INVITATION TO TENDER

February 9th 2023

REF: ForAfrika/PIBOR/1/2023/004

Dear Sir/Madam,

INVITATION TO TENDER

ForAFrika formerly Joint Aid Management South Sudan ("JAMSS") intends to drill one borehole in Pibor.

ForAfrika hereby invites you to prepare and submit a tender to drill the borehole in accordance with the attached tender documents comprising of:

(a) Instructions for Tender;

(b) Tender Declaration;

(c) Standard terms of Contract;

LIST OF ITEMS:

BoQ for the Drilling of One (1) Boreholes @ 150 Meters (Indicative)					
Item No	**Description**	**Unit**	**Quantity**	**Rate(USD)**	**Total Price (USD)**
	PRELIMINARIES				
BH1.1	Conduct geophysical survey (field work, interpretation and report) for the location of borehole at a suitable site use ADMT or other high precise tools.	l/s	1		
BH1.2	General mobilization and demobilization of manpower and equipment	l/s	1		

Subtotal General Expenses					
Drilling of Borehole					
BH2.1	Drilling of borehole through a rock formation with a drilling diameter of 203mm (8'), large enough to allow the installation of at least 203 mm (6') PVC temporary casing with wall thickness of 6-10 mm (average 15 mtrs of sedimentary layer) using the rotary drilling method with provision of formation stabilization chemical (like Bentonite) including collection of soil samples at 3 meters intervals and keeping of drilling log	m	150		
BH2.3	Preparation of borehole completion record with detailed geologic logging sheet/drawings	report	1		
Subtotal: Drilling of Borehole					
BH3.0 Development of boreholes					
BH3.1	Development of Borehole using the air lifting method (4 hours per Borehole).Development of the borehole shall comprise physical and chemical development, including inserting and removal development equipment	hrs	4		
BH3.2	Supply and installation of plain PVC casing 152.4mm (6')- sch40,wall thickness of 6-10mm with thread joint connection per 3 meters(10 bars MUTUNCHI Make)	No	35		
BH3.3	Supply and installation of screened casing PVC SCH40 152.4mm (6'), wall thickness of 6 - 10mm width 1mm per 3 meters.	No	15		
BH3.4	Supply and installation of 152.4mm (6') PVC sum pipes, wall thickness 6-10mm with flush joing connection in a minimum of 1.0m with bottom	l/s	1		

	plug				
BH3.5	Supply and installation of filtered gravel (siliceous, rounded with diameter of 2.5 to 4mm) properly screen and washed	l/s	1		
BH3.6	Supply, insertion and compaction of backfill materials into the annular space on the top of the grout sealing up to the base of the top cement grout.	L/s	1		
BH3.7	supply and Installation of clay bridge(bentonite) seal above gravel pack and consisting of 6m depth of cement-sand mixture. Grouting should be a minimum of 6000mm below the ground surface	l/s	1		
Subtotal: Development of borehole					
BH4.0 Pumping test					
BH5.1	Undertake constant discharge pumping test, with a constant discharge measurement of 1.5m3 until a constant dynamic water level (DWL) is reached as specified for actual test pumping and full borehole recovery.	hrs	6		
BH5.2	Conduct recovery test including measurements and records of recovering water level to the static water level (SWL). Submission of date in digital form and print out data sheet	hrs	2		
Subtotal: Pumping Test					
BH6.0 Water Quality Analysis					
BH6.1	Carry out borehole sterilization (shock chlorination) to disinfect the borehole	l/s	1		

BH6.2	Conduct water quality analysis of major ions and cations physical parameters, trace elements and bacteriology and physio-chemical samples analysis and submit the water quality report as approved by the relevant authority	l/s	1		
Subtotal: Water Quality Analysis					
BH7.0 Superstructure					
BH7.1	Construct 0.8 meter square concrete wall with a 1.2 meter apron to protect the borehole	l/s	1		
BH7.2	Supply and install a 0.8 meter metal cover to seal up the concrete wall	l/s	1		
BH7.3	Supply and application Anti rust red oxide coating to completed water tower.	Coat	1		
BH7.4	Supply and application of Oil paint coating to completed water tower.	Coat	1		
Subtotal: Superstructure					
BH8.0 Pump Installation					
BH8.1	Supply and installation of Grundfos SQFlex pump specifications is to be agreed with ForAfrika Engineer based on pumping test data(2.5-5hp).	No	1		
BH8.2	Supply and installation of Grundfos CU 200 control box complete including cables, connections and accessories to pump and to float switch . (Converting DC to AC)	No	1		
BH8.3	Supply and installation of automatic Water level switch to water tank with cables and connections	No	1		
BH8.4	Supply and Installation 1x1/4" UPVC riser mains from the pump to the well head(HDPE full length 100m)	length	1.5		

BH8.5	Construction of 5" flange to well head reduced to take 2" UPVC pipe connection to the Supply Mains including fittings and accesories for connection.	No	1		
Subtotal: Pump Installation					
BH9.0 Solar Panel Installation					
BH9.1	Supply and installation of sunshine solar panels watts to be determined by pump rating including connections and cables to control unit (To be determined with SCI Engineer Approx 300watts each totalling appro. 1.8KW) **Including a thunder arrestor over the solar installations**	No	5		
BH9.2	Supply and installation of Metal frame to roof to hold solar panel.	No	1		
Subtotal: Solar Panel Installation					
BH 10.0 PIPE CONNECTIONS AND RETICULATIONS					
BH 10.1	Supply and Installation of 1.5" UPVC mains from well head flange to Overhead tank including non-return Valve and other accessories	No	10		
BH 10.2	Supply and Installation of 2" UPVC mains from Overhead tank to distrbution pipes including non-return Valve and other accessories	No	15		
BH 10.3	Supply and installation of 1" UPVC mains for distribution taps, reticulation within and other locations within the hospital as directed by Engineer (HDPE Pipes 100m)	No	15		
BH 10.4	Construct a 5mx5mx1m tap stand and install 5 heavy duty pressure tap release 3/4" taps on concrete platform in a space provided in the community including soak pit; location as provided by ForAfrika team	No	2		

Subtotal: PIPE CONNECTIONS AND RETICULATIONS					
BH 11.0 Reports and Visibility					
11.1	Prepare and Submit all reports duly signed by the Geologist and company seal and signatures, Report format should have	No	2		
11.2	Supply Visibility as required and approved by the Engineer	L/s	3		
11.3	Rehabilited the installed perimeter fence(chain link) around the tower stand. Protect the area from storm water with portective block work(0.9m Height) the area to be cover precast concrete of minimum thickness of 150cu.m	sum	1		
Subtotal: Reports and Visibility					
PRELIMINARIES					
Drilling of Borehole					
BH3.0 Development of boreholes					
BH4.0 Pumping test					
BH6.0 Water Quality Analysis					
BH7.0 Superstructure					
BH8.0 Pump Installation					
BH9.0 Solar Panel Installation					
BH 10.0 PIPE CONNECTIONS AND RETICULATIONS					
BH 11.0 Reports and Visibility					
Total Cost - USD					

Terms & Conditions.

1. Valid registration Company's Documents
2. Recent three (3) months Bank Statement
3. Office availability & storage facility
4. Company's Memorandum of Association
5. Valid Tax Clearance Certificate
6. Recent or previous job references
7. Updated Company's Profile
8. Currency USD

The closing date for submission of tenders is at **5:00 PM, 18th February-2023.** ForAfrika will not accept tenders delivered after that time.

ForAfrika reserves the right to cancel the tender process at any time prior to awarding a contract for the Service.

ForAfrika will not be responsible for any costs or expenses incurred by you in connection with preparing and delivering your tender regardless of the outcome of the tender process.

At any time prior to the Submission Deadline, you may make inquiries with, or seek further information or clarifications through the following email: **j.samuel@forAfrika.org**

Yours faithfully

Procurement Department- ForAfrika