

Background

In August 2020, the Department of Urban Development and Building Construction (DUDBC) has revised the Nepal National Building Code (NNBC) 105: Seismic Design of the Buildings in Nepal, and has been enhancing regulations for compliance of building code in new buildings. However, constructions have been different from building design drawings in many cases. This is mostly due to lack of awareness and knowledge regarding legal compliance among the building owners and contractors. Therefore, it is necessary to enhance the capacity of design checking and construction inspection by the municipalities, capacity of supervision by the architect and engineers, capacity of quality control by the contractors, and the awareness of stakeholders. To contribute to improve above situation, Ministry of Urban Development (MoUD) and Japan International Cooperation Agency (JICA) concluded the Record of Discussions (R/D) on November 2020 and the technical cooperation project that aims to establish a mechanism of building code compliance for safer building construction against earthquakes has started on April 2021.

Project Purpose

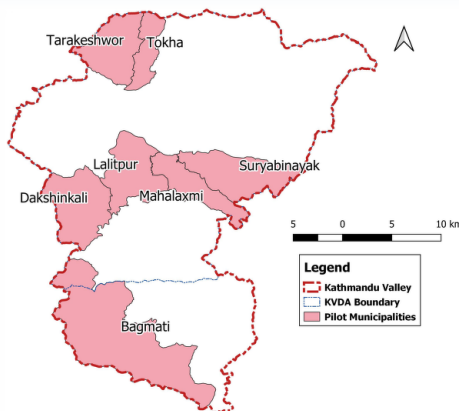
Improvement of the Nepal National Building Code (NNBC) compliance mechanism focusing on earthquake safety in Kathmandu Valley

Outputs

1. Formulation of Action Plan including basic policy for ensuring NNBC compliance
2. Improvement of Building Construction Working Procedure (BCWP) for NNBC compliance, such as design checking, inspection, supervision, quality control, completion certification
3. Establishment of training mechanism for stakeholders involved in building construction
4. Strengthening of Information dissemination and awareness for safer building construction
5. Improvement of incentive mechanisms for safer building construction

Pilot municipalities

- Lalitpur
- Tokha
- Mahalaxmi
- Tarakeshwor
- Dakshinkali
- Suryabinayak
- Bagmati



Targeted Type of Building

Reinforced concrete (RC) buildings among Categories B or C according to Building Act, 2055 (1998 AD)

Joint Coordination Committee (JCC)

JCC is established in order to facilitate inter-organizational coordination. JCC provides instructions and adjustments of the project implementation policy to the Project Team.

Training in Japan

In addition to the activities in Nepal, the Project shall conduct the Training in Japan. Through the introduction of the building regulation compliance system with training course and site visits to construction industry in Japan, it is expected that measures to address the issues related to legal compliance and building quality control that Nepal currently faces will be shared.

Project Events

[1st JCC meeting was held on 16th of September, 2021]

In the 1st JCC, Members of JCC, the work plan for the Project, Monitoring Sheet, selection of Pilot Municipality, nominating of officers for the Working Group (WG) Members, Activities of WGs and plan for 2nd JCC meeting were discussed and agreed.

[New BCWP model]

Draft of the new BCWP model has been prepared and under discussion within WG2 & pilot municipalities.



[Surveys at initial stage]

Three kinds of surveys are being conducted at the initial stage.

(1) Baseline Survey

As a Baseline Survey, building survey is being conducted in order to confirm NNBC compliance status of under-construction buildings.

(2) Capacity Assessment

The capability of municipal officials, building owners, consultants and contractors are being surveyed using questionnaires and face-to-face interview.

(3) Awareness survey

Awareness survey on building safety is being conducted to building owners using questionnaires and face-to-face interview.



The Project for Promotion of Nepal National Building Code Compliance for Safer Building Construction (NBCC) 2021 to 2025



Implemented by
Ministry of Urban Development
Department of Urban Development and Building Construction



Technical cooperation
Japan International Cooperation Agency



Overall Goal

Construction of earthquake resistant safer building in compliance with Nepal National Building Code (NNBC) in Kathmandu Valley will be promoted

Project Purpose

Improvement of Nepal National Building Code (NNBC) compliance mechanism focusing on earthquake safety in Kathmandu Valley

Output 1

WG1

Formulation of Action Plan including basic policy for ensuring NNBC compliance

- 1-1. To conduct baseline survey on existing building stocks in a digital database with NNBC compliance status and capacity assessment of each actor (engineers/architects, municipal officers, contractors, building owners) in pilot municipalities
- 1-2. To establish Working Groups with officials of pilot municipalities and formulate Action Plan (Action Plan will consist of basic policy and revision and utilization Building Construction Working Procedure, improving NNBC Compliance System etc.)
- 1-3. To review Action Plan
- 1-4. To modify Action plan



Output 3

WG3

Establishment of training mechanism for stakeholders involved in building construction

- 3-1. To develop programs and training texts for Training of Trainers (TOT) utilizing materials of Output 2
- 3-2. To conduct master TOT
- 3-3. To conduct training at different level mobilizing master trainers
- 3-4. To conduct On-the-Job training in pilot municipalities
- 3-5. To develop inventory system of trained human resources
- 3-6. To conduct trainings by Nepalese side



Output 4

WG4

Strengthening of Information dissemination and awareness for safer building construction

- 4-1. Conduct survey on current situation in Nepal
- 4-2. To formulate policy directions of dissemination and awareness
- 4-3. To draft dissemination and awareness measures
- 4-4. To disseminate and awareness through media
- 4-5. To organize seminars/workshops of building safety



Output 5

WG5

Improvement of incentive mechanisms for safer building construction

- 5-1. To conduct survey on current situation in other countries
- 5-2. To formulate the policy directions of incentive mechanisms
- 5-3. To draft of policy document for incentive mechanisms
- 5-4. To formulate policy document to realize incentive mechanism
- 5-5. To implement the incentive mechanism by pilot municipalities



Output 2

WG2

Improvement of Building Construction Working Procedure (BCWP) for NNBC compliance, such as design checking, inspection, supervision, quality control, completion certification

- 2-1. To formulate the draft of model for BCWP with NNBC Compliance System
- 2-2. To formulate series of guidelines for BCWP
- 2-3. To formulate / improve existing manuals for construction building inspection, supervision, quality control including checklists etc.
- 2-4. To improve the BCWP by pilot municipalities
- 2-5. To apply the BCWP by pilot municipalities
- 2-6. To modify the draft of model BCWP with NNBC Compliance System include guidelines and manuals
- 2-7. To finalize the model for national BCWP
- 2-8. To disseminate model of BCWP to other municipalities



Project implementation structure

