

TA-9738 IND: Strengthening Capacity to Design and Implement Water and Rural Infrastructure Facility - Climate Adaptative Community-based Water Harvesting Project - Watershed / Irrigation Specialist (53145-001)

Date Published: **20-Jan-2023** Deadline of Submitting EO: **26-Jan-2023 11:59 PM Manila local time**

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Terms of Reference (Individual Consultant)

Expertise **Watershed/Irrigation Specialist**
Expertise Group **Agriculture/Rural Development**

Consultant Source **International**
TOR Keywords **agriculture, India, irrigation, watershed, irrigation planning**

Objective and Purpose of the Assignment

The consultancy assignment is to provide support to develop the Climate Adaptative Community-based Water Harvesting Project in Meghalaya which includes visiting project areas, reviewing available feasibility and design information, advising on technical matters, drafting a summary project report and terms of reference for project implementation consultants, supporting the Mission Leader with preparing loan documents and guiding the government on ADB requirements.

Scope of Work

India receives most of its rainfall during the monsoon from July to September (75%–80%). Increasing demand for water, limited storage facilities and increasingly variable precipitation due to climate change has led to several Indian states (including North-Eastern states) experiencing water scarcity during the dry season. The Meghalaya government is seeking technical and financial support to improve water security by promoting the construction of small water harvesting systems. In first phase of the investment program, almost 1000 numbers of sub-projects shall be constructed spread across 12 districts in the state.

The Asian Development Bank is supporting the Government of Meghalaya in preparing Climate Adaptative Community-based Water Harvesting Project. The proposed project scope will: (i) build climate resilient water harvesting systems (WHS) through community demand driven participatory approach to ensure universal access to water for enhancing sustainable and efficient water-based livelihood opportunities for the rural areas, and enhance resilience to climate change impacts and acute water shortage during non-rainy season; and (ii) establish institutional mechanisms for community ownership and integrated management of water resources in line with Meghalaya State Water Policy.

Consultant services are solicited for loan document preparation comprising of feasibility reports, detailed project reports, specifications, cost estimates, summary documents for main technical report by incorporating climate change adaptation and mitigation measures as per ADB procedure.

Detailed Tasks and/or Expected Output

(i) Participate in ADB mission to visit project areas, review available information, and discuss the proposed investment project with relevant government agencies and key stakeholders.

(ii) Review the project concept and consult with key stakeholders and relevant government agencies, and highlight any potential issues, constraints and opportunities related to the sub-projects.

(iii) Support the preparation of the investment projects rationale, scope, financing plan, and implementation arrangements.

(iii) Provide guidance to the Governments (and its' consultants and experts) on drafting of feasibility reports, detailed project reports (DPRs), design and cost estimates, operation and maintenance costs, guide department in using standard and uniform templates for detailed designs and drawings for both tendering purposes and construction works by the contractors (for both small and large works, as per the sizes of the sub-projects) and prepare a summary technical document to be included as a linked document to the RRP.

(iv) review the governments' institutional set up supporting the State Water Policy and provide recommendations on how the project can support operationalization of the State Water Policy.

(v) review and provide guidance to the government to develop water harvesting system master plan based on watershed concepts. The master plan is being developed by Meghalaya government with technical inputs given by North East Space Application Center (NESAC) and other contributing departments in state

government.

(vi) provide guidance in the creation and functioning of water user associations (WUAs)/ Watershed Management Committees within project area for taking over the responsibility of operation and maintenance after the construction of sub-projects, and provide recommendations for its sustainability.

(vi) Support preparation of draft terms of reference and detailed cost estimate for the project implementation consultants.

(vii) Provide inputs to the project administration manual, review project cost estimate, EIRR of sub-projects, etc.

(viii) Assist the Mission Leader: (a) during missions; (b) preparing aide memoires; and (c) with other related tasks and document preparation, as necessary from time to time.

Minimum Qualification Requirements

At least a post-graduate qualification in agriculture, irrigation and water resources. At least 15 years of applicable experience including: (i) preparing, planning, designing and implementing irrigation projects preferably under ADB-financed projects; (ii) improving water use efficiency and modernizing irrigation schemes; and (iii) working on ADB and other development agency supported projects.

Minimum General Experience **10 Years**
Minimum Specific Experience (relevant to assignment) **7 Years**
Regional/Country Experience **Required** **Desired** **Not Required**

Deliverables

Details	Name	Type	Estimated Submission Date
+ Show	Draft Summary Technical Document	Others	06-Mar-2023
+ Show	Project Administration Manual Input	Others	30-Mar-2023
+ Show	Draft Final Report	Report	01-Aug-2023
+ Show	Final Report	Final Report	31-Aug-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	14	30-Jan-2023	09-Apr-2023	
Shillong, India	8	10-Apr-2023	21-Apr-2023	
Home Office, Other	14	22-Apr-2023	31-Aug-2023	
Total	36			

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