



BOQ for the rehabilitation of one water yard and equipped with a solar power system in Al-bashgra village Al-khalawi site

Date of BoQ 12/1/2025

HA - Sudan Al Jazeera State office

#	Items	Unit	Quantity	Unit Cost (SDG)	Total Cost SDG
Supply and install Solar power system					
1	Provide and installation of Inverter Motor 18 KW, 380 V.Rated Output Power 18 KW,(parallel system), Absolute DC input voltage between (380~415 v), Output Wave Pure Sine Wave, 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 590 W Cell Type: mono-Poly 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	40		-
3	MC4 Male and Female	PCS	4		-
4	Electric Cable DC 10 mm	Meter	70		-
5	Provide and installation of Protection box with suction DC fan with Fuse 1000 V, 100 Amp, size 40 CM X 60 CM	box	1		-
6	Provide and installation of Change Over Switch 100 Amp, Germany or India established	box	1		-
7	Provide and installation of control panel with Contactor ,overload 20 Amp , Circuit Breaker three phase AC 63 Amp.	box	1		-
8	Provide and installation of Stand for Solar Panel ,Manufacture and assembly of steel solar panel holder for 40 panel , It must be painted against rust and then painted purple.	Stand	1		-
9	Provide and installation of DC Junction Box with Circuit Breaker 100 Amp	box	1		-
10	Provide and installation of Sing Board 1 with Human Appeal and UNICEF, SWC and Uk Logo 1 M X 1.5 M and legs 1 m.	Signboard	1		-

	Fence				
11	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.	M2	135		-
12	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				
16	Supply materials (¾inch size gravel, clean sand, welding rod, and regrated Zinc 0.35 mm) and carry out the repair of existing of control room 4m X 3 m X 3 m length, width and height respectively, and construct room platform 3m width*4m length with 0.07m thickness and ensure all engineering specification as per WSC.	room	1		-
	Supply heavy-duty pipe, Heavy Duty 2 mm x 1 m for borehole protection, and supply construction materials and fix the heavy pipe with concrete accordingly, and carry out the control room platform for the area 3 m width*4 m long*0.05 m thickness	PCS	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 leafes. Leaf 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) and welded with supported steel section to support the columns. All steel sections must be painted with red-oxide paint and 2 coats of approved oil paint.	Door	1		-
Total in Word SDG					SDG -

Company/NGO/CBO Name:

Name of Director:

Signature and stamp

Date: