



## **TENDER FOR UP GRADING OF TWO (02) HIGH YIELD BOREHOLES TO SOLAR-POWERED MOTORISED WATER MINI YARDS IN YEI (REF IRSS-YEI-05/007-22)**

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### **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 the flood, drought, and Conflict establishing three sub-offices in Narus (Kapoeta East), Wau, Warrap. A satellite office in Yei and the 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 South Sudan is an international humanitarian organization that has been working with vulnerable communities in South Sudan since 2004, towards Emergency relief and recovery interventions. IRSS through funding from IR USA through the Building Resilience Initiative for Yei IDPs and Host Community project (BRYICS) is responding to priority needs of the conflict affected population of Yei River County. Through improvement of the livelihood status of the targeted communities by rendering support towards agricultural production. Hence building resilience towards sustainable livelihood. Provision of clean, safe and sustainable water supply is one of the components of the project that will ultimately contribute to better condition of the targeted population.

In order to achieve these objectives Islamic relief intends to upgrade 02 boreholes into solar-powered motorized mini water yards in Yei Town. Specific objective of this scheme is to improve the health status of the targeted local population through increasing access to clean and safe drinking water to the targeted communities which will ultimately contribute to the improved health condition of the population. In this regard IRSS is sourcing for a competent bidder to carry out the proposed project in Yei County.

### **(1) Scope of the project**

- Location: The project is expected to be implemented in Yei County of central Equatoria state. The project site is located in the following locations Wuluturu and Loparate, alternatively, the sites maybe change to another location based on the pumping test result that will be conducted by the contracted company before actual upgrading work.
- The job scope would be up-grading of existing boreholes into the solar-powered motorized system, this involves the use of solar-powered submersible pumps, overhead tanks, steel tanks 12,000 litres each,
- There is going to be a dual pumping system, which means the submersible pump is integrated with solar and hand pump will be used together. A special stainless steel cylinder for the hand pump will be installed, this special cylinder is equipped with a by-pass valve that allows water from the submersible pump to pass through. A special water tank assembly with dual out-let will be used. Each out-let is equipped with a gate valve that will be used alternately.
- Elevated steel water tanks of capacity 12,000 litres will be installed on a steel tower appropriately design (as in the drawings). There shall as well be 03 water collection points (public stand posts) in each site, each tap stand post is equipped with 05 bib cocks (tapes), in a concrete/ block work stands (as per technical drawings). Public solar powered lights will be installed in each water collection point, to provide light necessary for water collection after sun set.

S/no	Project site location	Boma	Lat N	Long E
01	Wuluturu	Ronyi	04° 04' 42.4"	030° 39' 42.9"
02	Loparate	Jansuk	04° 05' 42.7"	030° 39' 23.2"

## **(2) General notes:**

### **(a) Prices and currency**

The prices quoted by the contractor shall be in United States dollars (USD), and shall not be exchangeable with other currencies. Inflation and escalation or changes what so ever shall not be subjected of claim later on.

### **(b) Materials**

All materials to be put on the project are to be of the best new standard available and recommended under BSF. Items that contains specific make with names of manufacturers are to be taken as samples of what will be required. Subject to the employer approval, the contractor may at his own discretion, offer similar products of other makes but ensure that, the equivalent quality of that product are guaranteed.

### **(c) Quantities**

All quantities given here in the BOQ shall be deemed estimated quantities of the work to be done, but they are not to be taken as 100% actual and correct quantities of the work to be executed, they are not to be taken as guaranteed, increase or decrease and any claim what so ever that comes for the cost of extra expenses incurred from such increase or decrease will not be accepted. Contractor should have allowed for small percentage not exceeding 3% of the total value as a provision for cover ups in case such situation of increase comes around. These would strictly be in plumbing work from tank out let to various water collection points, plumbing work from submersible pump to well head then from well head to the tank, concrete work on footings,

### **(d) Special conditions**

- The maintenance and repair work, in case of default in any component(s) of the system when happened due to poor workmanship, will be the responsibility of the contractor for the first three (03) months. A defect liability of 10% of the overall cost will be held back until post construction inspection immediately after the three months have elapsed. Failure to rectify any default identified and communicated to the contractor within the specified period, the organisation has the right to conduct rectification of the default from the 10% liability defect and share report with the contractor.
- Contractor shall include his price for the required training of local staff to be familiar with installation, operation, maintenance and repair work of the system.
- Child labour and modern slavery: child labour (any person under the age of 18 years), the contractor shall certify that, no child forced or indentured child labour is used to carry out any kind of job in part or whole during the implementation process. The contractor shall ensure no exploitation of human labour that amounts indirectly to modern slavery is involved.
- Protection of public: The contractor to put in place buffer zones and warning signs, all necessary to protect the public clear away from the site.
- Decommissioning: The contractor shall keep the site free and clear from all debris and wastes arising from the execution of the work. Wastes such as sharp objectives, chemicals and human

wastes that could directly cause injuries and indirectly affect have negative effect on public health.

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

- The contractor is expected to carry out the job accordingly, while assigning specific and clear task of jobs to specific team group e.g. Drillers, Geologist, plumbers, welders, masons, and water engineers and technicians. The work is expected to take maximum 45 days including mobilization. The unit price quoted in the various items in the bill of quantities shall include all operation for the execution, completion and maintenance of the various items, shall cover all aspects costs of every kind what so ever including supply of materials, transport and handling, labor costs, equipment and plant, supervision and relocation , taxes and gate pass, supervision fee to Government staff from the line ministries that does not exceed 50 USD/ site, temporary works, the performance of all works and fulfilment of obligations and responsibilities as defined.

### **Roles and responsibilities**

#### **The contractor:**

- Is solely responsible for provision of all the materials, services, transportation and personnel needed for the work, ensure that all materials, services and personnel conform to approved grade, skills and standards.
- Responsible for the team deployed for the work, all their basic needs are catered for, should not interfere with the work.
- Provide weekly update to the project officer in the field of work progress, Challenges and constraints should be reported and challenges addressed.

#### **IRSS:**

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

#### **Interface**

- Ensure there is very good line of communication and coordination between Islamic relief and the contracted company.
- All communication and coordination should be done through the company focal person in the field and the organization's project officer in field office.
- No direct communication between any company staff and IRSS, unless an informal one.
- IRSS WASH Coordinator can be directly contacted any time for consultation and advice.

#### **Reporting**

- Contractor to report on each phase of work successfully completed, this includes: pumping test result, development of the borehole, installation of the submersible pump, fabrication and installation of the tower, installation of the tank including plumbing work from and to the tank, fixing of solar systems complete, construction of water collection points (public tap stand)

#### **Handing over**

- Final inspection will be jointly conducted with the County WASH Department and community leaders. Various components of the system will be inspected. In case of defaults in any component, has to be rectified before final handing over is done.

- After the facility is handed over, IRSS will carry out post construction monitoring for a period of three months as defect liability period.

### Visibility

- The contractor is expected to fix four (4) signed posts at each water yard site. There shall be 01 sign post at the elevated tank, and each one of the three water collection points will have a sign post as follows: Sign post (a) length 1.20m x height 0.80 m fix fabricated using 40mmx40mm rectangular pipes in main frames, on 2 1/2" x 2 1/2" stands angled bars for (legs) at least 1.80m from the ground level. Sign post (b) is length 1.20m x height 0.80m framed, without legs but to be fixed up on the tower cage.

