

C O N T E N T S

Chapter	Title	Page
	INTRODUCTION	.. 1
I)	REVIEW OF LITERATURE	.. 8
	A) Introduction	.. 8
	B) Forest Types of the World (Brief Account)	.. 11
	C) Forest Types in India	.. 24
	D) Forestry in India	.. 34
	E) Silviculture	.. 45
	F) Physiological Studies in Tree Species	.. 51
	G) Tree Species selected	.. 73
II)	MATERIALS AND METHODS	.. 86
	A) Plant Material	.. 86
	B) Methods	.. 87
	1) Organic constituents	.. 87
	a) Moisture content	.. 87
	b) Chlorophylls	.. 87
	c) Carotenoids	.. 88
	d) Carbohydrates	.. 89
	e) Polyphenols	.. 90
	f) Proteins	.. 93
	g) Proline	.. 94
	2) Enzymes of nitrogen metabolism	.. 95
	a) Nitrate reductase and Nitrite reductase	.. 95
	

Chapter	Title		Page
III)	RESULTS AND DISCUSSION	..	96
	A) Leaf Area	..	96
	B) Moisture percentage	..	99
	C) Chlorophylls	..	103
	D) Carotenoids	..	109
	E) Carbohydrates	..	113
	F) Soluble proteins	..	125
	G) Proline	..	130
	H) Nitrate Reduction	..	135
	I) Polyphenols	..	142
IV)	SUMMARY AND CONCLUSION	..	164
V)	BIBLIOGRAPHY	..	176
