



Date: 29.04.2023

TO WHOMSOEVER IT MAY CONCERN

This is regarding Structural Health Safety Audit of Cascades Tower-9 at Plot No.AA-III/BLK-1, Action area-III, New Town, Rajarhat, Kolkata.

The structural health of Cascades Tower-9 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 SW7B (grid mkd.H05–V06 to V07) at twenty first floor level. Jacketing with micro concrete is to be carried out as mentioned in the report.
- Voids, honeycomb concrete 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.
- Flexural and shear cracks are noticed in beams at many locations. These beams are to be strengthened with carbon fibre wrapping as mentioned in the report.
- Cracks are noticed at soffit level of slabs at different floors. These cracks are to be sealed by pressure grouting with low viscous epoxy compound.
- Pointing with 1:4 cement sand mortar is to be carried out at mortar joints of the brick mortar.

A handwritten signature in blue ink, appearing to read 'Subhajit Saraswati'.

Dr. Subhajit Saraswati
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