## CONTENTS

		Page
	Certificate of guide	
	Declaration	
	Acknowledgements	
	General Remarks	
	Synopsis	
CHAPTER-I:	: THE DIELS-ALDER REACTION	
	Introduction	1
	Conservation of molecular orbital symmetry	1
	Correlation diagram and FMO method	3
	Orientation in addition to acyclic dienes	12
	Stereochemistry	22
	Synthetic applications of Diels-Alder reaction	39
	References	55
CHAPTER-II :	: STUDIES IN DIELS-ALDER REACTIONS	
	Introduction	61
	Present work	61
	Diels-Alder reactions of Sorbic acid	61
	Diels-Alder reactions of 1-Acetoxy-1, 3-butadiene	68
	Spectra	71
	Experimental	75
	References	83