

**Terms of Reference:
Climate and Carbon Finance Expert for
SREP-Supported Extended Biogas Project**

1. Introduction

Nepal is one of six pilot countries identified for assistance under the Scaling-up Renewable Energy Program in Low Income Countries (SREP) by the SREP sub-committee. As one of three programs under the Strategic Climate Fund, SREP aims to demonstrate the social, economic and environmental viability of low carbon development pathways in the energy sector. In particular, the objectives of SREP in Nepal are to (i) leverage complementary credit and grant co-financing; (ii) bring about transformational impacts through scaling up energy access using renewable energy technologies (RETs), poverty reduction, gender and social inclusiveness and climate change mitigation; and (iii) ensure sustainable operations through technical assistance and capacity building. The Government of Nepal (GoN) had designated the Ministry of Finance (MoF) and the Ministry of Energy, Water Resources and Irrigations (MoEWRI) as the focal points for SREP. MoEWRI had designated the Alternative Energy Promotion Centre (AEPC) as the lead agency for SREP-related activities. Currently AEPC is under the ministry of Energy, Water Resources and Irrigation. The Waste to Energy under SREP is considered a sub activity of Renewable Energy and hence the SREP supported projects are part of the Government's program activity, and is being implemented by AEPC.

The SREP- Supported Extended Biogas Project, one of the SREP components aims to promote large off-grid biogas energy generation in the country where sponsors are commercial enterprises or municipalities. SREP seeks to deliver two primary categories of benefits from the use of its financial support: (i) increased access to renewable energy and (ii) increased production of renewable energy. The project consists of two components; Technical Assistance and Financing of Investments.

2. Background

The Alternative Energy Promotion Centre (AEPC) has established a dedicated Climate and Carbon Unit (CCU). This unit will be responsible for coordinating climate change mitigation and adaptation activities related to renewable energy at a national and local level. The unit works to identify and develop Nepal's portfolio of renewable energy related carbon projects (both CDM and voluntary markets) and support the local level in preparing and implementing climate and GESI sensitive energy planning. Furthermore, the unit is also responsible to handle Green Climate Fund (GCF) accreditation process and develop the project concepts and proposals to increase the access to international climate finance. Nepal has been recognized as successful country in terms of no of household size bio-digester and its operational status. As a result as of now more than 12 Program of Activities are already registered under CDM in domestic biogas.

In this context, as discussed in the Implementation Support review Mission (August-September, 2018), discussion was held between AEPC and WB regarding provisioning of

climate and carbon expert to mainstream carbon trading of large biogas supported by SREP. From such provision of hiring carbon finance expert, to perform such duties in doing preparing Project Idea Note (PIN), Project design Document (PDD), hiring DOE and launching large biogas POA under UNFCCC Carbon Development Mechanism (CDM), technical analysis of the plants in terms of carbon offset and periodic reporting to AEPC and WB.

3. Objective

The objective of the Climate and Carbon Finance Expert is to assist and take lead in executing the climate change mitigation as well as adaptation activities in relation to the SREP supported extended Biogas Project including other renewable energy sector in AEPC.

4. Scope of work (Activities/Responsibilities)

The scope of service of Climate and Carbon Finance Expert shall include but shall not necessarily be limited to the following:

- Support in overall management of carbon projects/PoA under AEPC/SREP basically in developing concept for the project, project validation, monitoring, inclusion, verification and issuance of emission reduction credits.
- Increase co-ordination and linkages with ***Designated Operational Entity (DOE)***, ***Designated National Authority (DNA)*** and different International organization for carbon credit.
- Support Ministry, specifically DNA to prepare guidelines on CDM projects/PoA approval process and support in conducting Emission Reduction Purchase Agreement (ERPA) negotiation committee meetings in the Ministry regarding large biogas and waste to energy.
- Support local bodies to prepare and implement climate sensitive energy planning process.
- Responsible for tracking progress of Provincial engineers, and local bodies linking with ***Climate and Carbon financing activity***.
- Support ministries and central level government agencies, if required, to prepare and formulate the climate change related policies, strategies and plans such as National Greenhouse Gas inventories, National Adaptation Plans, Nationally Determined Contribution etc.
- Coordinate and develop training materials and publications to build the capacity and raise awareness of other stakeholders in Nepal on role of renewable energy in climate change Adaptation/Mitigation.
- Executes workshop and seminar for stakeholders periodically on various elements of renewable energy and climate change Adaptation/Mitigation.
- Involve in policy & plan formulation on renewable energy and climate change.

- Support in preparing Aide Memoire for the different missions related to carbon projects and prepare Borrowers' Implementation Completion Report (BICR) for related project.
- Support in accessing international climate finance for developing project concepts, proposals etc. and work closely in throughout the accreditation process of AEPC in Green Climate Fund (GCF).

5. Performance and Reporting Requirement (Deliverables)

- PoA-DD of proposed Large size Biogas PoA finalized and submitted to Designated Operational Entity (DOE)
- Validation of proposed Large Size Biogas PoA finalized in coordination with DOE and submitted to UNFCCC.
- Regular Monitoring and Verification of CDM/GS projects/PoA under AEPC as per UNFCCC and GS requirement
- Regular issuance of CERs from the Biogas Projects/PoA under AEPC.
- At least two concept notes for the projects submitted to Green Climate Fund (GCF)
- Concept note on large Size Biogas drafted in coordination with different entities to submit to Green Climate Fund (GCF).

6. Duration of Service

The Expert will be assigned for the project period, i.e. 31st August, 2021 with a provision of renew of contract, in case of satisfactory performance. The expert is expected to work full time during office hours within Kathmandu valley with required travels outside Kathmandu valley within Nepal on project related matters.

7. Expert's required Qualification and Experience

Candidate should have at least master's degree Engineering/Energy/Economics/Environment/Climate Change or related field with minimum 5 years experience in total and 3 years experience in energy planning, climate change, carbon trading projects/programmes.

The candidate should also have:

- Knowledge of climate change policy preferably in relation to renewable energy.
- Aware on methodologies for energy scenario development and energy planning model.
- Knowledge/awareness of climate change adaptation and mitigation, carbon financing, international climate financing etc.

- Working knowledge and experience of rural/renewable energy projects/programmes implemented in partnership with government, donors and I/NGOs.
- Strong data analysis and reporting skills
- Ability to convey information to a variety of different stakeholders including donors and district level actors through verbal and written communication.
- Strong skills in working in a team
- Knowledge of CDM and other carbon project methodologies
- Participated in relevant trainings
- Computer/internet and presentation skills.

8. Facilities and logistics to the expert by the Client:

The Expert will be provided with the office space, computer with internet facilities, and office furniture. Necessary stationery, printing and copying facilities will also be provided by the Client.