

REF No. CM/Q/ORN/SRT/265416
DATE: 25th July, 2022

ROTARY CLUB OF NGONG
OLOLUA PRIMARY SCHOOL

Dear Madam,

PART 1

REHABILITATION OF THE BOREHOLE PUMP

Following the Survey, we noted the motor is faulty, which was the cause of initial pump failure, therefore the pump must be retrieved from the borehole and motor replaced.

Below is the quotation

DESCRIPTION	QTY	VAT	UNIT PRICE	AMOUNT
BOREHOLE PUMP LIFTING	1	16	35,000.00	35,000.00
GRUNDFOS 9.2KW 6" 3PH SUB-MOTOR	1	16	351,000.00	351,000.00
INSTALLATION SUNDRIES	1	16	10,000.00	10,000.00
BOREHOLE PUMP RE-INSTALLATION & ELECTRICALS	1	16	35,000.00	35,000.00
			Subtotal	431,000.00
			VAT	68,960.00
			Total KES	499,960.00

PART 2

SOLARIZATION OF 9.2KW MOTOR FOR THE EXISTING SP 17-17 PUMP

We refer to your recent site survey contacted on **21st and 22nd July 2022**, and are now pleased to forward to you our offer for the same, terms and conditions as below: -

1. REQUIREMENTS.

To power an existing pump with 9.2kW 3-phase motor with solar power.

2. EQUIPMENT

A. **The Existing Pump** –constructed of stainless steel and fitted with 9.2kW 3-phase motor.

Control Unit - The controller **Sunverter 3 11kW** is used for controlling of the pump system, monitoring of the operating states and incorporates the following alarm functions: over current, under voltage, over speed, over temperature, reverse polarity, low water. It has an integrated MPPT (Maximum Power Point Tracking) which maximizes power use from PV modules. The unit is housed in a damp proof enclosure with external display for current running data such as: input/output current/power/voltage, pump speed, temperature. The control unit also offers the facility for connecting a high-level control float switch.

B. **Solar Panels** – **30 panels of 535W (16,050W output)**, 24V, **Mono-crystalline** PV solar modules with a reserve capacity over the rated power requirement of the pump. 15Pieces will be wired in series to provide the voltage requirement of the pump and 2 string.

C. **Ground Mount structure for Solar Panels** – Ground mount support structure for mounting the solar panels.



Ground Mount structure

3. COST

We have made provision to supply the following equipment and accessories for the work:

	ITEM	QTY
1	SUNVERTER 3 11KW SUNVERTER	1
2	DAYLIFF 535W 24VDC MONO-CRYSTALLINE SOLAR MODULE	30
3	PV DISCONNECT SWITCH 1000V/40A	1
4	LIGHTNING ARRESTOR	1
5	ENCLOSURE UNIT(1000mm*700mm*250mm)	1
6	EARTHROD C/W CLAMP	1
7	6MM2 COPPER EARTH CABLE	20
8	1.5MM 2CORE UG CABLE & FLOATSWITCH	1
9	6MM2 TWIN FLAT WITH EARTH CABLE	40
10	INSTALLATION ACCESSORIES	1
11	GROUND MOUNT SOLAR STRUCTURE	1
12	INSTALLATION LABOUR	1

COST

	ITEM	QTY	GROSS
1	SOLAR INSTALLATION SUNDRIES & ACCESSORRIES	1	2,100,250
	SUB-TOTAL 1		2,100,250
	Less Discount		236,585
	SUB-TOTAL 2		1,863,665
	Add 16% VAT		118,581
	GRAND TOTAL IN KSHS		1,982,246

PART 3.

FENCING COST

	ITEM	QTY	GROSS
1	FENCING COST(concrete post, barbed wire, Chain link fence & gate)	1	148,300
	SUB-TOTAL 1		148,300
	Add 16% VAT		23,728
	GRAND TOTAL IN KSHS		172,028



Pic 3

Please note the following: -

- a. Prices quoted are in Kenya Shillings.
- b. No connections should be made to auxiliary solar applications such as lighting, etc.
- c. We have allowed for a maximum **7days** for the completion and commissioning of this work; allowing for travel by our installation crew to site, erection of the support structure, Cable Connections between pump, controller and the solar *modules* and mounting of the solar modules, testing and commissioning and return to our Nairobi offices. If through no fault of our additional time will need to be spent on site extra charges will be raised accordingly.
- d. This quotation provides for Solarization of the borehole pump.

4. DELIVERY

The equipment is available ex-stock though offered subject to being unsold at date of order. We could complete installation within approximately two weeks from date of order.

5. WARRANTY

The pump equipment and accessories are warranted for 24-months, the motor for 24-months, Solar panels 25years from date of installation for failures caused by faulty design, materials or workmanship.

6. PAYMENT

Payment terms are in full with order

7. VALIDITY

Due to input cost uncertainties, this offer is subject to confirmation at the order date.

We enclose relevant product data sheets detailing the equipment offered and we look forward to your further instructions in due course. In the meantime, should you have any queries do not hesitate to contact us.

Yours faithfully,
For Davis & Shirliff Ltd,

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