



BOQ for the rehabilitation of one water yard and equipped with a solar power system in Abu harira site.

Date of BoQ		23-Nov-25			
HA - Sudan Al Jazeera State office					
#	Items	Unit	Quantity	Unit Cost (SDG)	Total Cost SDG
Supply and install Solar power system					
1	Supply and installation of Inverter Motor 11 KW, 380 Rated Output Power 11kw,(parallel system), Absolute DC input voltage between (380~415 v), Rated Output Voltage 380V/3ph AC Output Frequency 50-60 Hz Working Efficiency>98% Harmonic distortion is less than 3%. Warranty after installation should be for 5 years at least for the inverters.	PCS	1		
2	Supply and installation of Solar Panel equivalent to Jinko 550 Watt ,Power output (W)590 W Cell Type: mono-crystalline, Operating PV temperature ranges between -10 °C & + 85 °C., Module Efficiency shall be at least 19%. The PV module frame should be made from Anodized Aluminum. The Photovoltaic modules should be manufactured not before 2025. The warranty for module defects after installation should be at least 20 years. The awarded Proposer shall provide a manufacturer's power guarantee for all PV modules that will be installed with their serial numbers, which guarantees that the loss of the output is not more than 10% during the first 10 years and up to 20% in total after 25 years.	PCS	20		
3	Submersible Pump with long Cable 7.5 , 380 V , H= 70 - 90 m , Q=30- 45 m³/hrs ,Ø = 3"equipped with all necessary junctions.	PCS	1		
4	Supply and install MC4 Male and Female	PCS	4		
5	Supply and carry out the connection of Electric Cable DC 10 mm	M	70		
6	Provide and installation of Protection box with suction DC fan with Fuse 1000 V, 100 Amp, size 40 CM X 60 CM	box	1		
7	Provide and installation of Change Over Switch 100 Amp, Germany or India established	box	1		
8	Provide and installation of control panel with Contactor ,overload 20 Amp , Circuit Breaker three phase AC 63 Amp	box	1		
9	Provide and installation of Stand for Solar Panel ,Manufacture and assembly of steel solar panel holder for 20 panel , It must be painted against rust and agreed color (Blue)	Stand	1		
10	Provide and installation of Protection box 40 cm* 60 cm for solar inverter with DC cooling fan.	box	1		
11	Provide and installation of DC Junction Box with Circuit Breaker 100 Amp.	box	1		
12	Provide and installation of sing Board 1 with Human Appeal and UNICEF and Uk Logo 1 M X 1.5 M and legs 1 m.	Lum sum	1		
Rising main pipe for borehole					
13	Supply and install a Galvanized heavy duty pipe 3 inch length 3 meter	PCS	18		
Main water pipe line					
14	Supply and installation of control Ball valve heavy copper quality three ball valve 3 inch for outlet of the elevated tank and four ball valve 2 inch for donkey watering point.	Valve	4		
	Supply and installation HDPE pipe 4 inch, including digging installation and backfilling the work will ensure all engineering specifications and standard.	ML	50		

Fence				
15	Provide materials (Gabain sheet 2mm thickness, Height 1.8 m, length 75 m, heavy Angular iron 3 mm thickness, 3 inch size columns, cement, gravel, sand, Iron bar 12mm, tie wire, painting, and carry out the installation of fencing for area 15 m long *15 m wide, with 15 m partition, cut the heavy 2.2 m and fixed with concrete ratio 1:2:4 footing size (0.40m x 0.40m x 0.50m). and weld the corners supported heavy angle 1.2 m and fixed with interval of 2.5 m and apply the Gabain with full tightened with steel wire (2mm) at each 0.50m and diagonally between supports. supply iron bar 12 mm and welded horizontally three strips with interval of 0.7 m, ensure all engineering specification and SWC standard.	ML	135	
16	Supply a metallic angle heavy and cut it 0.5 m and weld it at the top of the distributed supported columns, 20 angles to be like V, and supply anti-rust galvanized protection wire with a diameter of 0.5 m and carry out the installation accordingly .	ML	75	
Control room				
17	Supply construction materials (heavy zinc sheet and square pipes 8" x4" heavy duty, Cement, concrete, sand, welding rod, and screw) and implement the installation of the control room accordingly, and Construction of Power control Room 4 m length X 3 m width X 3 m height, construct room platform 3m width*4m length with 0.07m thickness and ensure all engineering specification as per WSC.	room	1	
18	hire a winch truck for borehole dismantling and installation, and carry out work at the borehole accordingly, including the installation process of the new submersible pump and other fittings.	truck	1	
19	Provide and installation of Main Gate height 1.80 m*length 3.50 m for water yard. Gate size (1.8m x 3.50m) consists of 2 liftslab filling is with steel sections 2x4cm vertically and horizontally each 20cm. Gate supports are from steel sections 5x10 cm fixed on plain concrete footing (0.50m x 0.50m x 0.60m). All steel sections must be painted with red-oxide paint and 2 coats of approved oil paint.	Lum sum	1	
20	Supply materials and install a sign board and fix it in the elevated tank and wall	PCS	2	
Total in Word SDG				

Company/NGO/CBO Name:

Name of Director:

Signature and stamp

Date: