

**Terms of References
For
Individual consultant for the assessment of under construction / uncompleted
Micro Hydro Projects (MHPs)**

1. Introduction

Alternative Energy Promotion Center (AEPC) is a national executing agency of renewable energy programme and projects in Nepal under the Ministry of Energy, Water Resource and Irrigation. With the mandate of policy and plan formulation, technology innovation, resource mobilization and coordination and quality assurance, the mission of AEPC is to make renewable energy a mainstream resource through increased access thereby, contributing for the improved living conditions of people in Nepal. AEPC is implementing a National Rural and Renewable Energy Programme (NRREP), a single programme modality for the promotion and dissemination of renewable energy technologies under various sub/components.

2. Background

AEPC is the Government of Nepal's (GoN) core agency for the implementations of RE technology in rural areas of Nepal. AEPC has been executing National Rural and Renewable Energy Programme (NRREP) and operated through 3 core components- Central Renewable Energy Fund (CREF), Technical and Productive Energy Use (PEU) with various subcomponents/ units under the Technical component. Community Electrification (CE) is one of the key sub components implementing pico/micro/mini hydro projects in demand driven as well as public private- partnership (PPP) approaches. During the construction period of the MHPs, some of the projects may take longer time for the completion due to various reasons such as low power output generated than design power, project damaged by natural calamities during its construction phase, extension of national grid line in the micro hydro projects load center and also due to lack of financial resource of the user committee.

For the management of such projects there is a provision in subsidy delivery mechanism 2073 in clause 10.4 for the settlement of MHPs.

The selected individual expert/ consultant will work as-and-when required for the AEPC; they will be assigned from time to time to visit pico/micro/mini hydropower plants as per requirement for the settlement of sick process, project cycle monitoring, assessments etc. Individual expert/consultant will be responsible for especially settlement of pico/micro/mini hydro project and any other field based task.

3. Objective of the Assignment

The overall objective of the preparation and publishing this term of reference is to invite individual expert/ consultant for especially monitoring and settlement of the sick pico/micro/mini hydro projects as per the subsidy delivery mechanism 2073. AEPC may seek other relevant services based on requirement for supporting the communities in project cycle monitoring, assessments etc.

4. Scope of Works (Activities)

The scope of work shall include, but not be limited to, the following:

- Visit the project site and prepare the necessary document for the settlement process.
- Prepare the estimate (BOQ and cost estimate) of the remaining works of the sick MHPs.
- Prepare the estimate (BOQ and cost estimate) of MHPs that has been damaged by the natural calamities.
- Inspection of all the civil works as well as electro mechanical works of the projects as per AEPC guidelines, DFS/site verification report.
- Measurement of the power output by using true RMS meter and efficiency of the MHPs.
- Interaction with community people through formal and informal meetings regarding the settlement process of the projects
- Study and review of Detailed Feasibility Report / Site verification report/ contract agreement of the MHPs
- Check the quality and quantity of the all the equipment supplied by the installer company and calculate the cost of usable and non usable equipment separately on the basis of quotation provided by the company during contract agreement.
- Preparation of the report for the settlement of the MHPs as per provision in the subsidy delivery mechanism 2073
- Project specific term of reference will be provided during the mobilization to the micro / pico hydro project site.

5. Eligibility to apply for the consultant:

The candidate must have following educational and relevant work experience who wishes to apply for this consulting job.

- Minimum of Bachelor in Civil/Mechanical/Electrical Engineering from the recognized academic institution.
- Minimum 2 Years' experience in the mini/micro/pico hydro projects.

6. Consultant Selection Method

The roster will be prepared as per AEPC Administrative guideline

7. Documents to be submitted

- Application letter with photographs
- Updated CV with original signature
- Copies of Relevant Academic Certificates
- Copy of Nepal Engineering Council Certificates
- Copy of experience letter