GOVERNMENT OF KARNATAKA
OFFICE OF THE ASSISTANT EXECUTIVE ENGINEER
PUBLIC WORKS DEPARTMENT
No.1 SUB- DIVISION MANGALURU

ISO 9001:2015: Certified Organisation
ISO 14001-2004: Certified Organisation
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No :PWD :SUB :DIV :MNG :TS:AE-3 :Stability Certificate :Bhuvana Jyoti :2025-26/250 Dated : 02/05/2025

To,

The Secretary
Bhuvana Jyothi Education Trust (R)
Shirthady,
Moodabidre Taluk.

Sir,

Sub:- Issue of Building Safety Certificate to Bhuvana Jyothi Education Trust - reg

Ref:-
1) Your letter Dated 07.03.2025
2) Government Circular No. PWD:59: BED: 2019 Dated: 10.11.2011 and 20.11.2021
3) Government Circular No. PWD:59: BED: 2019 Dated: 10.11.2011 and 07.05.2022

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With reference to the above subject, the Fire Safety Certificate and and Non Destructive Test report from St. Joseph Engineering college Vamanjoor, Mangaluru are received along with the request letter. The Bhuvana Jyothi Education Trust, Shirthady, Moodabidre, Dakshina Kannada District school building is inspected by Section officer as per the Government Circular vide ref (2) and (3). The above said School Building is in possession of Ground, First, Second & Third Floor and it is found structuarally stable for functioning of educational activities for year 2025-26.

As per the Govt. Circular No.:e-office file No.:PWD 59 BED 2019, Dated:06.07.2020 to issue an Building Stability Certificate for Primary and Secondary School Boards, should complied all the requirements recommended as per National Building Code-2016, Part-4 Clause 3.1.3 of Fire and Life safety mandatorily.

As per the Govt. Circular Ref (3) the fee of Rs.1000.00 is received vide Challan No. CR0425005900818157 Dated: 29.04.2025. Based on NDT report from St. Joseph Engineering College, Vamanjoor, ·Mangalore it is hereby certified that the said building structurally stable for functioning of educational activities for the year 2025-26.

Yours faithfully

Assistant Executive Engineer
Public Works, Department
No.1 Sub - Division Mangaluru

Annexure D

BUILDING SAFETY CERTIFICATE

No. Dated: 29/04/2025

It is certified that the existing building Bhuvana Jyothi Education Trust (name of the building or premises) at S.No. 136/P2 Shirthady Moodabidre Taluk - 574236 ..... (address) is having block(s)/Floor(s) as per details below:

Detail of Block(s) in school	Block (1)	Block (2)	Block (3)	Block (4)	Block (5)	Block (6)
No. of Floor(s) in the Block	Ground, First, Second & Third Floor					

The building is owned/occupied by Bhuvana Jyothi Education Trust Shirthady ..... (name of the Institution) have complied with the Building safety requirements in accordance with National Building code Rules, and verified by the officers concerned of Public Works Department (Name of Department/ Govt.) on 29/04/2025 (date of inspection) in the presence of Administrative officer, Bhuvana Jyothi Education Trust (name and addresses of the Manager/Secretary or his representative) and that the building/premises is fit for occupancy for running school with effect from 01.04.2025 for a period of 31.03.2026 years in accordance with rule and subject to compliance of the specific conditions as appended.

1. Building to be maintained Periodically.
2.
3.
4.

Issued on 29.04.2025 at Mangalore by

* Strike out whichever is not applicable. In case of block is more than six use separate sheet for detail.

