

GOVERNMENT OF ASSAM  
OFFICE OF THE CHIEF ENGINEER P.W.D.(BUILDING)  
ASSAM, CHANDMARI, GUWAHATI-3

No. CEB/MECH/05/2013/39

Dated Guwahati the 30<sup>th</sup> November, 2018.

The Executive Engineer, PWD  
Building Division II, Dispur Guwahati- 6

Sub: Building Safety Certificate for the school Building

Ref: Your letter No. TB/J/84/80-81/Pt-V/7493 dtd. 28/06/2018

With reference to above, the Non-Destructive Test Report for the school building of Monfort School, 10<sup>th</sup> Mile, Guwahati-23, conducted by Reliant Engineers, Sixmile, Guwahati has been checked. The report is found satisfactory as per IS 13311(Part 1):1992.

Encl: Report 1 set

Chief Engineer, PWD (Building)  
Assam, Chandmari, Guwahati-3

Memo No. CEB/MECH/05/2013/39-A

Dated Guwahati the 30<sup>th</sup> November, 2018.

Copy to: The Principal, Monfort School, 10<sup>th</sup> mile, Guwahati-23 for favour of information.

Chief Engineer, PWD (Building)  
Assam, Chandmari, Guwahati-3

*Ms. R. Lina Devi*  
Principal & Secretary  
Monfort School  
CBSE: 230070  
(An Inclusive Education Complex)  
10th Mile, G. S. Road, Guwahati-23  
Assam, India



# REPORT ON STRUCTURAL STABILITY TEST BY REBOUND HAMMER AND ULTRA SONIC PULSE VELOCITY , MONTFORT SCHOOL, TENTH MILE, G.S.ROAD, AMERIGOG, GUWAHATI-23

## Introduction:

The present project is aimed at assessing the strength of existing building. Structural stability tests were carried out by way of two types of tests.

1. Rebound hammer test
2. Ultra Sonic pulse velocity test

## Description of building:

Three numbers of buildings are tested which are mostly used for academic purposes.

1. Block 1, G+3 storied building ( Classroom, staff room)
2. Block 2, G+3 storied building ( Classroom, administrative block)
3. Block 3, G+2 storeyed building ( gallery, laboratory, auditorium )

*checked.*  
5. Islam.  
30-11-18  
Executive Engineer (Mech., Superintending Engineer, PWD, (B&NH) Guwahati Mechanical N.H. Circle,  
Assam, Chandmari, Guwahati-3

*checked*  
Superintending Engineer, PWD, (B&NH) Guwahati Mechanical N.H. Circle,  
Guwahati-1

*[Signature]*  
Superintending Engineer (B/N)  
O/o the C.E., PWD Bldg.  
Assam, Chandmari, Guwahati-3

Rebound hammer test is carried out for determination of Surface hardness as per IS 13311 Part B, 1992. Rebound test hammer method developed by a Swiss engineer, Ernst Schmidt is a practical rebound test. The Schmidt test hammer weighs less than 2 kg and has impact energy of 2.2Nm. The spring controlled hammer mass slides on a plunger within a tubular casing. The plunger retracts against a spring when pressed against the concrete surface, and this spring is automatically released when fully tensioned, causing the hammer mass to impact against the concrete through the plunger. When the spring-controlled mass rebound, it takes with it a rider which slides along a graduated scale and is visible through a small window in the side of the casing. The rider can be held in position on the scale by depressing the locking button. The equipment can be operate horizontally or vertically (up or down).The plunger is pressed strongly and steadily against the concrete surface to be tested at right angles, until the spring loaded mass

*[Handwritten signature]*

*[Handwritten signature]*  
Principal & Secretary  
Montfort School  
CBSE: 230070  
(An Inclusive Education Complex)  
10th Mile, G. S. Road, Guwahati-23  
Assam, India

