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International Conference on Environment and Technology IOP Conf. Series: Earth and Environmental Science 469 (2020) 011001 IOP Publishing
doi:10.1088/1755-1315/469/1/011001 1 Rector Welcoming Remarks It is our great pleasure to welcome you to International Conference of Innovations on Environment, Technology in Society (ICE-Tech 2018) which will be held during 10-11 August 2018, in Pekanbaru, Indonesia with the theme "The Challenges of Environment and Technology in the Industrial Revolution 4.0".

This conference is hosted by Universitas Lancang Kuning, Indonesia in collaboration with Dayeh University in Taiwan, University Malaya, Kuala Lumpur, Universiti Teknologi Malaysia and Universiti Kebangsaan Malaysia. The International Conference ICE-Tech 2018 focusing on all aspects of Environment and Technology that strongly related to all aspects of life. The aims are to bring together researchers, scientists, practitioners and scholar students to exchange and share their experiences, new ideas, and research results about all aspects of Environment and Technology in society Attending ICIETiS 2017 means you also will experience Pekanbaru, a beautiful city renowned for its international flavor and inspiring diversity. Located on Sumatera island One of the world's You'll find a friendly population, world-famous gastronomy, and an atmosphere of celebration.

ICE-Tech 2018 will be an exceptional conference for sharing the latest academic insights as well as experiencing the unique culture of Malay hospitality in Pekanbaru City. We hope you will join us for a symphony of outstanding social sciences, and take a little extra time to enjoy the spectacular and unique beauty of this region. We thank you for your participation and look forward to seeing you in Pekanbaru, Indonesia. With best wishes Assoc. Prof. Dr. Hj. Hasnati, MH International Conference on Environment and

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Background In response to the increasing research and issues on the field of **environment and technology in Southeast Asia, Universitas Lancang Kuning, Indonesia** in collaboration with **Universiti Teknologi Malaysia and Universitas Kebangsaan Malaysia** will conducting **International Conference on Environment and Technologies (ICE-Tech 2018)** focusing on theme " **The Challenges of Environment and Technology in the Industrial Revolution 4.0** ". This Conference provides a chance for academic and industry professionals to discuss recent progress in the area of Environment and Technology.

We expect that the conference and its publications will be a trigger for further related research and technology improvements in this important subject. ICE-Tech 2018 **will be the most comprehensive conference focused on the various aspects of advances in Interdisciplinary of Environment and Technologies. The** conference will take place in

Pekanbaru, Indonesia, on 10-11 August 2018. B. Scope and Themes ICE-Tech 2018 will be the most comprehensive conference focused on the various aspects of advances Interdisciplinary on Environment and Technology.

It will cover vital issues in Environment and Technology under multiple sub-themes such as Agriculture, Forestry, Computer Sciences and, Engineering AGRICULTURE: Agribusiness, (off-on farm) , Agricultural Institutional, Agricultural Policy, Sustainable Agriculture, Organic Agricultural, Agricultural Technology, Marketing of Agriculture, Agricultural Extension and Communication, Agro industry FORESTRY: Forest Management, Forest and Climate Change, Forest Bio-diversity, Ecosystem Service and Conservation, Silviculture and Agroforestry, Forestry and Environmental technology, Forest biotechnology and tree improvement COMPUTER SCIENCES: Artificial intelligence, Digital Humanities, Computer Vision, Robotic, Mobile Application, Network Security, E-Government, E-Commerce, Data-mining, Geography Information system, Cloud and Grid Computing, Bio Informatics, Decision, Support System ENGINEERING: Architectural Studies, Sustainable Architecture, Architecture Urban Conservation, Environment-Friendly Construction and Development, Safety Management, Heritage Culture Tourism, Urban Planning, Building and Construction Technologies, Mechanical, Energy and Machine Engineering, Electronics, System and Statistics Engineering, International Conference on Environment and Technology IOP Conf. Series: Earth and Environmental Science 469 (2020) 011003 IOP Publishing doi:10.1088/1755-1315/469/1/011003 2 Renewable Energy Technologies, Electric Drive and Energy Conversion, Information System and Management, Mechatronic, Robotic and Automation APPLIED MULTIDISCIPLINE: Technology in Education, Applied Technology in Society, Environmental Law, Environmental Literacy, Cultural & Environment, Health and Environment, Public Environment. Environmental Policy. More information : <http://icetech.unilak.ac.id/Tracks.htm> C.

