

VACANCY ANNOUNCEMENT

A foreign funded project seeks to hire dynamic and career oriented professional to work as an individual consultant positions to be based in Karachi, Sindh Pakistan.

Quality Assurance Engineer

- **Qualification:** Master Degree in Civil Engineering with minimum 10 years' experience, or Bachelor Degree in Civil Engineering with minimum 12 years' experience.
- **Experience:** Construction management and quality assurance, especially in Dams and river training works. The candidate should have demonstrated leadership role in donor / foreign funded projects.
- **Age Limit:** Maximum 55 Years

Interested Candidates may forward their resume through courier at Bungalow No 125-B, Khayban-e-Bahria, DHA Phase-VII, Karachi, Sindh or through email at srp.sindhirrig@gmail.com within 15 days after publication of advertisement.

PROJECT DIRECTOR
PROJECT MANAGEMENT TEAM
SINDH RESILIENCE PROJECT
(IRRIGATION COMPONENT)
KARACHI

I. TERMS OF REFERENCE FOR

Sindh Resilience Project (SRP)

Project Implementation Staff-Consultants

A. Background

1 Pakistan is exposed to a number of adverse natural events and has experienced a wide range of disasters over the past 40 years, including floods, earthquakes, droughts, cyclones and tsunamis. Exposure and vulnerability to hazards is further exacerbated by a rapid population growth, growing urbanization, environmental degradation and shifting climatic patterns that can result in the occurrence of increasingly severe natural disasters. Over the past decade, damages and losses resulting from natural disasters in Pakistan have exceeded USD 18 billion; as the population and asset base of Pakistan increases, so does its economic exposure to natural disasters.

2. Sindh experienced major floods in 1973, 1976, 1992, 1994, 1995, 2003, 2005, 2007, 2010, 2011, 2012 and 2013. Besides riverine floods, primarily involving the River Indus, torrential flash floods have also severely impacted parts of Sindh. Floods in 2010 and 2011 were amongst the most devastating in the history of the region. Floods in 2010 displaced 7.2 million people and affected 11,992 villages. The impact on the economy of Sindh was estimated at PKR. 372 billion (USD 4.4 billion), with agriculture, livestock and housing contributing to major losses. The floods in 2011 inundated 38,347 villages, displacing 9.3 million people and human loss stood at 497 lives. The 2011 flood-affected districts constitute 86 percent of geographical area and house 54% of the total population of the province.

3. Besides floods, Sindh province faces drought in northern and south eastern region on recurring basis. The drought from 1998 - 2002 affected 1.4 million people, 5.6 million cattle head and 12.5 million acres cropped area, triggering spread of malnutrition-based diseases in the population and food scarcity in the province due to poor overall crop production.

4. On the request of the Government of Sindh, the World Bank has approved USD 100 Million project to enhance disaster and climate resilience; and to increase the technical capacity of Government entities to manage natural disasters and climate variability; construction of small dams to elevate drought impacts and support restoration of flood protection infrastructure on Indus River. The project is designated as SRP Sindh Resilience Project (SRP)-Credit 5888.

B. Project Components

5. The SRP Project area is scattered in Tharparkar, Thatta, Dadu, Karachi and Jamshoro Districts of the Sindh Province of Pakistan. SRP Infrastructure Component will be implemented in 3 years and have following main components:

COMPONENT 1: Strengthening Institutions and Systems for Disaster Risk Management.

This Component will focus on two key institutions in terms of strengthening operational systems and capacities, including the Provincial Disaster Management Agency (PDMA) Sindh and the Sindh Irrigation Department.

COMPONENT 2: Structural Investments

This component of the project is covering two sub-components i.e. structural investments through flood protection and construction of small dams to address the drought risk. The details are given in the following paragraphs below:

(i) **Flood Protection Works:** The component will support structural investments including infrastructure up-gradation and new works to increase resilience to flooding events in Sindh. This will help plug gaps in existing lines of defense through upgrading of dykes / bunds to protect communities and economically productive areas along the Indus River, as well as river training works to ensure preservation and continued operation of existing flood protection works at key sites. The Sindh Irrigation Department has identified a list of high risk sites and corresponding flood mitigation investments. The design and cost estimates of these works have been prepared by Sindh Irrigation Department. The Component will focus on these high risk sites to facilitate clustering of investments and maximizing impact.

