CONTENTS

CHAPTER-1
INTRODUCTION

1.1 Introduction 1
1.2 Review on Laplace distribution and other related distributions 2
1.3 Review on truncated distributions 7
1.4 Focus of the thesis 17
1.5 Organization of the thesis 19

CHAPTER-2
DOUBLY TRUNCATED TWO PARAMETER GENERALIZED LAPLACE TYPE DISTRIBUTION

2.1 Introduction 21
2.2 Doubly truncated two parameter generalized Laplace type distribution (DT2PGLTD) 21
2.3 Distributional properties 25
2.4 Order statistics of DT2PGLTD 31
2.5 Inferential aspects of the DT2PGLTD 37

CHAPTER-3
DOUBLY TRUNCATED THREE PARAMETER GENERALIZED LAPLACE TYPE DISTRIBUTION

3.1 Introduction 41
3.2 Doubly truncated three parameter generalized Laplace type distribution (DT3PGLTD) 41
3.3 Distributional properties 45
3.4 Order statistics of DT3PGLTD 50
CHAPTER 4

DOUBLY TRUNCATED FOUR PARAMETER
GENERALIZED LAPLACE TYPE DISTRIBUTION

4.1 Introduction

4.2 Doubly truncated four parameter generalized
Laplace type distribution (DT4PGLTD)

4.3 Distributional properties

4.4 Order statistics of DT4PGLTD

4.5 Inferential aspects of the DT4PGLTD

CHAPTER 5

TWO COMPONENT MIXTURE OF DOUBLY TRUNCATED
TWO PARAMETER GENERALIZED
LAPLACE TYPE DISTRIBUTION

5.1 Introduction

5.2 Two component mixture of Doubly truncated two
parameter generalized Laplace type distribution
(TCMDT2PGLTD)

5.3 Distributional properties

5.4 Inferential aspects of the TCMDT2PGLTD

CHAPTER 6

SUMMARY AND CONCLUSIONS

REFERENCES