



TENDER FOR CONSTRUCTION OF WATER YARD (DRIP IRRIGATION) IN KAPOETA NORTH IRSS-NT/05/004/2022

## **BACKGROUND/INTRODUCTION**

Islamic Relief is an independent humanitarian and development UK based organization, with an active presence in over 40 Countries across the globe, we strive to make the world a better and fairer place for people still living in poverty. Islamic relief began its humanitarian operation in South Sudan in 2004 focusing on providing lifesaving aid and implementing developmental Programmes to support people affected by flood, drought and Conflict establishing three sub offices in Narus (Kapoeta East), Wau, Warrap. A satellite office in Yei and Main office in Juba.

### **Our vision:**

Inspired by our Islamic faith and guided by our values, we envisage a caring world where communities are empowered, social obligations are fulfilled and people respond as one to the suffering of others.

### **Our mission:**

Exemplifying our Islamic values, we will mobilize resources, build partnerships, and develop local capacity, as we work to:

Enable communities to mitigate the effect of disasters, prepare for their occurrence and respond by providing relief, protection and recovery.

Promote integrated development and environmental custodianship with a focus on sustainable livelihoods.

Support the marginalized and vulnerable to voice their needs and address root causes of poverty.

We allocate these resources regardless of race, political affiliation, gender or belief, and without expecting anything in return.

## **INTRODUCTION**

Islamic Relief is implementing a project “Resilience Water, Livelihood and Protection for Pastoralist Communities in Kapoeta North, South Sudan (RWALPAK) ”. intends to construct drip irrigation system to support women headed households to carry out vegetable growing to generate incomes in order to improve their household incomes and welfare in Natapakori Boma in Cumakori Payam in Kapoeta North.

Furthermore, the intervention will give due attention to Protection and Inclusion related matters, based on its elaborated policy on Prevention of Sexual Exploitation and Abuse (PSEA) and Safeguarding, and initiate mass gender equality and GBV awareness sessions and trainings on peace promotion and conflict reduction for key stakeholders within the communities.

In order to achieve these objectives Islamic relief intends to construct one (01) complete unit of drip irrigation system in South Sudan (Kapoeta North Natapakori Boma in Cumakori Payam). Specific objective of this scheme is to support

women headed households to carry out vegetable growing to generate incomes in order to improve their household incomes and welfare in Natapakori Boma in Cumakori Payam in Kapoeta North.

These modern drip system is IRSS's RWALPAK's 2022 funded project support women headed households to carry out vegetable growing to generate incomes in order to improve their household incomes and welfare in Natapakori Boma in Cumakori Payam in Kapoeta North.

## **1. Scope of Work:**

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The Construction work of the water mini yard (drip irrigation) is expected to be implemented in Natapakori Boma in Cumakori Payam in Kapoeta North in Eastern Equatorial state. The general work of the water yard to be done including; drilling of new borehole, installation of solar system including the control system, installation of submersible pump, plumbing work, construction of drip systems, and construction of fence & spread of selected quality of aggregate in the fence. All cost of work should also include the cost of local materials, labour, transportation and any other related costs inclusive.

The activities are;

- a) **Drilling of new borehole.** Thorough assessment for good yield site, drill the borehole, flash, pump test until the pump recovery is 80% after completion of the test in 30 minutes, Installation of Indian MK III pedestal.
- b) **Installation of metallic tank stand:** Install a strong tank stand that will resist all the forces and bear 10,000litres (5,000ltrsX2) weight of water. Installation of two plastic water tanks of capacity 5,000litres each.
- c) **Solar system:** Installation of solar power system and the control panel system to supply power to the submersible pump that will lift water from the borehole to the tank.
- d) **Submersible pump:** Installation of submersible power pump to pump water from the borehole to the tank inclusive of provision for cable wire.
- e) **Plumbing work:** Connection of all the plumbing system from the borehole to the tank and up to the drip system.
- f) **Fence:** There will be provision of fencing the area around the water tank with chain link, dimension of 6.0mx5.0m. Aggregates of selected quality 15-20mm diameter size to be spread in the fence to avoid mud and stagnant water under the tank in case of spilling water.

## **2. Objectives:**

To provide adequate water supply source to support women headed households to carryout vegetable gardening to diversify their income generating sources.

### **3. Tasks and expected days of work**

The contractor is expected to carry out the job accordingly, while assigning specific and clear tasks of jobs to specific team group e.g. Technicians and masons. The work is expected to take maximum of 40 days including mobilization.

### **4. Roles and responsibilities**

#### **The contractor:**

- a) Is solely responsible for provision of all the materials, services, transportation and personnel needed for the work, ensure that all materials/spare parts, services and personnel conform to approved grade, skills and standards.
- b) Responsible for the team deployed for the work, all their basic needs are catered for, should not interfere with the work.
- c) Regular update to WASH officer/technician in the field office, Challenges and constraints should be reported and challenges addressed.

