

STRESS DISTRIBUTION ON THE KAOLINITE LAYER AT THE KAOLINITE–GEOTEXTILE WITH SPECIAL REFERENCE TO GEOSYNTHATICS ENGINEERING

D. P. GUPTA¹, ARVIND DEWANGAN² AND NITISH PURI³

¹ Director- HCTM Technical Campus, Kaithal [Haryana] India

² Associate Prof.-Department of Civil Engineering,
Haryana College of Technology & Management,
HCTM Technical Campus, Kaithal [Haryana] India

³ Astd. Prof.-Department of Civil Engineering,
Haryana College of Technology & Management,
HCTM Technical Campus, Kaithal [Haryana] India

Abstract

This paper present the the stress distribution on the kaolinite layer at the kaolinite-geotextile or kaolinitefurnace ash interface, it measured with increases in footing pressure in order to assess the load dispersion angle over the soil layer. The predicted load dispersion angle is then used to estimate the bearing capacity factors of the soil layer with increases in footing deformation. This paper also focus typical vertical stress distributions measured below the interface (on the top surface of the kaolin layer) for a fill thickness of 110 mm with different footing pressures .

Keywords :1. Stress 2. Kaolinite 3. Geotextile 4. Unreinforced

Sub Area : Geosynthetics Engineering

Broad Area : Civil Engineering