



BoQ for Construction of 7 Hybrid Solar water pumping system in SK, CD and Blue Nile

No	Description	Total Qty	Unit	Unit Price (VAT & Transportation) Included	Total Price (VAT & Transportation) Included
1	Supply and fix Submersible pump system LORENTZ PS21800 with all accessories including motor, controller with data module, water level sensor for dry run protection and Power Pack AC, 2000S. flow rate; 5m ³ /H. Required output for 8hours is 40m ³ ,	5	pcs		
2	Supply and fix Submersible pump Grundfos SP3A, AC/CD (2.2 KW, Denmark made) with all accessories including, motor, controller and water level sensor for dry run protection. flow rate: 5m ³ /H. Required output for 8hours is 40m ³ .	1	Pcs		
3	Supply and fix Submersible pump Grundfos (1.4 KW, SQS 2.5) AC/CD Denmark made) with all accessories including motor, controller and water level sensor for dry run protection. Flow rate: flow rate; 3m ³ /H. Required output for 8hours 24m ³ .	1	Pcs		
4	Supply crystalline solar Module 250 Wp with junction box.	66	pcs		
5	Supply module Support Structure for Solar array in item (3) above, 15° tilt angle for ground installation and to withstand high wind speed (40 km/h)	7	set		
6	Supply flexible 4 core 4x10 mm ⁴ (black & red)., pump drop cable with hose of 40m PVC 1 inch including termination kits.	7	roll		
7	Supply Galvanized pipe 1.25-inch diameter, 3.5 mm thickness (heavy) and 3 m long including all fittings	105	pcs		
8	Supply and fix change over switch 75A (Italy or India made)	7	pcs		
9	Install system earthing, lightning protection (diameter of 50cm and length of 100cm, piece of copper and coal with salt.	7	set		
10	Supply steel box to accommodate the controllers, inverter, switch & JB with good ventilation and two locks mounted separately under array	7	pcs		



11	Welding of solar modules with good quality painted angle for protection	7	Job		
12	Construction of solar panels protection fence 20x20x2m (from good quality materials) painted heavy angle 2-inch, Gambian wire10x2m & barbed wires on top, and door with locks.	7	fence		
13	Construction of water distribution points 3x2x1.2m from bricks, install ceramics at all sides, with good quality 6 water taps, apron, drainage and connect it with the tank.	7	wp		
14	Construction of Animal trough for goats, sheep, and cows according to the drawing	14	pcs		
15	Construction of 15 cubic meters cylindrical elevated water tank	7	tank		
16	Installation of Generator John Dong 18 HP diesel with power 7.5 KW including cooling system.	7	Gen		
17	Construction of Generator room 3.5 X 3.5 X3m with a square pipes and iron sheets, concrete floor, windows, door with locks.	7	room		
18	Supply and fix all in one street solar light 80w with 90-100 LM/W luminous flux, 3000-6500K color temperature, 120° beam angle, 8-12 hours discharging time, polysilicon photovoltaic panel, IP65 waterproof grade with metal post of 5m height from ground level.	50	pcs		
18	Installation costing	7	Job		
	Total including Transportation and VAT				