**SCOPE OF WORK**

**Rehabilitation, repair, and improvement of Schools**

1. **Background Summary:**

This document intends to explain the upcoming rehabilitation and renovation concept for the targeted schools 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 vendors, 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 schools 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 and the price analysis at the nearest time the contract will be drafted and signed by both parties (IRC and 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 School structures and water supply, sewage, and solid waste management (SWM) facilities in the upper-mentioned provinces' target districts which will be determined later. The main and detailed activities are explained below.

1. **Repairing and rehabilitation of School buildings (structures):**

* Boundary wall and main gate repairing.
* doors and windows.
* Plasterwork and painting.
* Roof and Ceiling repair.
* Floors surface, stairs, and Mosaic work.

1. **Repairing / Construction of WASH component:**

* Construction or Repair of Toilets.
* Construction or repair of Bathrooms.
* Construction or repair of Water Tanks
* Construction or repair of water wells.
* Construction or repair of Solar electricity system.
* Construction or repair of Septic Tanks.
* Construction or repair of water supply pipe network.
* Construction or Repair of the sewage system.

1. **Supply of equipment and tools.**
2. **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, DoE (Directorate of Education), and relevant school management before starting the work.

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

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 shall submit 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 in accordance with the terms of the contract and to the satisfaction of the stakeholders such as DoE, School management, and IRC representatives. For this purpose, the sub-contractor shall use suitable equipment, and supply efficient and experienced staff.

The 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 leveling, 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 the concept of activities are described in general below such as rehabilitation of the main building all components, electricity, water supply, sewage system, etc and make sure are fully functional and operational.

Individual and joint monitoring might take place by IRC, DoE, or School management. sub-contractor is responsible for any inquiry about the work quality, quantities, and time-consuming. If any concern is raised during the monitoring on 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 school 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. And final project completion will be considered upon the handover of the project from DoE has been confirmed and received.

Site Journal should be available at the project site and daily should be signed by external visitors such as School Management, DoE, 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 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 school 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 school 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 school selects and conducts technical surveys and assessments.

**Rehabilitation Of Building Structures**

* **Boundary wall and main gate repair**: This might include the work from the foundation to the new construction or partial rehabilitation of the wall.

1. **Construction of new wall**: this might include excavation of foundation, laying Gravel and PCC laying, and construction of new brick masonry boundary wall along with provision and installation of the main entrance gate. This also might include plasterwork and painting.
2. **Repairing of Boundary wall**: this includes the partial repairing of the wall such as collapsed, cracked, raising, and new construction parts as well as repairing and maintenance of the entrance gate but not limited to the required plasterwork and final painting.

* **doors and windows:**

1. **New construction:** It is the construction, provision, and installation of new doors and windows to be provided. All the parts like frame, glasses, and locks shall be new, best quality, and should be oil painted correctly placed constructed, and leveled.
2. **Repairing:** the required quantities will be provided to the vendor, and the type of repair will be finalized. The vendor is responsible for repairing all the parts of the windows and doors that are required. And should make sure the door and windows are closing and opening normally, fit to the frame and to the walls, filling properly the gap and space between the frame and wall with cement mortar.

* **Plasterwork and painting:**

The vendor is required to remove all cracked plaster from the wall surface, clean it, and make sure there is no crack in the wall. If a crack appears, the vendor should fill the crack with proper and suitable material or fill the crack space with cement mortar and then plaster the wall along with curing and watering. The plaster should be best leveled and smooth surfaced.

* **Roof and Ceiling repair:**

While working on repairing of ceiling and roofs of the school the vendor shall make sure with ceiling cracks and plasters from inside the room as well as crack and filling materials from the top of the roof, which might need cement mortar, grouting tools, mosaics, and isogamy which will be determined while technical survey conducted and BoQ developed.

After the repair, the vendor should make sure that rainwater is securely directed to the way to be out (Roof rain drainage), no water is standing on the roof and no seepage has been taking place.

* **Floors surface, stairs repairing:**

the schools might require the repairing of the cracks and surface improvement of the floor for veranda, classrooms, office rooms, and stairs. The existing cracked floor and stairs should be removed properly and reproduced with concrete along with proper technical shattering work and smooth surfaces. And might have tills to be installed on the surface. The concrete, materials, and tills used for the rehabilitation should be of the high quality available at the market.

**Repairing of WASH Components**

* **Construction or Repair of Toilets:**

1. Construction: this includes the excavation of the foundation, the stone of PCC foundation work, building structures brick masonry, laying of concrete layer for the floor, construction pits and safely managed excreta system, provision and installation of new windows and doors, plasterwork, painting, and final furnishing for the new latrine.
2. Repair of Existing toilets: this includes repairing floors concrete, and wall plasters, provision of new commodes and sinks if required, repairing doors and windows, and replacing them with new ones if were not repairable, painting along with proper excreta or sewage management system or pipe network connect to the septic tank.

* **Construction or repair of Bathrooms.**

1. **Construction of new bathroom:** this includes the excavation of the foundation, the stone of PCC foundation work, structures brick masonry, laying of concrete layer for the floor, provision, and installation of new windows and doors, plasterwork, painting, water supply piping such as provision and installation shower, sinks, mirror and connect to the water tank, and sewage system to connect to the septic tank and final furnishing for the new Bathroom.
2. **Repairing of existing Bathroom:** this includes repairing floors concrete, and wall plasters, provision of new commodes and sinks if required, repairing doors and windows, and replacing them with new ones if were not repairable, painting along with proper sewage management system or pipe network connect to the septic tank.

* **Construction or repair of Water Tanks:**

1. **Construction:** This includes the provision and installation of the water tank with a capacity of 5000 to 10000 liters ( Steel / RCC made) along with all pipe network and fitting materials required for proper connection to water source as well as to the toilets and bathrooms but not limited to the excavation of trench for pipe, provision of pipe and laying, backfilling as well as concrete work on trench inside the building and where required.
2. **Repairing of the existing:** this includes the removal of the tank, repairing and reinstallation, as well as the improvement of the complete piping system connected to the water source and the toilets and bathroom and anywhere required. This might include the removal of soil from the pipe trench, removal of cracked or broken pipes, and replacement with the new one along with all fitting materials.

* **Construction or repair of water wells.**

1. **Construction:** this includes providing tools and equipment to dig the water well with the size of 8” to 10” diameter with dept as determined after the survey but not limited to the provision and installation of casing and filter pipes, provision, and installation of submersible/ Handpump complete set. And to make sure the water well is proper and well functional and operational.
2. **Repairing of existing one:** the vendor needs to extract the overall tools and equipment of the existing water well, and repair and improve its parts such as raising pipes, submersible/Handpumps, cleaning and development of water wells, and reinstalling after the repairing. The items that are not repairable or after repair might not be effective, should be replaced with new ones. And the vendor needs to make sure the water well has proper workability and sustainable operation.

* **Construction or repair of Solar electricity system.**

1. **Construction:** this is the provision of a complete set of solar electricity systems that include Solar panels, frames, inverters, electric cables, on/off switches, grounding, and all accessories along with proper installation. This includes but is not limited to fixing the frame in ground stable, solar panel in the frame, connecting with inverter and to the water wells with capacity fit to the capacity of submersible inside water well, and making use the system is properly working and operational. All the items used in their specification and warranty papers should be provided to the IRC representative.
2. **Repairing of the existing electrical system:** this includes the repairing and maintenance of the existing solar electrical system including the solar panels, solar panels frame, inverter, electrical cabling, on/off switches, and grounding rods. The vendor needs to make sure that the item is workable or repairable and needs to be replaced with a new one.

* **Construction or repair of Septic Tanks.**

1. **Construction of New septic tank:** This is the construction of new septic tanks along with pipe network connection to facility toilets, bathrooms, and other handwashing stations. The activities will include the excavation for the tanks, bed stone/brick masonry work, waterproof plastering, and top slab with a manhole for observation, cleaning, and emptying purposes as well as excavation of trenches for pipelining, provision of pipe with fitting materials and connection it to facilities where required. The vendor needs to make sure that the system is properly functional and operational.
2. **Repairing of existing one:** this includes the cleaning and emptying of the tanks, repairing the tank inlet and outlets, and pipe network connected to the facility washroom such as bathrooms, toilets, and handwashing stations. This includes the provision of materials, tools, and equipment along with complete installation and system operation.

* **Construction or repair of water supply pipe network.**

1. **Construction of new water supply system:** This might be essential to the construction new water supply system for school WASH facilities which includes the provision of different size pipes along with fitting materials, excavation of trenches, laying pipes, filling the trench back with soil, or somewhere might need to remove the existing concrete floor and replace after pipe laying, connect the pipes with a water source ( water well) and as well as to the water tank along with shut up wall where required. The vendor needs to make sure the system is properly functional and operational. The final test will be conducted before the handover of the system.
2. **Repairing of existing water supply system:** this includes the rehabilitation of the system that is currently located. Some parts of the system might require replacement with new ones and some parts of the system might require improvement and maintenance which include connection to water wells, water tanks, toilets, bathrooms, hand washing stations, etc. might be required some part of pipe replacement that includes the exaction, new pipe replacement and backfilling after pipe laying and carry out the site back to normal condition.

* **Construction or Repair of sewage system:**

1. **New Construction:** these activities intend to establish and construct a sewage pipe network to connect overall WASH facilities such as latrines, bathrooms, handwashing stations, and sinks to the septic tanks. This includes the provision of materials and equipment such as PVC pipes of different sizes, elbows, connectors, , manholes, and activities like excavation of trenches, laying pipes, backfilling, fitting, and connecting to assets where required.
2. **Repairing of existing one:** this includes the rehabilitation, renovation, and maintenance of the existing sewage system. The vendor is responsible for having all the tools, skills, equipment, and materials to repair the system which might require the removal and replacement of underground sewage pipes, manholes, and fittings connecting assets, and network to the septic tank. And making sure that this repair will result in the best and most stable functionality for the system operation.