

FINAL ASSIGNMENT

EFFECT OF FELDSPAR TO THE SUBGRADE, SUBBASE AND BASE MATERIALS

**Submitted to fulfill the requirements in completing undergraduate education
on Civil Engineering of Sultan Agung Islamic University Semarang**



**Indah Ulya Rosita
30.2015.04.004**

**Ajmil Nabila
30.2015.04.038**

**DEPARTEMEN OF CIVIL ENGINEERING
SULTAN AGUNG ISLAMIC UNIVERSITY SEMARANG**

2019



YAYASAN BADAN WAKAF SULTAN AGUNG
UNIVERSITAS ISLAM SULTAN AGUNG (UNISSULA)
FAKULTAS TEKNIK

Jalan Raya Kaligawe KM. 4 Po. BOX 1054 Telp.(024)6583584 Ext.507 Semarang 50112

APPROVAL PAGE

FINAL ASSIGNMENT

EFFECT OF FELDSPAR TO THE
SUBGRADE SUBBASE AND BASE MATERIALS

By:



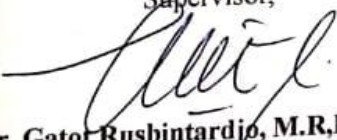
Indah Ulya Rosita
30201504004



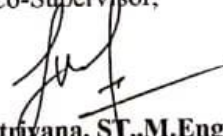
Ajmil Nabila
30201504038

Have been approved at Semarang, August 22, 2019

Supervisor,


Ir. Gatot Rusbintardjo, M.R,Eng,Sc., Ph.DI

Co-Supervisor,


Lisa Fitriyana, ST.,M.Eng

Approved by:

Head of The Departement of Civil Engineering, Faculty of Engineering UNISSULA


Ari Sentani, ST., M.Sc

BERITA ACARA BIMBINGAN TUGAS AKHIR
No. 17 / A.2 / SA-T / III / 2018

Pada hari ini, Sabtu, tanggal 03 Agustus 2019 berdasarkan Surat Keputusan Ketua Jurusan Fakultas Teknik Universitas Islam Sultan Agung (UNISSULA) Semarang perihal penunjukan Dosen Pembimbing I dan Dosen Pembimbing II untuk Tugas Akhir:

1. Nama : Ir. Gatot Rusbintardjo, M.Sc., Ph.D
Jabatan Akademik : Lektor
2. Nama : Lisa Fitriyana, ST., M. Eng
Jabatan Akademik : Lektor

Dengan ini menyatakan bahwa Mahasiswa yang tersebut dibawah ini:

1. Nama : Indah Ulya Rosita
NIM : 30201504004
Jurusan : Teknik Sipil
2. Nama : Ajmil Nabila
NIM : 30201504038
Jurusan : Teknik Sipil

Telah menyelesaikan Tugas Akhirnya.

Adapun tahapan dalam menyelesaikan Tugas Akhirnya adalah sebagai berikut:

No.	Tahapan	Tanggal
1	Penunjukan Dosen Pembimbing	13 Maret
2	Pengumpulan Data	18 Maret 2019 s/d 31 Maret 2019
3	Penyusunan Laporan	2 April 2019 s/d 3 Agustus 2019
4	Selesai Laporan	3 Agustus 2019

Demikian Berita Acara Bimbingan Tugas Akhir ini dibuat untuk diketahui dan dipergunakan seperlunya oleh pihak-pihak yang berkepentingan.

Dosen Pembimbing I



Ir. Gatot Rusbintardjo, M.Sc., Ph.D

Dosen Pembimbing II



Lisa Fitriyana, ST., M.Eng

Mengetahui,
Ketua Jurusan Teknik Sipil
Fakultas Teknik UNISSULA



Ari Sentani, ST., M.Sc

PERNYATAAN

Yang bertanda tangan dibawah ini :

Nama : 1. Indah Ulya Rosita (30201504004)

2. Ajmil Nabila (30201504038)

Jurusan : Teknik Sipil

Dengan ini menyatakan bahwa Tugas Akhir / Skripsi saya yang berjudul **“EFFECT OF FELDSPAR TO THE SUBGRADE SUBBASE AND BASE MATERIALS”** adalah benar hasil karya saya dan penuh dengan kesadaran bahwa saya tidak melakukan tindak plagiasi atau mengambil alih seluruh atau sebagian besar karya tulis orang lain tanpa menyebutkan sumbernya. Jika kemudian hari terbukti terdapat plagiat dalam Tugas Akhir / Skripsi ini maka saya bersedia menerima sanksi sesuai dengan peraturan perundang-undangan yang berlaku.

