

TERMS OF REFERENCE

Hiring Services of Consultant/agency/firm for study on ‘Sustainable Energy Alternatives in Uttarakhand Landscape’

under

Green-Ag: Transforming Indian Agriculture for Global Environment Benefits and the Conservation of Critical Biodiversity and Forest Landscapes

(GEF-6 Project, FAO PS: 637244, ID: 9243)

1. Background:

The Green-Ag Project aims to catalyze the sustainable transformation of India’s agriculture, without compromising the country’s food security and farmers’ income. The project seeks to mainstream biodiversity conservation, climate change, and sustainable land management objectives and practices into Indian agriculture to enhance multiple global environment benefits. The project supports harmonization between India’s agricultural and environmental sector priorities and investments so that the achievement of National and GEBs can be fully realized without compromising India’s ability to strengthen rural livelihoods and meet its food and nutrition security requirements. The project also aims to bring greater coherence between the Government’s policies, investments and institutions concerned with conservation and agricultural production at landscape level, so that they become mutually compatible.

The Green-Ag Project is funded by the Global Environment Facility (GEF) through its sixth funding cycle. The Department of Agriculture, Cooperation and Farmers’ Welfare (DAC & FW) is the National Executing Agency and FAO is the Implementing Agency. The Ministry of Environment, Forest and Climate Change (MoEF & CC) is the GEF Operational Focal Point and coordinates all GEF Projects in the country.

The Project adopts a landscape approach by incorporating participatory governance and community based natural resource management at grassroots levels, for sustainable management of natural resources, land-use systems, and improved livelihood options. Uttarakhand is one of the five States where the Green-Ag Project is supporting activities at State, District and local levels. The primary landscape “Target Green Landscape” where the project will work has been selected based on extensive stakeholder consultations. The project is being implemented in selected micro watersheds in Pauri Garhwal district including the corridors of the Corbett and the Rajaji Tiger Reserves.

The project is being implemented in the fringe villages of Rajaji Tiger Reserve and Corbett Tiger Reserve. The project landscape covers a total of 3,27,734 ha area, which includes 1,64,240 ha buffer zone of Rajaji and Corbett Tiger Reserves and 1,63,494 ha area under Koh, Nayar and Hyunal watersheds. About 2,17,998 population belonging to 47,465 families are residing there in nearly 1,234 Revenue Villages, located within watersheds.

The proposed studies on ‘Sustainable Energy Alternatives in Uttarakhand Landscape will help in understanding the gaps of existing policies & programs on renewable energy at state level with the recommendation and steps for potential employment in the renewable energy sector supporting the contribution in mitigating climate change.

2. Need of Consultancy:

Replacing fossil fuels as an energy source with green power is the most important action we can take to address the impacts of climate change on health and to reduce pollutants that can lead to disease. Increasing the supply of renewable energy especially solar energy would allow us to replace carbon-intensive energy sources and significantly reduce global warming emissions. The Governments have launched several programs and schemes to not only promote the use of solar energy but to link it with rural livelihoods also. But due to some unknown reasons and gaps, mass acceptance of these programs

is yet to be gained. The Project adopts a landscape approach by incorporating participatory governance for promoting community to use of sustainable energy alternatives. The consulting agency/ firm will prepare the report on the potential of Sustainable Energy Alternatives in the selected Uttarakhand Landscape and the gaps between the needs and the existing policies & programs on renewable energy. The study will help the project in implementing sustainable energy alternatives in the landscape as a guiding note.

3. Objective of the Assignment:

- i. To find out gaps between the needs and the existing policies & programs on renewable energy at the State and National level.
- ii. To find ways and means to harness the environment-friendly sustainable energy alternatives and enhance their contribution in mitigating climate change.
- iii. To find the potential of direct and indirect employment opportunities in Sustainable Energy alternatives.
- iv. To list out steps for public awareness and involve users/local community along with their capacity building in establishing, operating and managing Sustainable Energy projects.

4. Expected Outcomes / Scope of work

- i. Gaps between the needs and the existing policies & programs on renewable energy at the State & National level.
- ii. Identify the potential and possibilities of direct and indirect employment opportunities in Sustainable Energy alternatives, focusing Uttarakhand Landscape.
- iii. Recommendations and steps for public awareness and involve users/local community along with their capacity building in establishing, operating and managing Sustainable Energy projects

5. Area of Work:

This study will be conducted in the Rajaji Corbett Landscape of Uttarakhand selected under Green Ag.

6. Duration of Work:

- The study duration would be six months w.e.f. the date of the agreement.
- The study will be carried out under the direct supervision of the Project Director, GEF-6, State Project Management Unit, Watershed Management Directorate, Uttarakhand, Dehradun.

7. Submission of Reports:

- The final report should be submitted to the State Project Management Unit, Watershed Management Directorate, Uttarakhand, Dehradun.

8. Deliverables:

The total duration of the consultancy/work assignment would be six months from the date of agreement. Reports submitted to SPMU, WMD Dehradun should be in electronic (on Pen Drive/CD/DVD/Hard Disk) and colour hardcopy formats (05 copies draft, 15 copies final versions). This should include all data, manuals etc.

9. Reporting and ownership:

- The draft reports should be submitted to the Project Director GEF-6, SPMU, WMD Dehradun for review and feedback, and recommendations. The final report should have the revisions,

suggestions, and recommendations incorporated.

- All primary data collected in printed and electronic form should be submitted to the SPMU along with the final report.
- The reports will be accepted subject to the approval by SPMU.
- WMD, Uttarakhand will have exclusive copyright.

10. Required staffing and experience

The Agency (institute/department/firm) should have expertise in Rural Development especially in alternate energy sector having at least 10 years organisational experience in relevant field. The study team should include experts of relevant disciplines. One of the most experienced team members should be designated as team leader for the purpose of interaction and coordination with SPMU at WMD. It is important that the staff should have considerable experience of field surveying, interviews, FDGs and reporting etc. in the relevant field. While evaluating the proposal, qualifications and experience of the above personnel will be considered.

11. Data, Services and Facilities to be provided by the client/ PD, SPMU:

- Make available all project documents, Results Framework, present data base of the project etc.
- Facilitate cooperation by concerned district/block authority, line department & project staff during the course of the field survey and preparation of the reports.
- The State Technical Coordinator, SPMU will act as a link among the SPMU, the agency and other relevant stakeholders.
- SPMU will review of the stages of the consultancy to ensure that the project/assignment is accomplished within the scheduled and agreed time period.

The Agency will be responsible for all costs related to its assigned staff, including salary, allowance, field accommodation, travel, transport and logistic support.

All findings, and all related documents will be the property of the SPMU, Uttarakhand.