

INTERNSHIP REPORT
PT. RIAU ANDALAN PULP & PAPER
RECAUSTICIZING, KILN & EFFLUENT DEPT.
AUGUST 21st – OCTOBER 12th 2020



Submitted by:
Andreas / 5203017054

CHEMICAL ENGINEERING DEPARTMENT
FACULTY OF ENGINEERING
WIDYA MANDALA CATHOLIC UNIVERSITY
SURABAYA
2020

LETTER OF APPROVAL

Seminar of **INTERNSHIP** for student with identify below:

Name : **Andreas**

NRP : **5203017054**

Has been conducted on October 12th 2020, therefore the student has fulfilled one of several requirements to obtain **Bachelor of Engineering** degree in **Chemical Engineering Department**, Faculty of Engineering, Widya Mandala Catholic University Surabaya.

Surabaya, October 12th 2020

Approved by

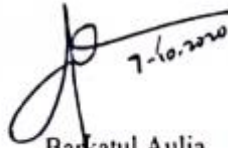
Head of Effluent

Department Trainer

Principal Supervisor



Irvan Kasiar



Barkatul Aulia



Maria Yuliana, Ph.D.

NIK. 521.18.1010

Authorized by

Head of RKE Department

Head of Chemical Engineering



Dedi Suhaimi

Ketua Jurusan Teknik Kimia

9 Nov 2020



(Sandy Budi Hartono, Ph.D.)

NIK. 521.99.0401

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Author

A handwritten signature in blue ink, appearing to read 'Andreas', with a long horizontal stroke extending to the right.

Andreas

NRP. 5203017054

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Student,



Andreas

NRP. 5203017054

PREFACE

First and foremost, praise be to God who has given His blessings, grace and gifts, so that the author can complete this Internship Project entitled "Internship Report PT. Riau Andalan Pulp & Paper" as well as expected in a timely manner. The purpose of making this Internship Report is to fulfil one of the requirements to obtain a Bachelor of Engineering in Chemical Department, Engineering Faculty, Widya Mandala Catholic University Surabaya.

The author realize that this Internship Project cannot be completed without the support of various parties, both morally and materially. Therefore, authors would like to thank all those who have helped in the preparation of this internship report, especially to:

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Finally, the authors hope for criticism and suggestions from readers for the perfection of this internship project. The authors also hope that this report can be useful for the advancement of science and technology for readers.

Surabaya, October 12th 2020

Andreas

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ABSTRACT

PT. Riau Andalan Pulp & Paper (RAPP) is a company engaged in the production of pulp & paper and PT. Asia Pacific Rayon (APR) is a company engaged in the production of rayon. These companies are located in the same area located in Pangkalan Kerinci, Riau. Effluent Treatment Plant (ETP) is one of the divisions that is included in the Re-causticizing, Kiln, and Effluent (RKE) department which is one of the business units owned by PT. RAPP. ETP is divided into 2 units, namely ETP for PT. APR wastewater and ETP for PT. RAPP wastewater.

The wastewater treatment process used by the ETP APR is divided into three types of processes, which are physics (sedimentation and filtration), chemical (neutralization, coagulation, and flocculation), and biology (aeration). APR's ETP unit treats $\pm 31,521.7$ m³ of wastewater every day. APR's liquid waste is divided into three types, namely alkaline waste, acidic waste, and zinc waste. The quality of wastewater disposal from this company has followed the quality standards set by the government which are written in PERATURAN MENTERI LINGKUNGAN HIDUP REPUBLIK INDONESIA NOMOR 5 TAHUN 2014 TENTANG BAKU MUTU AIR LIMBAH.