Semarang, 12 Agustus 2019

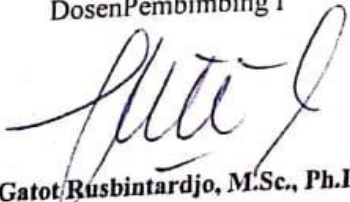
Oleh

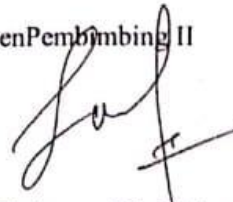
Penyusun I

Indah Ulya Rosita
30201504004

Penyusun II

Ajmil Nabila
30201504038

Dosen Pembimbing I

Ir. Gatot Rusbintardjo, M.Sc., Ph.D

Dosen Pembimbing II

Lisa Fitriyana, ST., M.Eng



YAYASAN IBADAN WAKAF SULTAN AGUNG
UNIVERSITAS ISLAM SULTAN AGUNG (UNISSULA)

Jl. Raya Saifuddin Zuhri Km. 4 Semarang 50132 Telp. (024) 8531374-8 Fax. (024) 8531375
Email: info@unissula.ac.id Web: www.unissula.ac.id

FAKULTAS TEKNIK

Bismillah Membangun Generasi Khaira Ummah

Nomor : 52 / A.3 / SA - T / VIII / 2019

Pada hari ini, Rabu Tanggal 14 Agustus 2019 telah dilaksanakan

Seminar Tugas Akhir, dengan peserta sebagai berikut :

1 Nama	Indah Ulya Rosita	30201504004
2 Nama	Ajmil Nabila	30201504038

Judul TA Effect of Feldspar to the Material Properties of Flexible Pavement

0

0

Dengan Hasil

:

:

:

Demikian Berita Acara Seminar Tugas Akhir ini dibuat untuk diketahui dan penggunaan seperlunya.

Dosen Pembimbing I

Ir. Gatot Rusbintardjo, M.Sc., Ph.D

Dosen Pembimbing II

Lisa Fitriyana, ST., M.Eng

Dosen Pembimbing

Selvi Agustina, ST., M.Eng

Mengetahui,
Ketua Program Studi Teknik Sipil

Ari Sentani, ST, MSc

MOTTO

Often contemplate that you are essentially not with anyone, you are only with Allah SWT. Allah is the Most faithful since we were not born, alone in the womb, only Allah is with us, then we live we are always with Him and Allah infuses Himself Most Near, clearly Allah is the closest of all who is close to us, but we often veiled and forgot about it.

(Al-Habib Munzir bin Fuad Al-Musawa)

Do not despair if you are forced to take one step back, because you should not forget that you need to pull the arrow back so you can shot forward.

(Syarifah Fatima Al-Musawa)

Two keys for you to succeed in this life, First: Sure, Second: Pretend not to understand

(Imam Ghozali)

The best way you spend the precious time that you have, is to study

(Imam An-Nawawi)

Who at night feels fatigue from the efforts of the skills of his two hands during the day, then on that night he is forgiven by God

(HR. Ahmad)

ACKNOWLEDGEMENT

Alhamdulillahirobbil'alamiin, Innalhamdalillahi nahmaduhu wa nasta'iyanu.
Upon *Ridho* dan *Rahmat Allah Subhanawa Ta'Ala* this final assignment report can be completed.

In preparing this report, I was in contact with many people, academicians, and practitioners. They have contributed towards my understanding and thoughts. In particular, I wish to express my sincere appreciation to my main design and final assignment supervisor, Mr. Ir. Gatot Rusbintardjo, M.R.Eng., Sc., Ph.D., for his encourages, guidance, criticism, and friendship. I am also very thankful to my co-supervisor Mrs. Lisa Fitriyana, ST., M.Eng for his guidance, advice and motivation. Without their continued support and interest, this final assignment report would not have been the same as presented here.

My special thanks are addressed to Dekan of the Engineering Faculty of Sultan Agung Islamic University Mr. Ir. Rahmat Mudiyo, M.T., Ph.D. and Head of Department of Civil Engineering, Faculty of Engineering in Sultan Agung Islamic University Mr. Ari Sentani, S.T., M.T., for permission, to take final assignment as the requirement for reaching Bachelor Degree in Civil Engineering in Faculty of Engineering in Sultan Agung Islamic University.

Very special thanks are given to my beloved parents Mr. Supomo and Mrs. Ruchayatun, and second My parents Mr KH. Sya'roni and Mrs Hj. Khoiriyah Thomafi and my brother M. Rajib Faizul Haq for all their love. I also would like to thank Mr. Ripto and all the staff of Soil Mechanic Laboratory of Engineering Faculty of UNISSULA who have helped us collecting data during the lab experiment time

Thanks for my best partner Ajmil Nabila who is always give me a support and guide me during apprentice until now. Thanks for My best friends Alif Sri Mulyati, Kulsum Amalia, Nadia Rachmawati, Irwiyatun Nikmah, Safinatun Khoiriyah, Ana Fauziyah, Rahmatul Ummah, Nurul Inayah, Agus Sapran for their motivation and support. Thanks for my college friends for their good cooperation studying in Engineering Faculty of Sultan Agung Islamic University 2015, their patience, prayers and motivation during this study.

Semarang, August 2019

Indah Ulya Rosita