


BOQ for the rehabilitation of one water yard and equipped with a solar power system in Rufaa- Al-Zink 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	Provide and installation of Inverter Motor 11 KW, 380 V.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	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		
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 20 panel , It must be painted against rust and then painted purple.	Lum sum	1		
Conveyance system					
9	supply galvanized pipe 3 inch, 3 m long with accessory (Elbow, coupling, union , nipple) and carry out the instillation of pipe from borehole to the mani line.	Pipe	8		
10	Supply and install of metallic Sign Board including (Human Appeal, UNICEF, SWC and Uk logos) and borehole information in coordination with Human Appeal engineer with dimension of 1 m X 1.5 m and legs 2 m should be fixed up to 0.5 m deep on the ground.	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.	ML	108		
12	Supply a metallic angle heavy and cut it 0.5 m and weld it at the top of the distributed supported columns, with angle of 20- 30 degree 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	60		
	Control room				
13	dismantle of existed control room, Supply construction materials heavy zinc sheet 0.35 mm, cement, gravel, sand, welding rod, and screw) and carry out the repair of Power control Room with dimension of 4 m X 3 m X 3 m long, width and height respectively	room	1		
14	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		
15	Supply heavy-duty pipe, Heavy Duty 2 mm diameter x 1 m high 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	job	1		
16	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					

Company/NGO/CBO Name:

Name of Director:

Signature and stamp

Date: