**SCOPE OF WORK**

**Rehabilitation, repair, and improvement of Water Points (WP) and Water supply network (WSN)**

1. **Background Summary:**

This document intends to explain the upcoming rehabilitation and renovation concept for the targeted Water Points (WP) and Water Supply Network (WSN) located in the provinces mentioned below and to conduct and apply a pre-qualification process for the qualified vendor determination.

It will help IRC to identify the qualified vendor, speed up the Procurement process, and use the time effectively to carry the vendor onto the ground for these rehabilitation and renovation activities explained below.

1. **Methodology:**

After the identification of specific Water Points (WP) and Water Supply Network (WSN) and their numbers within the province, a technical survey and assessment, development of the detailed BoQ and SoW along with the technical drawings, if required, will be shared by IRC with the successful vendor (resulting from this pre-qualification process) for pricing.

After receiving the priced BoQ from the vendor, the price will be analysed at the nearest time the contract will be drafted and signed by both parties (IRC and successful Vendor) for starting and executing physical work on the ground.

1. **Project Locations include:**

* Helmand-related districts.
* Herat-related districts
* Logar-related districts
* Jalalabad-related districts
* Laghman-related districts
* Kabul - related districts
* Kanduz - related districts
* Badghis – related districts
* Khost – Related districts
* Paktai – Related districts
* Bamyan-Related districts

1. **Activities Type:**

This includes the rehabilitation and renovation of Water Points ( hand pump supported dig well, water wells, deep wells, Shallow wells) structures and the water supply network includes the rehabilitation of water tanks, water sources, electrical system ( solar or Local ), inverter and controller system, network gate valves, check valves, existing pipe scheme, new pipe network extension, network main and sub-branches rehabilitation, household connections in the upper-mentioned provinces' target districts which will be determined later. The main and detailed activities are explained below.

1. **Rehabilitation of Water Sources (Water Points):**

* Bore well development and testing.
* Handpump rehabilitation.
* Water Pump (Submersible) provision.
* Casing pipes and bolder provision and filling.
* Apron construction or Rehabilitation.
* Raising main (transmission line) provision and installation.

1. **Repairing / Construction Water Tanks:**

* Construction or Repair of system safety and security measures (guard room/ Boundary fence).
* Construction or repair of water tank frame and body.
* Construction or repair of connecting water tank to the water source and the distribution network.

1. **Repairing & rehabilitation of the water distribution scheme.**

* Construction or repairing of network Gate valves.
* Construction of New Pipe network extension.
* Rehabilitation of Existing damaged pipe network.
* Manhole (network chamber) rehabilitation.

1. **Provision and Rehabilitation of Solar system:**

* Provision and installation of solar panels.
* Provision and installation of Inverters.
* Provision and installation of ON/OFF switch, Changeover, and Charge controller (if required any).
* Rehabilitation and renovation of system Electrical wiring (caballing).

1. **Duration:**

The anticipated duration of these activities for each province is considered 4 months or 120 working days after the signing of the contract and note to proceed.

1. **Project Scope:**

* **Vendor General Responsibility**

The vendor shall mobilize tools, materials, equipment, and team to the project site, and should coordinate the project commencement with the IRC representative, PRRD (Provincial Rural Rehabilitation Directorate), and relevant community and other direct or indirect involved provincial government before starting the work.

The vendor is expected to carry out all works thoroughly best manner and with professional standards as instructed in the project documents such as SoW, BoQ, and design drawings which will be provided after this pre-qualification process.

The vendor shall be responsible for implementing and monitoring an Environmental Mitigation and Monitoring Plan (EMMP) to comply with donor requirements for thisproject. The work shall include the monitoring and preparation of the evaluation reports during all phases of the project. Every month, the vendor submits the evaluation report. The vendor shall also submit monthly progress reports and a final report is also required for submission before final acceptance. This final report should summarize the overall activity carried out under this subcontract.

The vendor shall carry out operations with due efficiency by the terms of the contract and to the satisfaction of the stakeholders such as PRRD, Local community, and IRC representatives. For this purpose, the sub-contractor shall use suitable equipment, and supply efficient and experienced staff.

Contractor should consider safety and security measures of his staff, tools, and equipment during project implementation, IRC is not taking any responsibility for loss, loss, damage, or harm to the sub-contractor’s staff, tools, equipment, and machinery.

Transportation of all project's required equipment, tools, and materials to the project site is the sub-contractor’s responsibility and IRC will not accept any equipment and materials that are damaged and unfunctional delivered to the project site.

The sample of tools and equipment used for the project should be verified and confirmed by an IRC representative and PRRD (if required) before delivering to the project site and without verifying the sample, using such materials and equipment will not be accepted.

The contractor is responsible for clearing the site for commencing the project work which includes but is not limited to debris removal, ground levelling, and barriers set up to demarcate the area of the project. The layout of the site should allow for easy access to the project site for removing excavated materials and disposing of them in the assigned location identified by the community or local government.

The contractor should perform overall rehabilitation activities described in the SoW, BoQ, and material specification which will be shared later after this pre-qualification process completion in detail, but in general, the concept of activities are described below such as construction or rehabilitation of the water source ( deep well, dug well, shallow wells, springs,), construction and rehabilitation of water tanks, ( guard rooms, the water tank body and frame and connecting it to the water source and the water supply network), new construction or rehabilitation of the water supply network main and sub-branches, network chambers (gate valves, check valves, Joints, etc), and the provision of materials and rehabilitation of water supply network electricity system where and what required.

Individual and joint monitoring might take place by IRC, PRRD, or the local community. sub-contractor is responsible for any inquiry about the work quality, quantities, and time-consuming. If any concern is raised during the monitoring of the rehabilitation work quality, the sub-contractor is responsible for removing and re-executing the activities and has no right to claim any additional cost.

The contractor should demobilize the project site, bring the site to a normal condition, and remove all necessary and unused materials such as sand, cement bags, stones, and additional soil from the project site after work completion and clear the site for normal operation. the acceptance letter from the health facility management should be received in close coordination with the IRC representative to show the project is functional, Operational, and completed.

The Contractors are part of the handover process and should actively contribute to the handover process and make sure there is no risk of any concern regarding work quality. Final project completion will be considered upon the handover of the project from PRRD has been confirmed and received.

Site Journal should be available at the project site and daily should be signed by external visitors such as PRRD, Community, or any other party, and internal visitors such as IRC's personnel and engineers. if they had any comments or recommendations on the project activities implementation, quality, quantities, mobilization, etc should be recorded.

1. **Activities Description:**

Below is the general concept of activities to be performed by the vendor and the final quantities and amount, and the exact specification of each specific activity for each component of this rehabilitation work will be determined after the site and location selection and the survey. And blank Bill of quantities along with SoW will be shared with the vendor for pricing later.

This includes the provision, transportation, and delivery of materials, equipment, and tools along with professional staff to perform the activities explained below qualitatively and quantitatively but not limit mobilization of site and staff, material storage, machinery, and any other necessary measures to perform the rehabilitation activities on time for each specific water supply network located in the with their relative provinces.

The sample of materials, tools, and equipment used for these activities and rehabilitation should be checked by the IRC representative (engineer) before use and the vendor should get verification of the used materials.

The concept of the below-mentioned activities might require new construction or repairing and rehabilitation of the existing ones which will be determined while the water supply network location is selected, and technical surveys and assessments have been conducted.

* 1. **Rehabilitation or Construction of water sources (WPs):**

This might include digging new water wells (source) and or repairing and developing the existing ones. The work might include provision and installation of casing and filter pipes, bolder and filling materials, raising the main, Cylinders, pumps hands, heads, body/ Submersible, concrete apron, soak away pits, and any other necessary works such as safety measures of the source or spare parts if required to make the source of water is fully functional and operational.

The final list of bills (BoQ), SoW, and drawings (if required) for the required activities to be performed will be provided upon the site being selected and surveyed after this pre-qualification process.

* 1. **Repairing / Construction Water Tanks:**

This might include the new construction or repair of the existing water tank (reservoir), and body frame (if the tank was elevated) as well as the foundation work for the tanks.

The point to be noted is that this proposed water tank might be elevated with steel frame structures or ground reservoirs with RCC concrete structures.

In addition, the vendor should focus on the water tank/ reservoir outlets and inlet structures improvement to make sure they are connected to the source of water and the water distributed network in a proper professional manner.

In an optional case, some water supply networks might require guard/ observation/control/ security measures, it might be a boundary fence or a gourd room. some of them already might have and required repairing and rehabilitation and some might require the construction of new ones.

The size, type, materials, capacity, specific and exact location, and other necessary technical information will be provided to the vendor while the site is selected, the survey is conducted, and technical documents are prepared. And it would be done after completion of this pre-qualification process.

* 1. **Repairing and Rehabilitation of Water Distribution Scheme:**

This includes the rehabilitation of the damaged parts of the network including the crack in the pipe, leakage in joints of main and sub-branches, or sub-branches to the sub-branched, or it might include the extension of branches of the networks and adding more household connections, gate valves, chambers ( manholes) which might require additional pipes, elbows, gate valves, and any other accessory or fitting materials and construction work.

The vendor is responsible for the overall provision of materials, tools, equipment, and skilled and unskilled manpower to complete the work on time and professionally.

A detailed list of bills, each specific activity SoW, and drawings if required will be provided to the vendor after the completion of this pre-qualification process.

* 1. **Provision and Rehabilitation of water supply network Solar System and electricity:**

This is the rehabilitation and renovation activities of the existing water supply network electricity system, which might include the provision of all or some portion of the materials such as solar panels, panel frames, inverters, changeover, charge controllers, cabling, grounding (earthing), and any other tools, equipment, and manpower required for the complete installation or renovation of the system but not limited to the materials and equipment provision, delivery, installation, and completion of this rehabilitation. The aim of this rehabilitation should result in the sustained operation of the system electricity.