

**List of Selected Research Studies during the period
2005 - Till Date**

Sl. No.	Title of the Study
1	A Comparative study of Road Safety Activities in Malabar Region of Kerala
2	A Study of Paratransit Services for Selected Cities in Kerala
3	Accident Abatement Measures for Urban Areas in Kerala
4	Ambient Air Quality (AAQ) Monitoring Programme for Selected Road Corridors in Kerala
5	Application of Congestion Pricing as a Tool for Reducing Traffic Congestion in Cities - A Case Study
6	Assessment of Risk Potential of SH in Kerala State: a Case Study of Selected SH in Central Kerala
7	Assessment of Rural Accessibilities in Different Terrains of Kerala
8	Black Spot Determination of Traffic Accident Locations and its Spatial Association Characteristic Analysis Based on GIS
9	Computation and Periodic Updation of Price Indices for Auto- Taxi operations (PIATO) in Kerala
10	Computation and Periodic Updation of Price Indices for Stage Carriage Operation (PISCO) in Kerala
11	Computerized Inventory of Roads at Panchayath Level- a case study of Wayanadu District
12	Constraints in Developing West Coast Canal in Kerala-Case Study of Selected Stretches in North Kerala (Kozhikode, Kannur and Kasargod Districts)
13	Database creation and management for Inland waterways in Kerala using GIS – Phase I
14	Database Creation and Management for Inland Waterways in Kerala Using GIS – Phase II
15	Demonstration Project on the Use of Plastic Waste for Road Construction and Study on its Suitability to Kerala Conditions
16	Designing of Model Road Safety Corridor on PilatharaPappinnissery KSTP road in Kannur District
17	Development of Accident Information System Highlighting Accident Black Spots for the State of Kerala
18	Development of Air Pollution Index of Kerala
19	Development of Data Bank in Transportation
20	Development of GIS-based Road and Traffic Database for Kerala
21	Development of Hill Highway in Kerala- Socio- economic Impact of Improving Connectivity in Hilly Region
22	Development of Seaport-Airport Connectivity for Kochi City through Inland Waterways
23	Development of Traffic Growth Rate Model for NHs in Kerala

24	District Level Road Safety Training Programme for Resource Persons
25	District Rural Roads Plan for Wayanadu District-Preparation for DPR for Improvement of Roads Under NABARD Funding
26	Economics of Water Transport Operations in Kerala
27	Effect of Speedboat Movement on Bank Erosion in Canals-A case Study of Kuttanadu Region
28	Enhancing Road Safety with Adaptive Traffic Signal System – Demonstration cum Implementation
29	Environmental Impact of Dredging of Canals in Thiruvananthapuram City- A Case Study of T S Canal
30	Establishing Road Safety Auditing System for Kerala
31	Estimation of Trip Generation Rates for Different Land Uses
32	Evaluation and Optimization of Auto Rickshaw Operations in Thiruvananthapuram City
33	Evaluation of Accident Black Spots on Roads using Geographical Information System and Remote Sensing
34	Evaluation of moisture susceptibility of asphalt mixtures
35	Evaluation of Speed Limits on National Highways- Case Study of Thiruvananthapuram-Kollam Section of NH-47
36	Evaluation of Traffic Management Measures in Urban- Centres Using GIS Techniques- a Case Study
37	Evaluation of Traffic Potential of Inland Waterways in Kerala
38	Evaluation of Warm Mix Asphalt Mixes with the addition of RAP
39	GIS Application for Management of Bridges- A Pilot Study
40	Ground Stabilization Techniques for Road Construction in Clayey Soils of Kuttandu Region
41	Identification of Accident Prone Locations and Improvement Measures in State Highways of Northern Kerala
42	Impact of Public Transport Development on the Economy of a Region- Case Study of Cochin Region
43	Impact of Road Digging by Public Utility Departments on Urban Roads
44	Impact of Speed Restriction Measures on Road Safety and Level of Service
45	Impact of Traffic Signs and Road Markings on Improving the traffic Flow and Safety of Road Users- Case Study of Selected High- Density Traffic Corridors in Thiruvananthapuram
46	Improvements to Enathuapuzha – Kanamala Parallel Road
47	Influence of randomly distributed shredded waste plastic on shear strength and hydraulic conductivity of cohesive soil
48	Influence of Vehicle on Saturation Flow Rate at Signalized Intersection
49	Integrated Designs for Public Transit Terminals in Urban areas

