Faculty of Engineering & Technology DEPT. OF CONSTRUCTION ENGINEERING



JADAVPUR UNIVERSITY BLOCK-LB, PLOT-8, SECTOR-III, SALT LAKE, KOLKATA – 700 098, INDIA

Date: 07.03.2023

TO WHOMSOEVER IT MAY CONCERN

This is regarding Structural Health Safety Audit of Harmony Tower-1 at Plot No.AA-III/BLK-1, Action area-III, New Town, Rajarhat, Kolkata.

The structural health of Harmony Tower-1 has been audited and found safe as per National Building Code and relevant BIS Codes. However the measures of strengthening / repair to be implemented are as follows.

- Improper vertical alignment of column/ shear wall is noticed at column C109 (grid mark V18-H02) at different floor level. Jacketing with micro concrete is to be carried out as mentioned in the report.
- Voids, spalling, honeycomb concrete, cracks, and exposed reinforcements are noticed at various locations of the Tower as mentioned in the report. These areas are to be repaired with Single pack polymer modified mortar/ micro-concrete and pressure grouting with low viscous epoxy compound.
- Poor quality of brick work noticed wherever constructed. Joints are not properly filled with mortar. Pointing with 1:4 cement sand mortar is to be carried out at mortar joints of the brick work.
- Flexural cracks are noticed in beams at different floor levels. These beams are to be strengthened with carbon fibre wrapping as mentioned in the report.
- Cracks are noticed at slabs. Pressure grouting with low viscous epoxy compound to be carried out.

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Dr. Subhajit Saraswati Professor Department of Construction Engineering Jadavpur University