

**DEPARTMENT FOR INTERNATIONAL DEVELOPMENT - NEPAL HEALTH SECTOR SUPPORT  
PROGRAMME - 3 (DFID - NHSSP)  
TERMS OF REFERENCE: STRUCTURAL ENGINEER**

<b>Job title</b>	Structural Engineer
<b>Work stream</b>	Nepal Health Support Sector Programme – 3 Health Infrastructure work stream (Retrofitting & Rehabilitation)
<b>Location</b>	Kathmandu, Nepal
<b>Reporting to</b>	Senior Earthquake Resilience Advisor
<b>Responsible for</b>	Not applicable
<b>Liaison with</b>	NHSSP Health Infrastructure Team counterparts, Government of Nepal counterparts in Ministry of Health & Population (MoHP) and Department of Urban Development & Building Construction (DUDBC)
<b>Type of contract</b>	Fixed term contract until the programme support to the retrofitting of two priority hospitals is completed
<b>Background</b>	

The Ministry of Health and Population (MOHP) is currently implementing the Nepal Health System Strategy (NHSS) 2015-2020. Between March 2017 and December 2020, a consortium led by Options, with HERD International, OPM, and Miyamoto International will be supporting the implementation of this strategy through the Nepal Health System Support Programme 3, funded by DFID. The programme has two components. The first component is General Technical Assistance (TA) to increase the capacity of the MOHP to improve health policy-making and planning, procurement and financial management, health services and the use of evidence for planning and management. The second component aims to increase the MOHP's capacity to retrofit health infrastructure to withstand future earthquakes. Both components are integrated and provided by a team based in Kathmandu and "embedded" with the Government of Nepal.

The Health Infrastructure work stream has three Key Performance Areas (KPA):

- **KPA 1: Policy and Standards Development** involves building a strong policy environment, to ensure that the MoHP and DUDBC adopt and implement relevant codes, standards and guidelines for construction and maintenance of health facilities and infrastructure
- **KPA 2: Capacity Enhancement** seeks to augment the capacity of MoHP, DUDBC and the private sector (including contractors and construction professionals) to be efficient, technically competent and capable of implementing resilient design, construction and maintenance
- **KPA 3: Retrofitting and Rehabilitation of Health Infrastructure** aims to ensure that health infrastructure is retrofitted, rehabilitated, maintained and monitored in earthquake affected and vulnerable affected districts, and that facilities are resilient to future seismic shocks, environmental impacts and other natural disasters.

## PURPOSE AND OBJECTIVES

NHSSP is undertaking Retrofitting and Rehabilitation of two hospitals as per KPA3 of the NHSP3 (RHITA component). For this activity, Western Regional Hospital (WRH) Pokhara and Bhaktapur Hospital have been selected using the selection criterion agreed between MoHP and DFID. Preliminary assessments of the buildings have been carried out to identify the required interventions for both the Hospitals. The planned action involves structural, non-structural and functional retrofitting interventions as required for different types of buildings within the hospital complex. NHSSP technical assistance supported DUDBC for the overall technical support for design and planning of all the interventions required. The planned interventions recommended by the NHSSP team have already been reviewed and agreed by all the stakeholders. As agreed between DFID and the government of Nepal, DUDBC is responsible for the overall implementation of the project adopting the government procurement procedure, technically supported by NHSSP in all the aspects of the implementation of the retrofitting project.

The NHSSP continued technical support to DUDBC has decided to appoint a Structural Engineer to support the design, detailing and implementation of ongoing retrofitting activities. The Structural Engineer, as ongoing support, will engage in the production of codes, guidelines and standards on building earthquake resilience, as well as supporting the design and implementation of the priority hospitals construction projects within the Department of Urban Development & Building Construction (DUDBC) and other programme priorities as required by the programme.

The Structural Engineer is required to support on hand skill transfer and capacity enhancement of

DUDBC-based engineers in the area of development of multi hazard resilient health infrastructure development.

This post is located in NHSSP, and the post-holder will be required to work closely with DUDBC as directed by Senior Earthquake Resilience Advisor.

The Structural Engineer reports to the Senior Earthquake Resilience Advisor and the activities associated with this post are linked to deliverables across Key Performance Areas 1, 2 and 3 in the RHITA activity plan. The KPA targets are included as part of this job description.

## MAIN DUTIES

The position will provide technical assistance to DUDBC under the guidance of Senior Earthquake Resilience Advisor (SERA) under the overall leadership of the Health Infrastructure Lead Advisor (LA) from NHSSP. The position will directly report to SERA and as appropriate to LTA.

### Specific responsibilities:

- Support to NHSSP team and DUDBC counterparts in the production and adoption of codes, guidelines and standards on building earthquake resilience into MoHP and DUDBC health infrastructure practice and programmes.
- Support DUDBC counterparts in understanding and adopting the earthquake resilience measures as part of the NHSSP Capacity Enhancement and Policy Development programmes, and participate in training events and capacity enhancement activities as required
- Provide technical assistance to DUDBC in the retrofitting of the two priority hospitals, including
  - On-site mapping and drawings of hospital buildings
  - On-site assessment of the hospital buildings with necessary field investigations
  - Production of design modification as per field investigations in consultation with NHSSP design team
  - Selection of appropriate retrofit solutions and construction techniques.
  - Production of detailed designs details and necessary drawing, cost estimation with materials specification and construction & demolition techniques, necessary consultation with, and presentations to, GON counterparts, hospital staff and other relevant stakeholders
  - Inputs into tender processes (including tender documents and bid evaluations)
  - Support implementation and construction works
  - Participate in regular progress and site meetings with clients, contractors, construction managers, and site engineers
  - Provide inputs and material as necessary to support project close-out and recording
- Support DUDBC counterparts in adopting technical improvements to in-house practices and procedures on multi-hazards resilient design and implementation for health infrastructure
- Support DUDBC counterparts to strengthen quality assurance practices and procedures in completed design, tendering and construction
- Support DUDBC counterparts in adopting technical improvements to in-house practices and procedures on earthquake-resilient design and implementation for health infrastructure
- Ensure that materials, designs and deliverables produced are of very high quality, technically sound and incorporate the new standards and codes for earthquake, environmental and disaster

resilience that are being developed under the NHSSP

- Ensure that retrofit designs take account of good practice in patient-centred construction, including efficient planning and sequencing to minimise disruption, strong infection control measures, and close consultation with health management and staff
- Participate in networks and activities to ensure that NHSSP products and processes are informed by and relevant to the private construction industry (contractors and professionals), higher education institutions and training organisations

#### Other duties and requirements

- Maintain high standards of professional practice, ensuring that deliverables and products are technically sound and comply with government requirements, relevant international parameters, and National Reconstruction Authority guidance
- Participate as an active member of the NHSSP Health Infrastructure Team, contributing to operational planning, programming, and budgeting processes as required
- Produce reports, materials, and inputs for NHSSP deliverables as required for the effective performance of the programme
- Attend meetings, seminars, consultative events and workshops as a representative of the NHSSP programme as required
- Be familiar with and observe NHSSP requirements on staff behaviour and performance, grievance and disciplinary procedures, anti-corruption action and other relevant personnel conditions of employment

### Person specification

Criteria	Essential	Desirable
<b>Qualifications</b>		
<ul style="list-style-type: none"> <li>• Master's Degree in Civil or Structural Engineering, registered professional</li> </ul>	✓	
<b>Experience</b>		
<ul style="list-style-type: none"> <li>• Minimum 5 years professional experience with significant exposure in programmes / large projects, preferably in the health sector after the required qualification has been achieved.</li> </ul>	✓	
<ul style="list-style-type: none"> <li>• Track record of delivered and built projects, involving design and supervision.</li> </ul>	✓	
<b>Skills and attributes</b>		
<ul style="list-style-type: none"> <li>• Strong working knowledge of relevant national and international construction design codes, standards and practices</li> </ul>	✓	
<ul style="list-style-type: none"> <li>• Good client and external liaison skills</li> </ul>	✓	
<ul style="list-style-type: none"> <li>• Good inter-personal skills and ability to work with people from diverse backgrounds</li> </ul>	✓	

• Good organisational skills, with the ability to handle multiple tasks and activities with competing deadlines	✓	
• Good report writing and presentation skills (In English)	✓	
<b>Other requirements</b>		
• Commitment to equal opportunities and social inclusion	✓	
• Good command of written and spoken English	✓	
• Experience in working in multi-disciplinary and multi-cultural teams	✓	