ASSISTANT ENGINEER
P.W.D No. 1 Sub Division
Mangaluru

Signature with Seal : _____
Name : _____
Designation : _____
Name & Address of Department/ Office: _____

Assistant Executive Engineer
Public Works, Department
No.1 Sub - Division Mangaluru

DEPARTMENT OF CIVIL ENGINEERING

ST JOSEPH ENGINEERING COLLEGE,
VAMANJOOR,
MANGALURU - 575028

FINAL REPORT ON NDT TEST FOR SCHOOL BUILDING

TEST ORDER NO. SJEC/CIV/CLT/11/25

Dated: 10/02/2025

PROJECT: BHUVANA JYOTHI EDUCATION TRUST,
SHIRTHADY, MOODABIDRI TALUK, 574236

February 2025

REPORT FOR

BHUVANA JYOTHI EDUCATION TRUST, SHIRTHADY,
MOODABIDRI TALUK, 574236

REPORT ON

NON-DESTRUCTIVE TEST OF EXISTING SCHOOL BUILDING

AT

BHUVANA JYOTHI EDUCATION TRUST, SHIRTHADY, MOODABIDRI TALUK, 574236

February 2025

Report for

ASSISTANT EXECUTIVE ENGINEER, PWD, DIVISION,

MANGALURU

DEPARTMENT OF CIVIL ENGINEERING

ST JOSEPH ENGINEERING COLLEGE

VAMANJOOR

MANGALURU - 575028

KARNATAKA, INDIA

Assessment of

BHUVANA JYOTHI EDUCATION TRUST, SHIRTHADY, 574236

Report on	Assessment of NDT test report BHUVANA JYOTHI EDUCATION TRUST, SHIRTHADY, MOODABIDRI TALUK, 574236
Report for	ASSISTANT EXECUTIVE ENGINEER, PWD, DIVISION,
Date of request	10th February 2025
Date of test	20th February 2025
Assessment carried by	Dr. Prakash K G Assistant Professors, SJEC & Mr. Preethesh Lab Technician, Dept. of Civil Engg, SJEC
Date of submission of report	25th February 2025

Name of the work: NDT Test carried out for BHUVANA JYOTHI EDUCATION TRUST, SHIRTHADY, MOODABIDRI TALUK, 574236

Reg: The Rebound Hammer Test will assess the above-mentioned project's concrete characteristics (Strength).

As stated in the subject, a technical team from the civil engineering department of St Joseph Engineering College (SJEC), Vamanjoor, Mangaluru, visited the site on 20/02/2025.

This report represents the result of the test conducted and briefly summarizes the evaluation study's outcomes and recommendations.

Description of the structure:

Bhuvana Jyothi Education Trust's, Bhuvana Jyothi Residential School is situated in the Shirthady Village of the Moodabidri Taluk, Mangaluru District, this school campus, consists of totally three buildings. The first two buildings are located near the administrative office is G+3 RCC framed structures, these two buildings are presently using as Hostel rooms for boys and girls, this also includes mess and cooking area, each floors of these two buildings are connected by common staircases and terrace floors is planned to cover by GI sheets. The third-floor rooms, exactly above the girls hostel rooms are being used as classrooms.

The third building, also G+3 RCC framed, serves academic purposes. It houses classrooms and office spaces. The terrace floor is covered with GI sheets and this area is being used as a library. each floors of this building is connected by staircase and lift.

The technical team tested both the building, also RCC framed structure, columns, slabs and beams are tested to evaluate the concrete's strength.

Physical Observations:

The buildings seems to be in good structural condition, showing no evidence of corrosion. However, during testing, the technical team noticed minor cracks in plastering and some damp patches in the walls at specific locations and recommended filling the cracks (grouting and sealing) in certain areas and repainting.

Non-Destructive Test:

Rebound Hammer

As per IS:13311 (Part 2) – 1992, a rebound hammer determines concrete's compressive strength.

Procedure to determine the strength of hardened concrete by rebound hammer:

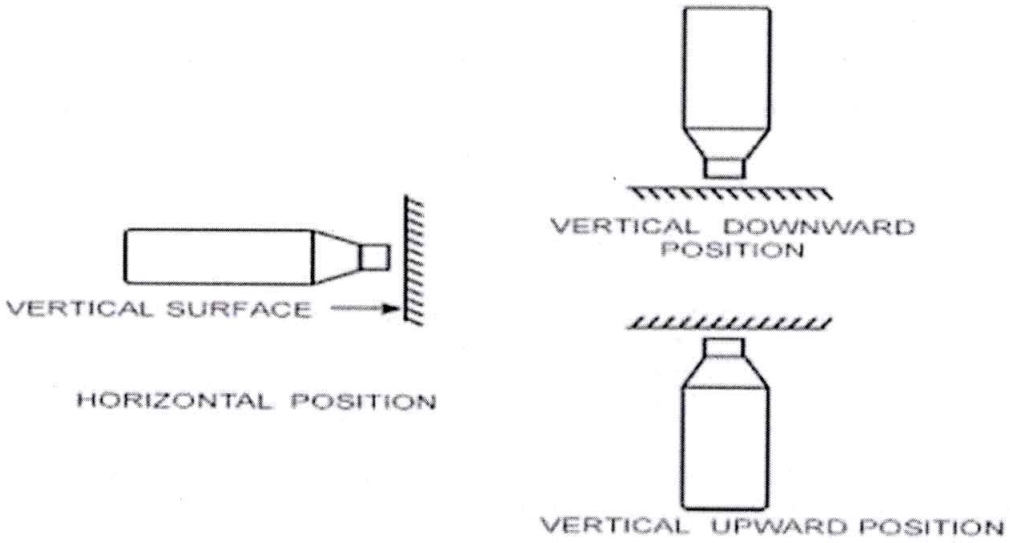
i) Before the commencement of a test, the rebound hammer was tested against the test and will to get reliable results.

ii) The rebound hammer is held at right angles to the surface of the concrete structure to take the readings. The test thus can be conducted horizontally on a vertical surface and vertically upwards or downwards on a horizontal surface, as shown in Figure 1.

iii) Apply light pressure on the plunger. It will release it from the locked position and allow it to extend to the ready position for the test.

iv) Press the plunger against the surface of the concrete, keeping the instrument perpendicular to the test surface. Apply a gradual increase in pressure until the hammer impacts.

v) Around each point of observation, six readings of rebound indices are taken, and the average of these readings, after deleting outliers, becomes the rebound index for the point of observation.



Interpretation of results:

The rebound reading on the indicator scale has been calibrated by the manufacturer of the rebound hammer for horizontal impact, that is, on the vertical surface, to indicate the surface compressive strength. When used in any other position, appropriate correction as given by the manufacturer is to be considered.

Sl. No.	Floor	Member	Direction of the hammer used	Average compressive strength
The first two buildings are located near the office(using as Hostels)				
1	Ground floor	Column	Horizontal	28
2	Ground floor	Beam	Vertical	26
3	First floor	Column	Horizontal	28
4	First floor	Beam	Vertical	26
5	Second floor	Column	Horizontal	26
6	Second floor	Beam	Vertical	25
7	Third floor	Column	Horizontal	26
8	Third floor	Beam	Vertical	25

Similar to this technical to team is also checked the third building the results of the rebound hammer tests are as follows.

Sl. No.	Floor	Member	Direction of the hammer used	Average compressive strength
The third building, serving as academic purposes(only classrooms)				
1	Ground floor	Column	Horizontal	28
2	Ground floor	Beam	Vertical	24
3	First floor	Column	Horizontal	28
4	First floor	Beam	Vertical	25
5	Second floor	Column	Horizontal	26
6	Second floor	Beam	Vertical	25
7	Third floor	Column	Horizontal	26
8	Third floor	Beam	Vertical	25

Inferences

The conclusions are based on thorough observations and the outcomes of the evaluation tests.

1. The quality of the reinforced concrete (RC) members, including columns and beams, is deemed satisfactory for the buildings in the RCC Framed structure.
2. Minor Cracks in plastering (Non-Structural) and damp patches were observed on the walls. Repairs and re-painting have been recommended.
3. The overall condition of the buildings are satisfactory.

Summary and Concluding Remarks:

Based on the test, the concrete grades used for constructing columns, and beams may fall under M24 to M28 grade concrete.

DEPARTMENT OF CIVIL ENGINEERING SJEC VAMANJOOR MANGALURU

Dr Prakash K G
Assistant Professors
Department of Civil Engineering, SJEC

24/02/25

Dr Yajnheswaran B
Professor and Head,
Department of Civil Engineering, SJEC

Photographs of Buildings taken during testing