### DELIVERY DETAILS

S/no	Project site location	Boma	Lat N	Long E
01	Wuluturu	Ronyi	04° 04' 42.4"	030° 39' 42.9"
02	Loparate	Jansuk	04° 05' 42.7"	030° 39' 23.2"

All tenders are required to be submitted before **Wednesday 15<sup>th</sup> 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

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

<b>5</b>	<b>Quotation Validity</b>	
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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 UPGRADING OF TWO BOREHOLES TO SOLAR-POWERED MINI WATER YARDS.**

- This bill of quantity is for upgrading one water mini yard only
- Has to be multiplied by two (02) for an overall total

Ref Number	Item description	Quantity	Unit	Unit cost - USD	Amount - USD
<b>Item (1) Water supply system development</b>					
01	Mobilization: allow for the cost of transporting all equipment, and personnel to site and demobilization at completion of contract.	01	job		
02	Site survey, preparation and set ups.	01	job		
03	Allow for overhauling of the existing hand pump, thereafter, carry out pump testing	01	job		
04	Allow for reinstalling back of the hand pump for temporary use before the submersible pump is installed.	01	Job		
05	Overhaul the hand pump, thereafter, install the submersible pump, solar hand pump cylinder using 1 1/4" G.I. pipe riser mains to depth of 60.0m( 20 pipes and connecting rods)	01	Job		

06	Provide but 1 1/4" G.I.pipes complete with connecting rods	20	Pieces		
07	Ditto ditto but special hand pump water tank assembly with dual out lets	01	Piece		
08	Ditto ditto but special solar hand pump stainless steel cylinder.	01	Piece		
09	Ditto ditto but head assembly Indian MK II	01	Piece		
<b>Pumping test</b>					
<b>10</b>	Mobilize, pumping test for step draw down and constant discharge test, including installation removal of pumping test equipment and water level observation, for not less than 6 hours, ensure 80% well recovery is achieved at end of the exercise, the pumping test aims at establishing the recharge capacity of the well and the dynamic water level, crucial for designing the pump and pumping flow rate.	01	job		
<b>Solar and pump items</b>					
11	Supply and install solar powered submersible pump ( <b>GRANDFOS</b> ). of capacity 1,400-Watt, single phase, Q= 3,500 liters/hours, H= approx.120 meters. Preferably: SQF series, Model DP2 1813, VDC 30-300V, VAC 1x90-240 V Phase 1.	01	Set		
12	Supply and install 4mm 2-3 core submersible drop cable, complete with water proof couplings.	80	Meters		
13	Supply and install 4mm 2-3 core underground cable, in a PVC conduit provision for crossing roads.	20	Meters		
14	Supply and install solar panels (preferably 100-120-Watt panels) corresponding to 1,400 Watt pump capacity. Solar	14	No		

	panels of 200 Watts is of high advantage.				
15	Solar Control panel (CU 200), 1,400 Watts, grandfos.	01	No		
	Cable splicing kits and insulation tape(cello)	01	No		
<b>TANK TOWER</b>					
16	Provide and fabricate metallic tank stand: - angle bar 75mmx75mmx 6mm thick or 100mmx100mmx4mmx 6m long, thick hollow section pipes in tower legs, 4No. - 50mmx50mmx 6mm RSA thick hollow section pipe in diagonal ties, 16No. - "H" steel bar 14mm, 02 No -50mmx50mmx6mm RSA in horizontal braces 12 NO - 100mmx100mm hollow section pipes in secondary beams 10No - Steel flat sheet 1mx2m, 02 No - 15mm dia. x 150mm long stud bolts, 16 No. - Base plate 25mm thick, 04 No - Grade 20m R.C concrete 1:2:4, 8.02m <sup>3</sup> in footings. - Steel access ladder, 01 No - Steel cage, 01 No. -	01	set		
17	Y-6 iron bar in stirrups				
18	- Y-12 iron bar 180 m				
19	- 1"x10" timber in form work, 48m				
<b>Steel tank 12,000 liters</b>					
20	Supply and install in place, Steel tank 12,000 liters, complete with Floater valve and water level sensor, well painted.	01	Pieces		
<b>Plumbing items</b>					
21	In-let from pump to tank: Supply and install 1 1/4" or 1" G.I.pipes with anti-rust proof or ( HDPE pipes could be used)	60	Meter		



