



MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR
DEPARTMENT OF MECHANICAL ENGINEERING
Jawahar Lal Nehru Marg, Jaipur-302017(Rajasthan)

CERTIFICATE

This is to certify that the dissertation report on the topic “**OPTIMIZATION OF STORAGE AND STACKING OPERATIONS IN CONTAINER TERMINALS**” prepared by **AYUSH MATHUR** (2013PIE5290) student of Master of Technology in Industrial Engineering of Malaviya National Institute of Technology Jaipur is a bonafide compilation of the candidate’s work based on published literature on the topic.

Prof. Rakesh Jain

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Date:

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CANDIDATE'S DECLARATION

I hereby declare that the work which is being presented in this dissertation entitled **“OPTIMIZATION OF STORAGE AND STACKING OPERATIONS IN CONTAINER TERMINALS”** in partial fulfillment of the requirements for the award of the degree of **Master of Technology (M.Tech.) in Industrial Engineering**, and submitted to the **Department of Mechanical Engineering, Malaviya National Institute of Technology Jaipur** is an authentic record of my own work carried out by me during a period of one year from July 2014 to June 2015 under the guidance and supervision of **Dr. Rakesh Jain** of the Department of Mechanical Engineering, Malaviya National Institute of Technology Jaipur.

The matter presented in this dissertation embodies the results of my own work and has not been submitted anywhere else for award of any other degree or diploma.

Ayush Mathur
(2013PIE5290)

This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

Dr. Rakesh Jain
Supervisor

Place: Jaipur

Dated: July 2015

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ABSTRACT

In the last four decades, container terminals are essential intermodal interfaces in the global transportation network. Efficient container handling at terminals is important in reducing transportation costs and keeping shipping schedules. With ever increasing containerization the number of seaport container terminals and competition among them, have become quite remarkable. Operations are now a days unthinkable without effective and efficient use of information technology as well as appropriate optimization (operations research) methods. In this report I described the literature review and mathematical modelling for reducing container rehandlings at Hyundai Motor India Limited, Chennai and shows the result.

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