

# UNIVERSITAS INTERNASIONAL BATAM

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Undergraduated Thesis  
Civil Engineering Degree Program  
Odd Semester 2018/2019

## **ANALYSIS OF SEAPORT BOARDING LOUNGE WITH THE LINEAR REGRESSION (CASE STUDY: SEKUPANG INTERNATIONAL FERRY TERMINAL BATAM)**

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### **Abstract**

*Sekupang International Ferry Terminal is one of the international Ferry ports in Batam. The availability of many departure schedules has impact to the boarding lounge to accommodate a large number of passengers, especially during peak hours. Thus, to find out the adequacy of the waiting room capacity, a related analysis is needed on the performance of Sekupang International Ferry Terminal waiting room. This analysis is carried out using the site survey method and data collection. The analytical method used to process data refers to the Peraturan Menteri Perhubungan Nomor: KM 20 Tahun 2005 and the regression method to determine the performance of waiting rooms in the next five years.*

*From the results of the analysis it is known that the area of the Sekupang International Ferry Terminal waiting area is 384 m<sup>2</sup> with a capacity of 92 seated passengers and 174 passengers standing. The results of data processing show that the waiting room performance of the average passenger is 0.9984 or almost close to 1, which means that the waiting room at the Sekupang International Ferry Terminal is still enough to accommodate the number of passengers during peak hours. The average busy time occurs at 14:00 WIB - 15:00 WIB with an average waiting time of 15 minutes. The results of the calculation of the analysis of the waiting room capacity needs in the next five years show the same index number, which is 97.8%, which means that the Sekupang International Terminal waiting room can still accommodate passengers until the next 2023. The results of the analysis using a linear regression method indicate that the clock variable has a significant influence on the increase in the number of passengers.*

**Keywords:** *Analysis, Ferry, Passanger, Boarding Lounge, Terminal*