

[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.