



*Research
Leads To
Advancement*

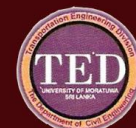


TRANSPORT RESEARCH FORUM

2010



UNIVERSITY
OF
MORATUWA



TRANSPORTATION
ENGINEERING
DIVISION

Contents

Determination of an Effective Laying Pattern and Best Block Shape for Concrete Block Pavement Based on Field Performance	3
Economical Mix Design for Interlocking Block Paving for Sri Lanka	5
Finite Element Model Analysis to Determine Improved Support Condition for Concrete Block Paved Low Volume Roads.....	7
Simulation of Thermal Behavior of Ground Concrete Slab Exposed to Solar Radiation.....	8
Rigid Pavement Design with Recycled Concrete Aggregate for Low Volume Roads.....	9
Geometric Design Standards for Narrow Curves in Hilly Terrain of Sri Lanka	10
Guideline for the Selection of Appropriate Specifications for Low Volume Roads	12
Identification of Suitable Decision Support System for Planning Programming and Economic Evaluation of Road Investment Projects for Sri Lanka.....	14
Selection Criteria for Provincial Road Development	16
Effectiveness of Traffic Forecasting on Pavement Designs in Sri Lankan Roads	18
Quality Control Aspects of Asphalt Concrete Surface Regularity	20
Review of Grading Systems for Asphalt Binders in Hot Mix Asphalt Pavements	22
Effects of Super pave Specifies Aggregate Gradation on Marshall Mix Parameters	23
Evaluating Suitability of Soil Stabilization Methods for Local Road Construction Industry.....	25
Estimation of ESAL Values for Low Volume Roads in Provincial Sector.....	26
Method to identify Potential Safety Deficiencies at Identified Accident Black Spots	28
Development of Shortest Path Network with minimum nodes for the National roads to maximize the accessibility using Breadth-first search algorithm	30
Methodology to Determine the Optimum Logistics Cost Cluster Size of Multiple Facility and Server System.....	32
Methodology to Find Alternative Paths Using GIS.....	33
Methodology to Identify the Optimum Network for an Integrated Urban Rail System.....	34
Critical Issues on Motor Insurance Claims	36
Freight Vehicle Movement Pattern on National Roads in Sri Lanka.....	38
Preparation of Time, Bus and Crew Schedules for a Selected Passenger Transport Bus Company	40
Rail Bus Integration for Commuter Traffic in Colombo City	42
Possible Improvements to Existing Bus Fare Structure to Achieve Better Service.....	44

Develop an Evaluation Criterion to Assess Pedestrian Facilities in Urban Environments at Micro Level	46
Tool for Initial Environmental Assessment of Road Rehabilitation Projects	48
Development of Content Management System for Traffic Survey Reports	50
A Methodology for Design of Pedestrian Crossing Facilities in Sri Lanka	52
Strategies to Minimize User Inconvenience During Road Rehabilitations	53