

A checklist of angiospermic flora of Zunheboto district of Nagaland, India

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Abstract

Zunheboto is one of the 11 districts of Nagaland and is located centrally in the State. The paper enumerates a total of 656 taxa of flowering plants belonging to 377 genera and 101 families. Out of 656 taxa; 500 species; 3 subspecies; 20 varieties and 1 forma with 302 genera under 82 families belongs to dicotyledons and 130 species; 2 varieties with 75 genera under 19 families belongs to monocotyledons.

Key words: Angiospermic flora; Zunheboto; Nagaland.

INTRODUCTION

Zunheboto is one of the 11 districts of Nagaland and is located centrally in the State with its headquarter at Zunheboto town. The district lies between 25°27' to 26°18' North latitudes and 94°15' to 94°40' East longitudes and occupies an area of 1255 sq km i.e.; 7.5 % of the total area of Nagaland. The altitude ranges from 600 meters to 2400 meters above the mean sea level. The eastern part (600 to 2400 m) of the district bordering Tuensang has higher altitude and the western part (600 to 1800 m) bordering Wokha is comparatively less high.

From the records of the botanical literatures a few earlier workers who has done botanical works in the State are Clarke (1887); Hooker (1872-1897); Kanjilal *et al* (1934 – 1940); Jamir & Rao (1988); Singh & Sinha (1994); Hynniewta (1999). But; till date; there is no authentic botanical work done in Zunheboto district except a few recent communications by Chaturvedi & Moaakum (2007; 2008 a; b); Moaakum & Dey (2013) and Moaakum *et al* (2014). To fill up the gap in the botanical exploration of the State the present study was taken up to gather firsthand information of flowering plant diversity of the Zunheboto district. During the study period selected localities of 8 circles in Zunheboto district viz.; Pughoboto; Satakha; Zunheboto Sadar; Atiozu; Asuto; Suruhoto; Akuluto and V.K. were explored extensively.

Following Champion & Seth 1968; Giri *et al.* 2006; its geographical location; climate; topography; dominant species composition; and based on all the previous works on the classification of the forest types of this region and the personal observation the vegetation of the study area consist of tropical deciduous forest; tropical evergreen and semi-evergreen forest; Sub-tropical mixed forest; Temperate forest; and Mixed bamboo breaks.



PLATE - 1: Location map of the study area, the Zunheboto district Of Nagaland State in India

MATERIALS AND METHODS

To obtain detailed information about plants of Zunheboto district; numerous locations in eight circles of the district were surveyed for four years starting from 2005; covering all seasons of the year. Collected specimens were processed following conventional technique (Jain & Rao 1977) and were identified with the help of regional and national floras and available other literatures including Hooker (1872-1897); Kanjilal *et al.* (1934-1940); Balakrishnan (1981-83); Haridasan & Rao (1985-1987); Hajra *et al* (eds.) (1996); Grierson & Long (1983-2001); Singh *et al* (eds.) (2002) and were confirmed by matching at ASSA and CAL and deposited in Herbarium of the Botany Department; Nagaland University. For convenience and general understanding the sequence of arrangement of families has been followed after Bentham & Hooker's (1862 - 1883) which is commonly adopted in most Indian herbaria; with modification according to recent workers (Hutchinson 1973 and Cronquist 1981) and for family delimitation APG-III (2009) system is adopted in the present communication.

RESULT AND DISCUSSION

From the present survey as much as 656 taxa of flowering plants i.e.; 630 species; 3 sub-species; 22 varieties; and 1 forma; have been recorded belonging to 101 families and 377 genera as summarized in Table 1 and the details of the flora has been provided in ANNEXURE – I.

Table -1. Numerical representation of the angiospermic flora of Zunheboto district

Groups	Families	Genera	Species	Subsp.	Variety	Forma
Magnoliopsida (Dicots)	82	302	500	03	20	01
Liliopsida (Monocots)	19	75	130	-	02	00
Total	101	377	630	03	22	01

Leguminosae (51 species) is found as the most dominant taxon followed by Rubiaceae (36 species) and Zingiberaceae (35 species). 31 families are represented by single genus. *Hedychium* (16 species) is the most represented genus followed by *Desmodium* (11 species) and *Strobilanthes* (8 species). A comparative data of Dicots and Monocots shows the presence of 81.19 % of Dicotyledons and 18.81 % of monocotyledons in the study area.

CONCLUSION

As Zunheboto district enjoys a wide range of tropical to temperate climatic conditions; the floristic composition of the district shows similar affinities to those of Eastern Himalayan region and exhibit common migrant species from South-East Asian-Malaysian elements. Occurrence of species in different habitats in many degrading primary forest; including many endemic species expresses the species richness. The conservation status of biodiversity in the study area is very poor due to non-existence of protected forest in actual practice. Due to the practice of Jhuming cultivation; cutting of trees for fire-wood and stone queering the species diversity of the region is threatened as result of their habitat transformation and over exploitation. Invasive alien species is one of the major concern since the alien species do not supports in the coexistence of many indigenous species (Das 2002); as a result many local species gets suppressed and later on becomes eliminated; ultimately resulting in the loss of our original natural vegetation.

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ANNEXURE - I

Angiosperm taxa occurring in Zunheboto district of Nagaland [families arranged according to the system of Bentham & Hooker (1862 – 1883), with family delimitation following APG III (2009) system and minor taxa arranged in horizontal sequence]

