



**COLLEGE OF ENGINEERING TRIVANDRUM**  
**DEPARTMENT OF CIVIL ENGINEERING**

**Structural Engineering Division**

**Report No: 1**

**CET/ITC&SR No. 588/20-21**

**dt: 18-10-2020**

Ref: No.

1. Letter no. BPM/BUIL STABILITY/2020-21/039 dated 23-09-2020 from the Principal, , Bishop Pereira Memorial School, Karamoodu, Thonnakkal, Thiruvanthapuram
2. Circular no EW3/330/2019 - dt 24/01/2020 of LSGD department.

Sub: Building stability certificate for Bishop Pereira Memorial School, Karamoodu, Thonnakkal, Thiruvanthapuram - reg:

As per ref: 1 cited above the Principal, Bishop Pereira Memorial School, Karamoodu, Thonnakkal, Thiruvanthapuram has requested for issuing the Building Stability certificate of the school building, for submitting the same to Secretary, Andoorkonam Grama Panchayath, Thiruvananthapuram.

It was decided to take up the consultancy work through Centre for Industrial Training Consultancy and Sponsored Research (ITC&SR) of College of Engineering, Trivandrum. Dr. Girija K., Professor, Department of Civil Engineering, College of Engineering Trivandrum, Thiruvananthapuram visited the site on 16<sup>th</sup> October 2020 in the presence of officials of school.

**Observations**

Bishop Pereira Memorial School, Karamoodu, Thonnakkal, Thiruvanthapuram has been constructed in phases. The building site is located in Andoorkonam Village.

The structure is a framed structure with G+2 floors and no structural drawings were available with the client. The entire building consisting of class rooms, staffrooms, verandah, toilet

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portions and staircase region were inspected. Since no structural drawings were available with the client, the foundation provided for the school building was not able to be inspected. However, the superstructure elements like columns, beams and slabs were visually inspected and is noticed that they are of adequate size for static load conditions (dead load and live load conditions). No cracks were noticed in any of the structural elements.

All the rooms in the building has been physically verified and the columns, beams and slab network provided is found to be adequate for the dead and live loads acting on it. There is no spalling of concrete nor any formation of cracks in the building. No sort of distress is seen in any of the structural elements. So, it can be stated that the structural elements of the school building of the Bishop Pereira Memorial School, Karamoodu, Thonnakkal, Thiruvanthapuram District is structurally stable and fit for the loads (dead and live loads) for which it is intended.

It is recommended to inspect the building and renew the structural stability report after five (5) years. If in future, any distress has been noticed, it has to be repaired according to CPWD maintenance manual. Periodic maintenance always has to be performed per year to maintain the good condition of the structure.

### STRUCTURAL STABILITY CERTIFICATE

Based on the visual inspection conducted on 16<sup>th</sup> October 2020, it is certified that the building of the Bishop Pereira Memorial School, Karamoodu, Thonnakkal, located in Sy. Nos.673/2-57, 673/2-57-3, Re Sy Nos:19/5-1, 19/5-3, 19/2, 19/2-1, of Andoorkonam Village, Thiruvananthapuram taluk and district has been inspected by me and is found Structurally Safe and Stable for the functional requirements of the school in accordance with Codes and Practices of Bureau of Indian Standards



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