

Result and Analysis on Study and Conceptual Analysis of Nanomaterial and Properties of Coarse and Fine Grained Soil

Aakash Shrivastava¹ and Raushan Kumar²

Research Scholar, Department of Civil Engineering¹

Assistant Professor, Department of Civil Engineering²

Eklavya University, Damoh M.P, India

Abstract: *This paper presents the results and analysis of an experimental study investigating the effect of nanomaterials on the properties of coarse and fine-grained soils. The research focuses on the mechanical, structural, and permeability properties of soils treated with nanomaterials such as nano-silica, carbon nanotubes, and nano-clays. The study demonstrates that nanomaterials significantly alter soil behavior, leading to improved strength, reduced compressibility, and enhanced stability in both soil types.*

Keywords: CNT, COARSE, Tensile, Flexural Strengths, SOIL, Intense Pressure