UNIVERSITY OF MORATUWA

QUALITY CONTROL AND OPTIMAL USAGE OF PLANT AND MACHINERY IN ASPHALT PAVING

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A PROJECT REPORT SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENT FOR THE DEGREE OF MASTER OF ENGINEERING IN HIGHWAY AND TRAFFIC ENGINEERING.

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August 2004

ABSTRACT

A study was conducted to find out the causes for failure of Asphalt concrete and movements on road pavements which have been up graded or newly constructed very recently.

This research study was mainly focussed in to the quality control and optimizing of the plant usage and find out the causes for defects in the plant operation in the entire paving process.

Causes for defects such as cracking, depressions and ripples have tremendous contribution by the operation behavior and the standards of the plants usage in the entire operation.

Uniform continuous operation coordinating with central asphalt plant, hauling operation and paving site, proper functioning of plant and machinery and thorough supervision and skilled workmanship is very much essential for the quality hot mix asphalt pavement.

Quality final product (Pavement) can be achieved by quality controlling and optimizing the plant usage within the budget allocation as programmed and planned in the designed stage.

ACKNOWLEDGEMENTS

I express my deepest gratitude to Dr. Saman Bandara, Senior Lecturer attached to the Department of Civil Engineering of University of Moratuwa for assisting and guiding me in carrying out this research project and preparing the report.

I also wish to thank Mr. Premachandra Materials Engineer and his staff of ADB 2nd road project for assisting me to carryout the research work in the project laboratory and providing me with necessary litreture.

I am grateful to the Chairman of National Equipment and Machinery Organization Eng. Mr. M.A.G.D. Hemachandra for granting me leave to follow up the course.

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