

**Dr. D.S.R. MURTY**  
B.E., M.Tech. (Structures), Ph.D. (I.I.T. Kanpur)  
MICI, MISTE, MACEE, FIE (India)  
Professor, Dept. of Civil Engg.  
Andhra University, Visakhapatnam - 530 003



: (M) 9885155346  
: (R) 0891-2755346  
: (O) 0891-2511789  
E-mail : dsrmurty14@gmail.com

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**Technical report on status of the Kendriya Vidyalaya School No.2, Nausena Bagh  
Visakhapatnam**

**Date of Inspection 31-05-2019.**

**Introduction:-**

The framed structure is built more than thirty years ago. It is ground plus 2 floors building. The wing on the northern side and western side has three floors for class and laboratory purpose. The school has two floors on the east and south side. The school building was under regular maintenance and required recurring repairs of late. The Principal of the School has requested Andhra University through official letter to take up the study of the buildings for their longevity and stability as little children are studying. The total building needed structural audit by physical inspection for identifying the damage locations and extent of damage for possible repairs.

**General Observations & Study:-**

All the four sides of the school building taken up for this study are constructed more than thirty years ago. The physical observation of the school building was done to identify already developed structural damage locations and further to identify the possible new locations.

General condition/deterioration of the building from visual observation with due emphasis on the condition of structural members like columns, beams and slabs was done for all members. All the Slabs were checked for the leakage and possible spalling. Visual inspection of all columns and beams from inside and outside of the building was done. Individual strength study for concrete members was not done as majority of the members are in good condition.

Prof. D.S.R. MURTY

Residence : 8-45-14, 4th Lane, Vidya Nagar, China Waltair Colony, Behind Old C.B.1. Office  
Visakhapatnam - 530 003.


From the observations, it is found that at about ten locations, column reinforcement is exposed at lower levels due to spalling. The location of damage of columns is on the toilet side(outside), frontside and interior of the verandah(GF & FF). The areas where the column bars are exposed need to be repaired immediately to prevent further damage by corrosion. They all need repair urgently. The school front portico appears to be slightly in bad condition. The dry leaves/debris on top of portico is causing accumulation of water and prevents free flow of water. The portico needs regular cleaning. Otherwise, any time the portico may fall with out notice.

**Conclusions:-**

The total G+2 school building visually appeared to be sound from outside. Majority of mistakes noticed in our earlier inspection were attended and rectified. However, a detailed examination revealed that at some more pockets corrosion induced damage started in the building. Mere cosmetic repairs would not suffice in making the school building safe for occupation. Urgent repairs at the damaged locations with chemicals would enhance the life of the structure. If the repairs are not done immediately, the cost of repair in near future would increase exponentially and would not be cost effective as well. Further, renovation of four toilets is recommended in the ground floor. The portico needs regular cleaning to prevent corrosion of bars due to accumulation of water.

On the whole, the school building is satisfactory at present from strength and integrity point and repairs recommended urgently. The building may require structural audit after three years again.

4/2/20  
30/9/20  
Principal  
केन्द्रीय विद्यालय No. 2  
KENDRIYA VIDYALAYAN No 2  
नीमवाड़ा, भाउसेनारमुड़ा  
बिहार

  
(D.S.R. Murty)

Prof. D.S.R. MURTY  
At Post P.O. RAJOURI  
Department of Civil Engineering  
Jawahar Institute of Technology  
Vidya Nagar, Raipur