**Estimated BoQs for the construction of standard Hafir**

SASAS project NRM project, Gadarif state

**Catholic Relief Services**

**خدمات الاغاثة الكاثوليكية CRS**

**(CRS Address and Phone number)**

**طلب عرض أسعار**

**Request for Quotation**

**Name of Supplier/company: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_إسم العميل**

**Address: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_العنوان**

**Contact Person: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_إسم المسئول المباشر**

**Phone/ Email: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: رقم الهاتف والبريد الالكتروني\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ @**

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_التأريخ**

**BOQ and Technical structural Specifications of** **Construction of New Hafir in Gala Alnah Locality Shuak community.**

1. **Studies and surveys**

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| **#** | **DESCRIPTION** | **QUANTITY** | **unit** | **UNIT PRICE SDG** | **TOTAL PRICE SDG** |
| **2** | Feasibility study (topographical survey of the area, hydrological and hydrogeological studies include peak flows, possible quantity and quality of raw water, soil analysis to identify the type of soil of the proposed Hafir site | **1** | **JOB** |  |  |
| **Total of Bill No 1** |  |

1. **Earth Works**

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| **SL #** | **DESCRIPTION** | **QUANTITY** | **unit** | **UNIT PRICE SDG** | **TOTAL PRICE SDG** |
| **1** | Excavation of Haffir main reservoir, as per drawing and specifications attached or the instructions of the engineer | 28320 | M3 |  |  |
| **2** | Excavation of silt trap (60-meter length X 40-meter width X 0.5-meter depth)  as per drawing or the instructions of the engineer | 1,200 | M3 |  |  |
| **3** | Digging of the inlet trench as per drawing or the instructions of the engineer | 250 | M3 |  |  |
| **4** | Digging of the outlet trench as per drawing or the instructions of the engineer | 400 | M3 |  |  |
| **5** | Digging of filter well 2 meter inside Dia and 4.5 meter depth as per drawing  or the instructions of the engineer | 32 | M3 |  |  |
| **6** | Digging clean water well Two meter inside diameter and 5-meter depth as  per drawing or the instructions of the engineer | 36 | M3 |  |  |
| **7** | Digging for inlet well, pressure well, valve well and disap. Well as per drawing  or the instructions of the engineer | 28 | M3 |  |  |
| **8** | Digging of feeding canals as per drawing or the instructions of the engineer | 1000 | M3 |  |  |
| Total of Bill number 2 | | | | |  |

1. **Refill, maintain and compaction works**

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| **SL #** | **DESCRIPTION** | **QUANTITY** | **unit** | **UNIT PRICE SDG** | **TOTAL PRICE SDG** |
| **1** | Refill, maintain and compaction works | 1,150 | m3 |  |  |
| **2** | "Maintain & compact the Haffir embankments and wing dikes by the | 28038 | m3 |  |  |
| Total of Bill number 3 | | | | |  |

1. Concrete Masonry and plumping works

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| SL # | DESCRIPTION | QUANTITY | UNIT | UNIT PRICE SDG | TOTAL PRICE SDG |
| 1 | Concrete works Reinforced concrete works: Supply and Construction of out let well, SSF inlet well, clean water tank (cover & foundation) inlet well, pressure well, valve well and disap. Well foundations with reinforced concrete (1:2:4) as drawing or the instructions of the engineer | 10 | m3 |  |  |
| 2 | Plain concrete works: Supply Construction of plain concrete under the wells reinforced foundation as per drawing or the instructions of the engineer | 5 | m3 |  |  |
| 3 | Masonry works: Building of inlet, out let SSF clean water well and the other wells from stones or red brick wall as per drawing or the instructions of the engineer | 65 | m3 |  |  |
| 4 | Construction of a Clark room 3.5m\*3.5m\*2,5m from red brick complete with 1 door and 2 windows (with paint) and roofed with corrugated steel sheets | 1 | Pcs |  |  |
| 5 | Plumbing works Supply and install PVC pipe (schedule 80) 6" with all necessary fittings as per drawings | 42 | m |  |  |
| 6 | Supply and install PVC pipe (schedule 80) 14" with all necessary fittings as per drawings | 42 | m |  |  |
| 7 | Supply and install Galvanized steel pipes 6” with all necessary fittings as per drawings | 6 | m |  |  |
| 8 | Supply and install Sluice valve 14” with all necessary fittings as per drawings | 1 | Pcs |  |  |
| 9 | Supply and install Sluice valve 4” with all necessary fittings as per drawings | 1 | Pcs |  |  |
| 10 | Supply and install Multi-purpose plastic hose 4” with all necessary fittings as per drawings | 30 | m |  |  |
| 11 | Supply & Installation of Polyethylene pipe 3” nominal diameter of 6 bar working pressure (ISO International pipe standards). All fittings should be galvanized steel fittings. | 40 | m |  |  |
| 12 | galvanized steel fittings. 40-meter Supply & Installation of Polyethylene pipe 2” nominal diameter of 6 bar working pressure with all the necessary galvanized fittings and accessories | 30 | m |  |  |
| 13 | Supply and installation of heavy-duty 3” gate valves with the protection lockable boxes. | 1 | Pcs |  |  |
| 14 | "Supply and installation of heavy-duty 2” gate valves with the protection | 1 | Pcs |  |  |
| 15 | lockable boxes" | 2 | Pcs |  |  |
| 16 | Supply and installation of 2” valves | 1 | Pcs |  |  |
| 17 | Construction of public pipe-stands as per specifications & drawings with onebucket stands and 5 nickel taps 1/2”. | 1 | Pcs |  |  |
|  | TOTAL OF BILL NUMBER 4 | | | |  |

1. Metal Works (Fence0

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| **SL #** | description | quantity | unite | Unite price |  |
| 1 | Haffir Fence : Fence construction: A 1.5-meter height fence made of galvanized steel chain-link wire (1.5 mm) fixed on 1.5 meter height (1.5 m above ground level and 0.5 m below ground level 2 inch steel pipe painted with silver color paint,, spaced at 2 meters distances with 2 mm galvanized wire (at top, bottom and the middle), the 2 inch steel pipes (posts) will be erected in a 40 \* 40 \* 60 cm plain concrete base. As per drawings. Fence corners should be supported with 2-inch strainer-angled ion | 552 | m |  |  |
| 2 | C construction of single gate single gate shall be manufactured from 2 inch angled ion expended metal  (dec.), lockable welded to 4 inch posts pipe | 1 | pcs |  |  |
| 3 | Mimi water yard Fence Fence construction: A 1.5-meter height fence made of galvanized steel chain-link wire (3.5 mm)  fixed on 1.5 meter height (1.5 m above ground level and 0.5 m below ground  level 2 inch steel pipe painted with silver color paint,, spaced at 2 meters  distances with 2 mm galvanized wire (at top, bottom and the middle), the 2  inch steel pipes (posts) will be erected in a 40 \* 40 \* 60 cm plain concrete  base. As per drawings .Fence corners should be supported with 2-inch  strainer-angled ion. | 104 | m |  |  |
| 4 | C construction of single gates  Single gate shall be manufactured from 2 inch angled ion expended metal  (dec.), lockable welded to 4 inch posts pipe | 2 | pcs |  |  |
| 5 | C construction of SSF cover  SSF well cover shall be manufactured from 2 inch angled ion expended metal  (dec.), lockable fixed to the well wall. | 1 | pcs |  |  |
|  | TOTAL OF BILL NUMBER 5 | | | |  |

1. Steel Tower (3000 Gallon capacity, 3-meter height

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| **SL #** | Description | Quantity | unite | unite price | total price |
| 1 | Construction of 3 meter height steel tower 3000 Gallon elevated water storage tan Supply & Installation of One new elevated water storage tank, of 3,000 gallons  capacity, mounted on a 3-meters high steel tower and resting on reinforced  concrete foundation, complete with inside and outside ladder Tank Materials  Shape: Cylindrical Bottom: Mild steel plates 6-mm thickness. Shell Mild steel plates 4.5-mm thickness. Roof: Mild steel plates 3-mm thickness. Roof structure Mild steel angles 2” X 2” X ¼” Footpath: Mild steel plate 3-mm thickness. Side ladder: Mild steel angles 2” X 2” X ¼”, round bars 5/8”. Safety cage:Mild steel angles 2” X 2” X ¼”. Manhole: Mild steel plates 3-mm thickness + hinges, bolts & nuts. Pointer:Mild steel angles 1” + string wire rope + clamps & floaters. Paint: From inside & outside with non-poisonous bituminous paint. Tower materials: Base plates: 12 mm. Top plates: 2 mm. Connection plates 06 mm. Stanchions:RS joints 20 cm or engles 4 – 3 inch and 8-12 mm thickness. Main beam: RS joints 20 cm .  Grill: RS joints 14 cm. Wind bracing: Angles 2” X 2” X ¼”. Ladder: Angles 2” X 2” X ¼”. Ladder: Round bars 5/8”.  Safety cage: Angles 1” + bolts & nuts.  Paint: Black paint. ”nchor bolts: ¾” X 6” | 1 | pcs |  |  |
| 2 | Overflow pipe 2 inch GL pipe | 3 | m |  |  |
| 3 | GL pipe Inlet pipe: 2 inch | 6 | m |  |  |
| 4 | GL pipe pi One outlet pipe 2 inch | 6 | m |  |  |
|  | TOTAL OF BILL NUMBER 6 | | | |  |

1. Steel animal water trough

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| **SL #** | Items descriptions | Quantity | unite | unite price | total price |
| 1 | Supply and installation of steel animal water trough total length 3 meter,50cm width at the bottom and 90 cm at the topp,50 cm height and 3 mm thick (drawing attached) | 4 | pcs |  |  |
| 2 | TOTAL OF BILL NUMBER 7 | | | |  |

1. Mechanical Works

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|  | Items descriptions | Quantity | unite | unite price | total price |
| 1 | mechanical works: Supply, install and commission of booster Water Pump Diesel , 2 inch Brand new With 20 m hose 2” with foot non return valve H=20 m Q=10 m3 per hour (or equvelent) Suction=8m The price include 12 meter pipe (2 or 1.5 inch) to be fixed and connect from the 6 meter depth well to the pump and from the pump to the elevated tank with 2 inch galvanized pipe (9 meter) with all the necessary galvanized fittings and accessories The pump unit to be fixed to red brick platform 40 cm over GL | 2 | Ls |  |  |
| 2 | TOTAL OF BILL NUMBER 8 | | | |  |

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| **Duration of implementation the construction project \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_فترة تنفيذ المشروع**  **Disclaimer Clause: We declare that we have read all the terms & conditions and the information. provided by our company are correct and incase of any deviation from the quoted price or terms & condition. we will inform CRS accordingly. مناط المسئولية: بهذا نقر باننا قد اطلعنا علي كافة الشروط والمطلوبات وان المعلومات المقدمه من الشركة صحيحة , وفي حالة اي اختلاف عن العرض المقدم من قبلنا , فاننا سوف نقوم باخطار منظمة الاغاثة الكاثوليكية بذلك.** | | | |
| **Name**  **الاسم** | **Signature with company Stamp**  **التوقيع والختم** | | **Date**  **التأريخ** |
| **Closing Date of Tender: أخر موعد لتقديم العطاء**  **يلزم تسليم العطاء في مظروف مغلق ومختوم وكتابة : عرض اسعار مقدم عن مناقصة :::::::::: والمقدمة من ::::::::::::::::**  **Please mention "Quotation submitted for the Supply of AAA By BBB Company" on sealed envelope.** | | | |
| **Sealed quotation must be received in CRS Office not later than:**  **عرض الاسعار يجب ان يقدم في تأريخ لا يتجاوز** | | **DD/MM/YYYY** |  |
| **For any queries, feel free to contact us through above mentioned contact details. 0911202111 Eng. Ibrahim Ahmed or -------**  **لاي استفسار , الرجاء عدم التردد في الاتصال بالرقم المرفق** | | | |