

**Terms of Reference**  
**Environmental and Social Management Plan (ESMP)**  
**for Sindh Resilience Project -PDMA Sindh Component [P-155350]**

**A- Background**

The Provincial Disaster Management Authority (PDMA) Sindh, Govt. of Sindh, has received credit from World Bank for “Sindh Resilience Project” for four years tenure. The SRP aims that the PDMA Sindh, DDMA, line depts. and the communities be resilient and strengthened to manage natural and human-induced hazards and disasters proactively in all phases of disaster that includes but not limited to; Pre-disaster (*Mitigation, Preparedness*), during the disaster (*Rescue, Response, Relief*) and Post-disaster (*Recovery, Rehabilitation and Re-construction*).

**B- Project Overview**

The Sindh province is prone to natural hazards specifically the hydrometeorological hazards due to geographical setting of the Province. Many factors contribute in aggravation of hydrometeorological hazards, some of which are natural and some manmade. Settled areas are protected from riverine floods by network of embankments. Embankments run along the river Indus. FP Bund protect cities and towns of Dadu and Jamshoro districts. Same measures are enforced in Kashmore and Jacobabad for protection from torrential flows of Suleman Range. However, at times settled areas are flooded due to breaches in flood protective infrastructure as it happened at Tori and Kot Almo during 2020 flood. Frequency and intensity of such hydrometeorological hazards is increased. Monsoon 2020 is an example; a record rain lashed the Karachi city and other districts of the province specially Dadu, Jamshoro, Badin, Mirpurkhas, Umerkot, Sanghar, Sujawal and Shaheed Benazirabad. COVID-19 also brought new challenges to the province which demand enhanced capacity of the province to manage such disease outbreaks.

Hence in wake of existing disaster risks and future risk scenarios emanating from climate change, Sindh Resilience Project (SRP) – PDMA Component is envisioned to mitigate flood and drought risks in selected areas and strengthen Sindh’s capacity to manage natural disasters and public health emergencies.

Major components and subcomponents of the project area;

Component 1 – Strengthening Disaster and Public Health Emergency Management

Subcomponent 1.1 – Strengthening the Resilience of Health System

Subcomponent 1.2 – Establishing Sindh Emergency Service

Subcomponent 1.3 – Project Implementation Support and Technical Assistant to PDMA Sindh

Besides, various other activities, disaster and health emergency services are being established in the province in order strengthen disaster and emergency response of the Province. In initial phase, rescue stations at divisional headquarter cities are planned to be established. Cities include Karachi, Hyderabad, Mirpurkhas, Shaheed Benazirabad, Sukkur and Larkano. The rescue stations are planned to be housed / built within premises of existing facilities of PDMA Sindh in these cities.

## **C- Subprojects Overview**

For establishment of divisional level rescue stations, available land / facilities of PDMA Sindh is planned to be utilized at Jamshoro, Sukkur and Maripur Karachi. Expansion is required to accommodate office and residential complex for rescue stations, storage for machinery and equipment, shades for parking of rescue machinery and vehicles. Exact location of facilities, master plan and tentative layout plan / user requirement for rescue stations shall be shared with selected firm / individual consultant. In addition to rescue station at Maripur Karachi, Humanitarian Response Facility is also planned to accommodate shades for warehouse storage, cold storage and offices for staff at HRF.

## **D- Objective of the Assignment**

The objective of the engagement is to develop Environmental and Social Management Plan (ESMP) for

### **a) Expansion of Existing facilities for Rescue Stations at Jamshoro, Sukkur & Maripur**

### **b) Expansion of Humanitarian Response Facility (HRF) at: Maripur, Karachi**

The ESMP needs to be developed as per the recommendations and guidelines of World Bank, provided in the Environmental and Social Management Framework (ESMF) of Sindh Resilience Project.

## **E- Scope of Work**

The Consultant is required to prepare ESMP highlighting a set of mitigation, monitoring, and institutional measures to be taken during implementation and operation to eliminate or reduce adverse environmental and social impacts to acceptable levels. The plan will also include the actions needed to implement these measures. To prepare a management plan, the Consultant will identify (a) identify the set of responses to potentially adverse impacts; (b) determine requirements for ensuring that those responses are made effectively and in a timely manner; and (c) describe the means for meeting those requirements.

An ESMP usually includes the following components:

- **Description of Adverse Effects:** The anticipated effects are identified and summarized.
- **Description of Mitigation Measures:** Each measure is described with reference to the effect(s) it is intended to deal with. As needed, detailed plans, designs, equipment descriptions, and operating procedures are described.
- **Description of Monitoring Program:** Monitoring provides information on the occurrence of environmental effects. It helps identify how well mitigation measures are working, and where better mitigation may be needed. The monitoring program should identify what

information will be collected, how, where and how often. It should also indicate at what level of effect there will be a need for further mitigation.

