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| **Program Title:**  **Work Title:** | Contributing to the Mitigation of Conflict Over Natural Resources between Farmers and Herder Communities in Taraba and Adamawa States, Nigeria (COMITAS - II).  ***Construction of Infiltration Gallery to Support Activity 3.2.1 (Facilitate Natural Resource Management & Planning and Implementation - QIP)*** |
| **Project Location(s):** | Gweila, Shelleng Ward, Shelleng LGA Adamawa State. |

**Background:**

Mercy Corps has been present in Nigeria since 2012, focusing its interventions on humanitarian assistance, economic recovery and development, and conflict mitigation and peacebuilding. Considering the protracted conflicts between farmer and herder communities in Adamawa State, Nigeria, competing claims to land, water and other natural resources are at the root of these growing tensions. Indeed, pressure on natural resources has increased due to demographic growth, expanding human settlements, privatization of land, year-round farming practices, environmental degradation, and climate change. In many instances, traditional conflict resolution mechanisms that play significant roles in mitigating these resource-based conflicts locally have become overwhelmed. Besides, low levels of trust in authorities by communities due to widespread inaction, impunity, and perceived biases or reactive responses by the government to shared natural resource conflicts complicate the tensions further. Through funding from the EU, the International Organization for Migration (IOM), Search for Common Ground (Search), and Mercy Corps have designed a comprehensive and integrated approach (COMITAS) that builds on the comparative strengths of each organization to contribute to the mitigation of conflicts over natural resources between farmer and herder communities. This program is developed around 4 interconnected objectives: strengthen traditional conflict resolution; improve trust in authorities; enhance collaboration on natural resource management and improve intra and inter-communal perceptions.

Mercy Corps is leading the implementation of **objective 3**, which focuses on **enhancing collaboration on natural resource management**. Mercy Corps has supported the communities to formulate concrete action plans to improve resource management. The action plans build on existing local plans and integrate tools that are successfully being used in the local government area and are linked to the planning of natural and community resources at the grassroots level. The action plans form the basis of concrete actions and projects that will demonstrate the benefits of cooperation between and among communities, enhance trust, and support improved natural resource management. In this instance, Priorities from the plans have now identified Quick Impact Projects (QIPs)agreements through water infrastructure projects. The results of the geophysics survey proved that groundwater development through borehole construction is not viable, hence an alternative (Infiltration Gallery) was adopted to provide the community with a sustainable source of water; a concept that aims to collect the alluvial water from the riverbanks through a system of infiltration gallery and a collection well.

**Objectives:**

* Facilitate NRM through groundwater development (Infiltration Gallery).
* Create a sustainable source of water supply to reduce tensions in resourced-induced conflict-prone zones.
* Collaborative use of natural resources for improved social cohesion.

**1. Project Overview:**

* The project involves the construction of a water infiltration gallery to facilitate the collection and infiltration of water into the deep well for extraction through a solar-powered submersible pump and riser pipes.
* The gallery will be designed to meet the specific requirements of the site and geophysical survey recommendations and ensure efficient water management.

**2. Pre-Construction Phase:**

* Conduct a geophysical site survey to assess the location and conditions for the installation of the infiltration gallery.
* Obtain all necessary permits and approvals from relevant authorities for the construction work.
* Develop all appropriate quality assurance documents.
* Location-specific working designs should be produced considering factors such as flow rates, depth of the well, geophysical survey outcome, and materials to be used.

**3. Construction Phase:**

* Excavate trenches in the designated area for the installation of the infiltration gallery according to the approved design plans, dimensions, and geological features. Taking note of components such as perforated pipes, filter media, and casing in the water infiltration gallery and well according to the design plan.
* Bore a hole wide enough to accommodate a 4 feet-reinforced circular or square culvert serving as a lining for the water collection well.
* Construct the gallery well structure using appropriate materials (4-foot-in diameter reinforced concrete culverts) and techniques to ensure durability and functionality.
* Install necessary filtration systems and drainage (appropriate screens of 6 numbers x 6 m length Upvc pipes 15 Bars) and adequately cover with relevant boulders and other aggregate sizes, and riverbed sand with relevant components to facilitate water infiltration.
* Backfilling and Sealing: Backfill the trench and borehole with suitable materials to ensure stability and prevent contamination of the water source. Seal the well casing to prevent surface water from entering the well.
* Testing and Monitoring: Conduct tests to ensure the proper functioning of the water infiltration gallery and well, such as water flow rate tests and water quality analysis. Implement a monitoring system to track the performance of the system over time.
* Maintenance: Establish a regular maintenance schedule to inspect and clean the water infiltration gallery and well components, as well as monitor water quality and flow rates.
* Conduct quality control checks throughout the construction process to ensure compliance with specifications.
* Conduct pumping tests to ascertain submersible pump size and solar panel specifications.
* Construct a fetching point fully tiled with 4 tap points, slopped at an appropriate gentle angle to facilitate emptying of runoff sand trap, seal, and floor.
* Install a 10,000L PVC tank on a 1.5 m-high elevated platform.

**4. Post-Construction Phase:**

* Test the functionality of the infiltration gallery to ensure proper water infiltration and drainage.
* Provide training to site personnel on the operation and maintenance of the gallery.
* Prepare a detailed report documenting the construction process and final results.

**5. Health and Safety:**

* Implement all necessary safety measures to ensure the well-being of workers and site personnel during construction.
* Comply with all relevant health and safety regulations throughout the project.

**6. Project Management:**

* Assign a project manager to oversee the construction process and ensure timely completion within budget.
* Maintain open communication with the client to provide regular updates on the progress of the project.

**7. Deliverables:**

* Completed water infiltration gallery constructed according to approved design plans.
* Documentation including construction reports, and test results.
* Maintenance guidelines.

**1. Project Overview:**

* The project involves the construction of a water infiltration gallery with a depth of 20 meters, as well as the installation of solar panels, submersible pumps, and storage tanks to support the water management system.
* The gallery will be designed to efficiently collect and infiltrate water into the ground, while the solar panels, pumps, and tanks will provide energy-efficient and sustainable water management solutions.

**2. Pre-Construction Phase:**

* Conduct a detailed site survey to assess the location and conditions for the installation of the infiltration gallery, solar panels, pumps, and tanks.
* Obtain all necessary permits and approvals from relevant authorities for the construction and installation work.

**3. Construction Phase:**

* Excavate the designated area for the installation of the 20-meter-deep infiltration gallery according to the approved design plans.
* Construct the gallery structure using appropriate materials and techniques to ensure durability and functionality at the specified depth.
* Install solar panels to provide renewable energy for powering the submersible pumps and other components of the water management system.
* Install submersible pumps to facilitate the movement of water from the storage tanks to the infiltration gallery.
* Install storage tanks to store and distribute water as needed for infiltration and other purposes.
* Implement necessary filtration systems and drainage components to support efficient water management.

**4. Post-Construction Phase:**

* Test the functionality of the entire water management system, including the infiltration gallery, solar panels, pumps, and storage tanks.
* Provide training to site personnel on the operation and maintenance of the system.
* Prepare a detailed report documenting the construction process, installation of components, and final results.

**5. Health and Safety:**

* Implement all necessary safety measures to ensure the well-being of workers and site personnel during construction and installation.
* Comply with all relevant health and safety regulations throughout the project.

**6. Project Management:**

* Assign a project manager to oversee the construction and installation process, ensuring timely completion within budget.
* Maintain open communication with the client to provide regular updates on the progress of the project.

**7. Deliverables:**

* Completed water infiltration gallery with a depth of 20 meters, solar panels, submersible pumps, and storage tanks installed according to approved design plans.
* Documentation including construction reports, test results, maintenance guidelines, and energy efficiency assessments.

**8. Delivery Timeline:** The assignment will take a total of 60 days on a contract basis as designed by COMITAS and is anticipated to commence on 18th August 2024 and to be completed by 18th October 2024.

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| **9. Supplier Eligibility Criteria:**   1. Proof of business registration document (CAC) 4 years and above of registration with not less than 4 years of operation history in a WASH-related field. 2. Provide an Organizational Profile, showing **relevant** experiences in water schemes (handpumps, solar boreholes, water treatment services, water infiltration gallery, improved wells, concrete or earth dams, or other water-related services offered. 3. Experience in similar works. Verifiable evidence (Images, letters of Award, Payment receipt, service completion) of similar project implementation – ***Specifically*** – **Development of Infiltration Galleries** 4. Proof of financial capacity to execute the project. 5. A WASH team with any three qualifications below /Building/Structural Project management team with educational certificates and licenses and professional body certifications of Water resource engineering, ***Civil and water engineering, Civil engineering, Hydrogeology- engineering, Structural Engineering, Building, Hydro, and geology engineering.*** 6. Must be fraud-free and never convicted of grave professional misconduct 7. Key personnel CV (2 pages max per personnel): Educational and professional body licenses and certificates for team members: COMEG, CORBON, COREN, NMGS, NISE, and other relevant certifications. |