Sl. no.	Taxa with voucher specimens
1.	RANUNCULACEAE <i>Ranunculus cantoniensis</i> A.P. de Candolle [M-0433]
2.	ANNONACEAE <i>Gonoithalamus sesquipetalis</i> (Wallich) Hooker f. & Thomson [M-0812]
3.	MENISPERMACEAE <i>Stephania glandulifera</i> Miers [M-0858]; <i>Cissampelos pareira</i> var. <i>hirsuta</i> Buchanan- Hamilton ex A.P. de Candolle) Forman [M-0375]
4.	BERBERIDACEAE <i>Mahonia napaulensis</i> A.P. de Candolle [M-1045]
5.	FUMARIACEAE <i>Corydalis leptocarpa</i> Hooker f. & Thomson [M-0788]; <i>Dicentra scandens</i> (D. Don) Walpers [M-0132]; <i>D. macrocapnos</i> Prain [M-0182]
6.	BRASSICACEAE <i>Cardamine hirsuta</i> Linnaeus [M-0300]
7.	CAPPARACEAE <i>Capparis multiflora</i> Hooker f. & Thomson [M-0921]; <i>C. acutifolia</i> subsp. <i>bodinieri</i> (A. Leveille) Jacobs [M-0325]; <i>C. tenera</i> Dalzell [M-0991]; <i>Crataeva magna</i> (Loureiro) A.P. de Candolle [M-0674]; <i>Stixis scandens</i> Loureiro [M-0662]
8.	VIOLACEAE <i>Viola hamiltoniana</i> D. Don [M-0796]
9.	FLACOURTIACEAE <i>Casearia vareca</i> Roxburgh [M-0986]
10.	POLYGALACEAE <i>Polygala arillata</i> Hamilton [M-0175]; <i>Polygala chinensis</i> Linnaeus [M-0166]; <i>Salomonina cantoniensis</i> Loureiro [M-0167]
11.	CARYOPHYLLACEAE <i>Brachystemma calycinum</i> D. Don [M-0314]
12.	HYPERICACEAE <i>Hypericum elodeioides</i> Choisy [M-0937]; <i>Hypericum uralum</i> Buchanan- Hamilton ex D. Don [M-0181]
13.	CLUSIACEAE <i>Garcinia affinis</i> Wallich [M-0975]
14.	THEACEA <i>Schima wallichii</i> (A.P. de Candolle) Korthals [M-1172]
15.	ACTINIDIACEAE <i>Saurauia napaulensis</i> A.P. de Candolle [M-0137]; <i>S. panduana</i> Wallich [M-0103]; <i>S. roxburghii</i> Wallich [M-0987]
16.	MALVACEAE <i>Abroma augusta</i> Linnaeus [M-1000]; <i>Firmiana colorata</i> (Roxburgh) R. Brown [M-0583]; <i>F. fulgens</i> (Wallich ex Masters) K. Schumann [M-1085]; <i>Reevesia wallichii</i> f. <i>pubescence</i> (Masters) Malick [M-0949]; <i>Sterculia hamiltonii</i> (O. Kuntze) Adelbert [M-0470]; <i>Bombax ceiba</i> Linnaeus [M-1041]; <i>Kydia calycina</i> Roxburgh [M-0495]; <i>K. glabrescens</i> Masters [M-1073]; <i>Sida acuta</i> Burman f. [M-0753]; <i>S. rhombifolia</i> Linnaeus [M-0033]; <i>Urena lobata</i> Linnaeus [M-0045]; <i>Colona floribunda</i> (Kurz) Carib [M-0989]; <i>Grewia abutilifolia</i> Jussieu [M-0344]; <i>G. serrulata</i> A. P. de Candolle [M-0158]; <i>Triumfetta pilosa</i> Roth [M-0257]; <i>T. rhomboidea</i> Jacquin [M-0501]
17.	ELAEOCARPACEAE <i>Elaeocarpus floribundus</i> Blume [M-0779]
18.	GERANIACEAE <i>Geranium nepalense</i> Sweet [M-0299]

