**DESIGN AND PLANNAING OF AUDITORIUM**

**ABSTRACT**

The Auditorium helps for large meetings, presentations, and performances. Auditorium includes assembly halls, exhibit halls, auditoriums, and theaters. This project is about designing an auditorium using STAAD Pro tool. This tool saves time for calculations and analyzing the structure.

Project is based on limit state concept, the structure shall be designed to withstand, it should bare all loads liable to act on it throughout its life; it shall also satisfy the serviceability requirements, such as limitations on deflection and cracking. The acceptable limit for the safety and serviceability requirements before failure occurs is called a “Limit State”. The aim of design is to achieve acceptable probabilities that the structure will not unfit for the use. For which it is intended, that it will not reach a limit state.

**METHODS OF AUDITORIUM DESIGN:**

Reinforced Cement Concrete structures and structural elements may be way any one of

The following methods:

(a) Working Stress Method

(b) Limit State Method

(c) Methods based on Experimental investigations.

**LIMIT STATE METHODS:**

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