

**SEISMIC RETROFITTING
OF
OFFICE BUILDING OF WARD NO. 3
OF
BIRATNAGAR SUB-METROPOLITAN CITY, MORANG, NEPAL**

Progress Report No.2

(From 16th December 2009 to 15th January 2010)

Client:

UNDP/ ERRRP Project

Department of Urban Development and Building Construction

Babarmahal, Kathmandu, Nepal

Consultant:

MRB & Associates

Seto Durbar, Jamal, Kathmandu

Contractor:

Lohani and Brothers Pvt. Ltd.

Kathmandu-14, Kalanki

1. Introduction:

Earthquake Risk Reduction and Recovery Preparedness Programme for Nepal (UNDP/ ERRRP PROJECT: NEP/07/010) has appointed MRB and Associates, Kathmandu to provide supervision works for the Seismic Retrofitting of Office Building of Ward No. 3 of Biratnagar Sub-Metropolitan City, Morang. Tenders were invited for the retrofitting works and the Project was awarded to Lohani and Brothers Pvt. Ltd. The total amount of the contract is NRs. 1,742,540.63 (Nepali Rupees: one million seven hundred forty two thousand five hundred forty and paisa sixty three only), including VAT.

2. Commencement of Work:

The Contractor has started work at the site from 15th November, 2009.

3. Description of Works:

The brief description of works may be summarized below:

- A) Dismantle Works
- B) New construction Works

4. Progress of work from 16th December 2009 to 15th January 2010

A. CIVIL WORKS

Item No.	Description of Works
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A.	DISMANTLING/ REMOVING/ STORING/ DISPOSING WORKS
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2.0	CEMENT FLOORING
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Dismantling of flooring with its component like PCC, brick soling has already been completed.

3.0	BRICK MASONRY WORK
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Dismantling of all existing brickworks in cement mortar safely without disturbing untouched parts has been completed as per instruction of the Engineer.

PLASTER WORK

All plaster on inner and external surfaces has been removed.

6.0	SITE CLEARANCE
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Site has been cleared off all unuseful materials and debris.

B. NEW CONSTRUCTION WORKS

1.0 EARTHWORK IN EXCAVATION

Earth work in excavation has been completed for tie beams both at outer and inner sides of the building.

2.0 BRICK SOLING

2.1 FLAT BRICK SOLING

Compaction and Brick soling has been completed for tie beams both at outer and inner sides of the building.

3.0 PLAIN CEMENT CONCRETE

3.1 P.C.C. (1:3:6)

P.C.C (1: 3: 6) of 4" thickness has been completed for tie beams both at outer and inner sides of the building.

4.0 REINFORCED CEMENT CONCRETE WORK

4.1 P.C.C. FOR R.C.C. WORKS (M20 GRADE)

Casting of tie beam with M20 grade concrete (1:1.5:3) has been completed at both outer and inner sides of the building.

4.2 FORMWORK

Formwork was provided for tie beam casting and removed after final setting time.

4.3 TOR STEEL REINFORCEMENT BAR

Tor Steel reinforcement works for tie beam of the building have been completed. Similarly, reinforcement works for splints is complete at out side and that at inner side is on progress inside.

5.0 MICRO CONCRETE (M20 GRADE)

Micro concrete works of the splints up to plinth level has been completed.

6.0 FIXING STITCHING BARS

Stitching bars were driven into the walls for the anchorage of splints and tie beams as per specifications.

12.0 WATERPROOFING WORKS IN ROOF TERRACE

Removal of old plaster on the roof for waterproofing works has been started.

B. SANITARY WORKS

3.0 SEPTIC TANK

Excavation for septic tank is completed. Flat brick soling and P.C.C(1:2:4) is also completed. Brick work is in progress.

5. Dumping of Construction Materials:

List of Construction Materials dumped at the site is as follows:-

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|------|---------------------|--------------|
| i. | Cement | - 70 bags |
| ii. | Sand | - 450 cu.ft. |
| iii. | Aggregate | - 350 cu.ft. |
| iv. | Reinforcement bars | - 2.0 mt |
| v. | Bricks | - 3000 nos. |
| vi. | Water Tank (1000lt) | -1no |

5. Photographs



Laying of Reinforcement for Splints



Micro- Concrete Work in Progress



First Coat of Micro- Concrete



Splint and Bandage



Excavation for Septic Tank



Dumping of Cement and Water Tank