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Informed Consent Form

FORM 2 OF 3

This form describes in detail how the study works and your role in it. Your signature means you understand and agree to participate.

BEFORE YOU SIGN, YOU SHOULD KNOW

1

This study aims to advance understanding of how activity and your habits can contribute to a healthier heart.

2

As a participant, you'll be asked to complete occasional, short surveys and record your workouts on your Apple Watch.

3

The study will last at least 5 years. You'll be asked to renew your consent every 2 years.

4

Participation is voluntary. You can leave the study at any time and stop sharing your data at any time.

5

The study will do its best to ensure your data is kept confidential and secure. As with all studies, complete confidentiality cannot be guaranteed.



Los angeles abrasion test discussion. La abrasion test procedure.

Dig Starting Bore Hole First, dig the starting borehole with boring equipment. Before conducting the test, we have to decide the total depth of penetration bore and depth interval to carry the test and collect the sample the same. For any intermediate value of ‘ ϕ ’, make linear interpolation. Standard Penetration Test Lab Manual Free download standard penetration test lab manual from below link, Standard Penetration Test Lab ManualDownload SPT Test Report Free download standard penetration test lab report or spt test report format from below link, SPT Lab Test ReportDownload You May Also Like: FAQs: SPT Test The Standard Penetration Test (SPT) is one type of in-situ soil test and It is conducted to determine the geotechnical engineering properties of subsurface soils, especially for cohesionless soil. Count the numbers of blow required to reach or drive depth of 150 mm (6 in).5. Bearing Capacity Factor Step: 5 Find Out Shape Factor Calculate shape factors (i.e. sq & sY) using the formula given below. Driving Head (Anvil) It is used to stop the hammer on a certain point. (Generally, depth of bore is up to groundwater table or up to hard strata below ground surface.) We can decide the intermediate test depth of every 1m. Standard Penetration Test Procedure Spt Test procedure on site as follows, 1. Step: 2 Find our Angle of Shearing Resistance Find out the angle of sharing resistance by correlating the above SPT values from a given graph. The Test shall be made at every change in the stratum or at intervals of not more than 1.5 meters whichever is less. Assemble Equipment As we place the sampler rest on the bottom of the borehole, it's time to conduct the SPT test. SPT Test required following equipment, Drilling EquipmentSplit Spoon SamplerDrop HammerDriving Head (Anvil)Guiding Rod SPT test procedure as follows, 1. The measured N-value is also called standard penetration resistance of the soil. Soil Sample Collection: Now, collect the soil sample from the borehole, The number of blows required by hammer to dig 30 cm depth in SPT test is known as N- Value of Soil. It can be used to determine the properties of cohesive and cohesionless soil. Purposes of Standard Penetration Test The spt test is conducted mainly for two purposes, Soil sample to identify the type and nature of the soil at various depths.To determine penetration resistance of soil at various depths this is used for geotechnical design purposes. 2. So, SPT is conducted at every one meter of boring below ground level and soil samples are collected at the same depth. Under such situations, it may not be necessary to give any blow to the sampler and “N-value” should be indicated as zero. Assemble the Sampler: Fit the soil sampler named as split spoon sampler with the drilling rod and lower it into the borehole.3. Assemble Equipment: Keep ready test equipment the Hammer, Anvil and guiding rod and assemble them with each other properly.4. Conduct SPT Test: Firstly drive the drop hammer on the bottom of a borehole by blows from the slide hammer with a mass of 63.5 kg falling through a distance of 750 mm (30 in) at the rate of 30 blows per minute. Drop Hammer This tool is used to drive the sampler into the borehole. Dig Starting Bore Hole up to 1m first..2. Angle of Shearing Resistance Step: 3 Find out Effective Surcharge Find out the value of effective surcharge by multiplying the effective unit weight of soil with the depth of the foundation i.e. $q = Y \cdot Df$ Where, q = Effective surcharge at foundation base level, in kgf/cm^2 Y = Unit weight of soil, in kgf/cm^3 Df = Depth of foundation, in cm Step: 4 Find out Bearing Capacity Factor Calculate the corresponding values of bearing capacity factors (i.e. Nq & NY) by correlating the values of angle of shearing resistance from the table given below. The mass of it is 63.5 kg (140 lb). 