

Investigation on Structure of Building and Life of Structure

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Abstract: *In Our country there are as many as old aged structures which have reduced the capability of performance day by day as the result of climatic adverse actions and distinct weathering moves however nearby upcoming use of such deteriorating structural elements may be very drastically harmful for the living being staying out there because the overall strength of elements went down notably. As a consequence the structural audit of such structural elements becomes too much important. In this project, condition of the existing structure is assessed using NDT'S and it is proposed to extend the structure. During the construction stage, there are many tests available to assess the excellence of concrete. In the case of existing structures, to check the quality of concrete destructive tests are not possible, meanwhile, concrete quality will be assessed by using non-destructive testing (NDT) techniques such as rebound hammer test. In this present study, an attempt has been made to check the quality of concrete in an existing building using non-destructive testing methods such as rebound hammer test use and for the purpose of Structural assessment, Structural Audit can be carried out. This paper deals with the various factors related with the structural audit of the structures. But the audit contains various factors which are not similar for every structure. Structural auditing will help to implement maintenance and repair work timely which leads to prolonged life of the building and safety of the occupants.*

Keywords: Non-Destructive Test (NDT), deteriorating structure, Structural Audit, Rebound Hammer, Structural assessment

