

International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 4, Issue 3, January 2024

An Analytical Research 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: The paper investigates the impact of nanomaterials on the properties of coarse and fine-grained soils. Nanomaterials, due to their ultra-small particle size and unique surface properties, offer significant potential in improving soil stability, permeability, and mechanical strength. This study aims to analyze the behavior of coarse and fine-grained soils when treated with nanomaterials such as nano-silica, carbon nanotubes (CNTs), and nano-clays.

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

