

## **GOVERNMENT OF BALOCHISTAN**

### **BALOCHISTAN INTEGRATED WATER RESOURCE MANAGEMENT AND DEVELOPMENT PROJECT (BIWRMDP)**

#### **Terms of Reference and Scope of Services**

#### **Consulting Services – Water Resources Specialist for PMU**

##### **1. Background**

Water is scarce in Balochistan as a whole. The province often faces severe drought conditions. Water availability is drastically reduced during extended droughts which leads to high marginality in income and livelihood means. Water storage facilities are inadequate for both surface and groundwater and the poor conditions of hydraulic structures require urgent rehabilitation and regular maintenance. The lack of adequate water storage capacities and flood retention areas as well as flood protection embankments have led to high damages. Urgent efforts and investments are required for rehabilitation of hydraulic infrastructure and implementation of water conservation as well as flood protection measures.

The Government of the Islamic Republic of Pakistan, represented by the Government of Balochistan (GoB), has received a loan from The World Bank/IDA for the implementation of the Balochistan Integrated Water Resources Management & Development Project (BIWRMDP) and intends to apply part of the proceeds of the loan to cover eligible payments under exclusive contract for hiring services of a Water Resources Specialist.

The Project Development Objective (PDO) is to strengthen provincial government capacity for water resources monitoring and management, and to improve community/based water management for targeted irrigation schemes in Balochistan. Based on an Integrated Water Resources Management (IWRM) approach, six irrigation schemes located in the Nari and Porali River Basins will be rehabilitated to ensure sustainability of the natural resources use. The IWRM schemes aim to provide sustainable and diversified livelihoods, through integrating watershed management with all land use systems, including irrigated agriculture in command areas, Khushkaba farming in upstream areas and spate irrigation in downstream areas. The project is implemented by a Project Management Unit (PMU) in Quetta and two Project Implementation Units (PIUs) in Sibul and Uthal, respectively.

##### **2. Specific Tasks and Responsibilities**

The Water Resource Specialist will be responsible for the overall work planning, design, budgeting, execution and reporting of all Integrated Water Resources Management and Development activities, and work in close collaboration with the individual subject matter specialists of the PMU, PSIA and M&E Consultants, line departments and beneficiaries' representatives. Reporting to the Project Director, his/her responsibilities will include but not be limited to the following tasks:

- Assess the integrated water resources information/data available for the two targeted Nari and Porali river basins, and further identify data needs in the field of hydro-meteorology in order to support the procurement, the design, the implementation and

the operation and maintenance of an efficient and effective hydro-meteorological observation network.

- Develop work plans/schedules, implementation supervision, quality control, monitoring, verification and reporting mechanisms in collaboration with the PSIA Consultants, PMU, Contractors and other field-based staff.
- Coordinate and work closely with two PIUs, PSIA and Monitoring and Evaluation Consultants (M&E) Consultants in preparation, implementation supervision and monitoring of Water Resources (WR) Management and Development Plans under the sub- projects.
- Assist the PMU to develop a detailed framework (tasks, activities, responsibilities, and timelines) for the successful implementation of all project activities in order to achieve the Project Development Objectives.
- Provide cross sectoral support to the PMU, PSIA Consultants and other project members.
- Actively participate in workshops by providing technical support for survey, design and implementation of water infrastructure with a strong community approach; further identify risks and challenges, and plan and implement mitigation measure.
- Review and recommend updates for all technical proposals including designs, specifications, guidelines and reports in consultation with stakeholders, and assist the PMU in commissioning and managing additional and/or special studies/assessments, pre-pared by PSIA Consultants, M&E Consultants, contractors, auditors and PIUs/field teams.
- In cooperation with other PMU and PIU members, propose plans for capacity building of project staff and communities in sustainable water resources management (formal and informal training, workshops, experience sharing, counselling and mentoring).
- Undertake any other task assigned by the Project Director with regard to water resources engineering at project level.

### **3. Qualification and Experience**

- M.Sc. in Water Resources Engineering
- At least 15 years of post-MSc experience, at least 5 years of which should be in planning, management & development of water resources; a PhD in relevant fields is of advantage
- Fluency in English is mandatory; knowledge of local languages is of advantage
- Familiarity with project planning, scheduling and management techniques, flow measurements, groundwater level observations, installation and O&M of hydro-meteorological observation networks, and hydrological and hydraulic modeling techniques
- Familiarity with spate and perennial irrigation systems operated in Balochistan
- Sound understanding of IWRM principles, particular the nexus among various fields of water use and the crucial role played by an intensive consultation process with all stakeholders
- Awareness of Pakistan's national water resources development strategy
- Experience in the socio-economic development sector of Balochistan desirable

#### **4. Salary and Benefits**

Market competitive salary based on qualification and experience will be offered.

#### **5. Time Frame of Consultancy**

The services of the Consultant are expected to be rendered for a period of 60 months with full time input. However, the contract shall initially be signed for a period of 12 months, and then extended on the basis of a 12 months renewable contract.

#### **6. Selection Process**

The incumbent will be selected in accordance with the procedures set out in Section V of the World Bank Guidelines: Selection and Employment of Consultants by World Bank Borrowers [January 2011 (Revised July 2014) "Consultant Guidelines"]. The criteria developed for evaluation shall be in line with the required qualification and experience. Potential consultants are therefore advised to submit a detailed CV proving/listing the required qualification and experience stated in the preceding sections.