



**NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING & RESEARCH**  
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NITTTR/CIVIL/015

Dated: 29-06-2021

**Principal**  
**Govt Model Sr. Sec. School,**  
**Sector-20D, Chandigarh.**


**Subject:-** Condition assessment and stability certificate

**Reference :** Your letter no GMSSS/20-D/UT/2021/353 on dated 23/06/2021.

Dear Sir/Madam,

As per the site inspection and test results of Non destructive testing results of Govt. Model Senior Secondary School, Sector-20D, Chandigarh. following conclusions are drawn:

- The average relative strength of concrete varies from 22-26N/mm<sup>2</sup> corresponding to the rebound hammer test.
- The general quality of concrete is in the range of good corresponding to the Ultra sonic Pulse Velocity test.
- The load carrying capacity of the slab and beams can be calculated based on concrete grade M20 and design is found ok as per the relevant codal provisions.
- The load carrying capacity of the column can be calculated based on concrete grade=M20
- Since the quality of concrete is very good, it shows the absence of corrosion, honeycombing, cracks and voids etc at the locations where test were conducted.
- As per test results mentioned above the construction is carried out as per the approved design and drawings.
- The drawings and design of the buildings are also checked in accordance with the relevant Indian Standard Codes (with latest amendments) including Indian Standard Codes for structure resistant to earthquake.
- Hence based on the above conclusions the occupied buildings with respect to stability found to be in good condition.
- As the structure is old, it requires periodic maintenance and the defects (dampness cracks etc) identified needs to be rectified as soon as possible. Non addressee of these defects may affect the stability of the structure.

  
Dr. Sanjay Sharma  
Prof & Head  
Civil engineering Department.

