



NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING & RESEARCH
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Dated:

Sub Divisional Engineer

Const. Sub Division No.13,

Sector 26, Chandigarh.


Subject: - Condition Assessment and stability certificate

Reference: Your Memo no 259 dated 09/05/2023.

Dear Sir,

As per the site inspection and test results of Non-destructive testing of Govt. Senior Secondary School, Mauli Jagran, Chandigarh. The following conclusions are drawn:

- The average relative strength of concrete of the New Block varies from 18-25 N/mm² & old block varies from 12-17 N/mm² corresponding to the rebound hammer test.
- The overall quality of the concrete of New-block is good whereas, the quality of concrete in old block is in range of doubtful to good corresponding to the Ultrasonic Pulse Velocity test.
- The load-carrying capacity of the column, slab, and beams of New-Block can be calculated based on concrete grade **M20** & **Old-Block** is based on **M15**.
- Since the quality of concrete is good, it shows the absence of corrosion, honeycombing, cracks, voids, etc. at the locations where tests were conducted.
- As per the test results mentioned above the construction is carried out as per the approved design and drawings.
- The construction is done in accordance with the approved design and plans and the test findings mentioned above. The design of the current building complies with the criteria of the IS Code at the time it was built.
- The occupied building blocks with respect to stability, was found to be in satisfactory condition.
- As the structure of Old Block is constructed in 1979, it requires periodic maintenance, and the defects (dampness, corrosion in reinforcement, spalling, diagonal cracks on load-bearing walls, etc.) identified need to be rectified as soon as possible.


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