

# Structural Audit of Cancer Hospital Building Sawangi (Meghe), Wardha

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**Abstract:** *Now a Days we are designing RCC framed structure which is heart of building with consideration of factors and various and codes which is necessary and using different techniques to assess the old RCC framed Structure. In India, safety of old buildings is one of the major issues. As the strength of old hospital buildings get reduced in due course of time it creates structural defects such as unexpected over loading, material deterioration, physical damages or structural deficiency and if further utilization of such damaged structure is done, it may lead to serious damage of life and property. As Structural Audit of old building is mandatory as per municipal authorities and Government of Maharashtra has made "Structural Audit" of all old building compulsory As Prevention is better than cure, In this present dissertation we adopted Structural Auditing of Cancer hospital building which is situated at sawangi (meghe), Wardha (Maharashtra) is constructed in the year span of 1990-1992 So at the present scenario this building is 32 year Old and required to be checked in all aspect to Assure its safety. with Rebound Hammer Test, Ultrasonic Pulse Velocity Test, Half-cell test, pH and carbonation test including Visual Inspection and assessing the stability and safety of the structure to withstand for its remaining life by diagnosis and root cause of the problems by recommending strengthening and then retesting after strengthening is done to check the required strength which is expected.*

**Keywords:** Structural Audit Non-Destructive Testing; Repair Concrete, Carbonation Test, Strengthening

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