

**GOVERNMENT OF SINDH  
SINDH IRRIGATION DEPARTMENT  
SINDH BARRAGES IMPROVEMENT PROJECT (SBIP)**

**(REQUEST FOR EXPRESSION OF INTEREST (INDIVIDUAL CONSULTANTS))**

**SENIOR ENVIRONMENTAL AND ECOLOGICAL ADVISOR**

**PK-AFOF SBIP -145940-CS-INDV**

**Dated: 06-01-2020**

The Government of Sindh is implementing World Bank financed Sindh Barrages Improvement Project. The office of Project Management Office (PMO) established within Irrigation Department, Government of Sindh is coordinating and monitoring the implementation activities of this project on day to day basis.

The services of following eligible, motivated and dynamic professional candidates are required as individual consultants (located at Karachi) from market.

<b>S. No.</b>	<b>Name of Position</b>	<b>Required Qualification and Experience</b>
1.	Senior Environmental and Ecological Advisor	<b>QUALIFICATIONS and Experience:</b> <ul style="list-style-type: none"><li>• The consultant must be Masters in Environmental Science with minimum experience of 10 years. Minimum five years of Specific Experience of working in river basin. Have experience of population census of any type of fish in the river. Remained involved in the establishment/ improvement of the fish hatchery.</li></ul>

- Selections will be selected in accordance with the procedures set out in the World Bank Procurement Regulation for IPF Borrowers Goods, Works, Non-Consulting and Consulting Service August 2018. The selection of the consultants will be made following as per Individual Consultant method.
- Job responsibilities (TORs) for subject positions are attached and have been provided on project website [www.sbip.org.pk](http://www.sbip.org.pk)
- Detailed CVs along with covering letter addressing Project Director, should reach on or before 13<sup>th</sup> **January, 2020**, before closing of office hours at **1700hrs.**

**Project Management Office (PMO)  
Sindh Barrage Improvement Project  
Irrigation Colony, Adjacent City School PAF Chapter,  
Shaheed-e-Millat Expressway, Karachi**

**Phone: 021-99330815**

**Website: [www.sbip.org.pk](http://www.sbip.org.pk)**

# **SINDH BARRAGES IMPROVEMENT PROJECT**

***IDA Financed Credit NO: 62420-Pak***

**TERMS OF REFERENCE AND SCOPE OF THE SERVICES  
INDIVIDUAL CONSULTANT**

## **TERM OF REFERENCE (TORS) AND BREIF SCOPE OF WORK FOR SENIOR ENVIRONMENTAL & ECOLOGICAL ADVISOR/EXPERT**

### **1. BACKGROUND INFORMATION;**

Government of Sindh (GoS) is undertaking Sukkur Barrage Rehabilitation and Modernization Project to enhance its useful life and to safeguard the reliable supply of irrigation water to about 3.33 million ha. Project Management Office (PMO) of Sindh Barrages Improvement Project (SBIP) has been established under Irrigation department for civil and mechanical rehabilitation of Gudu Barrage. In addition to that additional finance (AF) has been provided by World Bank for civil and mechanical rehabilitation of Sukkur Barrage.

PMO-SBIP is actively implementing and has planned various project components and activities implementation which includes; civil works for Guddu and Sukkur Barrage both. Out of all project components Component D “River Basin Water Resources and Riverine Management” is one of the crucial component and also being implemented actively as a stand-alone component. Main objective of this component is to sharpen the focus on the water-related environmental and social issues in the 170-Kilometers (KM) stretch of the Indus between Sukkur and Guddu Barrages. Component-D is proposed under AF, as a standalone component and includes activities like; (a) Dolphin Management and Conservation, (b) Community Fisheries Co-Management, (c) Sustainable Agriculture, (d) Technical Studies e.g.; Design for Fish Passage Gates and (e) Water Quality and Pollution Studies etc. This component will be implemented in collaborations with the Sindh Environmental Protection Agency (SEPA), Sindh Wildlife Department (SWD), Sindh Forest Department (SFD), Sindh Agriculture Department (SAD) and Fishery Department. The above mentioned departments of Government of Sindh (GoS) will develop and execute different sub projects under AF provided to PMO, technical support of PMO, SBIP will also be available for the sub projects.

