# TABLE OF CONTENTS

Acknowledgement

Table of contents

List of figures

List of Tables

List of symbols

Abbreviations

Abstract

Chapter – 1  Introduction  [1- 12]

1.1  Introduction  1

1.2  Practical life line structure  4

1.3  Problem Definition  6

1.4  Research objectives  7

1.5  Proposed approaches  9

1.6  Thesis scope  10

1.7  Utility of the Study  10

1.8  Principal contributions  11

Chapter – 2  Literature Review  [13-49]

iv
4.4 Understand action of forces and compute the load  96
4.5 Structural analysis of frame.  97
4.6 Structural design of members and frame  97
4.7 Detailing, Drawing and preparation of schedule  97
4.8 Marking of frame components  98

Chapter – 5  
**Modelling of Practical Life Line structure**  [99 – 106]

5.1 Introduction  99
5.2 Data Collection from Gulbarga  101
5.3 Searching and Modelling of Practical life line structure.  104
5.4 The Drawings of Modelled Practical life line structure  106

Chapter – 6  
**Structural analysis methods/Design approaches, assumptions and Approximations for practical life line structure** [107-144]

6.1 Introduction  107
6.2 Methods of Analysis  107
6.3 Elastic analysis of Building frame  113
6.4 Assumptions and approximations of Design  131
6.5 Various Design Philosophies  140

Chapter – 7  
**Results and Discussions**  [145 – 160]

7.1 Results and discussion of most build multi-storeyed building  145
7.2 Results and discussion of methods of analysis Practical life line structure.  150
7.3 Results and discussion for design of Practical Life line structure

Chapter 8  Practical easy design of Modelled practical life line structure  [161–264]

8.1 Introduction 161
8.2 Easy method of structural analysis for the modelled structure 161
8.3 Easy method of structural design suitable for modelled Structure 162
8.4 Practical Analysis/Design of modelled structure by zeroed easy Methods 163

Chapter 9  Conclusion  [265-311]

List of publications 312

Bibliography  [313-322]