

TA-9738 IND: Strengthening Capacity to Design and Implement Water and Rural Infrastructure Facility - HDTLCP Climate Change and Environment Specialist (53145-001)

Date Published: **03-Dec-2022** Deadline of Submitting EOI: **12-Dec-2022 11:59 PM Manila local time**

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Terms of Reference (Individual Consultant)

Expertise **Climate Change and Environment**

Consultant Source TOR Keywords

National Climate Change and Environment , Eco Tourism

Expertise Group **Biological Sciences & Ecology**

Objective and Purpose of the Assignment

ADB is supporting the Government of Uttarakhand with the Holistic Development of Tehri Lake & its Catchment Project (PPR ID 11606). The project seeks loan assistances from two multilateral development banks, namely the New Development Bank (NDB, \$75.7 million) and ADB (\$127.3 million). The components posed to ADB in 2022 focus on integrated tourism cluster development around Tehri Lake. Tourism in India is growing rapidly contributing 9.2% of India's gross domestic product and supported 8.1% of its total employment before the COVID-19 pandemic. International and domestic travel is expected to recover from the pandemic decline, tourism development has a great importance to sustain local economy and livelihoods. Tehri Lake was created after construction of the Tehri Dam was completed in 2006. Chief Minister of Uttarakhand announced development of Tehri Lake Region as a new international tourist destination in 2011, and the Uttarakhand Tourism Development Board (UTDB) prepared the Perspective Plan for Tehri Lake Area in 2016. The proposed project will support comprehensive and sustainable development of Tehri Lake and its catchment area comprising 156 villages and a 60,000 population.

The project's tentative outcome will be tourism attractiveness and environmental conditions in Tehri Lake and its catchment area improved. Expected tentative outputs of the projects are:

- (i) Infrastructure and institutional capacity for sustainable tourism development enhanced. This output will create six thematic tourism clusters around Tehri Lake.
- (ii) Environmental sustainability and climate change adaptation of Tehri Lake catchment area enhanced. This output will mitigate increased footprint from tourism, economic, and residential activities and will enhance reduce vulnerability of the residents and visitors.
- (iii) Livelihood and cultural value enhanced and demonstrated. This output will enhance livelihood of residents , especially women and other vulnerable population, who lost their main source of livelihood from the dam construction.

ADB fielded a consultation mission during 19–23 September 2022 to discuss the project processing requirements and milestones with the UTDB. The results of the discussions were recorded as aide memoire (to be shared with selected consultants). In the mission, it was agreed that ADB will engage a team of the following consultants to conduct upstream work at the pre-concept stage utilizing an ongoing technical assistance—TA 6910-IND: Supporting Institutional Knowledge Development and Capacity Building for Planning of Innovative and Sustainable Projects and Programs—as part of Output 1 of the TA. The team is expected to prepare a high-impact project with strategic and cross-sector development significance and will also assist the executing agency, UTDB, in early-stage conceptualization through analytical studies for developing the loan project. The upstream work consulting team will comprise:

- (a) Tourism destination development specialist (international, 44 working days, intermittent);
- (b) Rural infrastructure specialist (national, 44 working days, intermittent);
- (c) Economic and financial feasibility specialist (national, 33 working days, intermittent);
- (d) Public-private partnership specialist (national, 22 working days, intermittent);
- (e) Climate change and environment specialist (national, 33 working days, intermittent); and
- (f) Livelihood enhancement, gender, and social specialist (national, 33 working days, intermittent).

Scope of Work

The executing agency, UTDB is proposing the Holistic Development of Tehri Lake & its Catchment Project with various subproject components in six clusters comprising; (i) water adventure and dam learning cluster in Koti, (ii) rural and eco-tourism cluster in Tiwargaon, (iii) cultural gateway cluster in Dobra Chanti, (iv) commercial and information cluster in New Tehri, (v) organic and historic cluster in Madanegi, and (vi) comprehensive Tehri Lake cluster. These subprojects are at the mixed stages of maturity, viability/feasibility, and readiness; and require further screening and enhancement in terms of (i) technical, economic, and financial soundness; (ii) suitability for ADB's sovereign financing in view of ADB's priorities in Strategy 2030, climate change and food security financing, Sustainable Development Goals, and value for money in terms of private sector involvement; (iii) readiness for ADB financing assuming the project will be considered for approval in early 2024; and (iv) and other factors.

This climate change and environment specialist is expected to contribute to the above screening/enhancement of the subproject components through coordination with the executing agency/UTDB, detailed project report (DPR) consultants engaged by UTDB, and other consultants engaged by ADB in parallel to the climate change and environment specialist, especially with the livelihood enhancement, gender, and social specialist.

Detailed Tasks and/or Expected Output

The expert will conduct the following tasks and prepare a report on his/her findings:

- a. Conduct a rapid climate risk and vulnerability assessment of the project area to identify major climate risks and vulnerability;
- b. Screen the project components from environmental safeguard and climate change vulnerability perspectives and propose enhancement/adaptation and mitigation measures to the project design of the proposed components and any other additional components which should be included from the climate change or environmental perspectives;
- c. Examine policies and regulations related to climate change and solid waste/wastewater management and evaluate the needs for policy strengthening in the catchment area;
- d. Explore the opportunities for organic waste composting and plastic recycling, examine the opportunity for the creation of a recycling facility to transform collected plastic waste into new outdoor public furniture such as public bench, table, temporary mobile accommodation during festivals, etc.;
- e. Assess the technical soundness, feasibility, and suitability of solid waste and wastewater treatment measures of the proposed project and propose enhancement or redesign measures to reduce the environmental impact of the project and improve the environmental situation of the project area;
- f. Suggest measures and actions to enhance project readiness and smooth implementation including the needs for capacity development.

Reporting and Timing

The consultant will work for 5 months with 33 days of intermittent inputs from 10 January 2023 (expected commencement) under the guidance of the UTDB leadership and ADB's project team comprising Principal Rural Development Specialist, SAER (project lead); Senior Water Resources Specialist, SAER (subject focal); and Associate Project Officer (Infrastructure), INRM (country focal).

The consultant will present (i) a detailed work plan in the first week of the assignment that indicates dates for field visit, who to meet for discussions and how to obtain relevant data required for the tasks; (ii) an interim report and presentation before and during ADB's reconnaissance mission expected in April 2023; and (iii) a final report at the end of the assignment. The consultant is expected to travel to Uttarakhand, India and the project site twice—the first in early 2023 and the next during the reconnaissance mission (expected in April 2023).

Minimum Qualification Requirements

The individual consultant will have 10 years of relevant experience in climate change and environmental matters of projects. He/she will have proven experience in working with ADB or other multi-lateral development agencies. He/she is required to hold a bachelor degree in a relevant field (environment, climate change, etc.). A post-graduate degree is preferred, but not a requirement.

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
+ Show	Inception Report	Report	17-Jan-2023
+ Show	Interim Report	Report	31-Mar-2023
+ Show	Final Report	Final Report	30-Apr-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	5	10-Jan-2023	31-Jan-2023	
Other City, India	10	01-Feb-2023	28-Feb-2023	New Delhi, Dehradun, Tehri and other cities
Home Office, Other	7	01-Mar-2023	31-Mar-2023	
Other City, India	5	01-Apr-2023	08-Apr-2023	New Delhi, Dehradun, Tehri and

			other cities
Home Office, Other	6	09-Apr-2023	30-Apr-2023
Total	33		

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