

SINDH RESILIENCE PROJECT (IRRIGATION COMPONENT)

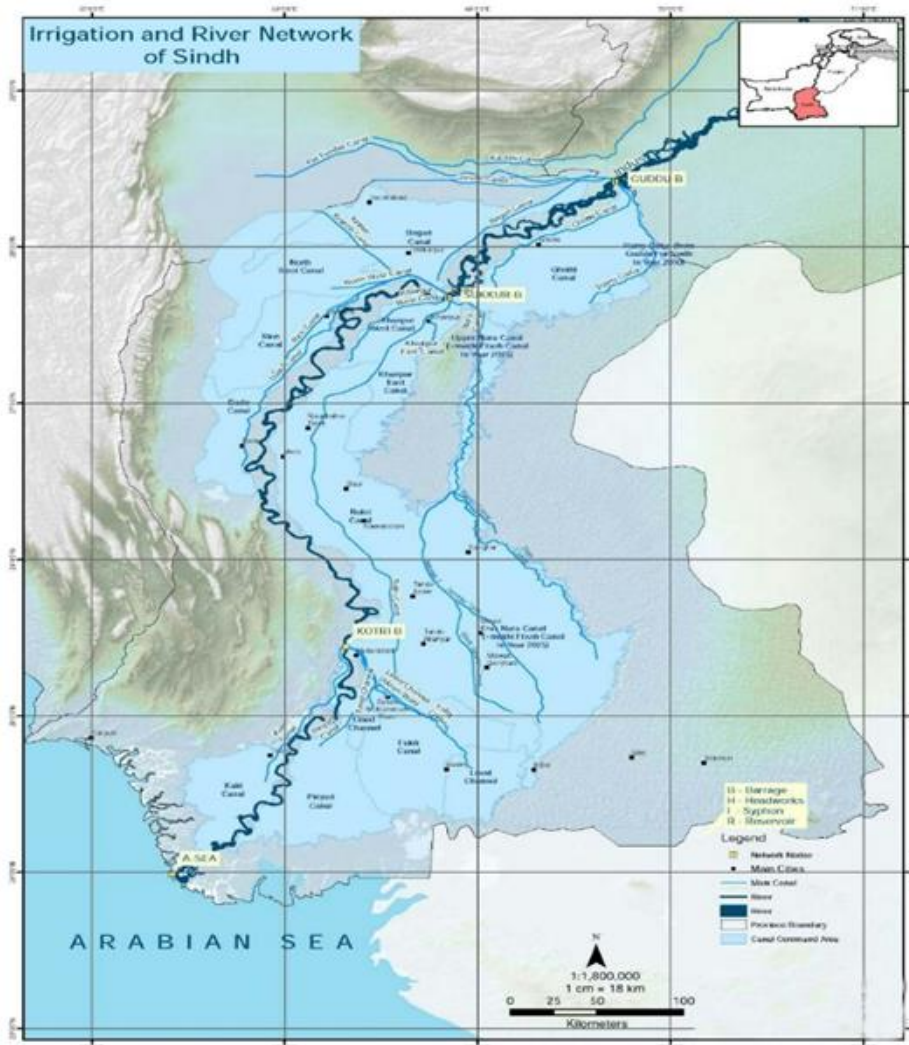
River Morphological Study, Flood Hazard Mapping and Establishment of Decision Support System for Sindh Province

Information Session
5 July 2018



- Date of Publication of EOI: 25 June 2018
- Deadline for submission of EOI: 31 July 2018
- Executing Agency: Sindh Irrigation Department (SID), Government of Sindh
- Funded by: The World Bank
- Duration of Consultancy: 18 Months

SINDH RESILIENCE PROJECT



OVERALL GOAL:

Strengthen Irrigation Department to handle flood situations efficiently, meaningful preparedness before each flood season, reliable flood hazard and vulnerability assessments, and manage uninterrupted extreme drought conditions through the development of tools to improve understanding of risks and eventually support rapid response .

Terms of Reference

For River Morphological Study, Flood Hazard Mapping and Establishment of Decision Support System for Sindh Province

Objectives

- To study and document geometry, bed form and profile characteristics of the Indus basin of Sindh together with their hydrologic and hydraulic characteristics, and floodplain characteristics, and to identify areas/stretches where the stream flow is likely to have adverse physical, social and economic impact from changing river morphology, particularly during high discharge caused by occasional events such as flood from heavy rainfall, and sudden discharge from upstream reservoirs
- To rapidly implement a collaborative geospatial platform; integrate real-time and baseline data into the platform; and deploy applications on the platform to handle flood situations efficiently, meaningful preparedness before each flood season and reliable flood damage assessments and decision makers involved in disaster management in the province of Sindh.

Scope of Work

Task 1: River Morphology Study

- Field Survey of River Hydraulic and Development of Digital Elevation Models

Task 2: Flood Hazard Mapping

- Review and Analysis of Hydrologic and Satellite Remote Sensing Data and Development of Hydrological and Models
- Building a Hydraulic Models (1 dimensional and 2-dimensional)
- Development of Models for Embankment Breaching Sections

Task 3: Establishment of Decision Support System

- Web based DSS with GIS supported Database Platform

Task 4: Capacity Building

Selection Criteria

Based on the EOI submitted by the forms, Scoring system given in the EOI notice

Short listed firms will be issued with the RFP

RFP will provide the detailed TOR

Technical proposals will be evaluated based on several criteria and scores to be given in the RFP

QCBS will be followed for final selection.

World Bank's Guidelines: Selection and Employment of Consultants [under IBRD Loans and IDA Credits & Grants] by World Bank Borrowers, January 2011 (revised July 2014).



PROJECT DIRECTOR
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Sindh Resilience Project
Irrigation Component