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Core cutter test for soil pdf software windows 10

Other customers can calculate the price of their Single Upgrade in our Shop - just sign into your account or contact us. 6. Take the weight of cutter filled with soil. Weigh the cutter without the dolly. 3. Place the dolly over the cutter and drive the cutter into the soil with the help of rammer 4. Take out the cutter containing soil. The cutter should then be dug out of the surrounding soil, care being taken to allow some soil to project from the lower end of the cutter. New feature is the use of the right mouse button and selection of elements using common standards. The first analysis should be done in the Slope Stability program, where the active and passive forces acting on pile wall are computed. Core Cutter apparatus consisting of steel cutter, 10 cm (4") in diameter and 12.7 cm (5") high. Email This Post This test is done to determine the in-situ dry density of soil by core cutter method as per IS: 2720 (Part XXIX) - 1975. The apparatus needed for this test is i) Cylindrical core cutter ii) Steel dolly iii) Steel rammer iv) Balance, with an accuracy of 1 g v) Straightedge vi) Square metal tray - 300mm x 300mm x 40mm vii) Trowel Procedure Determine The In-Situ Dry Density Of Soil By Core Cutter Method i) The internal volume (V) of the core cutter in cc should be calculated from its dimensions which should be measured to the nearest 0.25mm. Advanced embedding details, examples, and help! GEO5 features many changes and improvements. 6. Applications of Field Density Test Density is a measure of the strength of the soil. It is useful in estimating bearing capacity of soils, settlement of footings, earth pressure behind the retaining walls and embankments. The field compaction is controlled by the density. The relative density of cohesionless soils is determined by knowing the dry density of soils in its natural, loosest and densest states. The determination of voids ratio, porosity, and degree of saturation need the help of the density of soils. This method is comparatively accurate one in this method a core cutter (cylinder with cutting edges) is pushed into the ground with rammer blows. Steel Dolly / collar, 2.5 cm high. Ans: Core Cutter method of determining field density of soil is comparatively accurate one. There are several methods for determining the density of soil in place, i.e., Sand Replacement Method, Core Cutter Method. 1. Observations and Calculations of Core Cutter method Dry density $\gamma_d = \gamma / (1+w)$ Where w = Water content This method is suitable for soft, fine-grained soils. The common methods of determination of field density are core cutter, sand replacement, and rubber balloon method. A dolly is placed over the cutter to prevent damage to the edges of the cutter. This method is suitable for soils having cohesion and free from gravels, boulders, and cobbles. Dig out the cutter containing the soil from the ground. The field dry density of the soil is 1.20 gm/c.c. Precautions. Clean and level the site. 3. In certain cases, it is necessary to determine the density of soil either as it exists naturally in the ground or as it may be compacted in the fill. Knife. However, here we will discuss Core Cutter Method of Determining Field Density. Place the dolly over the cutter and ram it gently into the soil until about 1 cm of the dolly remains unfilled. is used. Balances sensitive to 1 gm & 0.1 gm. Determination of field Density test of soil by Core Cutter Method. Core cutter method apparatus The dry density of soil is computed as follows: Weight of cutter = W1 Weight of soil + cutter = W2 Wt. of soil = W2-W1 Volume of cutter = V Now, Bulk density $\gamma = (W2-W1) / V$ Dry density $\gamma_d = \gamma / (1+w)$ Apparatus for core cutter method Cylindrical core cutter (ht= 2.74 cm, dia= 10 cm), Steel dolly (2.5 cm high and 10 cm internal dia), Steel rammer, Balance -2 Nos of accuracy 0.01 g and 1 g, Others-Palette Knife, Straight edge, Spade. The ends of the soil core should then be trimmed flat in level with the ends of the cutter by means of the straightedge. What is Dry density of Soil? Ans: The thickness of fill layer of embankment should be equal to the thickness of core cutter. If not already known. v) The soil core should be removed from the cutter and a representative sample should be placed in an air-tight container and its water content (w) Advertisements REPORTING OF RESULTS Bulk density of the soil $\gamma = (W2 - W1) / V$ g/cc Dry density of the soil $\gamma_d = 100\gamma / (100+w)$ g/cc Average of at least three determinations should be reported to the second place of decimal in g/cc. Core Cutter method of determining field density. Dry density of compacted soil is a measure of the amount of the compaction achieved during the construction. Knowing the field density and field moisture content, the dry density can be calculated. The unit weight of the soil in its field condition is known as field density or in-situ density. You'll also like: (Visited 17,785 times, 20 visits today) Core Cutter Method of Field Density test is conducted in the field to know whether the specified compaction is achieved or not. $\gamma =$ weight of soil/volume of mold. We have also unified the visualization settings with the settings of picture visualization. 7. 