

CONTENTS

Chapter	Title	Page Nos.
	Dedication	i
	Certificate	ii
	Declaration	iii
	Anti-Plagiarism Certificate	iv
	Acknowledgement	v-vi
	Contents	vii-ix
	List of Maps	x
	List of Tables	xi
	List of Figures	xii
	List of Plates (Line drawings)	xiii-xv
	List of Photo plates	xvi
	Abbreviation and glossary	xvii-xix
	Abstract	xx-xxiii
	CHAPTER-I INTRODUCTION	(1-12)
	1.1 General characteristics of monocot plants.	2
	1.2 Bodo community.	4
	1.3 Rabha community.	7
	1.4 Disease concepts, diagnosis and remedies of Bodo and Rabha community of Udalguri district.	10
	1.5 Present concept and scope.	11
	1.6 Aims and objectives.	12
	CHAPTER-II REVIEW OF LITERATURE	(13-20)
	2.1 Exploration of India with special reference to Assam.	14
	CHAPTER-III METHODOLOGY	(21-39)
	3.1 Survey and collection.	22
	3.2 Herbarium techniques.	22
	3.3 Study of herbarium specimen.	23
	3.4 Identification and nomenclature of specimens.	23
	3.5 Documentation of RET-Monocot plants.	24
	3.6 Questionnaire method.	24

3.7 Evaluation of data.	25
3.8 Analysis and presentation of data.	26
3.9 Geographical profile.	28
3.10 Seasonal characters.	34
CHAPTER-IV RESULTS OF TAXONOMIC TREATMENT (40-270)	
4.1 List of families in sequence.	41
4.2 Key to families.	42
4.3 Enumeration of Monocotyledons, key to genera and key to species of respective respective families with botanical description of species.	44
CHAPTER-V RESULTS OF ETHNOBOTANICAL STUDY OF BODO AND RABHA COMMUNITY (271-304)	
5.1 Bodo and Rabha people of Udalguri district.	272
5.2 Information recorded during period.	273
5.3 Monocot plants used by Bodo and Rabha people of Udalguri district.	283
5.4 Medicinal Monocot plants used by Bodo and Rabha people of Udalguri district.	288
5.5 Ethno veterinary or Ethno livestock practices of Bodo and Rabha people of Udalguri district.	303
CHAPTER-VI RESULTS AND DISCUSSION (305-323)	
6.1 Results.	306
6.1.1 Findings of present floristic survey.	306
6.1.2 Exotic Monocot species recorded in the study area.	312
6.1.3 Ethnobotanical Monocot plants used by Bodo and Rabha community of Udalguri district.	313
6.1.4 Monocot plant parts used by Bodo and Rabha community of Udalguri district.	316
6.1.5 Mode of utilisation of Monocot plants in the Udalguri district by Bodo and Rabha community.	317
6.1.6 Significant findings.	319
6.2 Discussion.	321

CHAPTER-VII SUMMARY AND CONCLUSION	(324-328)
7.1 Summary.	325
7.2 Conclusion.	326
REFERENCES	(329-351)
Photo file / plates	(29 plates)
Publications	(02 Nos.)

LIST OF MAPS

Map No.	Title	Page No.
Map-1.	The map of Udalguri district	30
Map-2.	Forest covered map of Udalguri district	31
Map-3.	Rivers covered map of Udalguri district	32
Map-4.	The map of Udalguri district, BTAD, showing surveyed area	33

LIST OF TABLES

Table No.	Title	Page No.
Table 1.	Meteorological data for the year 2014	36
Table 2.	Meteorological data for the year 2015	37
Table 3.	Meteorological data for the year 2016	38
Table 4.	Meteorological data for the year 2017	39
Table 5.	List of families with numbers of genus and species	41-42
Table 6.	Total population of Bodo and Rabha in Assam (according to 2001 census)	272
Table 7.	List of Monocot plant species used in ritual activities by Bodo and Rabha.	285-288
Table 8.	List of Monocotyledonous Medicinal plants used by the local Bodo people of Udalguri district.	289-297
Table 9.	List of Monocotyledonous Medicinal plants used by the local Rabha people of Udalguri district.	297-302
Table 10.	Family wise distribution of Monocotyledonous species with comparison to Assam's flora, 2005.	306-308
Table 11.	Five dominant Monocot families of Udalguri district on the basis of species.	309
Table 12.	Habit analysis.	310
Table 13.	Habitat analysis	311
Table 14.	Exotic species of Udalguri district.	312
Table 15.	Comparison of Medicinal plants used by the Bodo and Rabha community of Udalguri district.	313-315
Table 16.	Monocot plant parts used by Bodo and Rabha community	316
Table 17.	Showing the different modes of utilization of Monocot plants by Bodo and Rabha people.	317-318
Table 18.	Endemic taxa recorded during the present study.	319
Table 19.	RET- Monocot plants recorded in Udalguri districts.	320-321

LIST OF FIGURES

Figure No.	Title	Page No.
Figure 1.	Graphical representation of meteorological data for the year 2014.	36
Figure 2.	Graphical representation of meteorological data for the year 2015.	37
Figure 3.	Graphical representation of meteorological data for the year 2016.	38
Figure 4.	Graphical representation of meteorological data for the year 2017.	39
Figure 5.	Family wise analysis of Monocotyledon plants with % of spp. Representation of Udalguri district.	308
Figure 6.	a) Dominant Monocot families on the basis of genera of Udalguri district.	309
	b) Dominant Monocot families on the basis of species of Udalguri district.	309
Figure 7.	Distribution of different habits in (%).	310
Figure 8.	Habitat analysis in (%).	311
Figure 9.	Number and places of origin of exotic spp. Found in Udalguri district.	313
Figure 10.	Comparison of Medicinal plants used with Bodo and Rabha community of Udalguri district.	315
Figure 11.	a) Plant parts used and the number of species by Bodo community	316
	b) Plant parts used and the number of species by Rabha community	317
Figure 12.	Utilization of Monocot plants by Bodo and Rabha people in no. of plant species and in (%) of species	318

LIST OF LINE DRAWINGS (Plate 01 to Plate 61)

Name of Families	Plate No. of Monocot Species	Page No.
1. Hydrocharitaceae	1. <i>Hydrocharis cellulosa</i> Buch.-Ham. ex Prain	46
	2. <i>Ottelia alismoides</i> (L.) Pers.	47
	3. <i>Vallisneria spiralis</i> L.	49
2. Orchidaceae	4. <i>Arundina graminifolia</i> (D. Don) Hochr.	53
	5. <i>Rhynchosyilis retusa</i> (L.) Bl.	57
3. Zingiberaceae	6. <i>Curcuma zedoaria</i> Roscoe.	63
	7. <i>Elettaria cardamomum</i> (L.) Maton.	64
	8. <i>Hedychium coronarium</i> Koenig.	67
	9. <i>Zingiber zerumbet</i> (L.) Roscoe ex Smith.	71
4. Strelitziaceae	10. <i>Strelitzia reginae</i> Banks ex Aiton	73
5. Musaceae	11. <i>Musa paradisiaca</i> L.	78
6. Costaceae	12. <i>Costus speciosus</i> (J. Koenig) Sm.	80
7. Cannaceae	13. <i>Canna indica</i> L.	83
8. Marantaceae	14. <i>Maranta arundinacea</i> L.	86
9. Bromeliaceae	15. <i>Ananas comosus</i> (L.) Merr.	88
10. Iridaceae	16. <i>Eleutherine balbosa</i> (Mill.) Urb.	90
11. Amaryllidaceae	17. <i>Crinum asiaticum</i> L.	93
12. Agavaceae	18. <i>Sansevieria roxburghiana</i> Schult. & Schult. f.	96
13. Hypoxidaceae	19. <i>Curculigo orchiioides</i> Gaertn.	98
14. Dioscoreaceae	20. <i>Dioscoria glabra</i> Roxb.	102
15. Liliaceae	21. <i>Allium cepa</i> L.	106
	22. <i>Allium sativum</i> L.	107
16. Asparagaceae	23. <i>Asparagus racemosus</i> Willd.	110
17. Smilacaceae	24. <i>Smilax perfoliata</i> Lour.	112

18. Pontederiaceae	25. <i>Monochoria hastata</i> (L.) Solms	115
	26. <i>Monochoria vaginalis</i> (Burm. f.) C. Presl. ex Kunth	116
19. Commelinaceae	27. <i>Commelina benghalensis</i> L.	119
	28. <i>Murdania nudiflora</i> (L.) Brenan.	122
20. Arecaceae	29. <i>Areca catechu</i> L.	126
21. Pandanaceae	30. <i>Pandanus odorifer</i> (Forssk.) Kuntze	134
22. Juncaceae	31. <i>Juncus articulatus</i> L.	136
23. Araceae	32. <i>Acorus calamus</i> L.	139
	33. <i>Colocasia esculenta</i> (L.) Schott	144
	34. <i>Pistia stratiotes</i> L.	148
	35. <i>Typhonium trilobatum</i> Schott	150
24. Typhaceae	36. <i>Typha angustata</i> Bory & Chaub.	152
25. Lemnaceae	37. <i>Lemna purpusilla</i> Torrey.	155
26. Allismataceae	38. <i>Sagittaria guayanensis</i> Kunth	158
	39. <i>Sagittaria trifolia</i> L.	159
27. Najadaceae	40. <i>Najas minor</i> All.	161
28. Eriocaulaceae	41. <i>Eriocaulon achiton</i> Korn.	163
29. Cyperaceae	42. <i>Cyperus compactus</i> Retz.	172
	43. <i>Cyperus iria</i> L.	175
	44. <i>Cyperus rotundus</i> L.	178
	45. <i>Kyllinga brevifolius</i> Rottb.	186
	46. <i>Scirpus articulatus</i> L.	190
30. Poaceae	47. <i>Axonopus compressus</i> (Sw.) P. Beauv.	203
	48. <i>Bambusa nutans</i> Wall. ex Munro.	207
	49. <i>Chrysopogon aciculatus</i> (Retz.) Trin.	213
	50. <i>Cymbopogon jwarancusa</i> (Jones) Schult.	217
	51. <i>Cynodon dactylon</i> (L.) Pers.	220
	52. <i>Dactyloctenium aegyptium</i> (L.) P. Beauv.	222

	53. <i>Eleusine corocona</i> (L.) Gaertn.	229
	54. <i>Eleusine indica</i> (L.) Gaertn.	230
	55. <i>Eragrostis tenella</i> (L.) P. Beauv.	235
	56. <i>Imperata cylindrica</i> (L.) Raeusch.	240
	57. <i>Leersia hexandra</i> Sw.	243
	58. <i>Oplismenus burmannii</i> (Retz.) P. Beauv.	247
	59. <i>Paspalum orbiculare</i> Forst.	253
	60. <i>Setaria glauca</i> (L.) P. Beauv.	262
	61. <i>Sporobolus fertilis</i> (Steud.) Clayton	265

LIST OF PHOTO PLATES / FILES

Sl. No.	Title	Page No.
1.	Glimpses of the Field Work of Ethnobotany of Bodo and Rabha community in Udalguri district.	276-282
2.	Natural Habitat of an interesting and an important Monocot Species of Udalguri district.	Total-22 plates