GOVERNMENT OF PAKISTAN

INTEGRATED FLOOD RESILIENCE AND ADAPTATION PROJECT (IFRAP)

Terms of Reference and Scope of Services

Consulting Services – MIS/Technologist/ICT Specialist- FPMU

1. Background

Balochistan has been disproportionately affected by the 2022 floods. The floods have exacerbated the socio-economic challenges in the province, pushing the multidimensional poverty rate to 81.1 percent from 70.2 percent. Agriculture, the backbone of Balochistan's economy, is the hardest-hit sector is agriculture. Agriculture makes up 52 percent of the provincial GDP and 67 percent of the labor force. The floods caused over 500,000 livestock casualties (63 percent of the national total), amounting to production losses of PKR 79,619 million. Livestock losses have negatively impacted livelihoods (70 percent of households depend on livestock for their livelihoods and income). In addition, the harvest failure due to the floods during the "Kharif" season resulted in production losses amounting to nearly US$2 billion, compromising livelihoods and food security. Since June, pre-flood flood commodity prices have significantly increased, with Balochistan reporting the country's highest food insecurity at 23.4 percent. The damage to 586 primary health facilities in Balochistan (305 fully damaged, 282 partial) has further disrupted essential health services. As a result, the province currently has the highest proportion of people (59 percent) who lack access to health facilities. In addition, a multisectoral rapid needs assessment (RNA) conducted in 515 villages across ten districts of Balochistan found that approximately 2,000 classrooms have been damaged and destroyed, the recovery of which will cost over PKR 24.4 million.

Balochistan experienced widespread damage to critical infrastructures, especially housing, transport and communications, WASH, and community-level facilities. Specifically, the floods have caused damage to more than 190,000 housing units across the province, including close to 69,000 units destroyed and more than 120,000 partially damaged. Infrastructure damage has caused the temporary isolation of most of Balochistan, with 2,222km of roads and 43 bridges damaged, impeding people's ability to access healthcare, food markets, and other vital services and restricting the delivery of aid to people who need it. Across the province, 456 flood protection/irrigation schemes were partially damaged or destroyed, including 367 water supply and 89 sanitation schemes.

Overall, the National PDNA report prepared by Ministry of Planning, Development and Special Initiatives (MoPDSI) in close coordination with all provinces indicates that Balochistan requires PKR 491 billion (US$2.3 billion) for recovery and reconstruction over the next 5 to 7 years. This estimate does not include investments to strengthen Balochistan's overall resilience to future climate shocks. The Post Disaster Needs Assessment (PDNA) and Resilient Recovery, Rehabilitation, and Reconstruction Framework (4RF) suggest that cross-sector recovery requires both short- and medium-term reconstruction and rehabilitation as well as long-term critical reforms to address resilience and to build back better. Against this backdrop, the GoP has requested the World Bank to urgently support the immediate needs of Balochistan for flood recovery and reconstruction in core socioeconomic sectors to help restore livelihoods and essential services, including housing, WASH, transport, agriculture, and irrigation, while building a foundation for long-term flood resilience through strengthening institutions and information (including hydromet

and early warning capacities) through the Integrated Flood Resilience And Adaptation Project (IFRAP). The project scope consists of five components. These are (i) community infrastructure rehabilitation; (ii) strengthening hydromet and climate services; (iii) resilient housing reconstruction and restoration; (iv) livelihoods support and watershed management; and (v) project management, technical assistance, and institutional strengthening. The project also includes a contingency emergency response component (CERC) to allow flexibility to reallocate funds in case of an eligible emergency during project implementation.

2. Specific Tasks and Responsibilities:

Under the guidance of the Project Director of the Integrated Flood Resilience and Adaptation Project (IFRAP), the MIS Specialist is tasked with a critical role in ensuring the effective design, implementation, and management of the project's Management Information Systems (MIS). This role is pivotal in enhancing data-driven decision-making and operational efficiency across all components of the IFRAP. The following delineates the expanded and refined tasks and responsibilities of the MIS Specialist:

i) System Design, Development, and Integration:

- Design and develop an MIS framework that is scalable, secure, and capable of meeting the dynamic needs of the IFRAP project.
- Ensure seamless integration of the MIS with existing project components, external partner systems, and other relevant databases to facilitate interoperability and data exchange.

ii) Advanced Data Management and Analytics:

- Develop, implement, and manage a centralized data management system that ensures the integrity, availability, and confidentiality of project-related data.
- Utilize advanced analytics to provide insightful reports and dashboards that support strategic planning, monitoring, and decision-making processes.

iii) Infrastructure and Technical Support:

- Establish a robust IT infrastructure that supports the MIS and other digital tools essential for project management.
- Provide comprehensive technical support and training to project staff, ensuring optimal use of the MIS and related technologies.

iv) Strategic Integration with Stakeholder Systems:

- Strategically enhance the MIS's capability to interface with national and international partner institutions, including government entities and the World Bank, to promote data sharing and collaboration.
- Foster relationships with external IT and data management entities to leverage their technologies and data for improved project outcomes.

v) Continuous Monitoring, Maintenance, and Upgrades:

- Implement a proactive maintenance schedule for IT and MIS, including regular updates and upgrades to software and hardware components to meet evolving project needs.
- Conduct periodic reviews of the system's performance and security posture to identify and remediate potential vulnerabilities or inefficiencies.

vi) Capacity Building and Knowledge Sharing:

- Lead initiatives to build the capacity of project staff and stakeholders in utilizing IT and MIS tools effectively, including organizing workshops, training sessions, and producing user-friendly manuals and guidelines.
- Promote a culture of continuous learning and improvement within the project team regarding IT and MIS best practices.

vii) Responsive Technical Support and Collaboration:

- Offer responsive IT and MIS support, addressing technical issues swiftly to minimize downtime and support project continuity.
- Collaborate closely with all project components, providing technical expertise to enhance project delivery and outcomes.

viii) Innovation and Adaptation:

- Explore and incorporate innovative MIS technologies and practices that can enhance project efficiency, transparency, and impact.
- Adapt MIS strategies to align with changing project priorities, technological advancements, and stakeholder needs.

ix) Any Other Task Assigned by the Project Director:

3. Be prepared to undertake additional responsibilities or tasks as deemed necessary by the Project Director to support the evolving needs of the IFRAP.

4. Consultant Qualification and Experience

- Bachelor's or Master degree (minimum sixteen years of education) in computer sciences / MIS / Business Administration (specialization in IT) or with a major in a relevant discipline. MIS or GIS related qualifications/certifications or any specialization required for the project, will be accorded due weightage.
- Minimum seven (07) years' experience in IT field, after acquiring stipulated qualification, at the national level or with International Organizations.
- Excellent technical and conceptual knowledge about MIS. Proven experience in successful IT system and network development and operation.
- Experience in network and database troubleshooting.
- Good understanding of government functioning and protocols as evidenced in the experience of the candidate.
- Ability to work collaboratively in a team environment with aggressive deadlines.
- Strong communication skills, both oral and written

5. Time frame of Consultancy & Location of Assignment.

The services of the Consultant will require full time for the project life. However, Contract continuity will be based on the satisfactory performance of the consultant, The consultant to be based in Islamabad.

6. Selection Process:

Consultants will be selected in accordance with the procedures set out in "The World Bank Procurement Regulations for IPF Borrowers", November 2020