

Terms of Reference (ToR)
for Sub-Engineer (Irrigation, Water harvesting, Bio-engineering)

(Contract ID: GBCRP/NTNC/S/IND/4.1)

PROJECT:

Improving Climate Resilience of Vulnerable Communities and Ecosystems in the Gandaki River Basin, Nepal.

BACKGROUND:

The project 'Improving climate resilience of vulnerable communities and ecosystems in the Gandaki River Basin, Nepal' or 'Gandaki Basin Climate Resilient Project (GBCRP)' in short, aims to enhance the adaptive capacity and resilience of communities and ecosystems to the impacts of climate change in the region.

The project is a seven-year undertaking developed to mainstream and operationalize a sustainable river basin approach for watershed management by building climate resilience of both vulnerable communities and ecosystems in the Gandaki River Basin and has three components: community resilience; ecosystem resilience and climate governance. Each of the project components has an outcome which will be contributed by seven project outputs and yield a number of deliverables.

It targets 19 districts in three provinces—Bagmati, Gandaki and Lumbini. Benefitting 1.9 million people and with over 847k tonnes of emissions avoided, the project is anticipated to be used as a model for showcasing how climate-resilient development in large river basins can occur successfully throughout Nepal.

The International Union for Conservation of Nature (IUCN), as a GCF-Accredited Entity, is the implementing entity while the Department of Forest and Soil Conservation (DoFSC) under the Ministry of Forests and Environment (MoFE) and the National Trust for Nature Conservation (NTNC) are the executing entities of the project. The total budget of the project is USD 32.7 million, including a grant from the Green Climate Fund (GCF) of 27.4 million and a co-financing amount of USD 5.3 million from the executing entities. The field activities are executed through DoFSC's Field Execution Offices (FEOs)- Basin Management Centre Gandaki, Kaski and Federal Watershed Management Resource Center, Kulekhani, Makawanpur in collaboration with NTNC and IUCN Nepal. The Project Management Unit (PMU), housed at the DoFSC, is responsible for overall project execution under the guidance of the Project Steering Committee (PSC).

The project focuses on addressing challenges posed by climate change and requires assistance to support the initiative in GBCRP. For this, NTNC will be recruiting two Sub-Engineers (Irrigation, Water harvesting, Bioengineering) to work at NTNC's office located in one of the areas of FEOs.

JOB SUMMARY:

Working under the guidance of the Civil Engineer (Irrigation, Water harvesting, Bio-engineering), the Sub-Engineer (Irrigation, Water harvesting, Bio-engineering) is expected to support irrigation, water harvesting system and suggest bio-engineered solutions for erosion-prone rural forest roads, wetland restoration, and ecosystem restoration.

RESPONSIBILITIES:

The Sub-Engineer (Small-scale Irrigation, Water harvesting, Bio-engineering) will be responsible to carry out the following tasks:

- Assist in establishing irrigation schemes, water harvesting and efficient water use technology (conservation ponds, water reservoirs).
- Support to select and design/modify appropriate bio-engineering technology in conjunction with Nature Based Solutions (NBS).
- Conduct site assessments and surveys to gather essential data for project planning and design.
- Support in forming relevant Water Users' Group (WUG).
- Assist in building the capacity of the Water Users' Group on operation and maintenance of the scheme during the project period.
- Help in estimating the cost of materials, labour and equipment required for the project.
- Maintain accurate project documentation, including drawings, reports, and progress updates.
- Assist in testing construction materials to ensure quality and compliance with engineering standards.
- Undertake other duties as assigned.

OUTPUTS/ DELIVERABLES

Assist the Civil Engineer while preparing periodic progress reports and as per the assigned

QUALIFICATIONS AND EXPERIENCES

- Diploma in Civil Engineering subject with at least 3 years of work experience in Watershed Management Structures, Bio-Engineering and Nature-Based Solutions;
- Proven experience assisting in the project;
- Strong knowledge of civil engineering principles, practices, and standards;
- Proficiency in computer-aided design (CAD) software and other relevant engineering tools;
- Professional licensure or registration as a Civil Engineer is preferred;
- Effective communication and interpersonal abilities;
- Ability to work under pressure, prioritize tasks, and meet tight deadlines.

Duty Station: The work location will primarily be at NTNC's office located in one of the areas of FEOs, with occasional visits to other project-related sites.

Travel Requirement: Frequent Visit (as required) to NTNC Office along with travels to project sites. Travelling Costs will be as per the NTNC norms.

Period of Involvement: Six (6) Months subject to renewal based on performances and availability of the Funds. Either party may terminate this agreement by providing one month prior written notice in case of unsatisfactory performance, breach of contract, or any other compelling reason.

Selection Criteria: The applicants will be selected based on relevant work experience and qualifications. The consultant will be selected based on the approved criteria of NTNC. The main criteria for the selection will be relevant work experience, qualifications followed by interview.

Application Submission Procedure: Interested Consultants should email their updated CV and cover letter along with filled application form (refer website) mentioning job title at career@ntnc.org.np before **31st August, 2023, 17:00 hrs.**