Sl. no.	Taxa with voucher specimens
19.	OXALIDACEAE <i>Oxalis corniculata</i> Linnaeus [M-0035]; <i>O. corymbosa</i> Linnaeus [M-0350]
20.	BALSAMINACEAE <i>Impatiens arguta</i> Hooker f. & Thomson [M-0420]; <i>I. discolor</i> A. P. de Candolle [M-0508]; <i>I. laevigata</i> Wallich [M-0419]; <i>I. latiflora</i> Hooker f. & Thomson [M-0507]; <i>I. porrecta</i> Wallich [M-0145]; <i>I. stenantha</i> Hooker f [M-0370]; <i>I. tropaeoliflora</i> Griffith ex Hooker f. [M-0128]
21.	RUTACEAE <i>Boeninghausenia albiflora</i> (Hooker) Reichenbach ex Meisner [M-0176]; <i>Micromelum integerrimum</i> (Buchanan-Hamilton ex A.P. de Candolle) Wight & Arnott M. Roemer [M-0530]; <i>Zanthoxylum armatum</i> A.P. de Candolle [M-0677]; <i>Zanthoxylum rhetsa</i> A.P. de Candolle [M1093]
22.	MELIACEAE <i>Aglaiia perviridis</i> Hiern [M-0913]; <i>Trichilia connaroides</i> (Wight & Arnott) Bentvelzen [M-0628]
23.	RHAMNACEAE <i>Gouania microcarpa</i> A. P. de Candolle [M-0906]; <i>G. tiliaefolia</i> Lamarck [M-1095]
24.	VITACEAE <i>Ampelocissus divaricata</i> (Wallich ex M.A. Lawson) Planchon [M-1054]; <i>Cayratia japonica</i> (Thunberg) Gagnepain [M-0731]; <i>Cissus adnata</i> Roxburgh [M-0377]; <i>C. repens</i> Lamarck [M-0990]; <i>Tetrastigma obovatum</i> Gagnepain [M-0403]; <i>Leea compactiflora</i> Kurz [M-0636]; <i>L. guineensis</i> G. Don [M-0381]; <i>L. macrophylla</i> Roxburgh ex Hornemann [M-0670]
25.	SAPINDACEAE <i>Acer thomsonii</i> Miquel [M-0896]
26.	SABIACEAE <i>Sabia limoniacea</i> Wallich ex Hooker f. & Thomson [M-0733]
27.	ANACARDIACEAE <i>Mangifera indica</i> Linnaeus [M-0895]; <i>Rhus khasiana</i> Hooker f. [M-0950]; <i>R. punjabensis</i> J.L. Stewart ex Brandis [M-1003]; <i>Rhus chinensis</i> Miller [M-0744]
28.	LEGUMINOSAE <i>Abrus pulchellus</i> Thwaites [M-0243]; <i>Spatholobus parviflora</i> (A.P. de Candolle) Kuntze [M-0322]; <i>Crotalaria ferruginea</i> Benthham [M-0224]; <i>C. occulta</i> Benthham [M-0780]; <i>C. pallida</i> Aiton [M-0592]; <i>C. cytisoides</i> A.P. de Candolle [M-0133]; <i>Dalbergia stipulacea</i> Roxburgh [M-0351]; <i>D. pinnata</i> (Lour.) Prain [M-0323]; <i>Derris pseudorobusta</i> Thothathri [M-0048]; <i>D. robusta</i> (A.P. de Candolle) Benthham [M-0347]; <i>Desmodium concinnum</i> A.P. de Candolle [M-0232]; <i>D. griffithianum</i> Benthham [M-0262]; <i>D. gyroides</i> A.P. de Candolle [M-0879]; <i>D. heterocarpon</i> var. <i>strigosum</i> Van Meeuwen [M-0113]; <i>D. heterophyllum</i> (Wildenow) A.P. de Candolle [M-0244]; <i>D. laxiflorum</i> A.P. de Candolle [M-0260]; <i>D. motorium</i> (Houttuyn) Merrill [M-0751]; <i>D. multiflorum</i> A.P. de Candolle [M-0185]; <i>D. sequax</i> Wallich [M-0210]; <i>D. triflorum</i> (Linnaeus) A.P. de Candolle [M-0250]; <i>D. triquetrum</i> (Linnaeus) A.P. de Candolle [M-0290]; <i>Erythrina stricta</i> Roxburgh [M-0565]; <i>Flemingia macrophylla</i> (Wildenow) O. Kuntze ex Merrill [M-1021]; <i>F. stricta</i> Roxburgh [M-0851]; <i>Indigofera cylindrica</i> Wallich ex Baker [M-0151]; <i>Mastersia assamica</i> Benthham [M-0122]; <i>Millettia cinerrea</i> Benthham [M-0781]; <i>M. pachycarpa</i> Benthham [M-0328]; <i>M. Pulchra</i> Kurz [M-0489]; <i>Mucuna imbricata</i> A.P. de Candolle [M-0368]; <i>M. pruriens</i> (Linnaeus) A.P. de Candolle [M-0295]; <i>Phaseolus vulgaris</i> Linnaeus [M-0246]; <i>Pueraria peduncularis</i> (Benthham) Benthham [M-0201]; <i>P. phaseoloides</i> Benthham [M-0258]; <i>Tephrosia candida</i> A.P. de Candolle [M-0256]; <i>Vigna radiata</i> (Linnaeus) Wilczek [M-0247]; <i>Bauhinia variegata</i> Linnaeus [M-0870]; <i>Cassia fistula</i> Linnaeus [M-1167]; <i>Cassia javanica</i> subsp. <i>nodosa</i> (Roxburgh) K. Larsen & S.S. Larsen [M-0976]; <i>Chamaecrista mimosoides</i> (Linnaeus) Greene [M-0249]; <i>Senna occidentalis</i> (Linnaeus) Link [M-1142]; <i>S. sophera</i> (Linnaeus) Roxburgh [M-0275]; <i>S. tora</i> (Linnaeus) Roxburgh [M-1017]; <i>Acacia caesia</i> var. <i>subnuda</i> (Craib) Nielsen [M-1081]; <i>A. pennata</i> (Linnaeus) Willdenow [M-1082]; <i>A. pruinescens</i> Kurz [M-1155]; <i>Albizia chinensis</i> (Osbeck) Merrill [M-0777]; <i>Archidendron clypearia</i> (Jack) I.C. Nielsen [M-0893]; <i>Entada rheedei</i> Sprengel [M-0355]; <i>Mimosa pudica</i> Linnaeus [M-0037]; <i>Parkia timoriana</i> (A.P. de Candolle) Merrill [M-1116]
29.	ROSACEAE <i>Agrimonia pilosa</i> Ledebour [M-0227]; <i>Docynia indica</i> (Wallich) Decaisne [M-0690]; <i>Neillia thyrsiflora</i> D. Don [M-0448]; <i>Potentilla sundiaca</i> (Blume) Kuntze [M-0019]; <i>Rubus indotibetanus</i> Koidzumi [M-0297]; <i>R. ellipticus</i> Smith [M-0303]; <i>R. ferox</i> Roxburgh [M-0207]; <i>R. rugosus</i> Smith [M-0809]

Sl. no.	Taxa with voucher specimens
30.	ITEACEAE <i>Itea chinensis</i> Hooker & Arnott [M-0958]; <i>I. macrophylla</i> Wallich [M-0632]
31.	COMBRETACEAE <i>Combretum acuminatum</i> Roxburgh [M-0783]
32.	MYRTACEAE <i>Syzygium jambos</i> (Linnaeus) Alston [M-0326]; <i>S. syzygioides</i> (Miquel) Merrill & Perry [M-0332]
33.	MELASTOMATACEAE <i>Medinilla erythrophylla</i> Lindley [M-0198]; <i>Melastoma nepalense</i> Loddiges [M-0003]; <i>Osbeckia nepalensis</i> Hooker f. [M-0254]; <i>O. sikkimensis</i> Walpers [M-0253]; <i>O. stellata</i> Buchanan-Hamilton ex Ker Gawler [M-1068]; <i>Oxyspora vagans</i> (Roxburgh) Wallich [M-0483]; <i>Sarcopyramis nepalensis</i> Wallich [M-0234]; <i>Sonerila khasiana</i> C.B. Clarke [M-0199]; <i>S. maculata</i> Roxburgh [M-1005]
34.	LYTHRACEAE <i>Cuphea carthagenensis</i> (Jacquin) J.F. Macbride [M-0005]; <i>C. procumbens</i> Cavanilles [M-0015]
35.	ONAGRACEAE <i>Circaea repens</i> Wallich ex Ascherson & Magnus [M-0184]; <i>Epilobium brevifolium</i> subsp. <i>trichoneurum</i> (Haussknecht) P.H. Raven [M-0183]; <i>Oenothera rosea</i> Aiton [M-0696]
36.	PASSIFLORACEAE <i>Adenia trilobata</i> (Roxburgh) Engler [M-0041]; <i>Passiflora adenophylla</i> Master [M-0146]; <i>P. edulis</i> Sims [M-1173]; <i>P. leschenaultii</i> A.P. de Candolle [M-0296]; <i>P. stipulata</i> Aublet [M-0660]
37.	CUCURBITACEAE <i>Gynostemma pentaphylla</i> (Thunberg) Makino [M-0675]; <i>Herpetospermum pedunculatum</i> (Seringe) Baillon [M-0424]; <i>Hodgsonia marcocarpa</i> (Blume) Cogniaux [M-0892]; <i>Luffa cylindrica</i> (Linnaeus) M. Roemer [M-1156]; <i>Momordica dioica</i> Willdenow [M-0977]; <i>Mukia maderaspatana</i> (Linnaeus) M. Roemer [M-0239]; <i>Solena amplexicaulis</i> (Lamarck) Gandhi [M-0129]; <i>Thladiantha cordifolia</i> (Blume) Cogniaux [M-0423]; <i>T. hookeri</i> C.B. Clarke [M-0283]; <i>Trichosanthes cordata</i> Roxburgh [M-0466]; <i>T. cucumerina</i> Linnaeus [M-1055]; <i>T. lepiniana</i> (Naudin) Cogniaux [M-0997]; <i>T. ovigera</i> Blume [M-0736]; <i>T. tricuspidata</i> Loureiro [M-0154]; <i>T. wallichiana</i> (Seringe) Wight [M-0396]
38.	BEGONIACEAE <i>Begonia annulata</i> Koch [M-0421]; <i>B. palmata</i> D. Don [M-0933]; <i>B. picta</i> Smith [M-0225]; <i>B. roxburghii</i> Miquel [M-0930]; <i>B. sikkimensis</i> A.P. de Candolle [M-0213]
39.	APIACEAE <i>Centella asiatica</i> (Linnaeus) Urban [M-1104]; <i>Eryngium feotidum</i> Linnaeus [M-0039]; <i>Oenanthe javanica</i> (Blume) A.P. de Candolle [M-0918]; <i>Oenanthe thomsonii</i> C.B. Clarke [M-0449]; <i>Sanicula elata</i> D. Don [M-0209]; <i>Torilis japonica</i> (Houttuyn) A.P. de Candolle [M-0625]
40.	ARALIACEAE <i>Aralia thomsonii</i> Seemann ex C.B. Clarke [M-0999]; <i>Hydrocotyle javanica</i> Thunberg [M-0652]; <i>Macropanax dispermus</i> (Blume) O. Kuntze [M-1102]; <i>Schefflera venulosa</i> (Wight & Arnott) Harms [M-0445]; <i>S. wallichiana</i> (Wight & Arnott) Harms [M-0965]; <i>Trevesia palmata</i> (Roxburgh) Visiani [M-0814]
41.	ALANGIACEAE <i>Alangium chinensis</i> (Loureiro) Harms [M-0840]
42.	CAPRIFOLIACEAE <i>Sambucus javanica</i> Blume [M-0995]; <i>Viburnum cylindricum</i> Buchanan-Hamilton ex D. Don [M-0162]; <i>Viburnum mullaha</i> D. Don [M-0953]
43.	RUBIACEAE <i>Anotis wightiana</i> Hooker f. [M-1007]; <i>Galium asperifolium</i> Wallich [M-0842]; <i>Hedyotis auricularia</i> Linnaeus [M-0437]; <i>Hedyotis verticillata</i> (Linnaeus) Lamarck [M-0496]; <i>Hedyotis scandens</i> Roxburgh [M-0499]; <i>Hedyotis tenelliflora</i> Blume [M-0446]; <i>Ixora acuminata</i> Roxburgh [M-0690]; <i>Morinda angustifolia</i> Roxburgh [M-0349]; <i>Mussaenda glabra</i> Vahl [M-0447]; <i>M. macrophylla</i> Wallich [M-0379]; <i>M. roxburghii</i> Hooker f. [M-0380]; <i>Mycetia longifolia</i> (Wallich) O. Kuntze [M-0412]; <i>Ophiorrhiza calcarata</i> Hooker f. [M-1075]; <i>O. fasciculata</i> D. Don [M-0397]; <i>O. griffithii</i> Hooker f. [M-0441]; <i>O. ochroleuca</i> Hooker f. [M-0434]; <i>O. oppositifolia</i> Hooker f. [M-0600]; <i>O. pauciflora</i> Hooker f. [M-0190]; <i>O. rugosa</i> var. <i>merguensis</i> (Hooker f.) Deb & Mondal [M-0630]; <i>O. rugosa</i> var. <i>prostrata</i> (D. Don) Deb & Mondal [M-0940]; <i>O. succirubra</i> King [M-0793]; <i>Pavetta indica</i> Linnaeus [M-0594];