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| **10. Document Submittals:**   1. CAC certificate of registration not less than 4 years of operation /and company profile – 2 pages max 2. Copies of any three (verifiable) of the following documents:  * Award letter for the construction or rehabilitation of a water infiltration gallery * Service Completion certificate for a water infiltration gallery project * Images of the water infiltration gallery development process or a completed facility  1. Letter stating consent to engage community available and required skills as either skilled or unskilled labor. 2. Detailed work plan outlining preceding, succeeding, and overlapping works, structured into days and weeks not exceeding 8 weeks in a Gantt-chart format. 3. Price offer and validity period 4. CV and professional body certification for the focal project and support engineer (foreman or project engineer) (CVs and qualifications of key personnel (Hydro and Geology Engineering, Civil Engineering, hydrogeology engineering, Civil and water resources engineering, and other hydro development related disciplines). |

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| **5. List Evaluation Criteria (for either method) and relative weighting (for Trade-Off method only):** List as many evaluation criteria as needed *(Refer to section 5.11 of the FP3 or consult with Global Procurement for additional assistance)*   |  |  |  |  | | --- | --- | --- | --- | | **Evaluation Criteria** | **Weight**  **(%)** | **Possible Points**  **(1 to 10)** | **Weighted Score** | | **(A)** | **(B)** | **(A\*B)** | | CAC registration certificate (minimum 5-year registration and operation / Organizational Profile, with 4 years | 15% | 5 year and above – 10  4yrs – 8  3yrs – 6  2yrs – 4  1yr – 2  Less than 1 - 0 |  | | Evidence of similar works executed i.e. **construction of infiltration galleries** (attach any of the three under-listed documents). Bidder to attach evidence for any one project | 40% |  |  | | Letter of project award / contract / Purchase order | If attached - 3 points |  | | Signed Service completion / Payment certificate | If attached - 3 points |  | | Photos for completed works | If attached - 3 points |  | | General construction experience (any 1 attachment) | 1 point |  | | A detailed work plan, stating the start and completion time, preceding, succeeding, and overlapping work components, and activity overlaps, outlining a methodology not spanning beyond 8 weeks. | 15% | 5 – 8 weeks – 10 points  9 - 12 weeks - 5  Above 12 weeks – 0  Less than 4 weeks - 0 |  | | Cost Offering | 10% | Lowest bid/bid offer x100 (reducing balance method) |  | | CVs and qualifications of key personnel (Hydrogeology and mining engineering, Geology, Civil Engineering, hydrogeology engineering, Building tech, water resources engineering, and other hydro development-related disciplines. | 10% | 3 disciplines  Any 3 disciplines – 10 points  Any 2 disciplines – 6 points  Any 1 discipline – 3 points  No CVs - 0 |  | | Letter of consent to engage community labor adequately as either skilled or unskilled labor | 10% | Letter Attached - 10pts  No Letter Attached -0 point |  | | **TOTAL POSSIBLE SCORE:** | **100%** |  |  | |

**Additional Requirements**

Note that any Materials to be installed on-site shall be verified and approved before installation, also necessary changes, or improvements, shall be authorized by MCN technical staff in writing. Therefore, the applicant is advised to visit the site at their own cost before submitting the bid to avoid any potential price increase demands.

**Payment Terms:**

**45%** after the following works have been achieved

* Excavation - Trench and gallery well
* Well-lining with reinforced concrete walls or culverts
* Bed Preparation – Trench base preparation
* Installation of Filter Media
* Installation of Collection Pipe
* Water Fetching points/soak pits

**45%** accomplishing the following and submission of completion report

* Construction of Inspection and Access Point
* Backfilling and Compaction
* Connecting to Storage and Distribution or System
* Animal Troughs
* Testing and Commissioning
* Attachment of maintenance manual and completion report

**10%** retention after 6 months.

**Procurement Method:**

Request for proposal method shall be used.

**Application Timeframe:**

**16th September 2024 to 23rd September 2024**

REQUIREMENTS AND EXPERIENCE

Interested contractors should download BOQ, RFQ and SOW via this link [**www.mcnigeria.com/tenders**](http://www.mcnigeria.com/tenders)

Application Submission site **ng-yolquotations@mercycorps.org** using “**RFQ 098\_Constuction of Infiltration Gallery at Gweila Shelleng LGA**” as the subject of the email.