

# **Rehabilitation of Abu Ghraib irrigation water station (WP-AN-09) in Abu Ghraib district, Baghdad governorate**

## **Scope of Work (SoW)**

### **Background**

Al-Hamdaniya, Ghraib, and Qaraqul areas are within Agargoof sub-district of Abu Ghraib district in Baghdad and are located to the west of Baghdad, and border Anbar governorate;

Abu-Ghraib is considered a strategic area, as it is located on the main road that connects Baghdad with Jordan and Syria. Approx. 80% of the area of Abu Ghraib is agricultural land, where most of the people (Sunni majority) work in agriculture or agricultural-related work.

Abu Ghraib witnessed two waves of displacement, the first wave occurred between 2003 and 2007 during the sectarian violence, where many families were displaced (mainly Shia) and returned in 2008 or after; UNHCR was in the front line to support the return (2009-2012) in this area, by shelters rehabilitation and new low-cost shelters construction; these interventions could assist and sustain the return of many families in consequence.

The second wave of displacement occurred upon ISIL invasion in 2014; the IDPs were internally displaced within Abu-Ghraib areas which were not invaded by ISIL, IDPs from Anbar could settle in the aforementioned areas as well. IDPs of Abu-Ghraib started to return after 2016.

As a result of the invasion, many shelters and infrastructures were highly damaged/destroyed, which in turn, hindered their return, or negatively impacted their return stability, livelihoods, and living standards;

IDPRs attempted to resume their work in agriculture, but lack of electricity and irrigation water were the main obstacles.

UNHCR implemented various activities and projects to support IDPs and IDPRs in Abu-Ghraib, including infrastructure projects; the local authorities, in consequence, asked UNHCR to provide them with a water pump (0.5 m<sup>3</sup>/sec), where this project will contribute to the reclamation of approx. 3,000 acre; Responsively, UNHCR jointly with the department of water and sewerage has conducted a joint field visit to assess and provide the project requirements accordingly.

Project Location: Al-Hamdaniya area, Abu Ghraib district, Baghdad Governorate.

Target population: All population of two villages (1000-1250) Families, (6000-7500) individuals.

### **Project Overview:**

This project aims at supplying and installing a water pump with a capacity of 0.5 M<sup>3</sup>/sec. to enable the directorate of water's resources staff to operate the project at full capacity to obtain a better water supply. The project work includes mechanical, electrical, and civil works as below:

- Supply of all machinery and equipment necessary to prepare the site.
- Supply materials and cast concrete base.
- Supply materials and cast concrete base to support the intake and pumping pipes.
- Supply materials, install, connect, test, and operate the electrical switch.

- Supply, install test, and operate a new brand, Water Pump.
- Supply and install new valves.
- Supply, connect, test, and operate power cables.
- Supply, install, connect, test, and operate the main electrical board.
- Supply and install vacuum system.
- Supply and install led light.
- Supply and install, floodlight.
- Supply materials and install shade area.
- Supply materials and Install a new galvanized chain link fence (BRC).
- Supply materials and spread lay of fine gravel.
- Supply materials and print nameplates.

BoQ is prepared and submitted for tendering (refer to enclosed BoQ)

### **General Terms and Conditions**

- The contractor should submit to UNHCR's Supervisor Engineer samples/certificates of origin and technical specifications of the materials to be used before the commencement of the work. UNHCR's Supervisor Engineer reserves the right to reject any material that is not in conformity with the specifications. Rejected materials should be replaced by the contractor without charging the additional cost to UNHCR. The work should be carried out as instructed by UNHCR and in coordination with the local government authorities according to Iraq General Technical Specifications (IGTS). Additionally, UNHCR's Supervisor Engineer can request lab tests, and Certificates of Origin & Quality to ensure the adherence of materials to agreed-upon terms and conditions.
- The contractor should submit to UNHCR's Supervisor Engineer daily and weekly progress reports.
- The quality of the work and the materials supplied by the contractor will be inspected by UNHCR's engineers and the local Government engineers. The work must be done in compliance with the engineering specifications/standards.
- All electrical materials (equipment and accessories) should be warranted for a minimum of 3 years from the date of installation to cover for failures caused by faulty design, materials and workmanship.
- The contractor shall install one steel signboard of 1.2m x 1.8 m at each job site for project visibility purposes.
- All the mentioned quantities in the Bill of Quantity (BOQ) are estimated and are subject to actual measurements after the completion of the project.
- The contractor shall appoint a qualified site engineer and surveyor, each with five years of relevant professional experience, to work as part of the project-based personnel, and who should remain on the sites full time during the working hours contract period.
- Any damage caused by the contractor to the existing pipeline, electric poles, cables, streets and sewerage channels during the implementation of the project in the area should be immediately repaired/compensated by the contractor at no additional cost to UNHCR.
- The contractor should remove all debris and site waste after completion of works to dumping sites that are approved by the Nineveh Municipality.
- The awarded contractor will be required to complete all works as per the Bill of Quantities and Technical Specifications within **180 days** from the date of signing of the Handover.

### **Related Services**

<i>Delivery Terms of the Construction Materials</i>	Al-Hamdaniya, Ghraib, and Qaraqul areas are within Agargoof sub-district of Abu Ghraib district, Baghdad governorate.
<i>Exact Address of the project site</i>	Coordinates: Lat: 33.38915 Lon: 44.067129
<i>Testing Requirements</i>	All construction materials should be tested according to construction work specifications (Iraq General Technical Specifications)
<i>Technical Support Requirements</i>	In accordance with the enclosed Bill of Quantity
<i>Duration of Contract</i>	All works should be completed within 180 days
<i>Payment Terms</i>	<p>Payment to the Contractor shall be made as follows:</p> <p>Ten percent (10%) of retention fee will be held from each progress/interim and/or final payment made.</p> <p>Each progress/interim payment will be conducted upon completion of at least 30 % of the works stipulated in the BOQ.</p> <p>UNHCR engineers will determine the percentage of work executed.</p> <p>A retention fee of 10% will be released after 6 months of completion of 100% of works to observe the defect liability period. The retention fee of 10% will be released to the contractor upon inspection of works/site by UNHCR Engineer and issuance of Handover Certificate.</p>
<i>Conditions for Release of Payment</i>	For interim payments:
	<p>1) Approved Requests for Inspections from the supervision engineer.</p> <p>2) Approved detailed quantity sheets (take-off sheets) from the supervision engineer.</p> <p>3) Approval from UNHCR's Representative on the whole process.</p>