

TERMS OF REFERENCE

TECHNICAL & ENGINEERING SPECIALIST

KARACHI WATER & SEWERAGE SERVICES IMPROVEMENT PROJECT

1. Introduction

Karachi is Pakistan's largest city, main seaport and international trade hub. It encounters numerous challenges among which water supply and sewerage are the worst affected services, falling far short of the city's expanding needs. To mitigate this gap, develop these services for Karachi and strengthen the Karachi Water and Sewerage Corporation (KWSC) to become a financially viable and technically well performing water utility that ensures clean, safe drinking water and sewerage services to public, the Government of Sindh GoS / KWSC partnered with the World Bank Group through the Karachi Water and Sewerage Services Improvement Project (KWSSIP). The Karachi Water and Sewerage Services Improvement Project (KWSSIP) encompass a USD 1.6 billion reform-led investment program, to be implemented in four phases over a period of 12 years. Phase 1, with an investment portfolio of USD 100 million, is currently under implementation, and a Project Implementation Unit (PIU) has been established for this purpose. The Project Proposal Form (PC-1) for the Second Phase of KWSSIP amounting to US\$600 Million has been approved by the Executive Committee of the National Economic Council (ECNEC). The project was been approved by the World Bank Board on 12th December 2024. The project is being implemented by the Government of Sindh (GoS) and the Karachi Water and Sewerage Corporation (KWSC) through multiple procurement processes, expected to occur within a short timeframe. The project activities aim to achieve key milestones, including addressing environmental aspects associated with the proposed project components.

2. Key duties, functions and responsibilities:

The Technical & Engineering Specialist will be responsible for providing technical and engineering input and coordination services. He/She will work will be part of the PIU technical team to provide overarching, cross-cutting technical support across all components of KWSSIP-II

3. Duties & Responsibilities:

The duties, roles and responsibilities of the Technical & Engineering Specialist are listed below:

- Identify critical gaps in information and data compiled by the Consultants and service providers
- Guide and provide technical input to the consultants for improved deliverables.
- Assist in the preparation of procurement documents to hire service providers, including Terms of References (ToRs), Expressions of Interest (EoIs), Requests for Proposals (RFPs), Requests for Quotations (RFQs), Requests for Bids (RFBs), specifications and other procurement documents.
- Provide support in the evaluation of bids and proposals, preparation of evaluation reports, pre-contract negotiations and technical discussions and drafting contracts.
- Assist in reviewing and finalizing technical deliverables and reports submitted by consultants prior to submission to the Project Director for approval.

- Provide support and technical and engineering input to the design of projects or sub projects, work plans, related detailed procurement plans and documents including tender documents and TORs.
- Review existing, or develop new guidelines, checklists, standards and procedures for bidding , bid evaluation, designing of water and wastewater supply systems/infrastructure and implementation& monitoring of works.
- Review existing technical specifications , functionality and performance of all interventions, identify critical gaps and provide recommendations for improvements, provide hands on training to PIU staff in reviewing of project technical and financial proposals, preliminary designs and detailed designs
- Review tender documents specifications and drawings and assist the consultant to address any issue or make any modification, if required.
- Assistance in the preparation designs , specifications, drawings , BoQs and bidding documents for works or goods and equipment (for works designed by the PIU or goods and equipment to be procured by the PIU).
- Support the Project Managers and Contract Managers within the PIU – KWSSIP and other businesses and across the wider market.
- Present technical data, project details, and outcomes, and monitor project progress from inception through to the design of sub-projects.
- Preparation of technical reports
- Provide guidance, in developing and implementing technical work plans, performance targets, and milestones.
- Provide guidance in facilitating coordination/consultations and clearances with relevant utilities and authorities during the design stage and approval stages.
- Reviewing and finalizing technical deliverables and reports submitted by consultants prior to submission to the Project Director for approval.
- Support in preparing and deliver progress presentations and technical briefs and reports for the Project Director and World Bank missions.
- Undertake any other assignment related to technical management, as directed by the Project Director.

4. Qualifications and Experience

The candidate should have a Bachelor’s degree with a major in Civil/ Mechanical /Environmental Engineering or equivalent plus a master’s degree in civil/water resource and Wastewater Engineering/Sanitary Engineering/Hydraulic/Environmental Engineering or equivalent from The Higher Education Commission (HEC)-recognized university is required. The candidate should have a minimum of 10 years’ experience on major civil works projects based on The International Federation of Consulting Engineers (FIDIC) form of contract and funded or supported by Multilateral Development Banks (MDBs). The candidate should have strong technical and engineering skills and experience including planning, design, preparation of specifications and bidding packages, construction supervision and contract management. Prior exposure to the technical management practices of the World Bank or other multilateral development partners will be considered a strong advantage. Experience working in Pakistan or other countries in Central or South Asia is required. Membership and/or registration with a recognized professional engineering body is a requirement. Good English language communication and writing skills. Knowledge of local language (Urdu) is an added advantage.

5. Reporting Line

The Technical & Engineering Specialist will report to the Sr. Technical & Engineering Specialist. She/He will be required to submit monthly activity/progress reports, highlighting key tasks undertaken

6. Contract Duration

The Technical & Engineering Specialist is initially required to work for the period of Three (03) years with an annual review on performance which will form the basis of renewal. The Probation Period will be for 3 months during/up to which the contract may be terminated owing to unsatisfactory performance. The contract can be terminated with one month notice period by either party. The position is based in Karachi with travel requirements to the site as and when required.

7. Salary And Benefits, And Conditions Of Service

Market competitive salary based on qualification and experience will be offered. The salary, benefits will be discussed and agreed with the successful candidate. The contract and conditions of service follow the general conditions of service as stipulated in the Project Operations Manual (POM). These will also be discussed and agreed with the successful candidate.

8. Selection Process

An individual will be selected in accordance with process stipulated in Section VII of “Approved Selection Methods: Consulting Services, Clause 7.34, Approved Selection Methods for Individual Consultants under The World Bank Procurement Regulations for IPF Borrowers (Fifth Edition September 2023) available on <https://thedocs.worldbank.org/en/doc/6c0602876d68949e80820507d90a14ed-0290012023/original/Procurement-Regulations-September-2023.pdf>