

CONTENTS

Page No.

Acknowledgements	i-ii
List of Maps	iii-v
List of Tables, Graphs, histograms, pie diagram	vi- xi
List of Illustrations	xii-xv
List of Colour Photographs	xvi-xix

Chapter - 1:INTRODUCTION 1-8

Etymological study on Orchidology and <i>Dendrobium</i> Sw.	1
Habit and Habitat	1
Orchid Diversity	2
Establishment of the Genus <i>Dendrobium</i> Sw.	2
Various aspects of <i>Dendrobium</i> potentiality	2
Trade Prospects	4
Cultivation	6

Chapter- 2: AIMS & OBJECTIVES 9-12

Chapter- 3: STUDY AREA 13-21

North-East Region of India	13
Physical geography and location	13
Topography	15
Geology and Soil	18
Climate	20

Chapter- 4:VEGETATION OF NORTH-EAST

REGION OF INDIA	22-30
Introduction	22
Tropical forests (900-1000 m)	22
Tropical evergreen and semi evergreen forests	23

Tropical dry and moist deciduous forests	24
Tropical grassland	25
Sup tropical forests (1000-2000 m)	26
Subtropical mixed forests	26
Sub-tropical pine forests	27
Subtropical to temperate grassland	28
Temperate forests (2000-3500 m)	28
Sub-Alpine forests (3500-4500 m)	29
Alpine forests (4500-5000 m)	30
Chapter- 5: ECOLOGY OF <i>DENDROBIUM</i> Sw.	31-47
Introduction	31
Altitudinal Distribution of <i>Dendrobium</i> Sw.	36
Introduction	36
Methodology	36
Results & Discussion	37
Phenology	39
Introduction	39
Methodology	40
Results & Discussion	41
Chapter- 6: DIVERSITY OF <i>DENDROBIUM</i> Sw.	48-55
Introduction	48
Methodology	49
Results & Discussion	50
<i>Dendrobium</i> Species affinity with other neighbouring states and Countries	51
Status of <i>Dendrobium</i> species in North East Region of India	52
Conservation Measures	54

Chapter- 7: TAXONOMIC TREATMENT OF

<i>DENDROBIUM</i> Sw.	56-227
Introduction	56
Methodology	58
Results & Discussion	58
Genus citation	60
Description	62
Key to the sections	63
Section <i>Aporum</i> (Bl.) Lindl.	65
Section <i>Breviflores</i> Hook. f.	77
Section <i>Callista</i> (Lour.) Schltr.	88
Section <i>Dendrobium</i> Seidenf.	106
Section <i>Formosae</i> (Benth. & Hook. f.) Hook.f.	175
Section <i>Grastidium</i> (Bl.) J. J. Sm.	194
Section <i>Pedilonum</i> (Bl.) Lindl.	197
Section <i>Rhopalanthe</i> Schltr.	206
Section <i>Stachyobium</i> Lindl.	208
Section <i>Strongyle</i> Lindl.	225

Chapter- 8: GENERAL DISCUSSION **228-237**

Chapter- 9: SUMMARY & CONCLUSION **238-245**

REFERENCES **245-261**