Important Dates DESCRIPTIONS DEADLINES Abstract Submission Due date: 3 August 2018 Notification of Acceptance: 5 August 2018 Full Paper Submission: 8 August 2018 Conference Day: 10-11 August 2018 D. KEYNOTE SPEAKER Prof. Dr. Weishen Wu, Ph.D (Dayeh University, Taiwan) Prof. Dr. Herri, MBA(LL2-Dikti Wil. X) Prof. Ghamal Zakaria (Universiti Brunei Darussalam) International Advisory Board Prof. Dr. Joran (Linkoping University, Swedia) Prof. Dr. Amran bin Hamzah (Universitas Teknologi Malaysia, Malaysia) Prof. Dr. Khaerurijal (Institut Teknologi Bandung, Indonesia) Prof. Dr. Asep Saefuddin (Institut Pertanian Bogor, Indonesia) Prof. Dr.

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Series: Earth and Environmental Science 469 (2020) 011005 IOP Publishing doi:10.1088/1755-1315/469/1/011005 1 Peer review statement All papers published in this volume of IOP Conference Series: Earth and Environmental Science have been peer reviewed through processes administered by the proceedings Editors. Reviews were conducted by expert referees to the professional and scientific standards expected of a proceedings journal published by IOP Publishing. International Conference on Environment and Technology IOP Conf.

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doi:10.1088/1755-1315/469/1/012095 1 The Correlation Between Cone End Resistance (qc) And California Bearing Ratio (CBR) Of Land In Banjarbaru Rida Respati 1 & Hendra Cahyadi 2 1,2Department of Civil Engineering, Faculty of Engineering, Muhammadiyah Palangkaraya University, Palangka Raya 73111, Indonesia 1 Email: sipilump@yahoo.co.id 2 Email: irarizqonroyan@gmail.com Abstract: All this time, the score of CBR is calculated according to qc score.

Generally, planner usually refers to graph / nomogram which published on literature book, but the graph / nomogram on the book may not probably able to apply in all areas, including Banjarbaru. In this particular research, it aimed to make the graph or equation between CBR and Cone test in the cone area of 0.5 in². The both tests used the same sample of water contents and density. The samples were taken in four areas in Banjarbaru; Balitra, Jalan Semeru (Semeru Street), Mandiingin Circuit, and Banjarbaru Asri Housing. There took soil samples in three points of every areas.

By the test, obtained the correlation between CBR and Cone End Resistance (qc) on Banjarbaru area: $CBR = 0.0545 qc + 2.618$ and the qc score is between 50 kg/cm² to 300 kg/cm². Keywords: CBR, qc, compaction, water content. 1. Introduction The checking of CBR score is usually taking too long time if through the laboratory test. To make the shorten time, the planner usually conducts the CBR test in the field directly. The standard of CBR test type is, by using pistons. Because the large of pistons body, it need a heavy weight to push the piston into the certain depth of soil. Another test of CBR is using Cone Penetrometer. The Cone Penetrometer is easier than pistons test.

The pointed of cone end makes the tool easy to push into the ground, so the loading weight is smaller than using a piston. In this checking, it requires the data of cone end resistance and the correlation between cone end resistance and CBR. Actually, there is an available graph on correlation between cone end resistance and CBR which is produced by the research result of Bakrie Oemar dan Nurly Gofar on 1995. But, the graph was research on unknown area, and the structure and characteristic of soil might certainly different.