22	In-let from well head: 1 1/4" or 1" one-way valve fitted alongside the gate valve in the spout outlet.				
	Out-let pipe from tank: supply and install 2" G.I.pipes from tank out-let to ground level or HDPE Pipes	8	Meter		
23	2" HDPE pipes in main lines, complete with all fittings and joints ( as in the drawings), excavation and back filling included.	400	Meter		
24	1" HDPE pipes from 2" main line to 03 water collection points (200 m to each point), complete with fittings and joints, well connected into the water collection point, excavation and back filling included.	400	Meter		
25	2" water meter installed at out let from the tank, but at ground level. Well completed in a 400mmx400mm brick work manhole with a lid.	01	Piece		
<b>Water collection points(public stand posts/tape stands)</b>					
26	-Grade 20m Concrete, 1:2:4 plain in plate form- 9.0m <sup>3</sup> (3m <sup>3</sup> /each point) 200mm thick solid block work in 1:4 cement to sand mortar, 6.0m <sup>2</sup> (2m <sup>2</sup> /each point), well plastered and finished smooth in cement putty. 1" brass bib cocks (water tapes) 10 pcs(for two water collection point). 3/4" brass bib cocks 05 No (for one water collection point near the tank) 1" HDPE pipe 6.0m (2.0m/each tap stand). 1" gate valve complete in a 400mmx400mm brick work manhole chamber with lid 03(01 gate valve/each tap stand). All required fittings and joints inclusive.	03	No		
27	Provide and allow for extra 4" PVC pipes extension of drainage channel crossing road,	18	Meters		

	excavation and back filling included.				
<b>Fencing work:</b>					
28	<b>(A)</b> Provide and carry out fencing around the tank to perimeter, 7mx5m (24 linear meters). -21/2"x21/2"x2.5m long angled iron bars in main posts including strainer posts, well welded 14 pcs, line wire, 02 roles. Chain link wires, 04 roles. Razor wires 04 roles. Line wires 01 role. Cement 04 bags, sand 1.5m <sup>3</sup> , aggregate 2.5m <sup>3</sup> . Metal door complete with provision for locking 01 piece.	01	No		
29	<b>(B)</b> Provide and carry out fencing around water collection points (tap stands) to perimeter, 5mx4m (18 linear meters). -21/2"x21/2"x2.5m long angled iron bars in main posts well welded, 14 pcs, line wire, 02 roles. Chain link wires, 03 roles. Line wires 01 role. Cement 03 bags, sand 1.0m <sup>3</sup> , aggregate 2.0m <sup>3</sup> . Metal door complete with provision for locking 01 piece.	03	No		
30	Provide and allow for excavation of 1.5m diam. x 2.0m deep pit soak away pit, filled with selected filling stones, well covered with plastic sheet and soil.	03	No		
31	<b>Lightings:</b> Provide and install a 60 Watt, 6,000 lumens, public solar lights, integrated with a solar panel, well fixed on a 4 inches dia. G.I. pipe 6.00m high, razor wire will be rolled on the foot of the pole to provide additional protection. The solar light is expected to have night and motion sensors, operate at 30% when at idle mode and 100% when darkness and motion is detected. Well installed in each of the water collection points.	03	No		

32	Visibility: Provide and fabricate, Sign post (a) length 1.20m x height 0.80m fabricated using 40mmx40mm rectangular pipes in main frames, on 2 1/2" x 2 1/2" stands angled bars for (legs) at least 1.80m from the ground level. Sign post	04			
33	Visibility: Provide and fabricate, Sign post length 1.20m x height 0.80m, fabricated using 40mmx40mm hollow section pipes in frames. This sign post does not have legs, hence is fixed up on the front side of the tank.	01			
34	provision and allow proper fixing in place of anti-thunder arrest System	01	no		
35	Decommission – demobilization of the construction equipment and support systems. Removal and disposal of all wastes resulted from the construction activities.	01	No		

### 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.