

CALL FOR EOI

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| Title of Consulting Service | Lead Trainer and Assistant Trainer for 3-day Hollow Concrete Block (HCB) Quality Enhancement Training |
| Project Name | BUILDING Energy Efficiency in Nepal (BEEN) |
| Funding Agency | European Union under SWITCH - Asia Grants Programme |
| Applications Calling Office | MinErgy Private Limited |
| Address | Dakshinkali Chowk, Lagankhel-5, Lalitpur |



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Terms of Reference

A. Introduction

University of Innsbruck (UIBK), Austria in partnership with MinErgy Pvt Ltd, Nepal; Greentech Knowledge Solutions Pvt Ltd (GKSPL), India and Asociación Española de Normalización (UNE), Spain, is implementing a four-year project entitled BUILDING Energy Efficiency in Nepal (BEEN) with funding support from European Union (EU) under the SWITCH-Asia Programme. BEEN seeks to contribute in achieving low-carbon and resource-efficiency in the Nepalese building sector by integrating energy efficiency (EE) and renewable energy (RE) measures in design and constructions of new buildings as well as in retrofitting of existing buildings.

This project supports the realization of Sustainable Development Goals (SDGs) and aims to foster responsible consumption and production of resource efficient building materials in Nepal. BEEN intends to achieve the overall objective through:

- a) Enhancing capacity of Building MSMEs (Micro Small and Medium Enterprises) to transform their services and products towards EE building designs, construction and/or retrofitting, and
- b) Increasing awareness of Building MSMEs and end users to create market system for the promotion and use of EE building design.

It also seeks to coordinate with the federal, provincial and local governmental units to devise and implement policies and standards that promote EE in the building sector. Moreover, it aims to coordinate with banking and financial institutions to make financial products and services accessible for the promotion of EE and RE in the building and construction sector.

B. Context

Nepal is now one of the fastest urbanizing developing countries. It is estimated that 1 million homes will be built in Nepal in the next decade. Most buildings in Nepal are designed without considering the local climate. Increased urbanization, changing lifestyle and lack of climatic consideration will lead to an increased energy demand of the building sector in Nepal.

The use of building materials with high embodied energy will also result in higher carbon emission through the building sector. Hence, BEEN Project aims to promote resource-efficient materials such as Hollow Fired Bricks, Hollow Concrete Blocks (HCB), and Compressed Stabilized Earth Blocks (CSEB) to contribute to reduced Green House Gas (GHG) emission from the sector. To achieve this objective, the project is planning to capacitate Micro, Small, and Medium Enterprises (MSMEs) involved in the production of these resource efficient building materials.

HCB is a vital and widely used walling material, particularly in areas where the production and supply of clay bricks are limited. However, due to the poor quality of the produced HCB, most customers are hesitant to use it for building construction. Instead, HCB is predominantly utilized for the construction of temporary structures like toilets and boundary walls. Hence, the project intends to conduct a 3-day quality enhancement training for HCB producers in six locations of its working provinces.

This EoI seeks to identify a lead trainer and an assistant trainer to carry 3-day training on HCB quality enhancement in six locations from the list set out in Annex 1.

C. Objectives

The objective of this assignment is to provide HCB quality enhancement training to existing HCB producers. The training must cover following major topics:

- Introduction to HCBs, specification and standards
- Selection of raw materials
- Mix ratio of raw materials
- Introduction to tools and equipment
- Capacity building on pre-production, production and quality control
- Management and cost calculation of production unit
- Orientation on HCB machines
- Do's and don'ts in the production process

D. Scope of work

Under this call the identified lead trainer and assistant trainer will perform the following tasks:

- Review and finalize a training schedule.
- Review literatures, training curriculum and prepare training materials.
- Coordinate with BEEN team to deliver training program.
- Deliver 3-day HCB quality enhancement trainings in various working locations of BEEN Project.
- Prepare detail training report with recommendations for improvement.

