

**TA-9573 IND: West Bengal Drinking Water Sector Improvement Project - International Water Resource Expert cum Team Leader (49107-006)**

Date Published: **20-Dec-2022**    Deadline of Submitting EOI: **27-Dec-2022 11:59 PM Manila local time**

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**EXTENSION**

**Profile**    **Terms of Reference**    **Cost Estimate**

**Terms of Reference (Individual Consultant)**

Expertise Group    **Water Resource Engineering**    Consultant Source TOR Keywords    **International Water Resource**

**Objective and Purpose of the Assignment**

ADB is supporting the Government of West Bengal, Public Health Engineering Department, in implementing the West Bengal Drinking Water Sector Improvement Project (WBDWSIP). The project will provide safe and sustainable drinking water as per the standards set by the Government of India to over 1.65 million people in the arsenic, fluoride, and salinity- affected selected areas of Bankura, North 24 Parganas and Purba Medinipur districts of West Bengal (project districts). It will introduce an innovative and sustainable institutional framework and advanced technology for smart water management to enable efficient service delivery in project districts.

Under a grant from the Urban Climate Change Resilience Trust Fund under the Urban Financing Partnership Facility, technical assistance was provided by ADB from March 2019 to November 2022 in strengthening smart water management and climate and disaster resilience in selected districts of West Bengal. During the project it was found that salinity ingress from the Bay of Bengal into ground water and surface water resources are one important climate change impact which will pose a threat to future access to freshwater resources. This is critical for a wide range of sectors besides from the water supply sector depending on water resources, such as agriculture, fishery, shipping. A salinity action plan was therefore drafted.

The proposed extension of the Technical Assistance will support development of a proposal to the Government of West Bengal for establishing an Integrated Coastal Area and River Basin Management framework with participation from various departments, a proposal for monitoring and modelling center under such framework, and project preparation of a suite of mitigation measures to reduce impact of salinity ingress. The project's tentative outcome will be enhanced climate change and disaster resilience against salinity ingress along the coastline of West Bengal.

**Scope of Work**

The preparation of an Integrated Coastal Area and River Basin Management (ICARM) plan aims not only to solve salinity ingress issues but also related river basin and coastal area issues which mutually influences the suitability and feasibility of mitigation measures. Careful preparation with engagement and involvement of relevant stakeholders across departments and sectors, is therefore essential. The ICARM should solve the salinity ingress issues for Public Health Engineering Department, as well as other issues in other departments in a holistic and integrated manner which overall secures enhanced climate change and disaster resilience in exposed coastal regions. This must be reflected in the Terms of Reference and Proposal preparation to the Government of West Bengal. The project should set an example of how to establish ICARMS in similar regions.

The assignment is for an international water resource and coastal process specialist cum team leader to assist the Public Health Engineering Department (PHED) in taking the initial lead in developing the concept of ICARM, in incorporating the interests and concerns of other related departments, and in preparing a proposal from PHED to the Government of West Bengal for establishing ICARM and related subprojects.

**Detailed Tasks and/or Expected Output**

expert is expected to (i) Review and refine the first draft ICARM description prepared by the TA Consultants Firm (ii) Collect feedback from departments and incorporate their comments in an update by integrating multiple focus on surface water, groundwater and water supply networks (iii) Facilitate establishment of a taskforce between key department from January to May 2023 hosted by and lead by PHED for preparation of proposal (iv) Coordinate meetings and proposal preparation within the taskforce, with completion of proposal and terms of reference for ICARM including subprojects (monitoring and modelling center, salinity ingress mitigation projects such as nature-based solutions of freshwater storages) (v) Lead the team activities provided by national experts associated with this assignment

**Minimum Qualification Requirements**

The individual consultant will have 20 years of general civil engineer experience or similar (MSc), and

15 years of specific experience in water resource management and integrated coastal zone management in multi-disciplinary projects including stakeholder engagement and involvement. Regional or country experience is required which should include team leader experience in similar projects in India with support from development banks.

Minimum General Experience **20 Years**  
 Minimum Specific Experience (relevant to assignment) **15 Years**  
 Regional/Country Experience  Required  Desired  Not Required

**Deliverables**

Details	Name	Type	Estimated Submission Date
<a href="#">+ Show</a>	Inception Report	Report	16-Jan-2023
<a href="#">+ Show</a>	Interim Report	Report	15-Mar-2023
<a href="#">+ Show</a>	Final Report	Final Report	15-May-2023

**Schedule and Places of Assignment (chronological and inclusive of travel)**

Schedule Type  Continuous  Intermittent  
 Max. Working Days/Week Home Office **5** Field **6**

City and Country	Working Days	Estimated Start Date	Estimated End Date	Other Details (use if place selected is Others)
Home Office, Other	10	02-Jan-2023	31-Jan-2023	
Kolkata, India	10	01-Feb-2023	28-Feb-2023	
Home Office, Other	8	01-Mar-2023	31-Mar-2023	
Kolkata, India	10	01-Apr-2023	30-Apr-2023	
Home Office, Other	6	01-May-2023	30-May-2023	
<b>Total</b>	<b>44</b>			

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