Sl. no.	Taxa with voucher specimens
	<i>Paederia scandens</i> Linnaeus [M-0139]; <i>Psychotria denticulata</i> Wallich [M-0595]; <i>P. erratica</i> Hooker f. [M-0845]; <i>P. symplocifolia</i> Kurz [M-0863]; <i>Rubia cordifolia</i> Linnaeus [M-0846]; <i>R. sikkimensis</i> Kurz [M-0939]; <i>Spermacoce ocymoides</i> Burman f. [M-0713]; <i>Spiradiclis bifida</i> Kurz [M-0467]; <i>S. cylindrica</i> Hooker f. [M-0409]; <i>Wendlandia coriacea</i> A.P. de Candolle [M-0890]; <i>W. grandis</i> (Hooker f.) Cowan [M-0305]; <i>W. paniculata</i> A.P. de Candolle [M-0570]; <i>W. puberula</i> A.P. de Candolle [M-0331]; <i>W. tinctoria</i> A. P. de Candolle [M-0651]
44.	ASTERACEAE <i>Ageratum conyzoides</i> Linnaeus [M-1119]; <i>Anaphalis adnata</i> A.P. de Candolle [M-0576]; <i>A. contorta</i> Hooker f. [M-0031]; <i>A. griffithii</i> Hooker f. [M-0206]; <i>Artemisia nilagirica</i> (Clarke) Pampanini [M-0498]; <i>Bidens bipinnata</i> Linnaeus [M-0479]; <i>Blumea laciniata</i> A.P. de Candolle [M-0860]; <i>B. procera</i> A.P. de Candolle [M-0316]; <i>B. riparia</i> (Blume) A.P. de Candolle [M-0308]; <i>Eclipta prostrata</i> (Linnaeus) Linnaeus [M-0010]; <i>Elephantopus scaber</i> Linnaeus [M-0502]; <i>Emilia sonchifolia</i> A.P. de Candolle [M-0873]; <i>Eupatorium adenophorum</i> Sprengel [M-1130]; <i>E. odoratum</i> Linnaeus [M-1131]; <i>E. riparium</i> Regal [M-1044]; <i>Galinsoga parviflora</i> Cavanilles [M-0008]; <i>Inula cappa</i> A.P. de Candolle [M-0276]; <i>Microglossa pyrifolia</i> (Lamarck.) O. Kuntze [M-0897]; <i>Mikania micrantha</i> Kunth [M-0273]; <i>Senecio jowainis</i> Balakrishnan [M-0193]; <i>S. scandens</i> D. Don [M-0315]; <i>Sonchus wightianus</i> A.P. de Candolle [M-0330]; <i>Spilanthes calva</i> A.P. de Candolle [M-0480]; <i>S. paniculata</i> A.P. de Candolle [M-0203]; <i>Synedrella nodiflora</i> Gaertner [M-0477]; <i>Tithonia rotundifolia</i> (Miller) S.F. Blake [M-1180]; <i>Vernonia cineria</i> (Linnaeus) Less [M-0572]; <i>V. extensa</i> A.P. de Candolle [M-0287]; <i>V. talaumifolia</i> Hooker f. & Thomson [M-0278]; <i>V. volkameriaefolia</i> A.P. de Candolle [M-0370]; <i>Wedelia biflora</i> A.P. de Candolle [M-0460]; <i>W. Montana</i> (Blume) Boerlage [M-0197]
45.	CAMPANULACEAE <i>Codonopsis javanica</i> (Blume) Hooker f. [M-0186]; <i>Lobelia nicotianifolia</i> Roth ex Schultes [M-0523]; <i>L. seguinii</i> var. <i>doniana</i> Wimmer [M-0267]; <i>L. zeylanica</i> Linnaeus [M-0811]; <i>Pratia nummularia</i> (Lamarck) A. Braun & Ascherson [M-0484]
46.	ERICACEAE <i>Agapetes salicifolia</i> C.B. Clarke [M-0621]; <i>Vaccinium vacciniaceum</i> (Roxburgh) Sleumer [M-0912]
47.	MYRSINACEAE <i>Amblyanthes glandulosus</i> (Roxburgh) A.P. de Candolle [M-0639]; <i>Ardisia griffithii</i> C.B. Clarke [M-0887]; <i>A. virens</i> Kurz [M-0607]; <i>Embelia floribunda</i> Wallich [M-1046]; <i>E. nutans</i> Wallich [M-0881]; <i>E. ribes</i> Burman f. [M-0321]; <i>Maesa indica</i> Wallich [M-0318]; <i>M. chisia</i> Buchanan-Hamilton ex D. Don [M-0009]
48.	EBENACEAE <i>Diospyros lanceaefolia</i> Roxburgh [M-1103]
49.	STYRACEAE <i>Styrax serrulatum</i> Roxburgh [M-0001]
50.	OLEACEAE <i>Jasminum laurifolium</i> Roxburgh [M-0813]; <i>Jasminum nervosum</i> Loureiro [M-0813]
51.	APOCYNACEAE <i>Chonemorpha griffithii</i> Hooker f. [M-0924]; <i>Holarrhena pubescens</i> (Buchanan-Hamilton) Wallich ex G. Don [M-0342]; <i>Ichnocarpus frutescens</i> R. Brown [M-0367]; <i>Asclepias curassavica</i> Linnaeus [M-0644]; <i>Cryptolepis dubai</i> (Burman f.) M.R. Almeida [M-0774]; <i>C. grandiflora</i> Wight [M-0968]; <i>C. sinensis</i> (Loureiro) Merrill [M-0135]; <i>Cynanchum wallichii</i> Wight [M-0242]; <i>Gomphocarpus physocarpus</i> E. Meyer [M-0341]; <i>Gongronema nepalense</i> (Wallich) Decaisne [M-0117]; <i>Hoya arnotiana</i> Wight [M-0942]; <i>H. linearis</i> Wallich ex D. Don [M-0942]; <i>H. longifolia</i> Wallich [M-0620]; <i>H. ployneura</i> Hooker f. [M-0892]; <i>H. vaccinioides</i> Hooker f. [M-0202]; <i>Myriopterion paniculatum</i> Griffith [M-0994]; <i>Pentanura khasiana</i> Kurz [M-0348]; <i>Pentasacme caudatum</i> Wallich [M-0365]
52.	BUDDLEJACEAE <i>Buddleja asiatica</i> Loureiro [M-0521]
53.	GENTIANACEAE <i>Canscora andrographioides</i> Griffith [M-0286]; <i>Gentiana speciosa</i> (Wallich) Marquand [M-0294]; <i>Tripterispermum volubile</i> (D. Don) H. Hara [M-0189]
54.	BORAGINACEAE

