

Title:

Condition assessment of Zoological Survey of India Building Located at Santhome in Chennai and Recommendation for remedial measures– **SSP-45241**

Deliverables

The healthiness of Civil RCC Structures of Ottappalam Municipality Bus Stand Shopping Complex is studied by carrying out NDT and PDT and recommendation for repair and strengthening measures of affected structures to put the structures back into use.

Significant Achievements:

The investigation presents a detailed condition assessment of the reinforced concrete structures at the Zoological Survey of India building in Chennai. The structural integrity and durability of the concrete were evaluated through a combination of non-destructive and semi-destructive testing techniques, including visual inspection, ultrasonic pulse velocity testing, rebound hammer testing, half-cell potential measurements, chloride content analysis, pH testing, carbonation depth assessment, and core sampling.

The investigation revealed that the overall condition and quality of the concrete are satisfactory. However, certain localized areas exhibited signs of deterioration and require targeted repair and maintenance to ensure continued structural performance and long-term durability. Based on the findings, suitable repair measures, including concrete restoration and crack-sealing treatments, have been recommended to address the identified deficiencies and enhance the serviceability, durability, and structural integrity of the affected elements.

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