

## **Terms of Reference (TORs)**

### **Risk Assessment Expert Sindh Resilience Project (PDMA Component) Provincial Disaster Management Authority (PDMA)**

#### **Introduction**

The geographic location and climatic conditions of the Province of Sindh render it vulnerable to various natural disaster incidents. These include floods (urban, riverine and flash floods), cyclones, earthquakes, heat waves, droughts, wind storms, tsunamis and sea intrusion. In addition, the geography, topography, nature of economy, rapid urbanization and high population levels exacerbate Sindh's vulnerability to natural disasters. Massive damages and losses could have been largely averted or reduced if disaster risk management (DRM) approaches had been enacted by the Government and disaster risk reduction (DRR) measures had been integrated into physical, social and economic development.

Since the late 1990s, there has been increasing recognition of the need to focus on disaster risk reduction and capacitating Disaster Management Authorities by both government and development partners. Pakistan has a comprehensive National Disaster Management Plan (2013-2022) that places capacity building of DMAs high on the agenda. With the financial support from the World Bank, PDMA Sindh is implementing a five years project, titled "Sindh Resilience Project". The project aims to strengthen Government of Sindh's capacity to manage risks from natural disasters and climate change, and to improve resilience of communities and economic assets in the province to flood and drought events.

As part of the Sindh Resilience Project, PDMA Sindh intends to undertake Multi Hazards Vulnerability Risk Assessments (MHVRAs) in Sindh province. MHVRA exercise will provide solid foundation for outlining DRR interventions, mainstreaming DRR and safer land use planning. The exercise includes gathering and analyzing of hazard information and development of future scenarios based on frequency, magnitude and spatial extent of likely events. Services of a qualified technical firm shall be hired to undertake this exercise under the overall supervision and guidance of SRP (PDMA).

#### **Role of Risk Assessment Expert**

SRP(PDMA) is seeking the services of a qualified and experienced Risk Assessment Expert to provide strategic oversight and quality control for the MHVRA exercise as part of Sindh Resilience Project.

#### **Scope of Work**

- 1) Under the overall supervision of the Project Director, lead the implementation of MHVRA exercise under Sindh Resilience Project.
- 2) Develop and finalize a robust MHVRA methodology aligned with national and international best practices. Including identification of viable models to quantify the risks and impacts of hazards on the community, talukas and districts level.

- 3) Provide strategic oversight, coordination and quality control for the MHVRA exercise being conducted by hired technical firm.
- 4) Provide professional support/coordination in pertinent mapping, surveys reports, collection in primary/ secondary data/ documents, methodology, process work plans, and information.
- 5) Provide in-house expertise for PDMA Sindh for integrating results of MHVRAs across its operations.
- 6) Lead absorption and integration of MHVRA capacities within PDMA Sindh during the assignment.
- 7) Organize workshops and trainings sessions on MHVRAs for staff and relevant stakeholders.
- 8) Participate periodical performance review and others meetings as per the requirement,

### **Qualification and Experience**

- a) M.S. degree (minimum sixteen years of education) desirable from a recognized and reputable university in Climate Change/ Environmental Sciences, Disaster Risk Management, GIS/ RS, Geology, Geography. Specialization in risk assessment shall be accorded due weightage
- b) Minimum 10 years, post qualification, documentary verifiable experience in DRR and risk assessment including design, execution and management of multi hazard and vulnerability assessments at national and regional level.
- c) Having hands-on experience of GIS software and tools for composite risk assessment, Participatory Risk Assessment Methodologies, Scientific Data Collection Tools shall be accorded due weightage

### **Compensation**

- Market competitive salary (lump-sum with no other benefits) based on qualification and experience will be offered.

### ***Selection Method:***

An individual will be selected in accordance with process stipulated in Section V of "Selection and Employment of *Consultants under IBRD Loans and IDA Credits & Grants by World Bank Borrowers (January 2011)* (Revised July 2014).