Sl. no.	Taxa with voucher specimens
	<i>Cordia dichotoma</i> G. Forster [M-0641]; <i>Ehretia acuminata</i> var. <i>serrata</i> Roxburgh [M-0708]
55.	CONVOLVULACEAE <i>Argyrea capitata</i> (Vahl) Choisy [M-0271]; <i>Ipomoea involucreta</i> Beauvisage [M-0285]; <i>I. purpurea</i> Lamarck [M-0711]; <i>I. quamoclit</i> Linnaeus [M-0722]; <i>Merremia umbellata</i> (Linnaeus) Hallier f. [M-0724]; <i>Porana racemosa</i> Roxburgh [M-0268]
56.	SOLANACEAE <i>Brugmansia suaveolens</i> (Humboldt & Bonpland ex Willdenow) Berchtold & J.S. Presl [M-1181]; <i>Nicandra physaloides</i> (Linnaeus) Gaertner [M-1020]; <i>Nicotiana tabacum</i> Linnaeus [M-0917]; <i>Physalis divaricata</i> D. Don [M-0358]; <i>Solanum ferox</i> Linnaeus [M-0522]; <i>S. nigrum</i> Linnaeus [M-0833]; <i>S. torvum</i> Swartz [M-0609]
57.	LINDERNIACEAE <i>Lindernia antipoda</i> (Linnaeus) Alston [M-0265]; <i>L. montana</i> (Blume) Koorders [M-0738]; <i>L. procumbens</i> (Krocker) Borbas [M-0401]; <i>Picria felterrae</i> Loureiro [M-0211]; <i>Torenia cordifolia</i> Roxburgh [M-1079]; <i>T. diffusa</i> D. Don [M-0056]; <i>T. violacea</i> (Blanco) Pennell [M-0288]
58.	OROBANCHACEAE <i>Aeginetia indica</i> Roxburgh [M-0123]; <i>Alectra avensis</i> (Bentham) Merrill [M-0506]
59.	GESNERIACEAE <i>Aeschynanthus bracteatus</i> Wallich [M-0179]; <i>A. micranthus</i> C.B. Clarke [M-0827]; <i>A. parasiticus</i> (Roxburgh) Wallich [M-0622]; <i>A. parviflorus</i> (Roxburgh) Wallich [M-0718]; <i>A. sikkimensis</i> (C.B. Clarke) Stapf [M-0802]; <i>Chirita pumila</i> (Dieterich) D. Don [M-0426]; <i>Didymocarpus aromaticus</i> Wallich ex D. Don [M-0404]; <i>D. pulchra</i> C.B. Clarke [M-0180]; <i>Lysionotus conferta</i> C.B. Clarke [M-0685]; <i>Lysionotus serratus</i> D. Don [M-0161]; <i>Rhynchoglossum obliquum</i> Blume [M-0759]; <i>Rhynchotechum ellipticum</i> A.P. de Candolle [M-0195]
60.	BIGNONIACEAE <i>Stereospermum colais</i> (Buchanan-Hamilton ex Dillwyn) Mabberley [M-0966]
61.	PEDALIACEAE <i>Sesamum orientale</i> Linnaeus [M-0481]
62.	ACANTHACEAE <i>Acanthus leucostachyus</i> Wallich [M-0790]; <i>Barleria cristata</i> Linnaeus [M-0746]; <i>Hypoestes triflora</i> Roemer & Schultes [M-0293]; <i>Justicia adhatoda</i> Linnaeus [M-0327]; <i>J. japonica</i> Thunberg [M-0398]; <i>J. procumbens</i> Linnaeus [M-0220]; <i>J. quinqueangularis</i> König ex Roxburgh [M-0011]; <i>J. vasculosa</i> Wallich [M-0317]; <i>Lepidagathis incurva</i> D. Don [M-0519]; <i>Phaulopsis imbricata</i> (Forsskal) Sweet [M-0834]; <i>Phlogacanthus asperulus</i> Nees [M-0859]; <i>P. curviflorus</i> Nees [M-1069]; <i>P. tubiflorus</i> Nees [M-0525]; <i>Strobilanthes anisophyllus</i> T. Anderson [M-0187]; <i>S. boerhaavioides</i> T. Anderson [M-0188]; <i>S. coloratus</i> T. Anderson [M-0737]; <i>S. discolor</i> T. Anderson [M-0428]; <i>S. glomeratus</i> T. Anderson [M-0177]; <i>S. isophyllus</i> T. Anderson [M-0269]; <i>S. pectinatus</i> T. Anderson [M-0191]; <i>S. rhombifolius</i> C.B. Clarke [M-0491]; <i>Thunbergia coccinea</i> D. Don [M-0277]; <i>T. grandiflora</i> Roxburgh [M-0270]
63.	VERBENACEAE <i>Pseudocaryopteris foetida</i> (D. Don) P.D. Cantino [M-0304]; <i>C. bicolor</i> (Hardwicke) Mabberley [M-0150]; <i>Gmelina arborea</i> Roxburgh [M-1168]; <i>Holmskioldia sanguinea</i> Retzius [M-0500]; <i>Stachytarpheta jamaicensis</i> (Linnaeus) Vahl [M-0169]; <i>Verbena officinalis</i> Linnaeus [M-0695]
64.	LAMIACEAE <i>Callicarpa arborea</i> Roxburgh [M-0042]; <i>C. rubella</i> Lindley [M-0231]; <i>Clerodendron bracteatum</i> Wallich [M-1014]; <i>C. colebrookianum</i> Walpers [M-0284]; <i>C. philippinum</i> Schur [M-0340]; <i>C. serratum</i> (Linnaeus) Moon [M-0998]; <i>C. squamatum</i> Vahl [M-0091]; <i>C. viscosum</i> Ventenat [M-0043]; <i>C. wallichii</i> Merrill [M-0980]; <i>Premna pinguis</i> C.B. Clarke [M-0335]; <i>Ajuga bracteosa</i> Wallich ex Bentham [M-0238]; <i>A. macrosperma</i> Bentham [M-0536]; <i>A. macrosperma</i> var. <i>breviflora</i> Hooker f. [M-0875]; <i>Anisomeles indica</i> (Linnaeus) O. Kuntze [M-0699]; <i>Calamintha umbrosa</i> Bentham [M-0400]; <i>Elsholtzia blanda</i> (Bentham) Bentham [M-0457]; <i>Elsholtzia pilosa</i> Bentham [M-0360]; <i>Gomphostemma nutans</i> Hooker f. [M-0410]; <i>G. parviflorum</i> Wallich [M-0366]; <i>Leucas nutans</i> Sprenger [M-0230]; <i>L. ciliata</i> Bentham [M-0196]; <i>L. indica</i> (Linnaeus) R. Brown ex Vatke [M-0361]; <i>L. pilosa</i> Bentham [M-0490]; <i>Leucosceptrum canum</i> Smith [M-0936]; <i>Melissa axillaris</i> (Bentham) Bakhuizen f. [M-0440]; <i>Mesona parviflora</i> (Bentham) Briquet [M-0266]; <i>Ocimum basilicum</i> Linnaeus [M-0359]; <i>Paraphlomis javanica</i>

