

Terms of Reference (ToR)

for Consultant-Civil Engineer (Small-scale Irrigation, Water harvesting, Bio-engineering)

(Contract ID: GBCRP/NTNC/S/IND/4)

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 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 the establishment of engineering work or structures combined with Nature-based solutions to build on the climate resilience of GRB communities through Ecosystem-based

adaptation approaches. In this context, there is a need for technical guidance, supervision and quality control of engineering-related works in GBCRP. For this, NTNC will be recruiting one Consultant-Civil Engineer (Small-scale Irrigation, Water harvesting, Bio-engineering) to work at NTNC's office located in one of the areas of FEOs.

JOB SUMMARY:

Working under the overall leadership and guidance of the Head of Department-Climate Change and Knowledge Management, the incumbent is expected to perform as Consultant-Civil Engineer (Small-scale Irrigation, Water harvesting, Bio-engineering) to design and plan irrigation, water harvesting systems and implement bio-engineered solutions for erosion-prone rural forest roads, wetland restoration, and ecosystem restoration. The Consultant-Civil Engineer (Small-scale Irrigation, Water harvesting, Bio-engineering) will address water-related challenges and promote sustainable development.

RESPONSIBILITIES:

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

- Design and establish irrigation schemes, water harvesting and efficient water use technology (conservation ponds, water reservoirs).
- Select and design/modify appropriate bio-engineering technology combined with Nature Based Solution (NBS).
- Conduct site assessments and surveys to gather essential data for project planning and design.
- Form relevant Water Users' Group (WUG) with group mobilisation by-laws for construction, operation, and maintenance of the scheme to be constructed.
- Build capacity of Water Users' Group on operation and maintenance of the scheme during the project period.
- Support to identify the location for the construction of structural support for rural roads in consultation with the Provincial and local governments and local communities.
- Manage and supervise construction activities, including quality control and adherence to project timelines.
- Engage in regular meetings with FEOs, local communities and other stakeholders to address concerns and provide updates on project progress.

- Conduct periodic evaluations to identify lessons learned and areas for improvement.
- Consult and coordinate with the local government, relevant stakeholders and communities.
- Coordinate regularly with DoFSC, IUCN, Basin Management Centre (Gandaki), and Federal Watershed Management Resource Centre, Kulekhani.
- Undertake other duties as assigned.

OUTPUTS/ DELIVERABLES

- Establishment of small and micro irrigation scheme in GRB
- Construction of check dams
- River training
- Construction of bio-engineered structures
- Submit the periodic progress reports of the approved program and budget as per the assigned task.

QUALIFICATIONS AND EXPERIENCES

- Master's degree in Civil Engineering subject with at least 5 years of work experience in Watershed Management Structures, Bio-Engineering and Nature-Based Solutions;
- Proven experiences in planning, implementation and monitoring of integrated bio-engineering technologies and ecosystem restoration works;
- Familiarity with environmental regulations and sustainable construction practices;
- Professional licensure or registration as a Civil Engineer is preferred;
- Excellent analytical, problem-solving, and decision-making skills;
- Effective communication and interpersonal abilities to collaborate with diverse project teams;
- 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 consultant 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, the cover letter along with filled application form (refer website) mentioning job title at career@ntnc.org.np before **31st August, 2023**, 17:00 hrs.