The graph of the correlation between Cone End Resistance (qc) and California Bearing Ratio (CBR) of land in Banjarbaru is not available yet. This factor makes the planner usually conducting a CBR test in laboratory or tends to enlarge the safety factor in the design, as the impact, the project cost also increase. Based on the background, the researcher conducted the research on the correlation between Cone End Resistance (qc) and California Bearing Ratio (CBR) of land in Banjarbaru. 1.1

California Bearing Ratio CBR test was issued by California Transportation Department on 1992. The test aims to determine the feasibility of subsoil which will use as base course in a highway construction. Since the World War II, U.S Army Corps of Engineers adapts this test in the construction of airfield. The score of CBR is a comparison between the penetration load of a material and the standard material on the same depth and penetration speed. In a formula; $CBR = (\text{tension test} / \text{tension standard}) \times 100\%$eq. 1 Table of tension standard scores is presented in Table 1. International Conference on Environment and Technology IOP Conf.

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doi:10.1088/1755-1315/469/1/012095 2 Table 1. The scores of tension standard on each penetration Penetration Unit of tension standard mm Inch Mpa Psi 2.5 0.10 6.9 100 5.0 0.20 10.3 1500 7.5 0.30 13.0 1900 10.0 0.40 16.0 2300 12.7 0.50 18.0 2600 Source: Bowles (1992) The CBR score is used to assess the soil, especially as base course on highway pavement or airfield. The typical rating of CBR score is presented in Table 2. Table 2. Soil Classification according to CBR score CBR No Common Levels Function Classification Unified AASHTO 0-3 Very poor Sub grade OH,CH,MH,OL A5,A6,A7 3-7 Poor to fair Sub grade OH,CH,MH,OL A4,A5,A6,A7 7-20 Fair Sub base OL,CL,ML,SC,SM,SP A2,A4,A6,A7 20-50 Good Base or sub base GM,GC,SW,SM,SP,GP Ab,A2- 5,A3,A2-6 >50 Excellent Base A1a,A2-4,A3 Source: Bowles (1992) 1.2 Laboratory CBR Test This test use Penetrometer tools with minimum capacity of 4.45 ton and the speed of penetration of 1.25 mm per minutes.

Laboratory CBR test requires compaction test. The common sample on Laboratory CBR test is soil in optimum water contents. But, the checking of CBR can be conducted to varieties of water contents and dry content weights. The disadvantages of this test are: ? Taking too long time compare to direct field test, because it through testing procedures, such as filtering, Atterberg limit test, and compaction. ? Taking more cost on taking the samples and carrying the samples to laboratory. 1.3 Field CBR Test If compare to laboratory test, Field CBR test has advantages on time (data may take at that time) and no need to take the soil sample.

The first common of field CBR test is pistons test. The pistons test use a mechanical CBR jack with a capacity of 10 tons, and requires a truck or other heavy vehicle loaded, then under the vehicle is set a mechanical jack. The disadvantage of this test is the use of trucks or heavy vehicles that make this test not efficient. The second of field CBR test is cone test or Cone Penetrometer. Cone Penetrometer is developed by U.S Army Corps of Engineers to test the cohesive soil capacity which will be passed the combat vehicle. The cone penetrometer has two models; military and commercial, consisting of handle,

proving ring, and dial gauge.

The cone is made by material of stainless steel with height of 1.5 inch and width of 0.5 inch². The advantages of the Cone Penetrometer are: ? Very fast, especially by electronic device supporting to record the end resistance. ? Possibility to record continuity on the soil resistance on the layers that will be tested. ? No requires any loading due to the pointed of cone end makes the tool easy to penetrate into the ground. [International Conference on Environment and Technology IOP Conf. Series: Earth and Environmental Science 469 \(2020\) 012095 IOP Publishing doi:10.1088/1755-1315/469/1/012095](#) 3 2. Methodology The research procedures is presented in Figure 1: Figure 1.