8. Repeat the test at two/three locations and find the average density. Moisture containers. In this method, a cylindrical core cutter with a dolly of known dimensions as shown in fig. 5. Remove the dolly and trim off the excess soil above the edges of the cutter. Wet density and the dry density of the soil is then computed. Edges of the core cutter should be leveled with a straight edge, and there should not be any cavity in the soil. Cylinder is embedded into the ground for its full height and is taken out. CPT - Automatic classification of soil behavior type by Robertson 1986, 2010 (Pile CPT) DMT - Analysis of settlement of shallow foundations (Spread Footing), calculation of subgrade reaction modulus (Sheeting Check) PMT - Calculation of subgrade reaction modulus (Sheeting Check) Standards Support • Dutch National Annex NEN-EN 1997-1/NB • Belgian National Annex NBN EN 1997-1 ANB • French Standard NF P 94-282 (excavation design) • Soil classification according to Chinese standards • Spring method by JJ 120-2012 (China) Fine Maintenance subscribers can download and install the new Edition for free. The fill soil is then compacted mechanically in the field by field compaction methods to achieve the laboratory maximum dry density (or an acceptable percentage there of) has been achieved, in place soil, the density tests must be performed in the field on compacted soil. Q.2. Which method is more accurate between core cutter and sand replacement method to determine field density of soil? Read Also: Liquid Limit Test of Soil by Casagrande Method. Join TheConstructor to ask questions, answer questions, write articles, and connect with other people. We are preparing for touch controls and high resolution displays. Procedure: 1. New features brought by GEO5 2016 Program Controls and Appearance Comes out from modern trends, where we try to select the best, and leave proven procedures. iv) The cutter containing the soil core should be weighed to the nearest gram (W2). Weigh the cutter full of soil. After determining the water content (m.c) of soil, the dry density of soil is computed as: $\gamma_d = \gamma / (1+m.c)$ Test Standard: AASHTO T191-86 ASTM D1556-82 BS1377: Part 4. A sample proforma for the record of the test results is given below If you have a query, you can ask a question here. Observation and Calculation. 3. Take a sample of the excavated soil in the weighed moisture container and place it in the oven for water content determination. Rammer, Oven. Take a look at a short intro to the new edition or simply try our Demo version. 7. Take some representative sample for water content determination by the oven. No soil should fall down from the core cutter before weighing it. In practice, representative samples of the soil that is to be used for fill material are subjected to the laboratory compaction test to determine; the optimum moisture content and design shear strength, resistance to future settlement, and permeability characteristics. 5. iii) A small area, approximately 30cm square of the soil layer to be tested should be exposed and levelled. 2. 8. When you join you get additional benefits. 2. Find the weight of the core cutter (without dolly). Straight edge. The weight of the soil completely filling the core cutter is then determined by direct weighing, and the moisture content of the soil is determined by running moisture content test. Log in Want more? The surplus soil at both ends is trimmed and the weight of the cylinder is found out. Here we briefly discuss the Core Cutter method. The steel dolly should be placed on top of the cutter and the latter should be rammed down vertically into the soil layer until only about 15mm of the dolly protrudes above the surface, care being taken not to rock the cutter. ii) The core cutter should be weighed to the nearest gram (W1). Measure the inside dimension of the cutter and calculate its volume. 3D Visualization and Settings We have implemented the option to select between 2D and 3D visualization of the structure in selected programs and input modes. The method of visualization settings were completely re-organized, which enables easier and more precise work with the structure visualizing, and many other options. From the known dimension of the cutter, volume and the moisture content of the soil is determined. Apply the strokes on the collar. The method is practicable only at places where the surface of the soil is exposed and the cutter can be easily driven. Have an account? No stroke should be applied on the soil inside the core cutter. Remove the dolly and trim off soil extruding from the ends. 4. Procedure of Core Cutter method 1. Find the volume of core cutter by measuring its internal dimensions. New program Anti-Slide Pile The Anti-Slide Pile program is used for design of pile walls stabilizing slope movement or increasing safety factor of the slope. The principal use of the in-place soil density test is in the documentation of field compaction. Q.1: What is the range of thickness of fill layer in the preparation of embankment? Next, the load and slip surface position are transferred to the Anti-Slide Pile program, where other analyses are performed (determination of internal forces on pile, pile deformation and dimensioning of pile reinforcement). Apparatus: 1. In the former case, this density of soil in place may be used to estimate the comparative strength of the soil. Result. The cutter is then dug out of the ground, any soil protruding from its ends is trimmed off so that the volume of the soil contained within it is just equal to its own volume. Controlling the programs is now much easier. Improvements in the FEM program The FEM program features several minor, but important new features, that make the work significantly easier and make the construction modelling more precise. Q & A about Field Density Test by Core Cutter Method. • Input of variable deformation modulus by depth • Determination of areas where no plasticity can occur (overrule of plasticity conditions) • Determination of region, where the values of f_c are reduced when calculating slope stability • New mesh generator Geotechnical Improvements • Automatic determination of the coefficient of pressure reduction for soldier beams • Verification of user defined steel cross-section • New types of pile sheeting • Rectangular piles (Sheeting Check) Field Tests Support The new edition supports several new analysis methods using field tests. In the latter case, it may be used to document the results of field compaction to meet contract specifications.



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