

Subject: Borehole Drilling and Installation of Hybrid pumping system (Solar and electricity)- Al Buluk Hospital

Project: Omdurman

Date: August 2025



Project: Omdurman		
Location: Al Buluk Hospital		
Description: Borehole Drilling and Installation of Hybrid pumping system (Solar and electricity)		
Contract Number:		

No.	Description	Unit	QTY	Unit Rate (SDG)	Total (SDG)	Comments
General						
Sub Total:						
Borehole Drilling and Installation of Hybrid pumping system (Solar and electricity)						
1	Conduct Geophysical surveys	JOB	1			
2	Mobilization and Demobilization, materials, It include drilling rig, compressor, etc.	JOB	1			
3	Drilling of 10" diameter borehole from 0 to 160 m to accommodate 8 inch diameter casing	M	160			Approximate
4	Supply and install 8-inch uPVC	M	140			
5	Supply and install 8-inch uPVC filters slotted casing	M	20			
6	Supply and install gravel pack depending on the formation and productivity requirements.	M3	10			
7	Supply and installing conductor iron pipe 10 inch 6meter length 5mm thickness	M	6			
8	Bentonite Clay seal backfill depending on formation and zone isolation needs	M3	5			
10	Well development by airlifting until water is clean, after that testing of the turbidity must be less than 5 NTU as per SWC test & site engineer acceptance	JOB	1			
11	Conducting Step drawdown test (2 hours) in 3 steps, and constant rate test (2 hours), and recovery test for (1 hours).	JOB	1			
12	Conduct water sample physical, chemical, and bacteriological analysis Total report	JOB	1			
13	Clean and disinfect well post drilling and pump testing	JOB	1			
Sub Total:						
Supply and Install Submersible pump and Solar system (The solar system calculations are approximate and subject to change based on the results of the water pump test, which may affect the overall cost of the solar system installation and prices will be adjusted in contract based on actual calculations)						
14	Solar Submersible Pump 7.5–10 kW (150 m head)	No	1			
15	MPPT Controller (10–12 kW rated)	No	1			
16	Solar Panels 550 Wp	No	18–20			
17	Mounting Structure for 20 panels	LS	1			
18	Electricals (cables, breakers, surge protection)	LS	1 set			
19	Installation & Transport (solar system)	LS	1			
20	Hybrid Inverter (solar + grid, 10–12 kW rated)	No	1			
21	Automatic Transfer Switch (ATS)	No	1			
22	Riser Pipe (uPVC or HDPE)	m	145			
Sub Total:						
TOTAL :						

Signed an agreed by both parties to the contract in DUPLICATE.

Contractor's Name: _____

Client's Name: _____

Signed:

Date:

Signed:

Date: