

OFFER FORM ACTED SUDAN

Tender N° (filled in by ACTED): T/23GNP/9BD-RAS/SUD/GZ/PROG/04.10.2026/01

Order ID (filled in by ACTED): OF/23GNP/9BDRAS/SUD/GZ/PROG/22-09-2026

Date (filled in by Bidders):

To be Filled by Bidder (**COMPULSORY**)

Company's Name (as per registration documents)	
Company Authorized Representative's Name (as per registration documents or duly signed Power of Attorney)	
Company Registration Number	
Registration body	
Company's mailing address Shop/Office/Building No Street name City Governorate/province/district Country	
Commercial representative for the bid (if different from authorized representative)	
Phone contact number Landline Mobile No	
Email address	

I undersigned (to be filled in by the Bidder) _____
agree to provide ACTED, non-profit NGO, with items and works services answering the following specifications, according to the general conditions and responsibilities that I engage myself to follow.



Please refer to the SoW and points below before filling in your prices below or submitting a price offer.

- The tender is for **2 lots**. The Bidder must offer all items & quantities indicated in the lot.
- Bids for parts of the lot will not be considered.
- Unit and Total prices must be submitted in **USD**, including sales taxes.
- **The awarded bidder must be aware that the contract shall be valid for six months, but ACTED Sudan reserves the right to terminate or suspend the contract at its sole discretion, without prior notice.**

2. Financial Offer: Rehabilitation and Solarization of Two Existing Borehole-Based Water Systems around the targeted Health Facilities

LOT 1: Baridah

No.	Items Description	Unit	Qty	Unit Price Incl Tax	Total Price Incl Tax
1	Preliminaries and Mobilizations				
1.1	Site mobilization and demobilization of materials and human resources	Ls	1		
1.2	Conduct comprehensive well cleaning using wire brush, high-pressure jetting, and airlifting to remove rust from the casing / screen and other impurities from the well.	LS	1		
1.3	Conduct shock chlorination and acid dosing (citric or diluted HCl) to disinfect well and reduce alkalinity; flush/pump until FRC < 0.5 mg/L and pH ~7.0	LS	1		
2	Installation of Solar System				
2.1	Supply & Install 7.5 kw Mantra Submersible Pump or equivalent (2 inches) with a discharge capacity of 11.356 m3/h at a pressure head of 50 m , made from Stainless Steel (AISI 304) , and connect the pump with power source ,This cost include the supply of pump, labor & all necessary fittings, and this should be conducted according to the design and directed by the site engineer.	PCS	1		
2.2	Supply and install 550 Wp Monocrystalline Solar Panels 3.2 mm dual glass, 90% warranty 30 yrs, connectors, and wiring. This includes all material and labor costs as specified and according to engineer instruction. Power Output: 550Wp (Watt-peak) Dimensions: 2278 x 1134 x 35 mm (89.69 x 44.65 x 1.38 inches) Weight: 28 kg (61.73 lbs.) Open-circuit Voltage (Voc): 50.27V Short-circuit Current (water tank): 14.01A	PCS	20		



	Operating Temperature: -40°C to +85°C Work to be carried out in accordance to the design and as directed by the site engineer.				
2.3	Supply and install of 11 KW Renewable Solar Inverter (RSI) or equivalent connected with (VFD Variable Frequency Drive) with self cooling system, item should be purchased along with guarantee certificates not less than 10 years from manufacturing date and the following specification Rated output power: ≥10 kW continuous Output voltage: 3-phase, 380–415 V AC, adjustable Power factor: ≥ 0.95 Efficiency: ≥ 95% at rated load) Maximum DC input power: ≥ 22–25 kWp MPPT voltage range: wide range, typically e.g., 450–850 VDC All work to be carried out in accordance to the design and directed by the site engineer."	PCS	1		
2.4	Supply and install a pump switch, 100A circuit breaker, changeover switch, and dry run protection device, including all necessary materials, fittings, and labor for complete integration and safe operation of the pump system as per drawings and Acted Engineer's instructions. • Pump switch (415V, heavy-duty, IP54/55). • 100A, 4-pole MCCB (25–36 kA breaking capacity, IEC 60947-2). • 100A, 4-pole changeover switch (manual, IP55, IEC 60947-3). • Dry run protection device compatible with pump motor.	PCS	1		
2.5	Supply 4-core (4 ×10 mm ²) Submersible/ flexible pure copper cable to cover the 3 phases plus earth ground running down to the pump motor at 48 meters depth with the following specification, and connect all the solar panels and the pump as prescribed in the design and scope of work Nominal Conductor Area: 10 mm ² Nominal Overall Diameter: 22.1 mm Insulation Thickness: 1.5 mm - material: XLPE (Cross-linked Polyethylene) Voltage rating: 0.6/1 kV Maximum Operating Temperature: 90°C Standards: Complies with IEC 60502, BS 5467, and other relevant standards	M	100		
2.6	Supply and install a lighting and earthing system using Copper-bonded earth rod of 2.4 m length with 16 mm ² earthing conductor., including equipotential busbar, earthing rods, joint cable set, and screws for securing modules to the support structure complete with all necessary materials and labor	PCS	1		
2.7	Supply and install a 100-watt all-in-one solar LED street light with integrated lithium battery and motion sensor, mounted on a 6-meter high, 3 inch diameter galvanized iron pole, anchored to 5mm thick steel base plate bolted with 12mm diameter foundation rods, securely cast in reinforced concrete (M20 grade) as per drawings and Acted Engineer's instructions.	PCS	2		
2.8	Supply, fabricate, and install steel frame structure to support 20 solar panels arranged in four rows of 5, comprising 12 legs made from 3" x 2" channel iron embedded in 0.5 × 0.5 × 0.8 m reinforced concrete footings, with the frame constructed from 2.5" x 2.5" x 5mm angle iron and coated with red oxide paint for corrosion resistance as per drawings and Acted Engineer's instructions.	Job	1		



2.9	Supply, and install Solar-Based automatic chlorine dosing system for borehole water treatment compatible with flows up to 12 m³/hr. , including all necessary fittings, accessories. The system shall consist of a metering/dosing pump, solution preparation tank, suction/discharge lines, injection fittings, and control unit.	Ls	1		
3	Plumbing, Piping and Accessories				
3.1	Supply & Install 2" Steel Pipe (Length =3m , thickness =4.8mm As Specified ASTM) as riser from the pump to the connection point, this include labor and all accessories required as outline in the design and directed by the site engineer.	PCS	1		
3.2	Provide and Install 2" GS Control valve using steel flange thickness 10mm welded and fixed with steel bolts, adhering to the following specification: Pressure rating: 16bar(232psi) Working Temperature: Up to 70°C Body Length: Approximately 180 - 200 mm (7.9 inches) Flange Size: 2-inch (DN50) Weight: Around 5 - 8 kg (22 lbs.),	PCS	1		
3.3	Supply and Install of 2 inches (DN50) Non Return valve include all accessories with the following specification: Type: 2" Swing Type Non-Return Valve Pressure Rating: up to 16 bar (232 psi). End Connections: Flanged (ANSI B16.5), threaded (NPT), or butt weld. Maximum Working Temperature: Up to 50°C (122°F), Flow Direction: Allows flow in one direction only, preventing backflow.	PCS	1		
3.4	Supply and Install of 2 inches Analog flow meter include all accessories (rubber, nails ,flange.....etc.) with the following specification Type: Analog Connection Size: 2-inch (DN50) Material: Typically, brass or stainless steel Flow Range: 10 - 100 GPM (2.3 - 22.7 m³/hr) Maximum Pressure: 150 PSI (10 bar) Operating Temperature: -20°C to 85°C (-4°F to 185°F) Accuracy: ±2% of full scale Display: Mechanical dial display Output: Mechanical (no electronic output)	PCS	1		



3.5	Construction of wellhead protection using angle 2" x 2"x3mm angle iron and 12 mm steel bar and painting with redoxide in three coat as per drawings and Acted Engineer's instructions.	Pcs	1		
3.6	Supply 2-inch galvanized steel pipe (5 mm thickness) in accordance with ASTM specifications, including all required fittings such as nipples, unions, tees, and accessories, and connect the well to the Distribution Network. The work also includes labor for trench excavation to a depth of 30 cm, pipe installation and connection, and backfilling upon completion, as per the approved drawings and ACTED Engineer's instructions	M	50		
3.7	Provide and install 4" HDPE pipe (10 kg/cm ² , PN10), including excavation, laying, connection fittings, and backfilling (damping) in accordance with the approved design, as well as all necessary fittings required to connect the pipeline to the public water network	M	150		
4	Construction Of Operation Chamber(3 × 3)m				
4.1	Supply and construct steel frame structure (3 x 3 x 2.5m using 40×40×3 mm SHS as horizontal member and 80×40×3 mm SHS thick squares pipes as columns supported into 0.25 x 0.25 x 0.5m concrete cast in the ratio of 1:2:4 with 19 mm aggregates, as outline in the design and directed by the site engineer.	LS	1		
4.2	Supply material and cast 150mm thick concrete floor covering the entire room (3x3) and cure it for 7 days, as outline in the design and directed by the site engineer.	M3	1.35		
4.3	Provide 0.35 mm gauge zinc/ CGI Sheet clad the steel frame covering both the wall measuring 3 x 3 x 2.5m and the roof measuring 3 x 3.2 m, as outlined in the design and directed by the site engineer.	M2	36		
4.4	Construct and install 1.8x2m steel door fabricated from 3x2" and 2x2" x5mm thick square pipes covered with 2mm thick metal sheet and painted with redoxide and blue color, as outline in the design and directed by the site engineer.	Pcs	1		
5	Construction of Perimeter Fence (20 m * 20 m)				
5.1	Supply 75 × 50 × 5 mm thick angle iron measuring 2.5m and install at 2m each supported with 0.25x0.25x0.5m concrete cast in the ratio of 1:2:4 to serve as column for the wire mesh, as outline in the design and directed by the site engineer.	Pcs	40		
5.2	Supply 2 x 2" x 5 mm thick and weld to the columns as lateral support or horizontal bracing rails as outline in the design and directed by the site engineer.	Pcs	16		
5.3	Provide and install galvanized mesh roll (thickness 3mm) with opening 7cm x7cm, hold on with steel strands bar ∅ 12 mm on three levels and fixed on the columns ,this Include material, labor and all necessary accessories, as outline in the design and directed by the site engineer.	ml	80		



5.4	Supply approved well-graded and compactible selected backfilling material (murram) and spread evenly within the fence and compact it to 100% (compacted layer thickness 15 cm) as indicated in the design and specification	m3	60		
5.5	Provide and install an iron gate measuring 4 x 2m made of two Leaf's, fabricated from 3x1.5" x 6mm thick square pipe and painted with three coats of approve oil paint as outline in the design and directed by the site engineer.	Pcs	1		
5.6	Provide and Install a 3 " x 5 mm thick galvanized Iron columns of 2.6 m high, supported by a concrete footing measuring 40 x 40 x 60cm as detailed in the design and specification	Pcs	2		
6	Post rehabilitation Pumping & Water Quality Test				
6.1	Conduct post rehabilitation water quality test by a certified government recognized laboratory	job	1		
7	Sign Board				
7.1	Fabricate and install sign board (US Government & Acted Logo), plate size 1mx1.5m from steel sheet and fixed /welded to steel angle 2"x2"x 3mm thickness , the cost include anti rust three coats of oil paint, logo design and all the writing, as outline in the design and directed by the site engineer.	Ls	1		
				Sub Total Incl All Taxes - USD	



LOT 2: Huddaf

No.	Items Description	Unit	Qty	Unit Price Incl Tax	Total Price Incl Tax
1	Preliminaries and Mobilizations				
1.1	Site mobilization and demobilization of materials and human resources	LS	1		
1.2	Conduct comprehensive well cleaning using wire brush, high-pressure jetting, and airlifting to remove rust from the casing / screen and other impurities from the well.	LS	1		
1.3	Conduct shock chlorination and acid dosing (citric or diluted HCl) to disinfect well and reduce alkalinity; flush/pump until FRC < 0.5 mg/L and pH ~7.0	LS	1		
2	Installation of Solar System				
2.1	Supply & Install 7.5 kw Mantra Submersible Pump or equivalent (3 inches) with a discharge capacity of 18.927 m³/h at a pressure head of 50 m , made from Stainless Steel (AISI 304) , and connect the pump with power source ,This cost include the supply of pump, labor & all necessary fittings, and this should be conducted according to the design and directed by the site engineer.	PCS	1		
2.2	Supply and install 550 Wp Monocrystalline Solar Panels 3.2 mm dual glass, 90% warranty 30 yrs, connectors, and wiring. This includes all material and labor costs as specified and according to engineer instruction. Power Output: 550Wp (Watt-peak) Dimensions: 2278 x 1134 x 35 mm (89.69 x 44.65 x 1.38 inches) Weight: 28 kg (61.73 lbs.) Open-circuit Voltage (Voc): 50.27V Short-circuit Current (Isc): 14.01A Operating Temperature: -40°C to +85°C Work to be carried out in accordance to the design and as directed by the site engineer.	PCS	20		
2.3	Supply and install of 11KW Renewable Solar Inverter (RSI) or equivalent connected with (VFD Variable Frequency Drive) with self cooling system, item should be purchased along with guarantee certificates not less than 10 years from manufacturing date and the following specification Rated output power: ≥ 10 kW continuous Output voltage: 3-phase, 380–415 V AC, adjustable Power factor: ≥ 0.95 Efficiency: ≥ 95% at rated load) Maximum DC input power: ≥ 22–25 kWp MPPT voltage range: wide range, typically e.g., 450–850 VDC All work to be carried out in accordance to the design and directed by the site engineer."	PCS	1		



