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Structural Stability Report

Principal Mrs N. Rajeswari Kendriya Vidyalaya No.2 Uppal Hyderabad requested Head Department of Civil Engineering University College of Engineering(A) Osmania University for a structural stability report for School Building in the campus. Head of the Department deputed Senior faculty Prof.V.Bhikshma Civil Engineering Department for inspection. Accordingly, site inspection has been done on 01.10.2024 at 11.0am in the presence of Principal Mrs N. Rajeswari and faculty of the school. The building is constructed in the year 2001 with G+ 1 floors.

Professor visited Kendriya Vidyalaya 2 Uppal to monitor structural components such as beams, columns, walls and slabs etc as a part of the structural audit for the building. All the ground floor class rooms are inspected and noted the certain observations. Ground floor building observed no signs of cracks and distress in class rooms. At the room number 1A nearby balcony area observed several signs of dampness and leakages from expansion joints. Near the entrance of the school building outside walls nearby outlet flow pipes, moisture penetration marks have been observed. It is suggested to clean the outlet flow pipes regularly not to stagnate tree leaves and the water which is causing penetration of water through walls and slabs. All rooms have been inspected during the visit and all ground floor class rooms are not showing any signs of distress and leakages. However, the rain water nearby water outlet pipes are observed with moisture penetration in almost all the class rooms of the ground floor building. Again it is suggested to do the needful to clean the outlet pipes on regular basis. Ground floor slab level parapets are with minor cracks on plastering which may lead to the widening of cracks in near future. Suggested to rectify the cracks by applying water proofing paints appropriately. West side of the ground floor building, two sides two columns were partially left for future extension of the block, but they are without plastering of cement mortar and without paints. Suggested to carryout plastering work and minimize deterioration of column concrete and steel.

All the rooms have been inspected and observed that there is no serious damage or crack on ground floor building. All the rooms have been maintaining well with no notable damage or

distress. Some of the ground floor corridors are having minor dampness and suggested for such locations for minor repair works. All the ground floor bath room are renovated recently and no dampness has been observed and further observed that the ceilings are also not with dampness and cracks. All the chajjas at ground floor level are to be painted to rectify minor moisture penetration.

First floor slab parapet walls that is at second slab level parapets are with more minor cracks and signs of distress, suggested to rectify cracks and dampness. First floor corridors are having signs of rain water penetrations, suggested to rectify. The first floor building well maintained but chajjas are observed to be with accumulated dust and tree leaves. Further, suggested to clean the tree leaves to avoid the water penetration and dampness. Window grills of ground floor and first floor are with corrosion signs and rust symptoms, recommended for corrosion resistant paint to all windows for both the floors.

Terrace floor of buildings has been inspected and terrace observed to be well maintained.. Some of the water tanks are not with proper outlet/excess water outlet flow pipelines, suggested for proper outlet flow arrangements to avoid seepage and dampness in terrace slab.

Observations and Conclusions

- Ground floor and first floor buildings of KV 2 Uppal are not subjected to any type of distress, crack and delamination.
- Ground floor entrance near by slabs and beams are subjected to minor dampness needs to be rectified.
- Minor damaged parts of the building at certain places needs minor repair works (Example at west side staircase of the ground floor. etc.,).
- Parapet walls of the ground floor and first floor needs to be attended for minor crack repairs and painting works.
- Terrace floor of the building has the over flow of water tanks needs outlet flow pipes to be provided.
- Observed window grills are with corrosion signs for both the floors recommended for corrosion resistant paint to be applied.
- All minor damages observed in balconies, outside walls and corridors needs repairs.
- Recommended all cracks and damages need to be attended for appropriate/proper repairs (with cement mortar plastering, painting, water proofing and with appropriate rehabilitation techniques).

Professor

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Forwarded

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