

Terms of References for Roster Engineers 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 (GoN) 's apex agency for the implementations of RE technology in rural areas of Nepal. AEPC/NRREP aims accelerating renewable energy service delivery to remote rural households to benefit men and women from all social groups contributing to a more equitable economic growth. Community Electrification Section is one of the sections at AEPC which helps to electrify communities through the establishment of Mini/Micro Hydropower Projects. AEPC/NRREP provides subsidy and technical assistance to develop up to 1000 kW (1 MW) capacity Mini/Micro Hydropower Projects. During the construction period of the MHPs, some of the projects may take longer time for the completion due to various reasons such as project damaged by natural calamities during its construction phase, community disputes, lack of financial resources, extension of national grid in the micro hydro projects load center, variation in project design etc. 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 AEPC. They will be assigned from time to time to visit pico/micro/mini hydropower plants as per requirement for the settlement of the project, 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 objective of this assignment to prepare a roster of individual expert/consultant for monitoring, quality assurance and settlement of the micro/mini hydro projects. 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 assigned MHPs.
- Prepare the estimate (BOQ and cost estimate) of MHPs that has been damaged by natural calamities.
- Inspection of all civil works as well as electro mechanical works of the projects as per AEPC guidelines, and inspection of DFS/site verification report.
- Measurement of the power output and efficiency of the MHPs by using true RMS meter.
- 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 used and unused 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.
- The overall responsibility of settlement of the project, conduction of OYGC, project cycle monitoring, assessments etc. will be provided to the individual consultant during mobilization.

4. Eligibility to apply for the consultant:

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

1. Minimum of Bachelor in Civil/Mechanical/Electrical Engineering from the recognized academic institution.
2. Minimum 1 Years' experience in the mini/micro/pico hydro projects.

5. Consultant Selection Method

The roster will be prepared as per AEPC Administrative guidelines.

6. Documents to be submitted

1. Application letter with photographs
2. Updated and signed Curriculum Vitae (CV)
3. Copies of Relevant Academic Certificates
4. Copy of Nepal Engineering Council Certificates
5. Copy of experience letter
6. Other relevant documents