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## Standard proctor compaction test pdf 2019 free online free

It decreases the permeability and prevents settlement of the soil. In compaction, the water is added in appropriate proportion which increases the density.[/su\_box]Why to Perform Standard Proctor Test? Proctor the compaction of soils depends on following factors: -As I have explained above that the method of compaction for gravelly soil is different than that of cohesive soils. Mix the soil sample thoroughly by rubbing it in your hand palm portion by portion.Attach the base plate with the proctor mold and weigh it on the physical balance and note the reading as W1. A research study with an online vocabulary test for people in the Netherlands went viral after nationwide television coverage. For example, 78 percent of the words corresponds to roughly 48,000 words. The handle of the hammer is raised to preset height of fall and is then allowed to fall freely for the blow. By age 60, that same person would be expected to know about 48,000 words, based on the assumption that people learn a new word every two days. It reduces the void ratio and thus the damage from frost could be perverted or heaving whatever.For granular and coarser soils, vibratory rollers mostly steel drum rollers are used while pneumatic tired rollers are used for aggregates of asphaltic concrete.For clayey / cohesive soils, sheep foot rollers are used for producing a kneading effect resulting in compaction and densification.We know a soil matrix has three basic components:Solid partVoids filled with waterVoids filled with airThese soil solids are arranged in a way that voids or capillaries are produced within it. In compaction the soil solids are rearranged in a denser arrangement eliminating the voids and air in it. The test results are not presented in estimated vocabulary, but in percentages. It only takes 4-5 minutes to take the test after you answer one screen of demographic questions, most of which are about your native language and how many languages you speak. Proctor showing that for a given compaction effort, the density of soil depends on the type of soil and moisture content.We know that the conditions of site and that of the laboratory are different altogether. In response to that interest, the researchers developed English and Spanish versions, according to International Business Times. You are also asked to rate your fluency in English – for the English test. In consolidation, the soil is compressed thereby expelling the water from the voids. Two sizes of molds are used either of 4 inches internal diameter or 6 inches.Standard compacting rammer of 5.5 lbs weight is used such that having a height-of-fall of about 12 inches.Standard Proctor Test ProcedureFour to five representative samples of soils are obtained each about 2.3 kg to 5.9 kg. As the words appear on the screen, you hit the F key for nonwords and the J key for real words. Watch and learn.[su\_youtube url=" width="460" autoplay="yes"]report this ad R. The English vocabulary test consists of 67 real words and 33 nonwords. The nonwords consist of letter sequences that look like real words, but they are not. The objective of compaction and densification is to re-organize soil matrix in a way that less voids are there reducing the volume of the soil and thereby increasing the overall density.The method of compaction described above i.e. with rollers is termed as mechanical compaction or mechanical stabilization. So after addition of water, when soil is compacted, the soil particles are easily re-arranged and a denser arrangement is formed.If the water is added beyond optimum water content, it starts replacing the soil solids thereby reducing the density. Compaction effort means the type of method used for soil compaction. The obtained finer fraction should be more than 3 kg or more. As reported by Frontiers in Psychology, based on the more than 1 million tests of American English, an average 29-year-old native speaker of American English knows about 42,000 words. It can be static or vibrating one depending on the type of stress applied.[su\_box title="DID YOU KNOW?" box\_color="#4be97f"] What is the difference between compaction and consolidation of soil? In the weekend after the TV exposure, more than 300,000 Dutch speakers took the test. You can download this excel file for standard proctor test by clicking the button below.[su\_document url=" width="440" height="440" ][su\_button url=" target="blank" style="bubbles" size="7" icon="icon: arrow-down"]Download the Excel Spread sheet/[su\_button]Finding Difficulty in Plotting Graph on Excel?If ever you have finding difficulty in plotting the curve between Dry Density and Moisture Content than this explainer video is for you. For 4 inches diameter mold 25 blows are required while for 6 inches diameter mold 56 blows are required.Fill the gaps and voids on top of the sample by surcharge material and remove the collar of the sample mold carefully.Using the straight edge, remove the excess soil to have a sharp and flush soil surface with that of the mold.Weigh the compacted soil along with that of proctor mold and base plate and note it as W2.Extract and remove the sample after removing the base plate for the next trial. However, the compaction effort does not have any significant effect on the value of optimum moisture content.Now that I have explained the basics of soil compaction and background of the standard proctor test, so let's move on to the procedure.Standard Proctor Test and Optimum Moisture Content Standard proctor test is carried out toDetermine the relationship graph between moisture content and dry densityDetermine the maximum dry density of soil that must be achieved in the field.Determine the optimum moisture content of the soilEstablish a moisture range that can ensure minimum compaction effort for achieving the desired density.The one-liner of the test is, that soil is mixed with increased moisture content and with the help of proctor apparatus the weight of soil and thus density, in standard cylinder of known volume, is determined.Apparatus for Standard Proctor TestCompaction Molds to hold Soil SampleTrowel or Rubber MalletRammer or CompactorStraight EdgeA tray for soil mixingDrying OvenSieve No. 4Moisture CansWeighing balance that has 1 gram readabilityThe standard compaction mold used is a metal cylinder with detachable base plate and a collar of 2 inches thickness. Editors' Recommendations Maximum dry Density of soil is determined in the laboratory with the help of Standard Proctor Test standardized by ASTM D698 and AASHTO T99.So this read explains in depth, the significance, background, apparatus and procedure of the standard proctor test.Standard Proctor TestBasics of Soil CompactionIt is worth mentioning, that densification or compaction of soil at site is generally carried out with the help of roller compactors.The improvement and enhancement of soil by compaction is mandatory in building, highway and airport runways projects. aga/ta / 123RF Stock PhotoReady for a test? The lumps are broken apart and is dried in air.After preparatory works, sieve the soil sample from a U.S sieve No. 4 to obtain fine particles and remove coarser proportion. It includes, the number of passes, type of stresses i.e. static, vibratory or dynamic and weight of the roller.As stated in this research, the compaction and the average relative breakage of the soil mixture has a non-linear relation with increase of compaction effort. The height of mold is 4.585 inches. In order to evaluate the degree of compaction achieved at site, the field density carried out by field density test sand replacement method or any other method, is compared with the laboratory density determined by standard proctor test or modified proctor test.Standard proctor test or proctor compaction test was the original test devised by an American engineer Ralph R. You aren't actually required to know the meanings of words presented in the test. You just have to decide whether or not they are words. The sample must be obtained cautiously and the amount must be enough to suffice the requirements of 4 to 5 repetition while filling the molds as well as the containers for the moisture content determination.The soil samples are pulverized and tilled with a pulverizing tool and a mallet. To take the test you have to agree that your demographic and language information can be used in the research. This limiting value of moisture content is termed as optimum moisture content.Water, when added to the soil matrix lubricates the soil solids thereby easing their rearrangement and restructuring. Match the plotting points with a free hand curve and determine the optimum moisture content corresponding with that of the maximum dry density.[su\_table responsive="yes"]No. of SampleNos.12345Volume of Moldm30.000940.000940.000940.000940.00094Weight of Hammerkg2.52.52.52.5No. of blows per layerNos.25252525No. of LayersNos.33333Dia of Conem Weight of Empty Mold + Base Plate W1kg1.3681.3681.3681.368Weight of Soil Sample + Mold = W2kg3.4673.4823.4973.4623.436Weight of Soil Sample only = W3kg2.0992.1142.1292.0942.068Bulk Density of the Soil Sample = Ybkg/m32222.0572237.9362253.8152216.7642189.239Weight of Tingm29.3129.4429.529.4329.38weight of tin + wet soilgm156.64152.65130.18159.88132.71weight of tin + dry soilgm140.71138.12119.17147.11123.06weight of water contentgm15.9314.5311.0112.779.65moisture contet%14%13%12%11%10%Dry Densitykg/m31944.0601974.0192007.3461999.7601984.786[/su\_table]ResultsShow the graph and write down the values of Optimum Moisture Content (OMC) and along with that note down the maximum dry density (MDD). Moisture Density Relationship GraphWait! Its Not yet OverYes Dear, Its not yet over. In clayey soils, the strength of soil is mainly because of adhesion of soil solids while in gravelly soils the strength is due to friction between soil solids. The bearing strength of the soil and thereby shear resistance lies heavily on its compaction. For initial trail 5% water is enough. Whereas, in field the soil is compacted in bulk and there are some many other factors that dive in creating a unique and uncertain situation.Factors Effecting Soil DensityAccording to R. Because I have made a ready to use excel sheet for you to just put in values of standard proctor test and it will automatically calculate the optimum moisture content and the maximum dry density along with plotting of graph. The lab provides an enclosed and controlled environment where soil is compacted manually in small quantity. "As we made the list ourselves and have not used a commercially available dictionary list with copyright restrictions, it can be made available to everyone, and all researchers can access it." If you'd like to see your own English language proficiency, you can take the test as many times as you like – you'll see different word/nonword sets each time. A sample extruder might be used for this.Fill the moisture cans from the same soil and determine the moisture content.The weight of the soil sample is then divided by the standard volume of the mold for determination of wet or bulk density.By using the moisture content, the dry density can be calculated.Repeat the procedure for 4-10 times depending on your experience and accurate guessing till you find a decreased weight of the soil sample indicating a clear reduction in density of the soil sample.[su\_box title="IMPORTANT" box\_color="#4be97f"]You can add 4% initial water content for the coarse-grained soil and for fine grained soil you can take 10% moisture content as initial water content.[/su\_box]Calculation and PlottingW1 = weight of the empty standard proctor mold + base plateW2 = weight of the standard proctor mold + base plate filled with compacted soil sampleW3 = weight of the compacted moist soil only = W2 - W1Dm = diameter of the moldHm = height of the moldVm = volume of the mold = (πDm<sup>2</sup>/4 ) x HmYb = bulk density of soil sample = W3 / Vmm = moisture content of the soil sampleYd = (Yb) / (1 + m)Repeat the above calculation to determine the dry density for number of moisture contents at least 3 to 4 times so that the graph can be plotted.Take moisture content on abscissa and dry density on ordinate, plot the points on a graph as a curvilinear relationship. Professor Marc Brysbaert of Ghent University in Belgium is the leader of the study. "At the Centre of Reading Research we are investigating what determines the ease with which words are recognized." Brysbaert said. Compaction is actually a broader term and is carried out with the help of rollers or compactors. Spread the sample in a flat pan uniformly.Add water in the sample by sprinkling with a water bottle uniformly. In composite well graded soils, both the factors affect the compaction degree.So it is without a doubt that the nature of soil including its grading, plasticity would be dictating the degree of compaction.For a given type of soil and keeping compaction effort fixed, the density of soil increases with moisture content until a limiting value. The diameter and height should be precisely noted for calculating the volume of the mold.Attach the extension collar on the top of the mold and start filling the soil sample in the mold.The soil must be poured in three equal layers with each layer compacted uniformly by standard proctor hammer.

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