#### **IRSS:**

- a) Responsible for coordination with authorities, communities and other stake holders in all matters pertaining to the construction work.
- b) Conduct regular monitoring visits, inspection of all materials and services involved in the work.
- c) Will provide guidance and advice and support as deemed necessary.

### **6 Interface**

- a) Ensure there is very good line of communication and coordination between Islamic relief and the contracted company, is well established.
- b) All communication and coordination should be done through the company focal person assigned for that and the organization's officer in the field office.
- c) No direct communication between any company staff and IRSS, unless an informal one.
- d) IRSS engineer can be directly contacted any time for consultation and advice.

### **7. Reporting**

Contractor to report on each phase of work successfully completed, this includes: Phase Geophysical survey, drilling, pump testing, water quality testing, Installation of pedestal, construction of tank stands, Installation of solar and submersible pump, construction of tap stands, Inspection, decommissioning and handing over.

### **8. Handing over**

- a) Final inspection will be jointly conducted with the ministry and directorate of water resources including the representative from the respective communities. Various components of the facility will be inspected and verified, according to the check list. In case of defaults in any component, has to be rectified before final handing over is done.

- b) After the facility is handed over, IRSS will carry out post construction monitoring for a period of three months for any defect liability that may show up.
- c) Each water yard will be branded with visibility having IRW logo as specified in the BOQ.

**DELIVERY DETAILS**

<b>Case</b>	<b>Delivery Destination</b>
<b>Supplier must have export permission or be able to supply locally from South Sudan.</b>	Delivered Duty Paid (DDP) to defined destinations inside South Sudan South Sudan (Kapoeta North Natapakori Boma in Cumakori Payam)

All tenders are required to be submitted before **Thursday 9th June 2022, 4.00 pm Local time** pursuant to the attached guidelines for submitting a quotation and be returned to; **HAND DELIVERY TO IRSS TENDER BOX** Hai Cinema, 2nd class, Plot no 52, Block B-XVI, South Sudan upon registration on the bid receipt form.

For any issues relating to the tender or its contents please email directly to; [IRSS.Tender@islamic-relief.com.ss](mailto:IRSS.Tender@islamic-relief.com.ss)

**All quotation providers are requested to fill in Appendix 1 and 2 below when submitting their proposal to IRSS**

**APPENDIX 1**

**Summary of Bid Prices**

<b>No.</b>	<b>Description</b>	<b>Total Price in USD (\$)</b>
<b>1</b>	<b>Grand Total Bid Price</b>	
<b>2</b>	<b>Discount Ratio (if any) ... % and the amount</b>	
<b>3</b>	<b>Grand Total after Discount</b>	
<b>4</b>	<b>Delivery time scales (in days)</b>	
<b>5</b>	<b>Quotation Validity</b>	

We have carefully checked and examined all bid documents and we are offering the costs above on a fixed basis and they are not subject to any changes or alterations including those due to currency fluctuations.

Total Price **USD (\$)**

In words [ \_\_\_\_\_ ]

Bidder's Signature

Stamp

Date

**Bidder is required to stamp this document with their legal company stamp no bid will be accepted without a genuine company stamp**

## APPENDIX 2 BILL OF QUANTITIES

Please also use our table when filling the prices. If you do not have the item just keep it empty. Your offer should be for the quantity that we request, not less and not more.

Please only use USD (\$) as the currency for your offers as per the guidelines.

### **BILL OF QUANTITY FOR CONSTRUCTION OF SOLAR POWERED MINI WATER YARD WITH DRIP IRRIGATION SYSTEM.**

#### **SITE LOCATION:**

SITE	LOCATION	PAYAM	DISTANCE FROM KAPOETA SOUTH TOWN
Site 01	Natapakori	Cumakori	45 km

#### **BILL OF QUANTITY FOR CONSTRUCTION OF DRIP IRRIGATION:**

S/no	Item description	Quantity	Unit	Unit cost-USD	Amount - USD
<b>1.00</b>	<b>Preliminary.</b>				
1	Preliminaries-physical assessment and survey of the site.	01	Job		
2	Mobilization-transportation of who drilling unit to site, setting up and dismantling of drilling equipment and other support units.	01	Job		
3	Carry out hydro geological survey of the site to identify the most potential location for borehole drilling. Allow for taking of 03 VES profiles, including clearance of bush for running of electrodes.	01	Job		
4	Drilling of borehole 9-10 inches diameter from 0-125m depth.	100	Meters		
5	Drilling of the borehole 8-9 inches diameter from 0-100n depth	20	Meters		
6	Supply and install 6 inches nominal diameter UPV screen casing casings with end cap, at aquifer zones.	12	Meters		
7	Supply and install 6 inches plain UPVC casing with threads, at non aquifer zones.	108	Meters		
8	Supply and install 8 inches diameter plain permanent casing including sanitary seal of grout cement	06	Meters		