Flow Chart of the Research 2.1 Field Work The samples were taken in; Balitra, Jalan Semeru (Semeru Street), Mandiangin Circuit, and Banjarbaru Asri Housing. There took soil samples in three points of every areas. 2.2 Laboratory Work: Soil Physical Characteristic Test In the test, it aims to know the liquid limit (LL), plastic limit (PL), and specific gravity (Gs). The standard of ASTM D-4318 is used to measure the plastic limit and liquid limit, and the standard of ASTM D-854 is used to measure the specific gravity. 2.3

Compaction Test The steps of compaction are: 1) Checking the initial water content before the compaction test 2) Obtained the score of optimum water content based on the test of plastic limit and liquid limit. 3) The test subjects is divided into five; one subject on optimum water contents, two subjects on lower than optimum water contents, and two subjects on higher than optimum water contents. Adding water aiming to reach the standard water content, must consider the score of natural water contents. 4) The score of zero air voids is based on the score of soil specific gravity (Gs). 5) Mixing time.

The longer of soil mixing time, it will obtain higher the maximum density, because by the longer of mixing time, the clay structure will be more dispersed. The compaction procedures are according to standard of ASTM D 698-78. Literature Review and Planning Collecting the Literature Compaction Test Penetration Test Analyze the Result Conclusion Correlation between qc and CBR CBR Test Taking sample in the field [International Conference on Environment and Technology IOP Conf. Series: Earth and Environmental Science 469 \(2020\) 012095 IOP Publishing doi:10.1088/1755-1315/469/1/012095](#) 4 2.3

CBR Test and Cone Penetration Test The soil sample with the same soil density will be tested through 2 kinds of tests, which are CBR test and penetration test. On CBR test, the soil samples will be checked on a penetration where the penetration speed standard

is 1.25 mm/det. The CBR score is based on the penetration score of 2.5 mm. If the score of 5 mm penetration is higher, then the test must retake. And, if the CBR score of 5 mm penetration in the retake test is higher than the penetration score of 2.5 mm, then the CBR score of 5 mm penetration will be used. The CBR test procedures are based on the standard of ASTM 1883- 87.

Moreover, on penetration test, the cone will be put on penetrometer tools to replace the pistons. Then, the cone is pushed into the soil where the depth of penetration and density is same with the CBR test. The factors must consider in CBR test and Cone test are: 1) Reach the touch field perfectly between the pistons and cone and the soil surface. The soil surface must be flat. 2) Give the same treatment to soil sample through the CBR test and cone penetration test, such as colliding energy, adding water, mixing time, and others.

This is to ensure the same density on the soil samples and the correlation between the CBR score and the result of cone end resistance is accountable. 3. Findings 3.1 Soil Attribute The result of soil physical characteristic test is presented in table 3: Table 3. Soil Classification in Banjarbaru Location Point/ Location Symbol of Soil Classification Gs Balitra 1 CL 2.73 Balitra 2 CL 2.70 Balitra 3 CL 2.77 Sirkuit Mandiangin 1 ML 2.68 Sirkuit Mandiangin 2 ML 2.67 Sirkuit Mandiangin 3 ML 2.70 Jalan Semeru 1 CL 2.78 Jalan Semeru 2 CL 2.72 Jalan Semeru 3 CL 2.70 Komp. Banjarbaru Asri 1 CL 2.73 Komp. Banjarbaru Asri 2 CL 2.77 Komp. Banjarbaru Asri 3 CL 2.71 3.2 CBR Test and Cone Test Based on the laboratory test, the CBR score in Balitra is 5.2% - 15.9% and the cone end resistance is 49.947 kg/cm² – 215.813 kg/cm².

