**ABSTRACT**

The need of energy consumption increases year by year for every country. But, volume or quantity of popular energy resources (oil and gas) are decreased. So, many industry makes a decision to change from those popular energy resources to other alternative energy resources like coal. Bucket elevator is one of material handling equipment which used to lift bulk material from bottom upward. But, lack in designing a bucket elevator can cause failure in operation of bucket elevator. So, to develope a bucket elevator calculation is neccesary in designing (choosing a right components) of bucket elevator and in process of calculating its capacity. Bucket Elevator Calculation can be used to calculate capacity of a bucket elevator and to select the right components. In way of developing a bucket elevator calculation, the author using CBU design data of ThyssenKrupp FordenTechnick as the comparator. And the results from camparation between Bucket Elevator Calculation and CBU design data of ThyssenKrupp FordenTechnick are similar.

**PREFACE**

Praise and Honour should be gived to Almighty God, because only by His grace and His Will the author can finish this final project report.

Topic of this final project is “***Development of Calculation Method to Determine Capacity and Component Selecting of Bucket Elevator”*** and arranged to fullfill one of the academic requirement of graduation in Mechanical Engineering Department, University of Pasundan.

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The author realize that several mistake or lacks been made during this final project caused by limited knowledge and ability. So, suggestions or constructive criticisms from the readers are welcomed. The author hope this final project can be useful for the readers.

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Author

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