9	Provide and insert filter gravel packing 2mm-4mm size, well placed.	2.5	M3		
10	Allow for borehole development work (surging/flushing by air of completed well until the water is crystal clear)	3.00	Hours		
11	Mobilization –carry out pumping test, 6 hours step draw down and 4 hours constant discharge test-including installation, removal of pumping test equipment and water level observation-for not less than 10 hours	01	Job		
12	Provide and install for well head, Indian MKIII pedestal with appropriate cap and outlet. Allow but 1:2:4 plain concrete in 0.60X0.60 apron at well head.	01	Set		
13	Supply and install solar powered submersible pump of capacity 1,400Watt, phase 1, Q=3,500 liters/hour, corresponding to the capacity of the well drilled to the capacity of the well drilled to 80m-125m head. Preferably SQF series Model DP2 18 13, VDC 30-300, VAC 1X90-240 V. Cables and accessories. Ensure electrical cables from well head to CU are protected in a conduit.	01	Set		
14	Ditto ditto 1" PVC riser mains from pump to well head, complete with safety wire and plastic cable camps.	110	Meters		
15	Supply and install-solar panel (preferably 120-200watt solar panels) corresponding to pump capacity complete with CU box, stands, cables and other accessories)	01	Set		
16	Provide, manufacture and install tank tower as per specifications provided in the technical drawings.	01	Set		
17	Provide but 1:2:4 r.c in footings as specified in the technical drawings.	2.5	Pieces		
18	Supply and installed two PVC tanks 5,000 liters each, complete with provision for 1" inlet and 2" outlet. Preferably from ROTO tanks. Provision of 2" gate valve supply and install 2"G.I. Pipes from tank out let to ground level connecting to main line	02	Pieces		
19	Supply and install 1" HDP pvc from well head to tank	16	Meters		
20	Supply and install 2" water meter down at ground level outlet, Completed in a 0.4X0.40m manhole box with laid and provision of locking.	01	No		
21	Supply and carry out fencing around the, tank to perimeter of 28m long (7.00X7.00m)-provision of 2 1/2" angled iron bars for main posts and strainers, chain link, razor wire, line	01	No		

