Signature:



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Date

Sep 1, 2024

Techncial Review by: Farooq Jawid

Designation: WASH Adviser

Signature:



box SIGN 1JRW5XYR-4L68JW6K

Date

Sep 1, 2024

Techncial Check by: Yama Hewadmal

Designation: WASH Technical Coordinator

Signature:



box SIGN 4YWZR85Q-4L68JW6K

Date

Sep 1, 2024