

**PROJECT MANAGEMENT OFFICE, SINDH BARRAGES IMPROVEMENT PROJECT,  
SINDH IRRIGATION DEPARTMENT, GOVERNEMENT OF SINDH  
REQUEST FOR EXPRESSIONS OF INTEREST  
CONSULTING SERVICES  
FOR  
STUDY AND TECHNICAL ASSISTANCE FOR THE REHABILITATION AND  
UPGRADATION OF KOTRI BARRAGE**

**REF. NO. PK-AFOF SBIP-185186-CS-QCBS**

**Project ID** : Pakistan P162117  
**Project Name** : Sindh Barrages Improvement Project AF (Irrigation  
Component)  
**Credit No** : IDA-6242-PK  
**Implementation Agency** : Sindh Irrigation Department  
**Country** : Pakistan

The Government of Sindh, through Islamic Republic of Pakistan has received a “Credit/Financing” from the International Development Association (IDA)/World Bank (WB) for Sindh Barrages Improvement Project Additional Financing, and it intends to apply part of the proceeds of this credit for hiring of these consulting services.\

The objectives of the proposed consultancy services are to conduct diagnostics surveys, analyze structural, nonstructural, and operational issues faced by the Kotri Barrage, prepare designs for proposed and agreed interventions and also provide implementation support to the client and project partners for urgent interventions. These tasks will be carried out according to international standards.

The consultancy services will include four (04) phases as follows:

A) Inception Phase

- Visit Kotri Barrage and briefing with the Chief Engineer and operational team
- Develop methodology and work plan
- Collect documentation, past reports, and information
- Update program and budget of physical tests submitted in draft in the Technical Proposal for diagnostic of electro-mechanical equipment and civil structures (and any other need identified by the consultant).
- Finalize format and content of reports and submit Inception Report.

B) Initial Investigation Phase

- Condition assessment survey for civil structures and electro-mechanical (EM) components of the barrage, head regulators, and sub-head regulators with a focus on underwater elements of the civil structure.

- Investigate Barrage, head, and sub-head regulator instrumentation for flow measurement, structural and operational safety monitoring, etc.
- Collect data and survey sediment deposit and scouring issues upstream and downstream of the Barrage.
- Investigate the technical issues and risks (notably canal bank stability) faced for the operation of the Pinyari and New Fuleli Canals, their combined channel, and the head and sub regulators.

#### C) Analysis and Design Phase

- Assess the safety conditions of the Barrage and appurtenant structures as per international and national standards, including checking the upstream floor and downstream floor of the barrage for uplift pressure and pavement safety and making recommendations for stability.
- Develop recommendations and design reports to rehabilitate, refurbish, and improve the various components of the Barrage and allied structures, including the Old and New Fuleli Head Regulators after agreement with the project partners, specially the Kotri Barrage Region, Irrigation Department.
- Establish Designs for Upgradation of Instrumentations and Standard Operating Procedures (SoPs) for Improved and Reliable Monitoring of Canal Flows.
- Analyze and Establish options for resolving the operational issues related to the Pinyari and New Fulelli Canals, including the option of a divide wall within the combined channel.
- Undertake Risk and Dam Safety Assessment under climate change scenarios such as super floods, earthquakes, or other possible disasters.
- Analyze the oblique flow behavior of the river upstream of Kotri barrage and related silt deposition on the right side in particular through specific numerical and physical modelling, leading to proposal for centralized flow.
- Detailed analysis of flow variations throughout the Indus system and recommendations for improved reliability of inflows at Kotri.

#### D) Implementation Support Phase

- Establish Bidding Documents (including Environmental and Social Action assessment and plans) and act as project engineer for the contracting and execution of the following small works (to be financed by SBIP).
- Develop bid documents and Planning Commission Form 1 (PC-1) as well as environmental and social management plans for the following large works items (not included under SBIP financing) and provide technical support through approval of PC-I from relevant forums.
- Prepare bidding documents and environmental and social management plans and facilitate contracting for maintenance contracts to complement ongoing maintenance (when relevant, the contracts might cover all three Sindh barrages for economies of scale).
- Capacity building of Irrigation Department Staff, Barrage operations staff, BMU, and PMO-SBIP and development of procedures for Operation and Maintenance.
- Support the Sindh Irrigation Department in discussions with the Indus Rivers System Regulatory Authority (IRSA) regarding Indus flow monitoring and control.

The draft Terms of Reference (TOR) for the assignment can be found at [https://sbip.org.pk/wp-content/uploads/2024/02/Kotri\\_TA\\_TOR\\_Feb2024.pdf](https://sbip.org.pk/wp-content/uploads/2024/02/Kotri_TA_TOR_Feb2024.pdf) or can be obtained at the address given below.

The Project Management Office , Sindh Barrages Improvement Project, Sindh Irrigation Department, Government of Sindh invites eligible consultants firms with specific and proven competence and experience to indicate their interest in providing the services. Consultants are encouraged to provide only

materials that would be specific to the proposed services in the English language, and to avoid submitting generic promotional material. The short listing considerations are as under.

S#	Criterion
1	Corporate capacity: core business and years of experience in same business, with a minimum requirement of 10 years
2	Similar assignments completed in last ten years indicating the nature and scope of these assignments.  Short listing will be done taking into consideration the demonstrated experience of the applicant broadly covering the areas of engineering design and operation of large hydraulic structures and preferably including the following specific aspects: condition survey for civil and electro-mechanical equipment, bathymetric survey, sediment management, flow measurement, hydraulic modeling, maintenance, procurement and contract administration, quality assurance, environmental and social management.
3	Number and brief profile of full-time staff/employees technically qualified for this assignment

Consultants may associate with other firms to enhance their qualifications but should indicate clearly whether the association is in the form of a joint venture and or a sub-consultancy. In the case of a joint venture, all the partners in the joint venture shall be jointly and severally liable for the entire contract, if selected.

Interested consultant/firms must provide these, indicating that they are qualified to perform above services 1) Firm’s brochures and website, 2) Registration documents of Firms including quality assurance certification if available, 3) Details of general and specific experience, 4) Description of similar assignments along with values and completion certificates of these assignments, including contact details of past clients for each assignment.

The attention of interested Consultants is drawn to Section III, paragraphs, 3.14, 3.16, and 3.17 of the *World Bank’s “Procurement Regulations for IPF Borrowers” September 2023 (“Procurement Regulations”)*, setting forth the World Bank’s policy on conflict of interest.

The selection of the consultants will be made following Quality and Cost Based Selection (QCBS) method set out in the Procurement Regulations.

The authority/implementing agency reserves the right to accept or reject any or all of the REOI, or annul the REOI process at any stage whether and without incurring any liability to the affected applicant(s).

Further information can be obtained at the address below during office hours 09:00 AM to 05:00 PM from Monday to Friday. Expressions of interest must be delivered in a written form to the address below (in person, by email or by courier) by **April 01, 2024 at 1700 hrs**. For expressions sent through email, Client will acknowledge receipt within 48 hours. In absence of such acknowledgment please contact on address given below

**Postal Address:**

Ghulam Muhiuddin Mughal

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