



Date: 21.02.2023

TO WHOMSOEVER IT MAY CONCERN

This is regarding Structural Health Safety Audit of Harmony Tower-8 at Plot No. AA-III/BLK-1, Action area-III, New Town, Rajarhat, Kolkata.

The structural health of Harmony Tower-8 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 C803 (grid mark V11-H01) at different floor levels, C804 (Grid Mkd V02-H01) at twenty first floor level, C814 (Grid Mkd V15-H06) at twenty first floor level, C814 (Grid Mkd V04-H06) at different floor levels, C819 (Grid Mkd V06-H07) at sixteenth floor level, C820 (Grid Mkd V09-H07) at different floor level and C825A (Grid Mkd V16-H07) at different floor levels. Jacketing with micro concrete is to be carried out as mentioned in the report.
- Voids, 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 10th floor at different number of beams. 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.

Dr. Subhajit Saraswati
Professor
Department of Construction Engineering
Jadavpur University