

**ROAD MANAGEMENT PRACTICES
IN PROVINCIAL ROAD DEVELOPMENT
IN SRI LANKA**

Meepe Attatage Indunil Kantha De Silva

(108487K)



University of Moratuwa, Sri Lanka.
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Degree of Master of Science in Project Management

Department of Building Economics

University of Moratuwa
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DECLARATION

I declare that this is my own work and this dissertation does not incorporate without acknowledgement any material previously submitted for a Degree or Diploma in any other University or Institute of higher learning and to the best of my knowledge and belief it does not contain any material previously published or written by another person except where the acknowledgement is made in the text.

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ABSTRACT

Road Management Practices in Provincial Road Development in Sri Lanka

Recently the development of infrastructure has been identified as a key aspect that should be considered in the development of third world countries like Sri Lanka. It affects the economy of the country as well as the social development of people. In considering infrastructure, roads and transportation can be considered as the most important sector to be developed in Sri Lanka.

As the substantial part of the population lives in rural areas and the occupations of most of them are based on agriculture, provincial roads are more useful to the rural communities than the main highways as these roads are required to transport their agricultural out puts to markets situated in urban areas. On the other hand without physical access rural communities cannot get the social benefits such as education, medical treatments, and so on as they have no access to town centres.

Provincial Road Development Authority is responsible for the administration of provincial roads in each province. This research was entirely based on the road management practices of provincial roads in Sri Lanka. In this research first the issues and weaknesses in current road management practices have been identified. Thereafter the principal factors leading to these specific issues were analysed by doing case studies under the research objectives. The data was collected from four provincial road projects which were ongoing and completed rehabilitation projects using questionnaires, direct observations, archival records, and so on. This data was investigated under a case study framework and finally conclusions were drawn up. As per conclusions, a set of guidelines have been recommended for the improvement of current management practices of the provincial roads. It is expected that these guidelines would be much helpful to overcome the difficulties encountered in current management practices in provincial road development.

Keywords: Road management practices, Provincial Road Development Authority, Rehabilitation projects, Development of infrastructure

DEDICATION



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***I dedicate this dissertation to
my late beloved parents***

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TABLE OF CONTENTS

	Page
Declaration of the candidate and supervisor	i
Abstract	ii
Dedication	iii
Acknowledgement	iv
Table of contents	vi
List of Figures	ix
List of Tables	x
List of abbreviations	xi
List of appendices	xii
1. Introduction.....	1
1.1 Background.....	1
1.2 Existing Condition of provincial roads.....	2
1.3 Problem statement.....	2
1.4 Aims and Objectives.....	3
1.5 Research method.....	3
1.6 Scope and limitations.....	4
1.7 Chapter breakdown.....	4
2. Literature Review	5
2.1 Introduction	5
2.2 Activities of Project Management.....	5
2.3 Project Management Practices in Road Construction	7
2.4 Road Management Practices in Provincial Roads.....	8
2.4.1 Road.....	8
2.4.2 Evolution of roads.....	9
2.4.3 History of roads in Sri Lanka.....	10
2.4.4 Current administration set up of roads in Sri Lanka.....	12

2.4.5	Road network planning	13
2.4.5.1	History of road network planning.....	14
2.4.6	Designing of a road	14
2.4.6.1	Pavement design.....	15
2.4.6.2	Geometric design.....	15
2.4.6.3	Drainage design.....	16
2.4.7	Land acquisition.....	17
2.4.8	Environmental impacts due to road constructions	18
2.4.9	Safety of roads	19
2.4.9.1	Provision of road signs and markings	20
2.5	Importance of Provincial Roads for the Society.....	22
2.6	Road Management Practices in Provincial Roads.....	24
2.6.1	Road network management.....	24
2.6.2	Activities of management	25
2.6.3	Maintenance management	31
2.6.3.1	Objectives of maintenance management.....	31
2.6.4	Economic and social impacts regarding lack of maintenance	33
2.7	Infrastructure Planning and Management	38
2.7.1	Development of infrastructure	38
2.7.2	Nature of policy	40
2.7.3	Infrastructure asset management.....	40
2.8	Conclusion.....	41
3.	Methodology	42
3.1	Introduction	42
3.1.1	Research process and research design	42
3.1.2	Research philosophy	44
3.1.3	Definition of a case study as a research method.....	45
3.1.4	Comparison of case study with other research methods.....	46
3.1.5	Design of a case study.....	47
3.1.6	Multiple-Case studies.....	49
3.1.7	Analytical techniques in case studies.....	49

