



Scope of Work

Water Sanitation and Hygiene (WASH) Technical Consultancy for the Al Hol Water Network

Reports to: WASH Construction Coordinator

Location: Al-Hol Camp, Al-Hasaka, Syria

Program: CCCM - PRM

Dates: from the date of sign the contract up to September 29, 2024

Total LOE: Up to September 29, 2024

Overview

Blumont seeks the services of a reputable consultancy firm with extensive experience in international humanitarian and development settings to oversee the technical and implementation aspects of a new drinking water network within the Al-Hol camp. Under the direct supervision of the WASH Construction Coordinator, the contracted firm will ensure the project's effective execution by addressing real-time issues and ensuring compliance with international standards and project requirements. The firm should have experience with donor interests and priorities around WASH, humanitarian responses in protracted contexts, and durable solutions, especially with USAID/BHA, DOS/PRM, and the UN.

Scope of Services

Quality Assurance/Quality Control:

- Serve as Construction Quality Control Advisor, providing technical guidance and advice to the water network implementation management team. This includes reviewing project designs and BOQs for compliance and providing feedback on project work plans, strategies, deliverables, and reports.
- Review and advise on the adequacy of contractor quality control protocols, testing methods, and inspection checklists to ensure compliance with specifications, standards, and approved drawings.
- Develop and implement a comprehensive quality assurance and control system, to ensure all elements of the water network meet specified quality standards and project requirements included in the project documents and Bill of quantities. Quality assurance system should be developed in consultation with all different stakeholders.

Construction Supervision Assistance and Material Verification:

- Continuously support the implementation team in supervising, monitoring, inspecting, testing, controlling, and reporting on contractors' methods of working and the quality of works, materials, and working practices for full compliance with specifications, contract documents, and national/international standards.
- Conduct regular site visits (including in critical times) to monitor construction progress and identify issues and deviations from the construction plan and provide necessary guidance and direction to the construction team and local contractors.
- Verify the use of approved materials, construction techniques, and best practices to optimize the durability, functionality, and longevity of the water network infrastructure.



- Provide expertise in reviewing material submittals and all necessary documents before execution, ensuring strict compliance with quality standards and national specifications, including conducting on-site material tests and reviewing off-site test results in collaboration with the implementation team.
- Participate in regular construction site management meetings to discuss progress, flag issues and address concerns, and ensure alignment between stakeholders.
- Participate in biweekly update calls with the project stakeholders.

Risk Assessment and Management:

- Assess the failure risks of the new water network infrastructure and develop a comprehensive risk management strategy. Flag any issues pertaining to work quality, material quality, or compliance with construction standards to the implementation team and contractors.
- Advise the implementation team on potential risks to project timelines and work/material quality.
- Provide recommendations to the implementation team and contractors on measures to ensure proper storage and security of materials and equipment.

Inspection and Testing:

- Offer extensive on-site construction supervision assistance to the implementation field teams, encompassing quality control measures and overseeing testing and commissioning of individual network components and the system as a whole.
- Verify and advise on the approval of all inspection and testing requirements for soils and materials supplied for incorporation into the works by certified laboratories.
- Conduct inspections and quality checks at every stage of the construction, from foundation laying to pipe installation, welding, and testing, to promptly identify and rectify any defects or deficiencies, report and document results.
- Flag any issues pertaining to work quality, material quality, or compliance with construction standards to the implementation team and contractors.

Variation Orders, Shop and As-Built Drawings:

- Support the implementation team in verifying variation orders and calculation notes, with emphasis on compliance with specifications, design criteria, and impacts on timeliness and cost.
- Collaborate closely with contractors and the implementation team to develop shop drawings and as-built drawings, update design documents, and revise Bill of Quantities with respect to materials and proposed construction methods.
- Prepare monthly progress with photos and graphics attachments reports and work plans, ensuring effective communication and reporting with the water network implementation management team.
- Provide overall project report implementation detailed report at the end of assignment which will be shared with donors.

Operation and Maintenance Planning:

- Update the initially designed Operation and Maintenance plan, including technical manuals, and develop an efficient Operations plan in coordination with the Operational team on-site.

- Deliver technical training sessions for operators and implementation teams on system Operation and Maintenance of water network systems.

Required Qualifications of Key Personnel:

- A strong background in Water Supply and Sanitation Engineering, Civil Engineering, or related fields.
- At least 10 years of experience in coordination and supervision of donor-funded WASH construction projects, particularly in water and wastewater infrastructure design, construction/rehabilitation, operation, and maintenance in emergency or refugee/IDP settings. Projects should reflect experience in similar size and complexity.
- Comprehensive knowledge of water supply, sanitation, and hygiene principles, including water quality testing, water treatment processes, sanitation systems, and hygiene promotion strategies.
- Extensive experience in Hydraulic engineering, modeling, analysis, and design, with proficiency in GIS/GPS, Hydrologic & Hydraulic modeling tools, AutoCAD Civil 3D, WaterGEMS, WaterCAD, etc.
- Familiarity with Integrated Water Resources Management and arid/semi-arid catchment management/planning.
- Official communication will be conducted in Kurdish, Arabic and English.

Deliverables and Timeline:

- Ongoing: Immediate readiness to engage with reviews, implementation troubleshooting, and technical assistance
- Bi-weekly: Participate in biweekly update calls with the project stakeholders
- Month 1 of implementation: Assess the failure risks of the new water network infrastructure and develop a comprehensive risk management strategy
- Month 1 of implementation: Develop and implement a comprehensive quality assurance and control system, in consultation with all different stakeholders
- Ongoing: Develop shop drawings and as-built drawings, update design documents, and revise Bill of Quantities with respect to materials and proposed construction methods
- Monthly 3 of implementation: Review and revise the initially designed Operation and Maintenance plan, including technical manuals
- Monthly: Prepare monthly progress with photos and graphics attachments reports and work plans, ensuring effective communication and reporting with the water network implementation management team
- Within 14 days of project handover: Provide overall project report implementation detailed report at the end of assignment which will be shared with donors

Level of Effort:

The total LOE required is 30 days. The consultancy firm will be required to make field visits to NES regularly throughout the project. The dates and times of the field visits will be determined “as needed”. There may also be opportunities for remote support work. It is anticipated that the firm will need to conduct at least six field visits over the course of the 4-month work plan.