(ii) **Construction of small dams to address drought risks:** The project will support physical investments for rainwater harvesting through the construction of small dams in the Kohistan and Nangarparkar regions that will contribute significantly to the provision of water to communities during dry periods and the recharging of underground aquifers in adjacent drought prone areas. The Sindh Irrigation Department is sufficiently advanced with preparatory activities, and has already prepared feasibility studies for most of the prospective physical investments under consideration through service of some consultants.

C. Project Management Team (PMT)

6. In order to effectively coordinate and implement SRP components, Sindh Irrigation Department has set up Project Management Team (PMT) within SID to support the day-to-day oversight of the SRP. Given the nature and extent of the project, SRP will be implemented over the next 3-5 years, covering multiple sectors including drought mitigation, flood management, irrigation, DRM activities and governance through new and/or existing projects. PMT would be responsible for overall coordination and implementation of SRP. The terms of reference of PMT include: (i) assistance and guidance to implementation staff in preparing high priority subprojects, meeting environment and safeguards and appropriate quality standards, for fast-tracking approvals, (ii) administration, and close implementation supervision of subprojects, (iii) overseeing disbursements, (iv) guidance, advice and oversight on appropriate financial management and fiduciary controls, (v) coordinate and maintain close contact with P&D and SID, at strategic and operational levels, and (vi) oversight and guidance. PMT will coordinate closely with the World Bank Task Team Leader and his team to ensure effective planning, delivery and final implementation of SRP with respect to World Bank fiduciary, environment and social safeguard requirements.

7. PMT with its office in Karachi will be headed by a Project Director. The PD shall be supported by SID existing staff¹ and individual consultants to be hired from the market.

Quality Assurance Engineer

A. Key Responsibilities and Outputs

The expert will undertake the following tasks:

- Perform all daily inspection and test of the scope and character necessary to achieve the quality of construction required in the drawings and specifications for all works under the contract.
- Carry out inspection and checking for all quality related procedures in the site and ensures activity at the site are as per approved method statement and inspection test plan.
- Coordinate with the consultant's representative and Site En-charge for inspection and meeting about quality problems including the closure of Non-Compliance Report.
- Report to the PMT regarding QA/QC, control, and monitor all activities related to Quality Management System, QMS.
- Provide trainings to PMT staff to strengthen their capabilities to ensure the quality of work executed.
- Taking care of QA/QC documents of the entire project including certificates, calibration, test results, inspection requests, non-compliance reports and site instruction/observations, permanent materials delivered and other QA/QC documents. Responsible for the closure of Non-conformance, NCR and Site Instruction.
- Responsible for the quality and workmanship of every activity, thorough knowledge of all phases of engineering construction relating to Civil and Structural discipline interfacing the multidisciplinary operations.
- Develop method statement for the activity including risk assessment and job safety environmental analysis and Inspection Test Plan and Checklist based on specifications of the project.
- Carry out Internal Audit at the site as scheduled in the Project Quality Plan, PQP.
- Liaison with PMT for submission of material submittals to Consultant.
- Proven work experience in software quality assurance and QA methodologies.

B. Qualifications and experience required

The successful candidate should at least have:

- Master Degree in Civil Engineering with minimum 10 years' experience, or Bachelor Degree in Civil Engineering with minimum 12 years' experience. Construction management and quality assurance, especially in Dams and river training works. The candidate should have demonstrated leadership role in donor / foreign funded projects.
- The candidate should have demonstrated and leadership role in foreign aided projects.
- Familiarity with the World Bank's guideline
- Ability to deal sensitively in multi-cultural environments and build effective working relations with clients and colleagues.
- Excellent inter-personal, English writing, communications and analytical skills.
- Proven interest in transferring knowledge, ability to listen and to influence without taking over.
- Ability to function effectively in multi-disciplinary teams within a matrix management environment.
- Excellent computer skills including MS Office and familiarity with modern software

C. Contract Duration

The expert is expected to commence services initially for 1 year. The assignment is likely to be extended for a period of 2 more years depending upon satisfactory performance of the outputs envisaged in the TORs.

D. Reporting Obligations

The expert will be financed by the World Bank and will report to the Project Director. The expert's performance will be reviewed on a monthly basis.

E. Outputs

The key outputs of the expert in assignment period would include:

- Should be able to setup a task and manage a diverse team of professionals.
- Should ensure that work is in compliance with within any capable law, regulations and standards.
- Must communicate ideas and give direction leaving no ambiguity.
- Should be able to apply engineering principles to develop solutions within the built environment.