

## TERMS OF REFERENCE FOR SENIOR ENGINEER

<b>Contract:</b>	PPCR/DHM/S/IND-43		
<b>Project</b>	PPCR- BRCH (Building Resilience to Climate Related Hazards)		
<b>Expertise:</b>	Senior Engineer		
<b>Source</b>	National	<b>Category</b>	Independent
<b>1. Background:</b>			
<p>Government of Nepal (GoN) has prepared a Strategic Program for Climate Resilience (SPCR), which was approved by Climate Investment Fund (CIF). SPCR has identified four projects for investment in Nepal. One of them is the "Pilot Project for Climate Resilience (PPCR) - Building Resilience to Climate-Related Hazards (BRCH). Components A, B and C under BRCH are being implemented by the Department of Hydrology and Meteorology (DHM), Ministry of Population and Environment (MoPE). Component D of BRCH is being implemented by the Ministry of Agriculture Development (MoAD). A dedicated Project Management Unit (PMU) has been set up at DHM for the implementation of project components A, B, and C.</p> <p>The project aims at upgrading hydro-meteorological network, weather forecasting system and flood forecasting system. The varied elements of upgrading hydro-meteorological requires acquisition of private and/or public land, construction of a new multistoried department building at Babarmahal, and establishment and operation of telecommunication systems including radar. Assessment of social and environmental impacts considering the losses of agriculture products, deforestation, loss of natural habitats, impacts on indigenous population, electromagnetic radiation of telecom equipment, security of installations are some of the important social and environmental aspects of the project.</p> <p>DHM BRCH project now requires consulting service from individual consultant to work as a Senior Engineer in accomplishing the objectives/purpose of the assignment.</p> <p><b>Objective/Purpose of the Assignment:</b> This is a senior position to undertake overall responsibility to supervise the civil works under this project, professional management of engineering personnel in accomplishing their tasks on survey, design, and cost estimate. The Senior Engineer will liaise with Consultants and Contractors in construction related works in various areas of the country including remote areas.</p> <p>The consultant will prepare and provide technical inputs particularly in civil engineering in planning, designing, surveying, construction, supervision, monitoring, and reporting of site activities and progress. S/he will guide and direct the other team members in overall implementation of the project. The consultant will develop effective and appropriate templates for progress records, site monitoring and other routine activities among others. S/he will work directly under the guidance and close supervision of the National Project Director/Assistant Project Directors.</p>			

**Scope of Work:**

The consultant will prepare and provide technical inputs particularly in civil engineering field in organizing, planning including survey, design, construction, supervision, monitoring, and reporting of site activities and progress. S/he will guide and direct the other team members in overall implementation of the project. S/he will develop effective and appropriate templates for progress records, site monitoring and other routine activities.

The consultant will plan, design and supervise the construction works. The size of such works can vary from relatively small to large construction works. such as hydrological and meteorological stations rehabilitation works to large works like DHM building construction at Babarmahal. S/he will work closely in harmony with I) the Project Management Unit (PMU) for the Building Resilience to Climate Related Hazards (BRCH) Project, Department of Hydrology and Meteorology (DHM), II) the Province/Regional/Basins and District level offices of DHM and III) System Integrator IV) Building design and supervision consultant.

**Duties and Responsibilities:**

The consultant will undertake following tasks under the guidance of National Project Director/Assistant Project Director and PMU:

- Assist Project Management Unit (PMU) in Organizing, planning, designing, monitoring and supervision of hydrological station, meteorological station and other construction works;
- Take lead role in conducting survey work and design of civil works related to installation of various hydrological and meteorological stations and hydro-met network. Examine relevant design, cost estimates and submit it to PD/APD for necessary approval.
- Undertake enforcing Standard Templates in regular review of technical documents and support DHM in ensuring quality of construction and works related activities by close coordination and liaison with Consultant/Contractors as applicable..
- Organize and Monitor to provide effective support to the Technicians/Engineers/hydrologist and meteorologist in detail design, survey and construction works in conformity with the quality, works measurement, record keeping, progress and co-ordinate the work as necessary. Develop and enforce standard Templates wherever applicable for uniformity and effective information transmission including progress monitoring system.
- As required, with the approval of NPD/APD, assist central to regional basin offices and regional metrological offices in accomplishing construction activities.
- Accomplish other tasks related works under the project components as directed by the Project Director;
- Provide guideline and assistance to the DHM personnel/independent consultants in preparation of bidding documents for procurement of works under civil works contract as required.

- Provide training and guidelines to concerned DHM staff in different technical and awareness aspects including survey, design and implementation;
- Attend and participate in project meetings and provide inputs on technical/engineering matters at the time of preparing annual plan, trimester and annual progress report. Prepare appropriate mechanism to monitor project progress reports after field verification. Provide feedbacks and maintain regular communication with related field and central level staff including the progress monitoring of DHM building construction works;
- Accomplish other tasks related to engineering/ technical aspect as per the need of the project.

**Required Qualifications:**

**A. Academic qualifications and training**

- a. The consultant must have a minimum of Bachelor's Degree in Civil Engineering. Master's degree in the relevant field will be an advantage;
- b. Training in relevant field will be an added advantage.

**B. Experience**

- a. S/he must have a minimum of 10 (Ten) years of work experience in civil engineering field. Experience in donor funded projects will be an added advantage;
- b. S/he must be familiar with project planning, and experience of working in remote areas will be an added advantage;
- c. S/he must have experience in design, survey, procurement process of the GON/donor funded projects;
- d. S/he must have sound health to undertake regular travel/trek and motivated to work in remote areas.

**Selection Criteria:**

The consultant shall be selected based on Individual Consultant Selection (IND) Method of the World Bank's Consultant Selection Guidelines. Main criteria for the selection will be relevant work experience and qualifications.

**6. Duration of Service:**

The consultant's duration of service will be for a period of 12 (Twelve) months. The consultant is expected to work full time office hours; .

**Duty Station:** Kathmandu, Nepal, with frequent field visit as per requirement.

**Financial Conditions:**

- a. The consultant shall be paid a lump sum amount of remuneration per month, which should include all his/her overheads, social charges and other associated costs including local transportation within Kathmandu valley and insurance premium costs.
- b. The consultant shall be responsible for all taxes and duties including income tax applicable except VAT as per Government of Nepal rules and regulations;
- c. In case of travel requirement outside Kathmandu valley and within Nepal for project related assignments, consultant shall be paid travel expenses on actual basis and suitably determined subsistence allowance to cover all other costs including accommodation.

**10. Output/Reporting Requirements:**

The consultant will report to the Project Director. In addition to the regular tasks, the consultant should be responsible for providing /preparing following documents and reports during assigned period.

- i. Input on Trimester/Yearly Implementation Progress Report(IPR) as per requirement;
- ii. Develop appropriate reporting formats as required ;
- iii. Guideline/Manual regarding for supervision and monitoring of engineering works as per need of the project,;
- iv. Proceeding of workshop and training if required; and
- v. Final Report- It will include summary of all activities performed during the contract period. .

All reports should be in English/ Nepali as required.

**11. Facilities to be Provided by DHM:**

DHM shall provide following facilities to consultant during his tenure of service:

- Office space with computer and furniture
- Email and internet access
- Required office stationary
- Photocopying facilities

**Taxation:** The consultant will be fully responsible for all taxes imposed by Government of Nepal excluding VAT.

<b>Places of Assignment:</b> Kathmandu	<b>Days Estimated Dates</b>	<b>12 months</b>
TOTAL DAYS (state if Intermittent) Not applicable		

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