CONTENTS

page

Chapter 1. Introduction.....1

Chapter 2. Initial System Study.....3

2.1 LPR in mobile systems.....5

2.2 Algorithms.....5

2.3 Difficulties.....6

2.4 Imaging hardware.....7

2.5 Traffic Control.....8

2.6 Other Uses.....9

Chapter 3. Feasibility Study.....10

Chapter 4. System Requirements Specification.....12

Chapter 5. System Design.....14

5.1 Extraction Of License Plate Region.....15

5.1.1 Image Enhancement.....16

5.1.2 Morphological Transformation.....16

5.1.3 Morphological Operations.....17

5.1.4 Plate region confirmation.....19

5.1.5Combination of resultant images of hat transform and morphological operations .20

5.2 Character Segmentation.....20

5.3 Character Recognition.....22

5.3.1 Work flow of the template matching algorithm.....24

Chapter 6. Results and Analysis.....25

6.1 Snapshots.....26

Chapter 7. Conclusion and future scope.....28

Bibliography.....30