CONTENTS

Chapter- 1 1-48

Section I: Introduction

➢ General Introduction 1
➢ Macrocyclic effect 2
➢ Types of Macrocyclic Ligands 5
➢ Synthesis of Macrocyclic Ligands 14
➢ Designing of Macrocyclic Ligands 20
➢ Object and scope of the work 23
➢ Present work 27
➢ Bibliography 32

Section II: Synthesis and Characterization of Macrocyclic Ligands

➢ General Introduction 42
➢ Preparation of Macrocyclic Ligands 43
➢ Characterization of Macrocyclic Ligands 45
➢ Bibliography 48

Chapter- 2: Chromium(III), 3d⁰ System 49-79

➢ Introduction 49
➢ Review of literature 51
➢ Present work 64
➢ Result and discussion 66
➢ Bibliography 75