

GOVERNMENT OF PAKISTAN

BALUCHISTAN WATER SECURITY AND PRODUCTIVITY IMPROVEMENT PROJECT (BWSPIP)

Terms of Reference and Scope of Services

Qualifications and Terms of Reference

Consulting Services – WASH Specialist (Individual Consultant) for Component B: Improvement of Quetta Water Supply Systems

1. Background

Quetta, the provincial capital of Baluchistan, faces severe water scarcity driven by rapid urbanization, declining groundwater levels, climate variability, and aging infrastructure. The city depends heavily on over-exploited alluvial aquifers, with extraction exceeding recharge, resulting in falling water tables and deteriorating water quality. The existing water supply system suffers from limited storage, inefficient distribution, high non-revenue water, and weak operation and maintenance, leading to irregular and inadequate access to safe drinking water.

To address these challenges, the Government of the Islamic Republic of Pakistan, through the Government of Baluchistan (GoB), with support of the World Bank, is implementing the Baluchistan Water Security and Productivity Improvement Project (BWSPIP). The project development objective is to improve flood protection, increase access to water for productive use, and improve water supply service delivery in selected areas of Baluchistan.

The Improvement of Quetta Water Supply Systems (IQWSS) is a key sub-project under the BWSPIP, focusing on both infrastructure development and institutional strengthening interventions. The QWASA Project Implementation Unit (PIU) is responsible for the overall implementation and coordination of IQWSS activities. The sub-project includes a comprehensive set of activities such as improvement and rehabilitation of water supply and wastewater infrastructure, groundwater monitoring and management, assessment of options for bulk surface water transfers to Quetta, promotion of rainwater harvesting and watershed management, and strengthening the institutional capacity of Q-WASA.

The WASH Specialist will directly report to the Project Director and will be based full-time at the QWASA-PIU. He/She will support the planning, implementation, monitoring, and technical oversight of water supply and sanitation interventions under the Improvement of Quetta Water Supply Systems (IQWSS) Project.

The responsibilities will include, but not be limited to:

- Provide technical support to the PIU in planning, implementation, and monitoring of water supply and sanitation interventions under the Project ensuring that all project interventions are implemented in accordance with the Project Development Objective (PDO).
- Serve as PIU's focal person for technical review of design, procurement, operational and analytical documents. These include, but are not limited to:
 - sub-project feasibility studies and engineering designs, including technical specifications, construction drawings, schematic layouts, and bills of quantities;
 - technical sections and annexes of bidding documents,
 - Infrastructure completion, hand-over, and operations and maintenance (O&M) documents.
 - program design documents, such as those for hydraulic network modelling of QWASA water supply network and SCADA integration, design of district metered areas (DMA), wastewater management masterplan, non-revenue water (NRW) reduction strategy, among others;
 - relevant analytical and advisory outputs for QWASA under the Project.

The specialist will be responsible for coordinating these reviews with relevant staff and consultants of the PIU and QWASA, as appropriate, including with procurement, gender, social, environmental and financial management specialists and the PSIAC.

- Contribute to Project implementation plans and work plans (including procurement plans) to ensure that proposed interventions are technically appropriate, operationally sustainable, and responsive to Q-WASA's service delivery requirements.
- Assist the Project Director in monitoring and reporting on all Project activities that impact QWASA institutional performance and water and sanitation outcomes, with a focus on indicators included in the Project Results Framework (RF). This will include, but is not limited to:
 - District Metered Areas (DMAs) program implementation to ensure that operational objectives relating to pressure management, leakage reduction, Non-Revenue Water (NRW) reduction, distribution efficiency, and service continuity are achieved.
 - Any changes in water supply and sanitation service delivery in Quetta city that directly result from or can be reasonably attributed to Project interventions, especially utility performance metrics such as continuity of supply, equitable distribution, customer satisfaction, operational performance, and sustainability of services.
 - QWASA internal reform and systems improvement activities such as establishment and operations of a wastewater management directorate/unit and slum/informal settlement services unit; design and adoption of a Utility Management Information System; development of a groundwater management and investment plan for Quetta; customer service improvement; and various technical capacity building activities under the Project.

- Participate in and facilitate coordination among Q-WASA operational departments, the PSIAC, contractors, and the PIU during construction/installation, site inspections, testing, commissioning, performance verification, operational readiness assessments, handover, and post-construction transition of completed water supply and sanitation infrastructure, and provide technical recommendations to the Project Director on compliance with operational and service delivery requirements.
- Maintain effective coordination with relevant government departments, development partners, regulatory authorities, research institutions, and other stakeholders on matters related to water supply, sanitation, utility performance, and sector development.
- Perform any other duties assigned by the Project Director that are consistent with the objectives of the Project and the assignment.

2. Qualification and Experience

- Master's degree (minimum 16 years of education) in Civil Engineering, Environmental Engineering, Water Resources Engineering, Water Supply and Sanitation Engineering, or a related discipline from a recognized university.
- A minimum of **seven (7) years** of post-qualification professional experience in planning, implementation, operation, monitoring, or management of water supply, sanitation, urban utility, or WASH infrastructure projects.
- Preference shall be given to candidates with demonstrated experience working on donor-funded projects preferably in water resources, water supply, sanitation, or urban utility infrastructure projects.
- Experience with programs for utility performance improvement, NRW reduction, pressure monitoring and leakage reduction through District Metered Areas (DMAs), or institutional strengthening of water utilities will be an advantage.
- Experience working at a water and sanitation utility in Pakistan in any capacity (staff, consultant, advisor, etc.) will be an advantage.
- Excellent report writing, analytical, coordination, and stakeholder engagement skills.
- Proficiency in MS Office and other relevant analytical and presentation software.

3. Salary and Benefits

A market-based, competitive salary (lump sum with no additional benefits) will be offered based on qualifications and experience.

4. Time frame of Consultancy

The services of the Consultant will be acquired for the duration of the Project, but may be reduced subject to conditions that will be included in the consultancy agreement/contract.

5. Selection Process:

Consultants shall be selected following the procedures set out in the World Bank Procurement Regulations for IPF Borrowers (Fifth Edition, September 2023), under Open Competitive Selection of Individual Consultants.