



NATIONAL INSTITUTE OF TECHNICAL TEACHERS' TRAINING & RESEARCH  
SECTOR-26, CHANDIGARH-160019 (INDIA)  
(Established by Ministry of Human Resource Development, Govt. of India)  
EPABX: 2759500,2759514  
FAX: 0172-2791366,2793893

e-mail : [director@nitttrchd.ac.in](mailto:director@nitttrchd.ac.in)  
web site: [www.nitttrchd.ac.in](http://www.nitttrchd.ac.in)

NITTTR/CIVIL/122

Dated: 29-06-2021

Principal  
Govt Sr. Sec. School,  
Manimajra Town, Chandigarh.

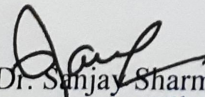
**Subject:** - Condition assessment and stability certificate

**Reference :** Your letter no GMSSS/MMT/335 on dated 25/06/2021.

Dear Sir/Madam,

As per the site inspection and test results of Non destructive testing results of Govt. High School, Manimajra Town, Chandigarh. (**Block-A, Block-B, Block-C, Block-D & Block-E**) 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 except at the columns of corridor.
- 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. The visual inspection and NDT results show that the various members are in good condition respect to their deterioration with age. The defects identified are to be repaired in order to prevent further deterioration. The reinforcement is getting corroded due to the carbonation of concrete.
- **As the structure is old, it requires periodic maintenance and the defects (dampness, cracks & spalling etc) identified needs to be rectified within the period of 6 months. Non addressee of these defects may affect the stability of the structure.**

  
Dr. Sanjay Sharma  
Prof. & In-charge  
(In-charge)  
Dean Technology & Sustainable Development  
National Institute of Technical Teachers Training & Research