

TABLE OF CONTENTS

TITLE.....	i
APPROVAL SHEET	ii
DECLARATION	iii
ACKNOWLEDGEMENT	v
TABLE OF CONTENTS	vi
LIST OF TABLES	ix
LIST OF FIGURES	xi
LIST OF ABBREVIATIONS	xiv
INTISARI.....	xv
ABSTRACT	xvi
CHAPTER I INTRODUCTION	1
1.1 Background	1
1.2 Problem Statement.....	2
1.3 Objectives of the study	2
1.4 Benefits of the study.....	3
1.5 Limitations of the study.....	3
1.6 The Authenticity of the Research	4
CHAPTER II LITERATURE REVIEW	6
2.1 Visibility	6
2.1.1. Visibility Level at Night-time.....	7
2.1.2. Visibility Level in Rainy Conditions.....	7
2.2 Sight Distance.....	8
2.2.1. Sight Distance at Night-time	9
2.2.2. Sight Distance in Rainy Conditions.....	9
2.3. Geometry Analysis for Safety Transport.....	10
2.3.1. Identification Black Spot	10
2.3.2. Analysing Geometric Visibility and Sight Distance Aspect.	10
CHAPTER III THEORETICAL FRAMEWORK	12

3.1. Overview	12
3.2. Visibility	12
3.2.1. Visibility Level	13
3.2.2. Visibility Level at Night-time.....	14
3.2.3. Visibility Level in Rainy Conditions.....	17
3.3. Sight Distance.....	22
3.3.1. Stop Sight Distance	22
3.3.2. Precede Sight Distance	24
3.3.3. Sight Distance at Night-time	25
3.3.4. Sight Distance in Rainy Conditions.....	26
3.4. Geometry Analysis for Safety Transport.....	28
3.4.1. Identification Black Spot	28
3.4.2. Analysing Geometric Visibility and Sight Distance Aspect.	29
CHAPTER IV RESEARCH METHODOLOGY	35
4.1. Scope of Research	35
4.2. Study Location	35
4.3. Stages of Research Methodology	38
4.4. Data Collection.....	39
4.4.1. Topographic Data	39
4.4.2. Pavement Condition Data	42
4.4.3. Traffic Data.....	44
4.4.4. Traffic Signs and Supplementary Road.....	50
4.4.5. Accident and Incident Data	52
4.5. Survey and Observation	54
4.5.1. Measurement	54
4.5.2. Interview	55
4.5.3. Questionnaire.....	55
4.6. Road Geometric Assessment Concept in Sight Distance and Visibility Level for Safety Transportation	56
4.6.1. Road Geometric for Visibility Level	56
4.6.2. Road Geometric for Sight Distance.....	57

CHAPTER V ANALYSIS AND DISCUSSION.....	60
5.1. Black Spot Analysis	60
5.2. Speed Analysis and Traffic Volume	62
5.3. Analysis of Data Availability Visibility Level.....	64
5.4. Analysis of Data Availability Sight Distance.....	66
5.4.1. Analysis of Availability of Stop Sight Distance.....	67
5.4.2. Analysis of Availability Precede Sight Distance.....	71
5.5. Evaluation Identification EAN and Visibility Level.....	73
5.6. Evaluation Identification EAN and Stop Sight Distance	74
5.7. Evaluation Identification EAN and Precede Sight Distance	76
CHAPTER VI CONCLUSIONS AND RECOMMENDATIONS	78
6.1. Conclusions	78
6.2. Recommendations	79
REFERENCES.....	78
APPENDICES	81