2.4	Supply and install a pump switch, 100A circuit breaker, changeover switch, and dry run protection device, including all necessary materials, fittings, and labor for complete integration and safe operation of the pump system as per drawings and Acted Engineer's instructions. • Pump switch (415V, heavy-duty, IP54/55). • 100A, 4-pole MCCB (25–36 kA breaking capacity, IEC 60947-2). • 100A, 4-pole changeover switch (manual, IP55, IEC 60947-3). • Dry run protection device compatible with pump motor.	PCS	1		
2.5	Supply 4-core (4 ×10 mm ²) Submersible/ flexible pure copper cable to cover the 3 phases plus earth ground running down to the pump motor at 48 meters depth with the following specification, and connect all the solar panels and the pump as prescribed in the design and scope of work Nominal Conductor Area: 10 mm ² Nominal Overall Diameter: 22.1 mm Insulation Thickness: 1.5 mm - material: XLPE (Cross-linked Polyethylene) Voltage rating: 0.6/1 kV Maximum Operating Temperature: 90°C Standards: Complies with IEC 60502, BS 5467, and other relevant standards	M	100		
2.6	Supply and install a lighting and earthing system using 16mm cable over a 30-meter run, buried to a minimum depth of 2.4 meters, including equipotential busbar, earthing rods, joint cable set, and screws for securing modules to the support structure complete with all necessary materials and labor	PCS	1		
2.7	Supply and install a 100-watt all-in-one solar LED street light with integrated lithium battery and motion sensor, mounted on a 6-meter high, 3 inch diameter galvanized iron pole, anchored to 5mm thick steel base plate bolted with 12mm diameter foundation rods, securely cast in reinforced concrete (M20 grade) as per drawings and Acted Engineer's instructions.	PCS	2		
2.8	Supply, fabricate, and install steel frame structure to support 20 solar panels arranged in four rows of 5, comprising 12 legs made from 3" x 2" channel iron embedded in 0.5 × 0.5 × 0.8 m reinforced concrete footings, with the frame constructed from 2.5" x 2.5" x 5mm angle iron and coated with red oxide paint for corrosion resistance as per drawings and Acted Engineer's instructions.	JOB	1		
2.9	Supply, and install Solar-Based automatic chlorine dosing system for borehole water treatment compatible with flows up to 19 m³/hr. , including all necessary fittings, accessories. The system shall consist of a metering/dosing pump, solution preparation tank, suction/discharge lines, injection fittings, and control unit.	LS	1		
3	Plumbing, Piping and Accessories				
3.1	Supply & Install 3" Steel Pipe (Length =3m , thickness =4.8mm As Specified ASTM) as riser from the pump to the connection point, this include labor and all accessories required as outline in the design and directed by the site engineer.	PCS	4		
3.2	Provide and Install 3" GS Control valve using steel flange thickness 10mm welded and fixed with steel bolts, adhering to the following specification: Pressure rating: 16bar(232psi) Working Temperature: Up to 70°C	PCS	1		



	Body Length: Approximately 200 mm (7.9 inches) Flange Size: 3 inches (DN80) Weight: Around 10 kg (22 lbs.),				
3.3	Supply and Install of 3 inch Non Return valve include all accessories with the following specification: Type: 3" Swing Type Non-Return Valve Pressure Rating: up to 16 bar (232 psi). End Connections: Flanged (ANSI B16.5), threaded (NPT), or butt weld. Maximum Working Temperature: Up to 50°C (122°F), Flow Direction: Allows flow in one direction only, preventing backflow.	PCS	1		
3.4	Supply and Install of 3 inch Analog flow meter include all accessories (rubber, nails ,flange.....etc.) with the following specification Type: Analog Connection Size: 3 inches (80 mm / DN80) Material: Typically, brass or stainless steel Flow Range: 20 - 200 GPM (4.5 - 45.4 m³/hr.) Maximum Pressure: 150 PSI (10 bar) Operating Temperature: -20°C to 85°C (-4°F to 185°F) Accuracy: ±2% of full scale Display: Mechanical dial display Output: Mechanical (no electronic output)	PCS	1		
3.5	Construction of wellhead protection using angle 2" x 2"x3mm angle iron and 12 mm steel bar and painting with redoxide in three coat as per drawings and Acted Engineer's instructions.	PCS	1		
3.6	Supply 3-inch galvanized steel pipe (5 mm thickness) in accordance with ASTM specifications, including all required fittings such as nipples, unions, tees, and accessories, and connect the well to the overhead tank. The work also includes labor for trench excavation to a depth of 30 cm, pipe installation and connection, and backfilling upon completion, as per the approved drawings and ACTED Engineer's instructions	M	50		
3.7	Provide and install 4" HDPE pipe (10 kg/cm², PN10), including excavation, laying, connection fittings, and backfilling (damping) in accordance with the approved design, as well as all necessary fittings required to connect the pipeline to the public water network	M	150		
4	Construction Of Operation Chamber(3 × 3)m				
4.1	Supply and construct steel frame structure (3 x 3 x 2.5m using 40×40×3 mm SHS as horizontal member and 80×40×3 mm SHS thick squares pipes as columns supported into 0.25 x 0.25 x 0.5m concrete cast in the ratio of 1:2:4 with 19 mm aggregates, as outline in the design and directed by the site engineer.	LS	1		
4.2	Supply material and cast 150mm thick concrete floor covering the entire room (3x3) and cure it for 7 days, as outline in the design and directed by the site engineer.	M3	1.35		
4.3	Provide 0.35 mm gauge zinc/ CGI Sheet clad the steel frame covering both the wall measuring 3 x 3 x 2.5m and the roof measuring 3 x 3.2 m, as outlined in the design and directed by the site engineer.	M2	36		



4.4	Construct and install 1.8x2m steel door fabricated from 3x2" and 2x2" x5mm thick square pipes covered with 2mm thick metal sheet and painted with redoxide and blue color, as outline in the design and directed by the site engineer.	PCS	1		
5	Construction of Perimeter Fence (20 m * 20 m)				
5.1	Supply 75 × 50 × 5 mm thick angle iron measuring 2.5m and install at 2m each supported with 0.25x0.25x0.5m concrete cast in the ratio of 1:2:4 to serve as column for the wire mesh, as outline in the design and directed by the site engineer.	PCS	40		
5.2	Supply 2 x 2" x 5 mm thick and weld to the columns as lateral support or horizontal bracing rails as outline in the design and directed by the site engineer.	PCS	16		
5.3	Provide and install galvanized mesh roll (thickness 3mm) with opening 7cm x7cm, hold on with steel strands bar ø 12 mm on three levels and fixed on the columns ,this Include material, labor and all necessary accessories, as outline in the design and directed by the site engineer.	ML	80		
5.4	Supply approved well-graded and compactible selected backfilling material (murrum) and spread evenly within the fence and compact it to 100% (compacted layer thickness 15 cm) as indicated in the design and specification	M3	60		
5.5	Provide and install an iron gate measuring 4 x 2m made of two Leaf's, fabricated from 3x1.5" x 6mm thick square pipe and painted with three coats of approve oil paint as outline in the design and directed by the site engineer.	PCS	1		
5.6	Provide and Install a 3 " x 5 mm thick galvanized Iron columns of 2.6 m high, supported by a concrete footing measuring 40 x 40 x 60cm as detailed in the design and specification	PCS	2		
6	Post rehabilitation Pumping & Water Quality Test				
6.1	Conduct a continuous high-capacity pumping/purging for 7 consecutive days	LS	1		
6.2	Conduct post rehabilitation water quality test by a certified government recognized laboratory	JOB	1		
7	Sign Board				
7.1	Fabricate and install sign board (US Government & Acted Logo), plate size 1mx1.5m from steel sheet and fixed /welded to steel angle 2"x2"x 3mm thickness , the cost include anti rust three coats of oil paint, logo design and all the writing, as outline in the design and directed by the site engineer.	LS	1		
Sub Total Incl All Taxes - USD					



2.3. SCOPE OF WORK (SOW) APPLICABLE FOR LOT 1 & LOT 2:

Rehabilitation and Solarization of Two Existing Borehole-Based Water Systems

Project Overview

The Rehabilitation and Solarization of Two Existing Borehole-Based Water Systems around the targeted Health Facilities.

Project Location

- **Huddaf WP:** Huddaf, Tumbol, Sharg Aljazira Locality, Jazira State, Sudan.
- **Baridah WP:** Baridah, Tumbol, Sharg Aljazira Locality, Jazira State, Sudan

Comprehensive Work Breakdown & Technical Specifications

Section 1: Preliminaries & Well Rehabilitation

- **Mobilization & Demobilization (Item 1.1):** Site mobilization and demobilization of materials, equipment, and human resources (1 LS per site).
- **Borehole Cleaning & Jetting (Item 1.2):** Conduct comprehensive well cleaning using wire brush, high-pressure jetting, and airlifting to remove rust from casing/screens and other impurities (1 LS per site).
- **Disinfection & Acid Treatment (Item 1.3):** Conduct shock chlorination and acid dosing (citric or diluted HCl) to disinfect well and reduce alkalinity; flush/pump until Free Residual Chlorine (FRC) < 0.5 mg/L and pH ~7.0 (1 LS per site).

Section 2: Installation of Solar Pumping System & Accessories

- **Submersible Pump Installation (Item 2.1):**
 - **Huddaf WP:** Supply & install 7.5 kW Mantra Submersible Pump or equivalent (3 inches) with discharge capacity of 18.927 m³/h at 50 m pressure head, AISI 304 Stainless Steel.
 - **Baridah WP:** Supply & install 7.5 kW Mantra Submersible Pump or equivalent (2 inches) with discharge capacity of 11.356 m³/h at 50 m pressure head, AISI 304 Stainless Steel.
- **Solar Panel Array (Item 2.2):** Supply and install 20 units of 550 Wp Monocrystalline Solar Panels per site (3.2 mm dual glass, 90% warranty 30 yrs, Voc: 50.27V, Isc/Short-circuit Current: 14.01A, operating range: -40°C to +85°C).
- **Renewable Solar Inverter / VFD (Item 2.3):** Supply and install 11 kW Renewable Solar Inverter (RSI) or equivalent with Variable Frequency Drive (VFD), self-cooling system, rated output power ≥10 kW continuous, 3-phase 380–415 V AC, efficiency ≥95%, MPPT range 450–850 VDC, and min. 10-year guarantee.
- **Control Switchboard & Protection (Item 2.4):** Supply and install pump switch (415V, heavy-duty, IP54/55), 100A 4-pole MCCB (25–36 kA breaking capacity, IEC 60947-2), 100A 4-pole manual changeover switch (IP55, IEC 60947-3), and dry-run protection device.
- **Submersible Cable (Item 2.5):** Supply 100 m per site of 4-core (4 × 10 mm²) pure copper XLPE flexible submersible cable (0.6/1 kV rated, max operating temperature 90°C) running down to 48 m depth.
- **Lightning & Earthing System (Item 2.6):** Supply and install earthing system using copper-bonded earth rod (2.4 m length) with 16 mm² earthing conductor over a 30-meter run buried to min. 2.4 m depth, complete with equipotential busbar and joint cable sets.
- **Solar Street Light (Item 2.7):** Supply and install 2 units of 100W all-in-one solar LED street lights with integrated lithium battery and motion sensor, mounted on 6 m high, 3-inch GI pole on a 5mm steel base plate anchored to M20 concrete footings.
- **Solar Support Structure (Item 2.8):** Supply, fabricate, and install steel frame structure supporting 20 solar panels arranged in four rows of 5 (12 legs of 3" × 2" channel iron embedded in 0.5 m × 0.5 m × 0.8 m reinforced concrete footings, frame built from 2.5" × 2.5" × 5mm angle iron coated in red oxide anti-rust paint).
- **Automatic Chlorine Dosing System (Item 2.9):**



- **Huddaf WP:** Automatic dosing system compatible with flow rates up to 19 m³/h.
- **Baridah WP:** Automatic dosing system compatible with flow rates up to 12 m³/h.
- Both units include metering pump, solution tank, suction/discharge lines, injection fittings, and control unit.

Section 3: Plumbing, Piping & Wellhead Accessories

- **Riser Pipe:**
 - **Huddaf WP (Item 3.1):** Supply & install 4 pcs of 3" ASTM Steel Pipe (Length=3m, thickness=4.8mm).
 - **Baridah WP (Item 3.1):** Supply & install 1 pc of 2" ASTM Steel Pipe (Length=3m, thickness=4.8mm).
- **Control Valves (Item 3.2):**
 - **Huddaf WP:** 3" (DN80) PN16 GS Control Valve with 10mm welded steel flange.
 - **Baridah WP:** 2" (DN50) PN16 GS Control Valve with 10mm welded steel flange.
- **Non-Return Valve (Item 3.3):**
 - **Huddaf WP:** 3" Swing Type Non-Return Valve (PN16 rated).
 - **Baridah WP:** 2" (DN50) Swing Type Non-Return Valve (PN16 rated).
- **Flow Meters (Item 3.4):**
 - **Huddaf WP:** 3" (DN80) Analog Flow Meter (20–200 GPM / 4.5–45.4 m³/hr range, PN10).
 - **Baridah WP:** 2" (DN50) Analog Flow Meter (10–100 GPM / 2.3–22.7 m³/hr range, PN10).
- **Wellhead Protection (Item 3.5):** Enclosure fabricated from 2" × 2" × 3mm angle iron and 12mm rebar, finished with 3 coats of red oxide paint.
- **Conveyance Line (Item 3.6):**
 - **Huddaf WP:** Supply & lay 50 m of 3" GS pipe (5 mm thickness, ASTM) including 30 cm trench excavation and backfilling to overhead tank.
 - **Baridah WP:** Supply & lay 50 m of 2" GS pipe (5 mm thickness, ASTM) including 30 cm trench excavation and backfilling to distribution network.
- **Network HDPE Pipe (Item 3.7):** Supply and lay 150 m per site of 4" HDPE pipe (PN10 / 10 kg/cm²), including trenching, fittings, connection to public network, and backfilling.

Section 4: Construction of Operation Chamber (3 m × 3 m × 2.5 m)

- **Structural Framing (Item 4.1):**
 - **Huddaf WP:** Frame built from 40 × 40 × 3 mm SHS horizontal members and 80 × 40 × 3 mm SHS columns set in 0.25 × 0.25 × 0.5 m M20 concrete footings.
 - **Baridah WP:** Frame built from 40 × 40 × 3 mm SHS horizontal members and 80 × 40 × 3 mm SHS columns set in 0.25 × 0.25 × 0.5 m M20 concrete footings.
- **Concrete Floor Slab (Item 4.2):** Cast 150 mm thick concrete floor slab (1.35 m³) covering entire 3×3 m area, cured for 7 days.
- **Cladding & Roof (Item 4.3):** 0.35 mm gauge CGI/zinc sheets cladding for walls (3×3×2.5m) and roof (3×3.2m), totaling 36 m².
- **Steel Door (Item 4.4):** 1.8 × 2.0 m steel door fabricated from 3×2" and 2×2" × 5mm square pipes covered with 2mm sheet metal, painted with red oxide primer and blue topcoat.

Section 5: Construction of Perimeter Fence (20 m × 20 m)

- **Columns (Item 5.1):**
 - **Huddaf WP:** 40 pcs of 75 × 50 × 5 mm angle iron columns (2.5 m length) installed at 2 m spacing in 0.25 × 0.25 × 0.5 m concrete footings.
 - **Baridah WP:** 40 pcs of 75 × 50 × 5 mm angle iron columns (2.5 m length) installed at 2 m spacing in 0.25 × 0.25 × 0.5 m concrete footings.



- **Lateral Support / Bracing (Item 5.2):** 16 pcs of 2" × 2" × 5 mm thick steel welded horizontally to columns.
- **Wire Mesh (Item 5.3):** 80 m of 3mm galvanized mesh (7×7 cm grid) held with 12mm steel strand bars on 3 levels.
- **Backfilling / Surface (Item 5.4):** 60 m³ well-graded murrum backfill spread and compacted to 100% (15 cm layer) inside compound.
- **Main Gate (Item 5.5):** 4 × 2 m double-leaf steel gate made of 3 × 1.5" × 6mm square pipe painted with 3 coats oil paint.
- **Gate Posts (Item 5.6):** 2 pcs of 3" × 5 mm galvanized iron columns (2.6 m high) set in 40 × 40 × 60 cm concrete footings.

Section 6: Testing & Quality Control

- **High-Capacity Pumping/Purging (Item 6.1):**
 - **Huddaf WP:** 7 consecutive days of continuous high-capacity purging/pumping.
 - **Baridah WP:** Standard post-rehabilitation purging/pumping.
- **Water Quality Testing (Item 6.2):** Post-rehabilitation physical, chemical, and biological water quality test by a certified government-recognized laboratory.

Section 7: Branding & Sign Board

- **Signboard (Item 7.1):** Fabricate and install 1.0 × 1.5 m steel sheet signboard with anti-rust oil paint, welded to 2" × 2" × 3mm angle frame featuring official partner logos (US Government & ACTED).

Site-by-Site Comparison Matrix

Component / Parameter	Huddaf Water Point (WP)	Baridah Water Point (WP)
Submersible Pump Size & Flow	3" Discharge (18.927 m³/h @ 50m head)	2" Discharge (11.356 m³/h @ 50m head)
Solar Array Support Footings	0.5 m × 0.5 m × 0.8 m footings	0.5 m × 0.5 m × 0.8 m footings
Auto Chlorine Dosing Unit	Flow capacity up to 19 m³/h	Flow capacity up to 12 m³/h
Riser Pipe Assembly	4 pcs (12 m) of 3" ASTM Steel Pipe	1 pc (3 m) of 2" ASTM Steel Pipe
Control Valve, NRV & Flow Meter	3-Inch (DN80) / 20–200 GPM Flow Range	2-Inch (DN50) / 10–100 GPM Flow Range
GS Trench Pipe to Storage/Network	50 m of 3" GS Pipe (5mm thickness)	50 m of 2" GS Pipe (5mm thickness)
Chamber Structural Sections	40×40×3 mm & 80×40×3 mm SHS Steel	40×40×3 mm & 80×40×3 mm SHS Steel
Fence Steel Columns	75×50×5mm Angle Iron Columns	75×50×5mm Angle Iron Columns
Pumping Test Duration	Continuous 7-Day High-Capacity Test	Standard Post-Rehab Purging

3. WORKPLAN:

	EXECUTION CONDITIONS REQUESTED BY ACTED	EXECUTION CONDITIONS OFFERED BY BIDDERS (if different)
INTERIM COMPLETION AFTER 45 CALENDAR DAYS OF SIGNING THE CONTRACT	100% Forty-Five (45) Calendar Days after handing over the site to the bidder	Accepted by the Bidder: ☐ YES ☐ NO If not, detail expected workplan:

PLEASE ATTACH A DETAILED WORKPLAN DEMONSTRATING THE BIDDER'S ABILITY TO FULFIL ACTED'S EXPECTATIONS BELOW.



4. CAPACITY AND QUALITY OF WORKS:

PLEASE ATTACH:

- AN ATTESTATION OF THIRD PARTY LIABILITY FOR THE WHOLE DURATION OF WORKS AND LIABILITY PERIOD DATING LESS THAN 3 MONTHS
- A COPY OF VALID QUALITY ASSURANCES WITH RELEVANT CERTIFICATES DATING LESS THAN 3 MONTHS

