

**TA-9738 IND: Strengthening Capacity to Design and Implement Water and Rural Infrastructure Facility - Hydrogeologist for SIMP-Phase 2 (53145-001)**

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**Terms of Reference (Individual Consultant)**

Expertise **hydrogeologist**  
Expertise Group **Agriculture/Rural Development**

Consultant Source **National**  
TOR Keywords **hydrogeologist**

**Objective and Purpose of the Assignment**

The Support for Irrigation Modernization Program–Phase 2 Consultants team (consultants) will: (i) prepare irrigation modernization plans (IMPs) for at least four major and medium irrigation (MMI) schemes (subprojects) in four states (Haryana, Karnataka, Maharashtra, and Rajasthan); and (ii) initiate knowledge and awareness programs and study tours activities. The consultants will comprise a mix of 2 international and 8 national experts. Subject to time and resources, the consultants may also be asked to (i) include an additional two subprojects (Purna, and Chambal); and (ii) undertake additional studies on the state’s water resources and irrigation sector, as requested by ADB and in consultation with the Central Water Commission (CWC), Department of Water Resources (DoWR), and the participating state governments.

The consultants will coordinate with and use the information and data provided by the Central Irrigation Modernization Office (CIMO) and the State Irrigation Modernization Units (SIMUs). Extensive consultation is needed to ensure full ownership of the processes and outputs by both CWC, DoWR River Development and Ganga Rejuvenation (RD&GR) and the participating state governments. The key studies required in the preparation of the modernization plan and the flow chart for the process are provided in the attached Annex 1 and the SIMP Phase 1 final reports are available on request to ADB. Detailed explanations of the work required for each of these studies are provided in SIMP Phase 1 Final Report, Volume II Section 2I – studies, investigations, and schedule for the first batch of irrigation modernization plans. The consultants are to review the guidance material and advise on recommended adjustments, as needed, to meet the requirements of this assignment and the states’ objectives for the subprojects.

**Scope of Work**

The Hydrogeologist will be responsible for assessing the current and likely future status of the groundwater resource within the irrigation command area. The assessment will include identifying and quantifying the current uses and users of groundwater and the current and likely future impacts of this use on groundwater, together with measures to address the situation where abstraction levels exceed recharge.

**Detailed Tasks and/or Expected Output**

1. Carry out technical studies and analysis related to current and likely future status of the groundwater resource within the irrigation command area for each subproject.
2. Based on the technical studies and analysis identify and quantify the current uses and users of groundwater and the current and likely future impacts of this use on groundwater, together with measures to address the situation where abstraction levels exceed recharge.
3. Based on above, prepare proposals for improved groundwater development and management including for its conjunctive use and sustainable recharge for each subproject to respective participating state SIMU/WRD and CIMO for review and comment.
4. Finalize improved groundwater development and management plans including for its conjunctive use and sustainable recharge for each subproject based on review and comments received from the respective participating state SIMU/WRD and CIMO.
5. Contribute to planning and conducting with CIMO/SIMU, a workshop on each draft IMP with respective participating state SIMU and a workshop on draft final TA outputs with CIMO/SIMU.
6. Design and conduct a training program on sustainable groundwater management and promotion of conjunctive irrigation for CIMO/SIMU staff and WRD staff of other interested states.
7. Support the Team Leader in liaising with CIMO/CWC, SIMU/state WRD and ADB on implementation of the TA activities and in preparing and submitting Inception, Interim progress and final reports.
8. Contribute in specialist areas to the preparation of guidelines/manual for MMI modernization under SIMP to be published as a CWC Technical Note.

**Minimum Qualification Requirements**

The specialist will have post-graduate degree in hydrogeology or similar with at least 10 years of experience in groundwater assessment and management.

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

**Deliverables**

Details	Name	Type	Estimated Submission Date
<a href="#">+ Show</a>	Inception Report	Report	09-Dec-2022
<a href="#">+ Show</a>	IMP for first subproject	Others	09-Jun-2023
<a href="#">+ Show</a>	Prepare draft loan documents and due diligence for Phase 3 financing	Others	09-Jun-2023
<a href="#">+ Show</a>	IMP for second subproject	Report	09-Jul-2023
<a href="#">+ Show</a>	IMP for third subproject	Others	09-Aug-2023
<a href="#">+ Show</a>	IMP for fourth subproject	Others	09-Sep-2023
<a href="#">+ Show</a>	knowledge program	Others	09-Sep-2023
<a href="#">+ Show</a>	training needs assessment for Phases 3 and 4	Others	09-Oct-2023
<a href="#">+ Show</a>	PPRs for Phase 3 subprojects	Others	09-Dec-2023
<a href="#">+ Show</a>	PPhase 2 draft final report	Report	09-Jan-2024
<a href="#">+ Show</a>	draft loan documents and due diligence for Phase 4 financing	Others	09-Feb-2024
<a href="#">+ Show</a>	Phase 2 final report	Final Report	09-Apr-2024

**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	10-Oct-2022	31-Oct-2022	TBD
Other City, India	22	01-Nov-2022	25-Nov-2022	Maharashtra/Karnataka/Haryana/Rajasthan
Home Office, Other	122	26-Nov-2022	09-Apr-2024	TBD
<b>Total</b>	<b>154</b>			

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