E. Deliverables

The deliverables under this call are

- The lead trainer and assistant trainer selected will conduct trainings in six locations out of the locations mentioned in Annex 1.
- Submit final report within two weeks of completion of training event

F. Qualifications of trainers

The qualification of lead trainer and assistant trainer should be

| Personnel | Unit | Qualification | General Experience | Specific Experience |
|--------------|------|----------------------|--|--------------------------------|
| Lead Trainer | 1 | At least bachelor in | At least 10+ years of experience in the field of | Mandatory experience (at least |

| Personnel | Unit | Qualification | General Experience | Specific Experience |
|-------------------|------|----------------------------|---|--|
| | | Civil Engineering | building construction and project supervision | 4) in providing training in hollow concrete block production. |
| Assistant trainer | 1 | At least intermediate pass | At least 5+ years of experience in HCB production | Experience in training delivery (at least 2) on HCB production |

G. Instruction for submission of EOI

- This EOI is open to all eligible Nepali individuals who meets the qualification in Section F. Interested candidates need to submit
 - Application letter
 - Detailed CV with relevant experience
 - Certificates of academic qualifications
 - Documents to support the required general experience
 - Documents to support the required specific experience
 - Copy of PAN certificate
 - Copy of citizenship
 - Training locations where the lead trainer/assistant trainer will be available to conduct trainings.
- EOI shall be submitted via mail by 5:00 PM on 12th April, 2024 attaching all the documents and writing a mail to info@beenproject.org with subject line “EOI for Lead trainer/Assistant trainer for 3-day Hollow Concrete Block (HCB) Quality Enhancement Training”
- Document received after the closing time for submission of proposals shall not be considered for evaluation.
- Female candidates and candidates from ethnic minorities socially excluded and disadvantaged groups are preferred to apply.

H. Annex

1. Annex 1: Training Areas

A. Bagmati Province

| Training Location | District | Municipality |
|-------------------|-----------------|--------------------------------|
| Hetauda | Chitwan | Ratnanagar Municipality |
| | Chitwan | Bharatpur Metropolitan |
| | Makwanpur | Hetauda Sub Metropolitan |
| | Makwanpur | Manahari Rural Municipality |
| | Nuwakot | Bidur Municipality |
| | Rasuwa | Gosainkunda Rural Municipality |
| | Dhading | Galchi Rural Municipality |
| Manthali | Ramechhap | Manthali Municipality |
| | Sindhuli | Kamalamai Municipality |
| | Dolkha | Bhimeshwor Municipality |
| | Sindhupalchowk | Barhabise Municipality |
| | Kavrepalanchowk | Banepa Municipality |
| | Kavrepalanchowk | Dhulikhel Municipality |
| Kathmandu | Bhaktapur | Changunarayan Municipality |
| | Bhaktapur | Madhyapur Thimi Municipality |
| | Kathmandu | Budhanilkantha Municipality |
| | Kathmandu | Chandragiri Municipality |
| | Kathmandu | Gokarneshwor Municipality |
| | Kathmandu | Kathmandu Metropolitan City |
| | Lalitpur | Lalitpur Metropolitan |
| | Lalitpur | Godawari Municipality |
| | Lalitpur | Mahalaxmi Municipality |
| | Bhaktapur | Bhaktapur Municipality |

B. Gandaki Province

| Training Location | District | Municipality |
|-------------------|------------------|-----------------------|
| Gaidakot | Nawalparasi East | Gaidakot Municipality |
| | Nawalparasi East | Devchuli Municipality |

| Training Location | District | Municipality |
|-------------------|------------------|--------------------------|
| | Nawalparasi East | Kawasoti Municipality |
| | Tanahun | Byas Municipality |
| | Manang | Chame Rural Municipality |

C. Lumbini Province

| Training Location | District | Municipality |
|-------------------|------------------|---------------------------------|
| Lamahi | Dang | Lamahi Municipality |
| | Dang | Tulsipur Sub-Metropolitan |
| | Dang | Ghorahi Sub-Metropolitan |
| | Bardiya | Thakurbaba Municipality |
| | Baanke | Nepalgunj Sub-Metropolitan |
| | Baanke | Kohalpur Municipality |
| | Banke | Duduwa Rural Municipality |
| | Rukum East | Bhume Rural Municipality |
| | Rolpa | Rolpa Municipality |
| | Pyuthan | Swargadwari Municipality |
| | Arghakhachi | Sandhikharka Municipality |
| Butwal | Rupandehi | Butwal Sub-Metropolitan |
| | Rupandehi | Tilottama Municipality |
| | Rupandehi | Siddharthanagar Municipality |
| | Rupandehi | Lumbini Sanskritik Municipality |
| | Rupandehi | Gaidahawa Rural Municipality |
| | Kapilvastu | Mayadevi Rural Municipality |
| | Kapilvastu | Kapilvastu Municipality |
| | Nawalparasi West | Bardaghat Municipality |
| | Palpa | Tansen Municipality |
| | Gulmi | Resunga Municipality |