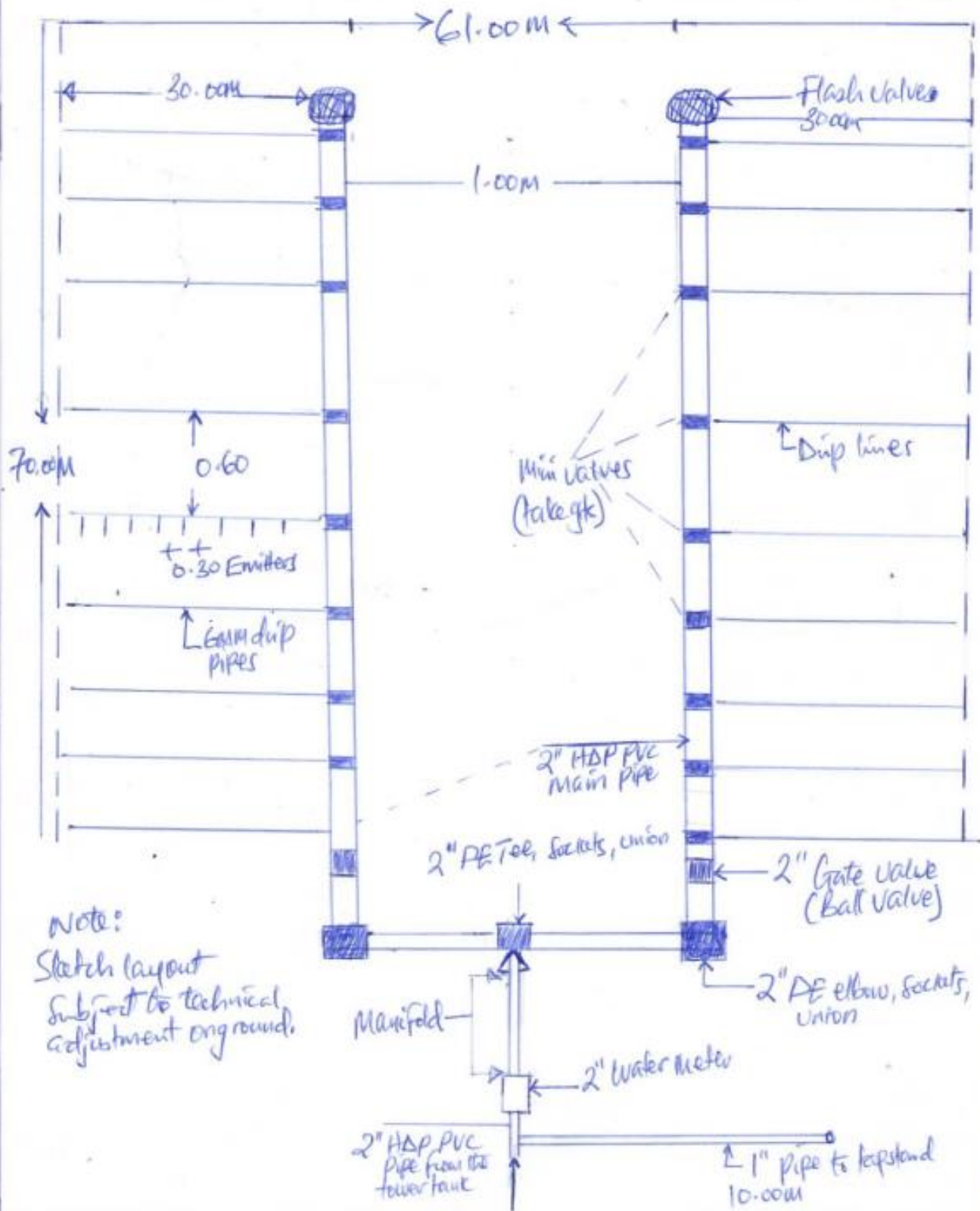
	wire, gravel, cement, sand etc. and a metallic gate complete with provision for lock.				
22	Decommission –demobilization of the drilling unit and support system. Removal and disposal of extra drilling wastes generated from the activity.	01	No		
23	Provide and install 2"screen filter of 150-200micron, non-corrosive, complete with fittings.	01	No		
<b>Subtotal (01) water system development</b>					
<b>Item (2) drip irrigation system development</b>					
24	Supply and install 2"HDP and pvc pipes in manifold complete with necessary fittings as shown in the technical drawings.	5.0	meters		
25	Supply and install 2" HDP pvc pipe in twine main lines from the manifold that runs parallel to each other, each main is 70.00m long and equipped with 2" gate (ball) valve, complete with all the necessary fittings (2" PE elbows, sockets, unions, nipples). Provision of 02 flush valves fixed at end of each drip main lines.  Each main line will be supported on the ground using 6mm dia. x 150mm long U-hold downs at 3.5m intervals to ensure the main line is well aligned and does not move sideways.	140  40	Meter  Pieces		
26	Supply and install 16mm dia. Lateral drip pipe has emitters fixed at 30 com spacing, use of short-path emitters (for 2.0l/hr.-0.6gph). there is going to be 83 emitters/each drip pipes, overall total of 19,256 emitters.	5,800	Meters		
27	Supply and install mini (shut-off) valves connected to each drip line	232			
28	Provide and allow for setting up of one tap stand 5 meters away from the main line-1" G.I. pipe, 0.80m high completed with 3/4" water tape, 1:2:4 plain concrete work for 1.00mx1.00m apron with raised edges in apron. Allow for provision all fittings required.	01	No		
29	Allow for provision of two sign posts as describe below: Sign post (a)Height 0.8mx1.20m, firmly fixed on the tank cage. Sign post (b) height 0.8m x length 1.20m on metal legs 1.80m high from the ground level, this sign post is firmly fixed near the entrance gate to the farm land.	02	pieces		
30	Facilitate training for 4 drip irrigation operators right from the system installation up to completion stage.	04	job		
31	Decommissioning and hand over	01	No		

### TECHNICAL SKETCH DRAWING





# GROUND PLAN FOR DRIP IRRIGATION SYSTEM IN KAPOETA NORTH COUNTY, NATAPAKORI BOMA (CUMAKORI PAYAM)



## Supplier Code of Conduct

### 1 Islamic Relief's Supplier Code of Conduct

### 2 Islamic Relief Worldwide requires all suppliers to adhere to:

The Modern Slavery Act 2015

The International Labour Standards as defined by the ILO (International Labour Organisation).

The United Nations Global Compact's 10 principles as stated below:

#### Human Rights

**Principle 1:** Businesses should support and respect the protection of internationally proclaimed human rights;

and

**Principle 2:** Make sure that they are not complicit in human rights abuses.

#### Labour

**Principle 3:** Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining;

**Principle 4:** The elimination of all forms of forced and compulsory labour;

**Principle 5:** The effective abolition of child labour;

and

**Principle 6:** The elimination of discrimination in respect of employment and occupation.

#### Environment

**Principle 7:** Businesses should support a precautionary approach to environmental challenges;

**Principle 8:** Undertake initiatives to promote greater environmental responsibility;

and

**Principle 9:** Encourage the development and diffusion of environmentally friendly technologies.

#### Anti-Corruption

**Principle 10:** Businesses should work against corruption in all its forms, including extortion and bribery.