

STRUCTURAL STABILITY REPORT
MES Public School Building, Panoor

(CCE/C/176/2021-22)

CLIENT

The Chairman
Panoor MES Trust, Panoor



CONSULTANTS

Dr. Mitra D C


(Associate Professor)

Prof. Manu P Raj

(Assistant Professor)

DEPARTMENT OF CIVIL ENGINEERING
GOVT. COLLEGE OF ENGINEERING KANNUR

PARASSINIKKADAVU (P.O)-670563. Ph: 2780227, 2780226


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PANOR

June 2022



DEPARTMENT OF CIVIL ENGINEERING
GOVERNMENT COLLEGE OF ENGINEERING KANNUR

STRUCTURAL STABILITY CERTIFICATE

(MES Public School Building, Panoor)

Sub: MES Public School Building-Inspection and issuing stability certificate -regarding

Ref: 1. Letter No. NIL dated 21/03/2022 from the Chairman, MES Public School, Panoor to the Principal, Govt. College of Engineering Kannur :

2.UO Note no. CCE/C/176/2021-22 dated 24-03-2022

Vide Ref 1, the Chairman, MES Public School has requested to inspect, and issue Structural stability certificate of their School buildings located at Panoor ,Kannur District.(Building No 456/A,456/B,456/C & 456/D ,Ward NO. 18, Kunnathuparamba Grama Panchayat, District Kannur). Accordingly, **Dr.Mitra D C**, Associate Professor in Civil Engineering and **Prof. Manu P Raj**, Assistant Professor in Civil Engineering (hereafter referred as Consultants), Government College of Engineering Kannur (GCEK) were assigned as consultants through Centre for Continuing Education.

The following documents were provided for our inspection:

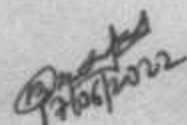
- 1) Ownership Certificate No -121/2022 for the buildings 456/A,456/B,456/C & 456/D dated 26/03/2022 issued by the secretary Kunnathuparamba Grama Panchayat

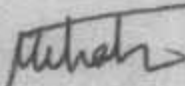
All the drawings were countersigned by the Chairman, MES Public School, Panoor

The team found that there are four building blocks namely Office block, KG block, Seminar Block, and Jubilee Block at the Panoor M.E.S Public School campus which are all multi storey framed load carrying structures with no access to reach the terrace level for two blocks. No settlement was visible in the columns and walls.

DETAILED SITE OBSERVATIONS


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The consultants visited the site on June 1, 2022, following observations were made during the site visit

In the office block, the underside of the external sunshade portion is found to have spalled off concrete at many locations. In one of the rooms, the underside of the slab was found to have minor cracks. Vegetation growth was seen at the back side of the building. During Inspection of the wall-column and wall-beam interface, minor cracks were seen in the wall. No structural damage or crack was observed in any of the structural elements.

In the KG block, no damage was observed. The supporting pillars of the bus shed were found to be not plastered. In the Jubilee block and in the Seminar block also no damage was observed.

RECOMMENDATIONS ON REPAIR

- 1) Plaster and complete the maintenance work in the all the buildings
- 2) Underside of the sunshade should be plastered and protected
- 3) Seal the cracks visible in the walls with epoxy sealants.
- 4) Vegetation cover in the sunshade should be removed. Branches of Trees touching the building should be cut and removed.
- 5) All the debris and plant waste in the sunshade should be removed.

CONCLUSIONS

Based on the visual examination and the nondestructive testing conducted by the consultants, it is concluded that the existing buildings of MES Public School, Panoor , Kannur district ,(Building No 456/A,456/B,456/C & 456/D ,Ward NO. 18, Kunnathuparamba Grama Panchayat, District Kannur) at present is in a stable condition with no severe damages. The identified defects as mentioned under Recommendations were repaired by the client. In future, it is recommended to carry out proper maintenance works at regular intervals. Structural stability certificate shall be obtained once in three years from an approved Government agency/Engineering College without fail.

Therefore, it is certified that based on visual inspection, the building of MES Public School, Panoor, Kannur district ,(Building No 456/A,456/B,456/C & 456/D ,Ward NO. 18, Kunnathuparamba Grama Panchayat, District Kannur) is found to be structurally stable **under gravity loads for conducting classes within normal wind and weather conditions**. This certificate is valid for three year from date of issue. The condition of the building needs to be reviewed every year in future. (Note: The drawings authorized by the Manager of the aforesaid

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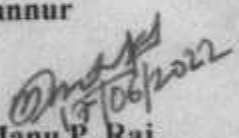
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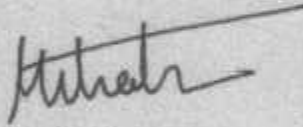
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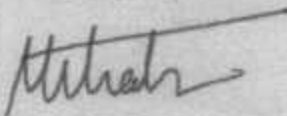
school and the Structural Engineer were taken as reference for structural calculations. Design checks were limited to the data available from the drawings provided. It may be noted that the consultants are not responsible for any alterations or modifications, if at all any, carried out by the owner in future that might affect the structural stability of the building)

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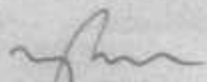
GCE Kannur


17/06/2022
Prof. Manu P. Raj
Assistant Professor
Department of Civil Engineering,
Government College of Engineering Kannur.


Dr. Mitra D C.
Assistant Professor
Department of Civil Engineering,
Government College of Engineering Kannur.


Counter signed

Head of the Dept. (Civil Engg.)
Govt. College of Engg., Kannur


Counter signed
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KANNUR - 670 56


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