- **Responsibilities:** The people, groups, or organizations that will carry out the mitigation and monitoring activities are defined, as well as to whom they report and are responsible. There may be a need to train people to carry out these responsibilities, and to provide them with equipment and supplies.
- **Implementation Schedule:** The timing, frequency and duration of mitigation measures and monitoring are specified in an implementation schedule, and linked to the overall subproject schedule.
- **Cost estimates and sources of funds:** These are specified for the initial subproject investment and for the mitigation and monitoring activities as a subproject is implemented. Funds to implement the EMP may come from the subproject grant, from the community, or both. Government agencies and NGOs may be able to assist with monitoring.

A single ESMP will be prepared for both components.

Please note that the methods for monitoring the implementation of mitigation measures or environmental effects should be as simple as possible. Further guidance on preparation of ESMP can also be provided, if required. **The ESMP will be required to be reviewed and cleared by the World Bank.**

## **F- Deliverables and Proposed/Indicative Structure of ESMP Report**

The proposed structure of the ESMP report is as follows:

- **Executive Summary:** This should provide a general summary of the ESMP contents and key findings, in a vocabulary that is easily understood by the general public. It should be clear, concise ranging from 3 to 5 pages;
- **Introduction:** An introduction describing the ESMP purpose, objectives, principles and methodology. This section should introduce the project proponents, the study team, and provide other relevant information. The layout of ESMP should also be described to facilitate its use;
- **Sub-Project Description:** A description of the subproject which will include background, purpose and different components. Describe and lay out a map clearly indicating Area of Influence of project activities. Also indicate any subproject specific resource requirements such as material, manpower, equipment, etc.
- **Environmental Baseline of Subproject Area:** This section gives site specific overview of baseline covering physical and biological environment. It will include ambient air quality, noise, temperatures, rainfall, etc. Including air, noise and water quality baseline tests from EPA certified laboratory.
- **Socio-Economic Profile of Subproject Area:** This section describes socio-economic profile of the subproject area. It will cover community structure, planned development activities, population, occupation and livelihoods, methods of communication and transport, cultural heritage sites, etc.

- **Stakeholder consultation and Information Disclosure:** This section will describe the objective, process, and outcome of the stakeholder consultations carried out during the ESMP preparation. This section should also list arrangements for disclosing subprojects information in order to comply with the Bank's Policy of Disclosure of Information.
- **Impacts and Mitigation:** This section will identify all positive as well as negative environmental and social impacts with cost effective and feasible measures to reduce adverse environmental impact to acceptable level. It will describe with technical details mitigation measures including the type of impact to which it relates to. It will also describe methodology for social impacts
- **Environmental Management and Monitoring Plan:** This section will provide specific description and technical details of monitoring measures including the parameters to be measured, methods to be used, sampling locations, frequency of measurements, detection limits (where appropriate), and definition of thresholds that will signal the need for corrective actions. The monitoring and reporting procedures will ensure early detection of conditions that necessitate particular mitigation measures, and furnish information on the progress and results of mitigation. The Plan will also include COVID-19 measures to be taken into account during construction and operation phase of the project. The mitigation measures and should be quantitative to be included in the bidding document of the contractor.
- **ESMP Implementation Budget:** An ESMP implementation budget estimates are provided here. The budget will include funds for staff, institutions development activities, training programs for implementation teams and local/national institutions, technical assistance to authorities, costs for implementation of ESMP and other safeguard documents; and
- **Annexures:** Technical annexes to support ESMP implementation that may include monitoring checklists, stakeholder consultation details, laboratory tests conducted, photographs of consultations and field survey and another supplementary information.

## **G- Qualifications and Skills Required**

The Consultant/Framework team must have relevant qualification in environmental sciences/engineering or related discipline, and have 8 years of experience to demonstrate required expertise to prepare IEE/ESMPs/ESIAs required to fully appreciate the requirements of *all* the Safeguards Policies to be addressed in the ESMP, and to complete *all* required sections of the ESMP. The Consultant team should include appropriate number of specialists from different disciplines including but not limited to environmental sciences and social sciences. The team should have complete understanding of the national legislative requirements as well as WB safeguard policies.

## **H- Time Schedule**

The assignment is expected to be completed within four weeks after the award of the contract.

**I- Selection Method**

Consultants will be selected in accordance with the Consultant's Qualification Based Selection (CQS) method as stipulated in World Bank Procurement Regulations (July 2016) revised November 2017 & August 2018