

**MACRO-ECONOMIC ANALYSIS OF ROAD TRANSPORT :  
CASE STUDY OF PUBLIC ROAD TRANSPORT  
UNDERTAKINGS IN INDIA**

By  
**SAFIA MEHDI**

Thesis submitted  
in fulfilment of the requirements  
for the award of the degree of  
**DOCTOR OF PHILOSOPHY**



Department of Humanities & Social Science  
**INDIAN INSTITUTE OF TECHNOLOGY, DELHI**  
HAUZ KHAS, NEW DELHI-110016

July 1989

# CERTIFICATE


Certified that Mrs. Safia Mehdi, who was permitted to work for her Ph.D Degree in Economics of the Indian Institute of Technology, Delhi on the problem entitled,

“Macro-Economic Analysis of Road Transport: Case study of Road Transport Undertakings in India”,

has faithfully carried out her study under my guidance and supervision and the accompanying thesis which she is submitting, is her genuine work.

Mrs. Safia Mehdi has completed the necessary course work and put in the required attendance in this Department.

July 21, 1989

  
Prof. A.L. AGARWAL  
Professor of Humanities  
and Social Sciences,  
Indian Institute of Technology,  
New Delhi - 110016

## **ACKNOWLEDGMENT**

I wish to express my deep sense of gratitude and heartfelt thank to my Supervisor, Dr. A.L. Agarwal, Professor of Economics, I.I.T, Delhi without whose able guidance and encouragement, this work would not have been completed.

I also wish to convey my thanks to my colleagues, Mr. A.K. Makkar and Mrs. Venila Mathur who helped me from time to time in the completion of my work.

I sincerely express my appreciation and gratitude to my in-laws especially my mother-in-law who helped me in different ways from the beginning till the end of the work. My thanks to my husband, Mr. Raza Mehdi who stood by me in the most difficult moments of my work. I wish to thank my son, Hasan Abid who bore my long absence with a smile.

I want to express my sincere thanks to my mother and other members of the family who prayed for my success. I express my deep indebtedness to my father, Prof. Baqer Mehdi, who has been a source of inspiration, encouragement and help in the pursuance of my higher studies.

Last though not the least I express my deep gratitude to Mr. S.L. Narang without whose untiring cooperation, this thesis would not have been possible.

# CONTENTS

Chapter		Page
I	Introduction	1-21
II	Statement of the problem and Objective of the Study	23-28
III	Growth of Roads in India	29-109
IV	Growth of Vehicles in India	110-132
V	Projections of Roads and Vehicles in India	133-161
VI	Investment and Employment in Road Construction	162-194
VII	Estimation of Passenger and Freight Traffic	195-239
VIII	Case Study of Road Transport Undertakings	240-264
IX	Conclusion	265-268
	Appendix	269-310
	Bibliography	311-323