5. The test is extremely useful for determining the bearing capacity, density, and angle of shearing resistance of any soil. Shape Factor Where, B = Width of foundation, in cm L = Length of foundation, in cm Step: 6 Find Out Depth Factor Calculate depth factors (i.e. dq & dY) using the following formula. If a number of blows are required to drive the sampler to a depth of 150 mm excess of the value 50, it is considered as a refusal and the test is discontinued. Conduct SPT Test Firstly drive the drop hammer on the bottom of a borehole by blows from the slide hammer with a mass of 63.5 kg falling through a distance of 750 mm (30 in) at the rate of 30 blows per minute. The split spoon sampler has an outer diameter of it is 50.8 mm and an inside diameter is 35 mm with a length of around 650 mm (26 inches). The test may be made at lesser intervals if necessary or specified. $dq = dY = 1$ (for $\phi < 100$) $dq = dY = 1 + 0.1(Df/B)(N\phi)1/2$ (for $\phi > 100$) $N\phi$ is calculated using the following formula $N\phi = \tan 2[(n/4) + (\phi/2)]$ Step: 7 Calculate Inclination Factor Calculate inclination factors (i.e. iq & iY) using the formula given below Inclination Factor Where, α = Load inclination to the vertical in degrees ϕ = Angles of shearing resistance in degrees Step: 8 Calculate Correction Factor Find out the correction factor for the location of the water table using the following formula $W' = 0.5 + 0.5[Dw/(Df + B)]$ Where, W' = Water table correction factor Dw = Depth of water table, in cm Df = Depth of foundation, in cm Step: 9 Calculate Bearing Capacity of Soil: Calculate net ultimate bearing capacity by using the below equation. How to Find Bearing Capacity of Soil from SPT Test Result The following are the step to find the bearing capacity of soil from SPT Values or standard penetration test calculation. Mark the distance of 150mm on the drilling rod to observe penetration details. Step: 1 Take Average of Penetration Value Make necessary correction SPT values and take an average of corrected SPT values from the base level of foundation to a depth equal to 2 times the width of the foundation. SPT Test is most widely used to check various parameters and properties of soil on the construction site. Soil Sample Collection Now, collect the soil sample from the borehole, Split Spoon Sampler Take out a split sampler from the borehole.Carefully, separate the split spoon sampler from the drilling rod and remove any excess soil from the bottom, also drain water if it contains.Slowly open the one side of the split spoon sampler to expose fresh material and any stratification.Record the length, composition, color, stratification, and condition of the sample.Remove soil specimen from split spoon sampler and pack it in a plastic bag. Similarly, again drive sampler in soil and count the blows needed to penetrate the second and third 150 mm (6 in). You can download the paper by clicking the button above. The entire sampler may sometimes sink under its own weight when a very soft sub-soil stratum is encountered. Bearing Capacity of Soil Where, qd = It is Net ultimate bearing capacity of foundation (kgf/cm^2) q = Effective surcharge at base level of foundation, in kgf/cm^2 (Refer step-3) Nq & NY = Bearing capacity factors (Refer step-4) sq & sY = Shape factors (Refer step-5) dq & dY = Depth factors (Refer step-6) iq & iY = Inclination factors (Refer step-7) W' = Correction factor for the location of the water table (Refer step-8) B = Width of foundation, in cm Y = Foundation soil bulk unit weight, in kgf/cm^3 . If the sampler is driven less than 450 mm (total), then the “N-value” shall be for the 300 mm of penetration (if less than 300 mm is penetrated, then the report should specify the number of blows and the depth penetrated). Standard Penetration Test (spt test) In this test, the total sum of the number of blows required to drive the sampler 150mm (6 in.) of penetration is termed the “standard penetration resistance” or the “N-value”. Assemble the Sampler Once the boring of the hole is done up to desired depth (1 m depth we decided) remove the drilling tools from the borehole and clean all the disturbing materials. Drilling Equipment We can use any drilling equipment which provides a good and clean borehole, which is at least 5mm larger than the Split Spoon Sampler. After that fit the soil sampler named as split spoon sampler with the drilling rod and lower it into the borehole. Now, the rest split spoon sampler attracted with drilling rod at bottom of the drilled borehole of undistributed soil. Now, Count the number of blows required to reach or drive depth of 150 mm (6 in). Split Spoon Sampler This is a thick-walled sample tube. Standard Penetration Test Equipment Following are the equipment used for the spt test, 1. The standard penetration test conducted as per IS -2131:1963 Watch Video: Standard Penetration Test Procedure Guiding Rod The Guiding rod just guides the hammer to the anvil. Loading PreviewSorry, preview is currently unavailable. For any building foundation, design and construction soil testing are essential. The Standard Penetration Test ASTM D1586-11 Significance Soil Penetration Test By performing an SPT test we can find out, Angel of shearing resistance of cohesionless soils.The relative density of cohesionless soils.Unconfined compressive strength of cohesive soils. Split Spoon Sampler This tool has an assembly of a steel tube, coupling, driving shoes, a check valve, and venting ports. The split spoon sampler collects only undisturbed soil samples. Keep ready test equipment the Hammer, Anvil, and guiding rod and assemble them with each other properly. The Standard Penetration Test (SPT Test) is one type of in-situ soil test and It is conducted to determine the geotechnical engineering properties of subsurface soils, especially for cohesionless soil. 3. 4. Let's take borehole depth up to 10m.

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