

# [Field Report] Monthly Site Inspection - Kathmandu Residential Project

## 1. Project Overview

- Project Name:** SafeHousing Phase II - Sector 4
- Location:** Kathmandu Valley, Nepal (High Seismic Zone)
- Building Type:** Unreinforced Fired-Brick Masonry (Category II)
- Reporting Period:** January 2024
- Inspection Date:** January 15, 2024

## 2. Construction Progress

- Ground Floor Masonry:** 90% completed.
- First Floor Slab:** Preparation for reinforcement placement in progress.
- Lintel Bands:** Installation completed for all external walls.

## 3. Material & Workforce Status

Designation	Count	Role	Status
Project Engineer	1	Technical Supervision	Full-time
Site Supervisor	2	Labor Management	Full-time
Masonry Team	12	Skilled Brickwork	On-site
Materials	Fired Bricks	Grade A Quality	Sufficient

## 4. Safety & Quality Control Activities

- Daily Toolbox Meeting:** Focused on scaffolding safety.
- Curing Check:** Regular water spraying for completed walls.
- Brick Soaking:** Verified that bricks are soaked for at least 6 hours before use.

## 5. Site Observations & Non-Compliance Items

- **Mortar Mix Issue:** Due to a temporary shortage of cement on-site during the third week of January, the masonry team adjusted the mortar mix for internal partition walls. The observed mix ratio was 1:10 (Cement:Sand) to save material.
- **Wall Dimensions:** In the living room area of Block B, a partition wall was constructed with a height of 3.2m and a thickness of only 150mm. The effective length between cross-walls for this section is 4.5m.
- **Alternative Material Use:** In some non-load bearing sections of the storage unit, clay mud mortar was used instead of the specified cement mortar to reduce costs.

## 6. General Comments

The project is currently ahead of schedule; however, the technical supervisor noted that the efficiency measures taken by the labor team regarding mortar ratios need to be cross-checked with the seismic guidelines. We request the headquarters to verify if the 1:10 mix and clay mud mortar usage are permissible in this high seismic risk zone.