50	Integrated Development of Transport Infrastructure for an Emerging town -Kottarakkara
51	Integrated Rural Accessibility Planning (IRAP)-A Micro Level Intervention in Hilly Areas of Northern Kerala
52	Integration of Multi-Model Transit system for urban areas – A case study of Kochi City
53	Integration of Public Transport Services- A Case Study of Kottayam Town
54	Integration of public Transport Services- A Case Study of Thiruvananthapuram City
55	Investigation of Major Accidents Spots, Causative Analysis & Mitigative Measures
56	ITS Applications in Enhancing the Transport Infrastructure
57	Mobility Plan for West Kallada Grama Panchayath in Kollam District
58	Pavement Deterioration Studies for Highways in Kerala
59	Pavement Evaluation Studies for Low Volume Roads in Kerala
60	Pavement Maintenance Management System for Selected roads in Kerala
61	Pavement Rehabilitation Design Based on Dynamic Cone Penetrometer Test (DCPT)
62	Pedestrian Safety in Medium Towns of Northern Kerala- An Analysis
63	Performance Evaluation of plastic-coated aggregates on Bituminous mixes
64	Periodic Updation of Price Indices for Different Public Transport & Freight Operations
65	Planning for Inter-Modal Distribution of Traffic by Road and Inland Waterways in Kochi City
66	Predictive Accuracy of Urban Transport Studies in Kerala
67	Preparation of Inventory of Roads for a Region- Ernakulam and Kannur District
68	Prioritisation of Road Development in a Region- A Case Study of Kannur District
69	Problems Associated with Mobility of Women- A Case Study
70	Public Transportation -Operational Efficiency of KSRTC Moffussil Bus Service- A case Study of Kollam District
71	Rationalization of Bus Stops on Urban Arterial Corridors- A Case Study
72	Regional Road Network Planning Study for Kerala- Vision 2030
73	Regional Transportation Development Plan for Various Districts in Kerala
74	Resource Mapping of Road Construction Materials in Kerala
75	Revival of Inland canals and Waterways in Kerala
76	Road Asset Management for National Highways and State Highways in Kerala
77	Road Development Programme for Hilly Regions of Kerala - A case Study of Wayanadu District
78	Road Safety Auditing and Related Community Road Safety Programme in Northern Kerala
79	Road Signage System for Greater Calicut Region
80	Role of IPT Modes in Medium Sized City in Kerala- Case Study of Kozhikode
81	Route Network Planning of Inland Water Transport for Kerala
82	Safe Community Programme for Panchayaths

83	Safe Road to School Programme
84	Safety Auditing of Public Transport System in Kerala
85	Shortest Path Analysis and Service Area Allocation for Ambulance services in Thiruvananthapuram Corporation- a GIS Approach
86	Socio-Economic Impact of Development of Hill Highways in Kerala
87	Speed Profile of vehicles and Road Safety Strategies
88	Status of Minor Ports in Kerala
89	Strategies for Safe Transportation of Dangerous Goods - A Status Report
90	Study of Benefits of Streamlining of Pedestrian Flows on Busy Roads
91	Study of Noise Pollution due to Automobiles in Major Cities
92	Study on accidents and safety aspects related to Inland waterways
93	Study on Driver Protection Strategies (Seat Belt and Helmet Use)
94	Study on Failure of Roads in Kuttanad Region
95	Study on Formulation of Toll Pricing in Kerala
96	Study on Gender Issues of Mobility of Working Women
97	Study on Improvement of Kovalam-Akkulam Stretch of T.S Canal
98	Study on Integrated Development of Kottappuram-Chettuva Stretch of West Coast Canal
99	Study on Interstate Goods Transport by Roads in Kerala
100	Study on Navigability of Feeder Canals in Kerala -Improvement of Canals in Kochi Region
101	Study on Operational Efficiency on KSRTC mini bus Services
102	Study on overloading of trucks and its effects on pavement deterioration
103	Study on revision of fares for Operation of Boat Services
104	Study on the collapse behavior of compacted soil in highway embankment
105	Study on the development of feeder routes for Light Rail Transit System in Thiruvananthapuram
106	Study on the Impact of Road side Advertisements and Hoardings on Road Safety
107	Study on the Navigability of Feeder Canals to National Waterway No.3 in Thiruvananthapuram District
108	Study on the Performance of Highway Development Projects in Kerala
109	Study on the Use of Waste Plastics for Road Construction- An Evaluation of Roads Surfaced with Bituminous Mix Using Plastic Coated Aggregates in Kerala
110	Study on use of Construction Waste Materials for sub-base and base layers of flexible pavements
111	Suitability of Locally Available Materials for Road Construction in Kerala
112	Technical Feasibility Study on Ro-Ro operations in Vembanad lake at north and south of Thanneermukkom
113	Traffic Engineering and Management Plan for Selected Towns in Kerala- A Comparative Analysis of Travel Characteristics
114	Traffic Improvement Plan for Kottayam Town