The graph on the correlation between the CBR score and cone end resistance in Balitra is presented in Figure 2. International Conference on Environment and Technology IOP Conf. Series: Earth and Environmental Science 469 (2020) 012095 IOP Publishing doi:10.1088/1755-1315/469/1/012095 5 Figure 2. The Graph On The Correlation Between The CBR Score And Cone End Resistance Figure 2 show the inclination the higher of qc score, then the CBR score is also high. The dispersed points make positive linier line with the equation of $CBR = 0.0565 qc + 2.289$ and the linier correlation between the score of CBR and qc is very good and high. By the score of $R^2 = 0.9323$, 93.23% the variety of CBR score can be explained by the linear correlation with score of qc.

On Mandiangin circuit, the CBR score is 11.6% - 17.2%, and the cone score is 109.905 kg/cm² – 299.740 kg/cm². The graph on correlation between CBR and cone end resistance in Mandiangin circuit is presented in Figure 3. Figure 3. The Graph On The Correlation Between The CBR Score And Cone End Resistance Figure 3 show the

inclination the higher of qc score, then the CBR score is also high. The dispersed points make positive linear line with the equation of $CBR = 0.0427 qc + 5.1809$ and the linear correlation between the score of CBR and qc is very good and high. By the score of $R^2 = 0.8825$, 88.25% the variety of CBR score can be explained by the linear correlation with score of qc. On Semeru Street, the CBR score is 6.1% - 17.9% and the cone score is 88.923 kg/cm² – 270.765 kg/cm². The graph on **correlation between CBR and cone end resistance** in Semeru Street is presented in Figure 4.

Cone End Resistance (kg/cm²) Cone End Resistance (kg/cm²) **International Conference on Environment and Technology IOP Conf. Series: Earth and Environmental Science 469 (2020) 012095 IOP Publishing** doi:10.1088/1755-1315/469/1/012095 6 Figure 4. The Graph On The Correlation Between The CBR Score **And Cone End Resistance** Figure 4 show the inclination the higher of qc score, then the CBR score is also high. The dispersed points make positive linear line with the equation of $CBR = 0.0584 qc + 1.8747$ and the linear correlation between the score of CBR and qc is very good and high. By the score of $R^2 = 0.9642$, 96.42% the variety of CBR score can be explained by the linear correlation with score of qc.

The last on Banjarbaru Asri housing, the CBR score is 12.5% - 16.3% and the cone score is 173.849 kg/cm² – 268.767 kg/cm². The graph on **correlation between CBR and cone end resistance** in Banjarbaru Asri housing is presented in Figure 5. Figure 5. The Graph On The Correlation Between The CBR Score **And Cone End Resistance** Figure 5 show the inclination the higher of qc score, then the CBR score is also high. The dispersed points make positive linear line with the equation of $CBR = 0.0344 qc + 7.2514$ and the linear correlation between the score of CBR and qc is very good and high. By the score of $R^2 = 0.5331$, 53.31% the variety of CBR score can be explained by the linear correlation with score of qc. 4.

Discussion: **The Correlation Between CBR and qc** in Banjarbaru After **obtained the correlation between CBR and Cone End Resistance** on each area, the next step is making graph which explain on **correlation between CBR and Cone End Resistance** in Banjarbaru. Figure 6 show the inclination the higher of qc score, then the CBR score is also high. The dispersed points make positive linear line with the equation of **$CBR = 0.0545 qc + 2.618$** and the linear correlation between the score of CBR and qc is very good and high. By the score of $R^2 = 0.9325$, 93.25% the variety of CBR score can be explained by the linear correlation with score of qc.

Cone End Resistance (kg/cm²) Cone End Resistance (kg/cm²) **International Conference on Environment and Technology IOP Conf. Series: Earth and Environmental Science 469 (2020) 012095 IOP Publishing** doi:10.1088/1755-1315/469/1/012095 7 Figure 6. The

Graph on The Correlation Between The CBR Score And Cone End Resistance In Banjarbaru 5. Conclusion The calculation of CBR score using cone Penetrometer is the easier ways. 1) There are some researches on the correlation between CBR and q_c , such Bakrie Oemar and Nurly Gofar (1995), but the research result may not probably able to apply in all areas.

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