3.1.8 Case study framework.....	50
3.2 Conclusion	50
4. Data Collection and Data Analysis.....	52
4.1 Introduction	52
4.2 Project Management Practices on Road Development	52
4.3 Brief Introduction to Cases.....	54
4.4 Data Analysis.....	55
4.4.1 Description of data analysis	55
4.4.2 Data analysis	59
4.5 Cross-Case Analysis	88
4.6 Synthesis of Evaluation of Provincial Roads.....	89
4.7 Conclusion	97
5. Conclusions and Recommendations.....	98
5.1 Introduction	98
5.2 Conclusions.....	98
5.3 Development of Best Management Practices and Guidelines for Provincial Roads.....	107
5.4 Conclusion.....	110
Reference List.....	111
Appendix A.....	116
Appendix B	122
Appendix C	127
Appendix D.....	132
Appendix E	136
Appendix F.....	143

LIST OF FIGURES

	Page
Figure 2.1 ... Cross section of the road according to Macadam's construction.....	10
Figure 2.2 ... Cross section of a road pavement	15
Figure 2.3 ... Cross section of a hill road.....	16
Figure 2.4 ... Warning signs	20
Figure 2.5 ... Regulatory signs.....	21
Figure 2.6 ... Informatory signs	21
Figure 2.7 ... Pedestrian crossing.....	22
Figure 2.8 ... Countries with decentralised road maintenance have better roads.....	24
Figure 2.9 ... Organizational structure of PRDA.....	26
Figure 2.10 . Typical cross section of a blacktop road pavement	28
Figure 2.11 . Effects of neglecting maintenance.....	35
Figure 2.12. Socio-economic and transport cost impacts.....	37
Figure 2.13. Road investments - Socioeconomic benefits	37
Figure 3.1 ... Research design	43
Figure 3.2 ... Case study framework for multiple-case studies	51
Figure 4.1 Histogram presentation for Consultants' responds.....	55
Figure 4.2 Histogram presentation for Client's responds	56
Figure 4.3 Histogram presentation for Contractors' responds	56
Figure 4.4 Fishbone Diagram	58

LIST OF TABLES

	Page
Table 2.1 Categorization of roads in Sri Lanka.....	13
Table 3.1 Relevant situation for different research methods.....	46
Table 4.1 Cost information for provincial road development	53
Table 4.2 Quality control tests	78
Table 4.3 Evaluation of evidences of road management practices in provincial roads in Sri Lanka	91



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LIST OF ABBREVIATIONS

Abbreviation	Description
ABC	Aggregate Base course
ADB	Asian Development Bank
AIV	Aggregate Impact Value
ASTM	American Standard Testing Methods
BOQ	Bill of Quantities
CBR	California Bearing Ratio
CRS1	Cationic Rapid Setting 1
DBST	Double Bituminous Surface Treatment
EIA	Environmental Impact Assessment
GDP	Gross Domestic Product
GNP	Gross National Product
GOSL	Government of Sri Lanka
ICB	International Competitive Bidding
IRR	Internal Rate of Return
JICA	Japan International Cooperation Agency
LAAV	Los Angeles Abrasion Value
LCB	Local Competitive Bidding
LGED	Local Government Engineering Department
NPA	National Procurement Agency
OPEC	Organization of Petroleum Exporting Countries
PRDA	Provincial Road Development Authority
PSDG	Provincial Specific Development Grant
PWD	Public Works Department
RDA	Road Development Authority
VOC	Vehicle Operating Cost



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LIST OF APPENDICES

Appendix	Description	Page
Appendix A	Interviewed Transcript – Case i	116
Appendix B	Interviewed Transcript – Case ii	122
Appendix C	Interviewed Transcript – Case iii. (1)	127
Appendix D	Interviewed Transcript – Case iii. (2)	132
Appendix E	Interviewed Transcript – Case iv. (1)	136
Appendix F	Interviewed Transcript – Case iv. (2)	143



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