	ACTED REQUIREMENTS		BIDDER'S COMMITMENTS	
NUMBER OF ENGINEERS	Per site: 1	Total for all sites: 2	Per site:	Total for all sites:
NUMBER OF MANAGERS	Per site: 1	Total for all sites: 2	Per site:	Total for all sites:
NUMBER OF SUPERVISORS	Per site: 1	Total for all sites: 2	Per site:	Total for all sites:
NUMBER OF QUALIFIED WORKERS	Qualification X (ex masons) Per site: 1-2	Qualification X (ex masons) Total for all sites: 2-4	Qualification X (ex masons) Per site:	Qualification X (ex masons) Total for all sites:
NUMBER OF UNQUALIFIED WORKERS	Per site: 4-6	Total for all sites: 8-12	Per site:	Total for all sites:
PLEASE CONFIRM WHETHER WORKERS ARE HIRED IN THE WORK SITES LOCAL AREA	Qualified workers: ☒ YES ☐ NO Additional details:	Unqualified workers: ☒ YES ☐ NO Additional details:	Qualified workers: ☐ YES ☐ NO Additional details:	Unqualified workers: ☐ YES ☐ NO Additional details:
NUMBER OF TRUCKS FOR MATERIALS TRANSPORTATION	Minimum capacity: Per required need must be available	Minimum number at a given time for all sites: Per required need must be available	Minimum capacity:	Minimum number at a given time for all sites:
EQUIPMENT TYPE (Owned by the company)	Supplier to share the list of equipment's owned , leased or rented with Description Performances Number per site at a given time Number for all sites at a given time Current location Owned/rented/leased Name of the owner and contact details		Qualified workers: ☐ YES ☐ NO Mark yes if the list is attached or no if not attached	

Please fill in the below table for manpower and equipment that will be made available if awarded:



5. SOCIAL, HEALTH AND SECURITY ASSURANCES:

	ACTED REQUIREMENTS	BIDDER'S COMMITMENTS
ACCOMMODATION, DRINKING WATER, MEALS AND TRANSPORTATION OF STAFF	The contract shall comply with basic human needs, that includes meals including safe drinking water, necessary transportation for their movement from home to workstation. Contractor will ensure payments of labor within (07) days of activity completion. No Child Labor	☐ YES ☐ NO
CODE OF CONDUCT	ACTED expects from all its suppliers/service providers/contractors to ensure a full adherence to the principles of its Ethical Declaration which the Bidder hereby acknowledges as a duty throughout the execution of works if awarded a portion or the entire scope of works.	I, as the representative of the Bidder, hereby acknowledge that ACTED Ethical Declaration principles are implemented within my company and will be monitored throughout the contract execution if awarded a portion or the entire scope of works. In particular, all staff working on the works sites related to this contract will be trained. I also hereby acknowledge a zero-tolerance approach, and my company's and its employees' duty to report to ACTED any abuse: ☐ YES ☐ NO



6. ENVIRONMENTAL ASSURANCES:

AN ENVIRONMENTAL SAFEGUARDING PLAN ON WORKSITES

	ACTED REQUIREMENTS	BIDDER'S COMMITMENTS
PROTECTION OF ADJACENT AREAS, BIODIVERSITY, PREVENTION OF EROSION AND WASTEWATER MANAGEMENT	Contractor will ensure hazard/warning tape around sites to keep community safe. Contractor will ensure to not damage any life (humans, plant or animals) near to sites in any form. Contractor will ensure proper drainage of wastewater during intervention activities.	<i>The Bidder must either tick the box below, thereby accepting all environmental safeguarding requirements set by ACTED, or provide its own proposal as an attachment and refer to it here.</i> Accepted by the Bidder: ☐ YES ☐ NO
TRAFFIC, NOISE AND ATMOSPHERIC EMISSIONS MANAGEMENT, LAND TAKE	Contractors are encouraged to implement environmentally friendly practices to the best of ability.	<i>The Bidder must either tick the box below, thereby accepting all environmental safeguarding requirements set by ACTED, or provide its own proposal as an attachment and refer to it here.</i> Accepted by the Bidder: ☐ YES ☐ NO
WASTE AND HAZARDOUS PRODUCTS MANAGEMENT	Contractor will ensure no chemical be used that pose potential harm to intervention communities.	<i>The Bidder must either tick the box below, thereby accepting all environmental safeguarding requirements set by ACTED, or provide its own proposal as an attachment and refer to it here.</i> Accepted by the Bidder: ☐ YES ☐ NO
VEGETATION CLEARING AND SITE REHABILITATION	The site will be rehabilitated into a safe, clean and user friendly one. Entry and exit point to site will be free of any hurdles/barriers to ensure accessibility. Contractor will ensure removal of any harmful weed growth within 4.5 m (15 ft) of the site.	<i>The Bidder must here whether tick the box, and hereby accepting all environmental safeguarding requirements set by ACTED, or provide its own proposal as an attachment. He will refer it to here.</i> Accepted by the Bidder: ☐ YES ☐ NO



7. BIDDER'S CONDITIONS:

	GENERAL CONDITIONS RECOMMENDED BY ACTED	GENERAL CONDITIONS OFFERED BY BIDDERS (if different)
VALIDITY OF THE OFFER	6 months	
TERMS OF PAYMENT	PAYMENT SHALL BE MADE WITHIN THIRTY (30) CALENDAR DAYS AFTER THE COMPLETION OF ALL ACTIVITIES AND THE HANDOVER OF THE COMPLETED WORKS TO ACTED, SUBJECT TO INSPECTION, VERIFICATION, AND WRITTEN APPROVAL BY THE AUTHORIZED ACTED STAFF.	

Company Name:

Authorized Representative Name:

Signature:

Stamp:

