

TERMS OF REFERENCE FOR TEMPORARY APPOINTMENT

Title : WASH Cluster Engineer
Proposed level: P3
Duration : 3- 4 months
Duty Station : Nairobi/ Port Sudan with field visit
Supervisor : WASH Cluster Coordinator

PURPOSE

The WASH Cluster in Sudan is seeking a dedicated and experienced Engineer to review and develop technical designs for Emergency WASH (Water, Sanitation, and Hygiene) infrastructures. The role involves creating innovative and environment-friendly designs for temporary, semi-permanent, and permanent WASH solutions in various settings. The engineer will also be responsible for preparing technical reviews, developing drawings, and cost estimates to support the humanitarian response plans.

MAIN RESPONSIBILITIES AND TASKS

Key Responsibilities:

1. **Technical Review and Development:**
 - Review existing technical designs and develop/redevelop updated designs for Emergency WASH infrastructures.
 - Incorporate innovative and environmentally sustainable solutions in the designs.
 - Ensure designs are suitable for different settings, including emergency, semi-permanent, and permanent structures.
2. **Infrastructure Focus Areas:**
 - Construction/installation of water supply systems: tanks, pumps, generators, and taps.
 - Sanitation facilities: latrines, communal latrines, hand washing stations, and bathing spaces.
 - Development of platforms for laundry and other hygiene facilities.
 - Implementation of WASH facilities in health and nutrition centers, schools, and communities.
3. **Cost-Effective Solutions:**
 - Develop pragmatic and cost-effective solutions to support rapid response needs.
 - Create detailed drawings and cost estimates for emergency infrastructures to aid in the preparation of the humanitarian response cost estimates.
4. **Technical Expertise**
 - Provide technical expertise in drilling and installing hand pumps, motorized pumps, and other water supply schemes.
 - Update the technical guidelines, designs, and cost estimates which are currently based on 2017 data.
5. **Collaboration and Reporting**

- Work closely with partners, donor partners, and other stakeholders to ensure updated and accurate technical information is available.
- Prepare and present technical reports, drawings, and cost estimates to stakeholders.

MINIMUM QUALIFICATIONS AND COMPETENCIES

Qualifications:

Education:

- Bachelor's degree in Civil Engineering, Environmental Engineering, or a related field. Advanced degree preferred.

Experience:

- Minimum of five years of experience in WASH infrastructure development and emergency response.
- Proven experience in designing and implementing WASH projects in humanitarian contexts.

Skills:

- Strong technical knowledge of construction/installation of WASH facilities.
- Proficiency in CAD software and other design tools.
- Excellent problem-solving and innovation skills.
- Ability to develop cost-effective and sustainable WASH solutions.
- Strong communication and collaboration skills.

Language:

- Proficiency in English is required. Knowledge of Arabic is an advantage.