

**German Red Cross-Bangladesh Delegation**

**Bill of Quantity (BoQ) for DTW**

S.L	Description of Item	Quantity	Unit	Unit Price (In BDT)	Amount (In BDT)
1	<b>Site Preparation</b>	1	LS		
2	Drilling the borehole; water jet with rotary cutting methods to be followed; upper casing 0 feet to 150 feet drilling cutter dia 7" (for 4" dia casing), the lower casing 150 feet to 750 feet drilling cutter dia 5" (for 2" dia casing). Collection of soil sample at 10 feet interval and preserve it in a white sampling poly-bag, respective field Engineer will prepare the bore-log. (This item include labor charges) N.B. Cowdung is forbidden to use.				
	a) Borehole Drilling @ 7" dia (cutter), 0.00 feet to 150.00 feet	150	Rft		
	b) Borehole Drilling @ 5" dia (cutter), 150.00 feet to 490.00 feet	340	Rft		
	c) Borehole Drilling @ 5" dia (cutter), 490.00 feet to 750.00 feet	260	Rft		
3	<b>Plumbing work:</b> Carrying, fitting, fixing of required plumbing materials such as submersible pump in place, uPVC pipe, filter and blind pipe having check valve at the end, requisite fittings and fixtures, seal tape, solvent cement, etc. All complete according to the instruction of Engineer-in-charge				
	a) Sand trap; 2" dia uPVC pipe (RFL/N.polymar, class-D)	10	Rft		
	b) Filter; 2" dia uPVC robo-screen/filter (RFL/N.polymar, class-D)	50	Rft		
	c) Lower casing; 2" dia uPVC pipe (RFL/N.polymar, class-D)	540	Rft		
	d) Upper casing; 4" dia uPVC pipe (RFL/N.polymar, class-C)	150	Rft		
	f) PVC Reducer (4.00" X 2"), (RFL/National/ Aziz/equivalent brand, best quality brand available).	1	nos		
	g) <b>Hand Pump:</b> Made cast iron( Beral height 510mm, dia 88.9 - 89.7mm and 6.5mm thickness ) RFL Heavy duty brand, weight 27.5 -29kgs.	1	nos		
	H) <b>Bottom flange:</b> (100mm dia, 3.50 mm - 3.70 mm wall thickness, 2' -6"long GI pipe with 7"x0.5" steel fanas and gasket).	1	nos		
	i) <b>Raising pipe for deep set pump:</b> 2" dia. uPVC thread pipe, wall thick 2.5 mm - 3.00 mm,10 feet long each with PVC Socket Aziz / National / RFL best quality brand available in the market).	100	Rft		
	j) <b>Top rod:</b> (12mm dia, 2' - 6" long galvanized MS rod with one end of 36mm dia MS boss and another end of female connector).	1	nos		
	k) <b>Pump rod:</b> (10mm dia, 10' -0" long SS rod with male/female end connectors).	10	nos		
	l) Auto Deep Cylinder: (500 mm dia, 2' - 0" long, 5.00mm - 6.50 mm wall thickness PVC Cylinder with planger assembly ).	1	nos		
	m) <b>GI Connector:</b> (37mm dia, 3.50 mm - 3.70 mm wall thickness, 1' -0"long GI pipe with P	1	nos		
	n) Solvent cement/Gum tube wt. 500 gm (best quality/brand/konne japan).	1	nos		
4	<b>Sand Packing</b>				
	a) <b>Lower Borehole:</b> Filling up the space between bore hole & the tube well by coarse Sylhet sand (FM-2.00) from bottom of the bore hole and 6 meter above the filter.	80	Rft		
	b) <b>Middle Borehole:</b> Filling up of the space from the top of the coarse sand up to 6m with the balls of 0.118 - 0.196 mm dia which is made of bentonite & local clay of 1:1.	20	Rft		
	c) <b>Upper Borehole:</b> The remaining bore hole spaces are filled with local clay as per specification and direction of the EIC.	650	Rft		
5	<b>Pump test/Development:</b> Complete washing (Air lifting 300-400 ltr/min, well jet 1000 ltr/min),the tube well (borehole) to get sand, odour and tubidity free drinking water at a satisfactory yield, the tube well have to pump continuously to get the target quality of water (minimum 24 hours pump test, 6 hours step draw down test and 90 minutes recovery test by mechanically). All complete as per specifications and direction of the E-I-C.(This item include all cost). (please provide the specification of Pumping Pump, jet	1	LS		
6	<b>Construction of 6ft X 6ft (1.83m X 1.83m) platform with (1'x1'x1'-6") Grease trap;</b> through leveling/dressing and manually compaction of site,10" width trench cutting at a depth of 10" thick 2 layers of brick work as a foundation, 5" thick brick wall 6 layers (1.5ft), should be used 10mm iron rod @10"C/C in both directions, sand filling and compaction in the plinth up to 9" height, laying off 1 layer brick soling (leveled to the brick wall), 3" thick (1:2:4) CC casting over the brick soling including 24"X12" X12" CC block towards downward from the surface, conduct brick masonry work for the steps over 3" thick CC casting and provide 5" wide surrounding boarder and (1'x1'x1'-6") sizes of grease trap with necessary materials e.g. 4" elbow, socket, Tee and pipe etc. The Grease trap will be connected to an existing drain or low lands with 2" dia PVC pipe (class-C). First-class brick, 1st class khoa, coarse sand, and Rubi/Scan cement are recommended. The work should be completed as per the design and instruction of Engineer-in-Charge.	1	nos		
				Total	
	<b>In Word:</b>				



**All unit prices are without VAT and including TAX.**

**Validity of Quotation minimum 180 days from the deadline for submission.**

***Date of Quotation:***

**Stamp and Signature of Bidder**