To ensure effective implementation of Component D continuous monitoring of the implementation will be required. Additionally a number of interventions under this component are planned and may trigger World Bank’s Operational Policies related to environment, therefore preparation of Environmental and Social Management Plans (ESMPs) and Environmental Assessments (EAs) will also be required for various sub projects under this component. Therefore in this regard an Individual Consultant “Environmental & Ecological Expert” will be required by Project Management Office (PMO) to perform following tasks; (a) Monitoring Performance of Component D, (b) Preparation of ESMPs for Component D Activities and (c) Monitoring Performance Environmental Impacts Resulting from Civil Works for Guddu and Sukkur.

## **2. CONSULTANT’S SCOPE OF WORK;**

“Senior Environmental & Ecological Advisor/Expert” will be required by Project Management Office (PMO) to perform following tasks; (A) Monitoring Performance of Component D and Environmental Impacts of Civil Works for Guddu and Sukkur and (B) Preparation of ESMPs for Rehabilitation of Fish Hatchery at Sukkur Individual Consultant’s scope of work for each task will be as follows;

### **2.1. TASK (A); MONITORING PERFORMANCE OF OVERALL ENVIRONMENTAL IMPACTS OF CIVIL WORKS AT GUDDU AND SUKKUR;**

#### **2.1.1. SCOPE OF WORK;**

Under this task the consultant “Senior Environmental & Ecological Advisor/Expert” will be required to monitor the overall performance of component D interventions and environmental impacts of civil works at Guddu and Sukkur which will include but not be limited to the following;

- i. Support and strengthen PMO’s team for effective implementation of all the interventions proposed under component D, develop key monitoring indicator for monitoring the implementation progress of sub projects under component D and environmental impacts associated with civil works of Guddu and Sukkur;
- ii. Advise PMO team for preparation and planning of; various activities of component D activities, tentative targets and expected outcomes of the interventions and ensure all the targets and expected outcomes of the components are effectively implemented and in timely manner;
- iii. Advise and guide PMO team for effective implementation of all the mitigation measures already developed under the ESA document to mitigate the adverse environmental and social impacts associated with civil works of Guddu and Sukkur;
- iv. Closely monitor the progress of component D and environmental management systems/mitigations measures implementation and identify implementation bottlenecks to suggest areas of improvement for effective implementation and execution of the sub projects under component D and smooth operations with minimum environmental impact associated with civil works at Guddu and Sukkur;
- v. Guide PMO for preparation of detailed manuals, procedures and set of Term of References (TORs) for various interventions/sub projects likely to be implemented under this component, in addition to that review and finalize the related documents;
- vi. Develop training modules on the subject of environment, ecology, environmental management systems and impart trainings to PMO’s team and other organizations likely to work under component D as and when required;
- vii. Impart trainings to PMO and other organization as and when required for effective implementation of project specific ESMPs;

- viii. Conduct quarterly review meeting with PMO team regarding Component D Implementation Progress and prepare implementation progress report describing; the activities performed by consultant to monitor and strengthen effective implementation of Component D;

## **2.2. TASK (B); PREPARATION OF ESMPS FOR REHABILITATION OF FISH HATCHERY AT SUKKUR ;**

### **3. Qualifications and Experience:**

The consultant must be Masters in Environmental Science with minimum experience of 10 years. Minimum five years of Specific Experience of working in river basin. Have experience of population census of any type of fish in the river. Remained involved in the establishment/ improvement of the fish hatchery.

### **4. DELIVERABLES AND TIMELINES;**

The consultant will be required to submit following deliverables to PMO;

- i. One (01) Hard Copy and one (01) soft copy of component D activities progress and monitoring report with recommendations on quarterly basis.
- ii. The consultant will be required to support PMO for the above mentioned activities as and when required by PMO.

### **5. DURATION OF ASSIGNMENT:**

Twenty (24) days in a year will be allocated to perform the above mentioned tasks. Consultant shall provide services 12 days in field every alternate month and 12 days at home as when required.