Sl. no.	Taxa with voucher specimens
	(Blume) Prain [M-0393]; <i>Pogostemon auricularius</i> (Linnaeus) Hasskarl [M-0282]; <i>P. parviflorus</i> Bentham [M-0493]; <i>Scutellaria discolor</i> Colebrooke [M-0251]
65.	PLANTAGINACEAE <i>Lindenbergia muraria</i> (Roxburgh ex D. Don) Bruhl [M-0237]; <i>Mecardonia procumbens</i> (Miller) Small [M-0006]; <i>Plantago erosa</i> Wallich [M-0439]; <i>Scoparia dulcis</i> Linnaeus [M-0789]
66.	AMARANTHACEAE <i>Achyranthes aspera</i> Linnaeus [M-0469]; <i>A. bidentata</i> Blume [M-0723]; <i>Alternanthera sissilis</i> (Linnaeus) R. Brown ex A.P. de Candolle [M-0717]; <i>Amaranthus viridis</i> Linnaeus [M-0710]; <i>Stilbanthus scandens</i> Hooker f. [M-0462]
67.	POLYGONACEAE <i>Aconogonum molle</i> var. <i>molle</i> (D. Don) H. Hara [M-0100]; <i>Persicaria chinensis</i> var. <i>brachiata</i> (Lamarck) H. Hara [M-0272]; <i>P. barbata</i> (Linnaeus) H. Hara [M-0171]; <i>P. microcephala</i> (D. Don) H. Gross [M-0044]; <i>P. nepalensis</i> (Meissen) H. Gross [M-0055]; <i>P. salicifolia</i> (Broussonet ex Willdenow) Assenov [M-0468]; <i>Polygonum plebeium</i> R. Brown [M-0023]; <i>Rumex patientia</i> Linnaeus [M-1080]
68.	PIPERACEAE <i>Peperomia heyneana</i> Miquel [M-0835]; <i>P. pellucida</i> (Linnaeus) Kunth [M-0444]; <i>Piper attenuatum</i> Hamilton [M-0645]; <i>P. boehmeriaefolium</i> Wallich [M-0916]; <i>P. griffithii</i> C. de Candolle [M-0792]; <i>P. longum</i> Linnaeus [M-0805]; <i>P. mullesua</i> D. Don [M-0590]; <i>P. sylvaticum</i> Roxburgh [M-0663]
69.	SAURURACEAE <i>Houttuynia cordata</i> Thunberg [M-0038]
70.	LAURACEAE <i>Actinodaphne obovata</i> Blume [M-0856]; <i>Alseodaphne khasyana</i> (Meissner) Kosterman [M-0961]; <i>Beilschmiedia fagifolia</i> Nees [M-0339]; <i>Cinnamomum bejolghota</i> (Buchanan-Hamilton) Sweet [M-0604]; <i>C. impressinervium</i> Meissner [M-0922]; <i>Lindera caudata</i> Bentham [M-0684]; <i>Litsea doshia</i> (Buchanan-Hamilton ex D. Don) Kostermans [M-0678]; <i>L. elongata</i> Wallich [M-0333]; <i>L. glutinosa</i> (Loureiro) C.B. Robins [M-1096]; <i>L. monopetala</i> (Roxburgh) Persoon [M-0562]; <i>L. salicifolia</i> Roxburgh [M-0673]; <i>L. salicifolia</i> var. <i>ellipsoidea</i> Meissner [M-0871]; <i>L. salicifolia</i> var. <i>elongata</i> Meissner [M-0343]; <i>Machilus parviflora</i> Meissner [M-0002]; <i>Phoebe lanceolata</i> (Nees) Nees [M-0028]
71.	ELAEAGNACEAE <i>Elaeagnus caudata</i> Schlecht ex Momiyama [M-0996]
72.	LORANTHACEAE <i>Helixanthera ligustrina</i> (Wallich) Danser [M-0844]; <i>H. parasitica</i> Loureiro [M-1169]; <i>Macrosolen cochinchinensis</i> (Loureiro) Tieghem [M-0334]; <i>Taxillus umbellifer</i> (Schultes) Danser [M-1012]; <i>Tolypanthus involucratus</i> (Roxburgh) Blume [M-0854]
73.	BALANOPHORACEAE <i>Balanophora dioica</i> Royle [M-1134]
74.	BUXACEAE <i>Sarcococca coriacea</i> (Hook) Sweet [M-0411]
75.	EUPHORBIACEAE <i>Alchornea tiliaefolia</i> Müller Argoviensis [M-0606]; <i>Antidesma acidum</i> Retzius [M-0948]; <i>Aporosa octandra</i> (Buchanan-Hamilton ex D. Don) Vickery [M-0582]; <i>Bischofia javanica</i> Blume [M-1002]; <i>Bridelia monoica</i> (Loureiro) Merrill [M-0732]; <i>B. pubescens</i> Kurz [M-0648]; <i>B. scandens</i> (Roxburgh) Willdenow [M-0885]; <i>Breynia retusa</i> (Dennst.) Alston [M-0337]; <i>Croton caudatus</i> Geiseler [M-0336]; <i>C. roxburghii</i> Balakrishnan [M-0899]; <i>C. tiglium</i> Linnaeus [M-0839]; <i>Flueggea virosa</i> (Roxburgh ex Willdenow) Royle [M-0782]; <i>Glochidion sphaerogynum</i> Kurz [M-0596]; <i>Macaranga denticulata</i> (Blume) Müller Argoviensis [M-0567]; <i>Mallotus ferrugineus</i> (Roxburgh) Müller Argoviensis [M-1004]; <i>M. nepalensis</i> Müller Argoviensis [M-0843]; <i>Pterococcus corniculatus</i> (Smith) Pax & Hoffman [M-0787]; <i>Sapium eugeniifolium</i> Hooker f. [M-0978]; <i>Sauropus androgynus</i> (Linnaeus) Merrill [M-0927]; <i>Vernicia cordata</i> (Thunberg) Airy Shaw [M-0818]

