

## **CRITICAL ANALYSIS OF INTERNAL STABILITY METHODS FOR ANALYSIS OF REINFORCED SOIL WALLS**

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### **ABSTRACT**

Due to growing restrictions on right-of-way, wetlands, or other space-limiting conditions, the demand for design and construction of Mechanically Stabilized Earth (MSE) Walls are increasing worldwide, in general and India in particular. There are two stages of analysis of reinforced earth walls, namely external stability and internal stability. Internal Stability deals with the tensile and pullout failure of the reinforcement. Different Codes/ Standards are available for analysis of reinforced earth walls. A study was undertaken to compare the approaches in these Codes. Therefore, this study emphasises on quantification and comparison of metallic reinforcements by analysis using Coherent Gravity Method as per British Standard(BS-8006) and Federal Highway Administration (FHWA-(NHI-10-024)). The results are compared and reported in this paper.

**KEYWORDS:** Coherent Gravity Method, Height of Wall, Quantity of Reinforcement, Reinforced Soil Walls, Standards, Spacing of Reinforcement