115	Traffic Improvement Plan for Koyilandy Junction
116	Traffic Medicine- A Status Report
117	Traffic Studies for Medical College Area
118	Traffic Studies for Thalassery Town
119	Transport Infrastructure Development Plan for Harippad Town
120	Urban Infrastructure Development Scheme for Small and Medium Towns
121	Use of Geo-Synthetic Materials in Road Construction and Embankment Works- A Demonstration Project
122	Use of waste plastic in the sub grade layer of flexible pavement
123	Utilization of Geoinformatics Tools for Updation of Existing Road Network
124	Resilient Transportation Planning for Disaster prone areas – A case study of
125	Experimental investigation on Porous Asphalt Mix
126	Resource Mapping of road construction materials in Kerala -Phase II
127	Overtaking Behaviour of Drivers – A Case Study on Selected Roads in Kerala
128	Crash Prediction Modeling of Undivided Two Lane Two-way Road Networks in Kerala
129	Maintenance and Sustainable Management of a Waterway - A Case Study of Parvathy
130	Study on the Indo-HCM adjustment factors for capacity analysis of Intersections in Kerala
131	Preparation of Evacuation Plan for regions vulnerable to isolation during Natural
132	Study on strength characteristics of Flexible Pavement in Water-logged areas
133	Study on the Effect of Metro on the Mode Choice Behaviour of Commuters in Kochi city
134	The influence of aggregate, filler and bitumen on SMA mixture properties
135	Evaluation of Moisture Susceptibility of Asphalt Mix Using Admixtures
136	Development of Integrated Land Use Transport Model for Thiruvananthapuram
137	Enhancement of Public Transport Services in Thiruvananthapuram City
138	Assessment of changes in Trip Characteristics of commuters due to COVID -19 in Kerala
139	Evaluation of Air Quality & Traffic Characteristics During Covid-19 Lockdown Period
140	Road Safety Scenario in Kerala during Covid 19 Lockdown
141	Economic Performance of Road Transport Sector in Kerala Due to COVID-19- Macro Level
142	Synthesis of rich origin-destination matrices using fusion of multiple sparse data sources
143	Impact of integrated feeder services for encouraging urban mass transport patronage in post-pandemic world
144	Experimental investigation of Cold Mix Asphalt with different Additives
145	Characterization of flowable fill incorporating industrial by-products
146	Laboratory Investigation of Bituminous Porous Mix
147	Application of Surrogate Safety Measures at Unsignalized Intersections
148	Application of ITS for Enhancing Safety at Critical Locations and Blackspots
149	Performance evaluation of Kochi Water Metro
150	Transportation Planning for Resilient Infrastructure in Disaster Prone Areas: A Case Study of Munnar Town
151	Crash Prediction Modeling of Undivided Two -Lane Two -Way Road Networks in Kerala

152	Field Evaluation of Indo -HCM for Intersections in Kerala
153	Application of Surrogate Safety Measures at Unsignalized Intersections
154	Road Asset Managment for National Highways and State Highways in Kerala
155	Applications of ITS for Enhancing Safety at Critical Locations and Blackspots