Sl. no.	Taxa with voucher specimens
76.	PHYLLANTHACEAE <i>Phyllanthus emblica</i> Linnaeus [M-1050]; <i>P. reticulatus</i> Poiret [M-0750]; <i>P. urinaria</i> Linnaeus [M-0712]
77.	CANNABACEAE <i>Cannabis sativa</i> Linnaeus [M-1149]; <i>Celtis australis</i> Linnaeus [M-0956]; <i>Cletis australis</i> var. <i>eriocarpa</i> A.P. de Candolle [M-0656]; <i>Trema orientalis</i> Blume [M-0692]; <i>Trema politoria</i> Planch [M-1148]
78.	MORACEAE <i>Artocarpus heterophyllus</i> Lamarck [M-1150]; <i>Ficus auriculata</i> Loureiro [M-0946]; <i>F. curtipes</i> Corner [M-0878]; <i>F. gasparriniana</i> Miquel [M-0882]; <i>F. hirta</i> var. <i>hirta</i> Vahl [M-0702]; <i>F. hirta</i> var. <i>roxburghii</i> (Miquel) King [M-0969]; <i>F. hispida</i> Linnaeus [M-1049]; <i>F. oligodon</i> Miquel [M-0816]; <i>F. semicordata</i> var. <i>conglomerata</i> (Roxburgh) Corner [M-0676]; <i>F. semicordata</i> J.E. Smith [M-0815]; <i>F. subincisa</i> Buchanan-Hamilton ex J.E. Smith [M-0119]; <i>Morus australis</i> Poiret [M-1151]
79.	URTICACEAE <i>Boehmeria clidemioides</i> Miquel [M-0865]; <i>B. glomerulifera</i> Miquel [M-0682]; <i>B. hamiltoniana</i> Weddell [M-0455]; <i>B. macrophylla</i> Hornemann [M-1057]; <i>B. macrophylla</i> var. <i>tomentosa</i> (Weddell) Long [M-0905]; <i>B. rugulosa</i> Weddell [M-0658]; <i>B. ternifolia</i> D. Don [M-0838]; <i>Debregeasia salicifolia</i> (D. Don) Rendle [M-0904]; <i>D. longifolia</i> (Burman f.) Weddell [M-0098]; <i>Elatostema integrifolium</i> (D. Don) Weddell [M-0874]; <i>E. lineolatum</i> Wight [M-0903]; <i>E. monandrum</i> (Buchanan-Hamilton ex D. Don) H. Hara [M-0376]; <i>E. platyphyllum</i> Weddell [M-0597]; <i>E. sessile</i> J.R. Forster & G. Forster [M-0596]; <i>Girardinia diversifolia</i> (Link) Friis [M-0876]; <i>Maoutia puya</i> (Hooker) Weddell [M-0402]; <i>Oreocnide integrifolia</i> (Gaudichaud) Miquel [M-0863]; <i>Pilea bracteosa</i> Weddell [M-0157]; <i>P. scripta</i> (Buchanan-Hamilton ex D. Don) Weddell [M-0745]; <i>P. symmeria</i> Weddell [M-0215]; <i>Pouzolzia hirta</i> Hasskarl [M-0057]; <i>P. sanguinea</i> (Blume) Merrill [M-0806]; <i>P. sanguinea</i> var. <i>fulgens</i> (Weddell) H. Hara [M-0716]; <i>Urtica parviflora</i> Roxburgh [M-0964]
80.	JUGLANDACEAE <i>Engelhardtia roxburghiana</i> Wallich [M-0888]; <i>E. spicata</i> Blume [M-0960]; <i>E. spicata</i> var. <i>integra</i> (Kurz) Manning ex van Steenis [M-0898]
81.	BETULACEAE <i>Alnus nepalensis</i> D. Don [M-1147]
82.	FAGACEAE <i>Lithocarpus elegans</i> (Blume) Hatus ex Soepadmo [M-1052]; <i>Quercus acutissima</i> Carruthers [M-0095]; <i>Q. griffithii</i> Hooker f. & Thomson [M-0357]; <i>Castanopsis tribuloides</i> (Smith) A.P. de Candolle [M-1001]
83.	ORCHIDACEAE <i>Anthogonium gracile</i> Lindley [M-0235]; <i>Dendrobium aphyllum</i> (Roxburgh) C.E.C. Fischer [M-1064]; <i>D. farmeri</i> Paxton [M-1177]; <i>D. primulinum</i> Lindley [M-1178]; <i>Epipogium aphyllum</i> Swartz [M-1182]; <i>E. roseum</i> (D. Don) Lindley [M-0617]; <i>Eulophia zollingeri</i> (Rechinger f.) J.J. Smith [M-0694]; <i>Galeola lindleyana</i> Rechinger f. [M-0943]; <i>Spathoglottis ixiodes</i> (D. Don) Lindley [M-0126]; <i>Vanda coerulea</i> Griffith ex Lindley [M-1179]
84.	ZINGIBERACEAE <i>Alpinia malaccensis</i> (Burman f.) Roscoe [M-0326]; <i>Amomum corynostachyum</i> Wallich [M-0613]; <i>A. dealbatum</i> Roxburgh [M-0074]; <i>A. pterocarpum</i> Thwaites [M-0945]; <i>A. subulatum</i> Roxburgh [M-0820]; <i>Boesenbergia longifolia</i> (Wallich) Oltze [M-0085]; <i>Cautleya cathcartii</i> Baker [M-0174]; <i>Curcuma angustifolia</i> Roxburgh [M-0228]; <i>C. aromatica</i> Salisbury [M-0092]; <i>C. montana</i> Roxburgh [M-0093]; <i>C. zedoaria</i> (Bergius) Roscoe [M-0619]; <i>Etilingera linguiformis</i> (Roxburgh) R.M. Smith [M-0374]; <i>Globba multiflora</i> Wallich [M-0415]; <i>G. racemosa</i> Smith [M-0226]; <i>Hedychium aurantiacum</i> Wallich ex Roscoe [M-0765]; <i>H. chrysoleucum</i> Hooker [M-0765]; <i>H. coccineum</i> Smith [M-0728]; <i>H. coronarium</i> Koenig [M-0719]; <i>H. elatum</i> R. Brown [M-0758]; <i>H. flavescens</i> Carey ex Roscoe [M-0766]; <i>H. gardnerianum</i> Roscoe [M-0172]; <i>H. greenii</i> W.W. Smith [M-0425]; <i>H. griffithianum</i> Wallich [M-0767]; <i>H. luteum</i> Baker [M-0471]; <i>H. marginatum</i> C.B. Clarke [M-0263]; <i>H. rubrum</i> A.S. Rao & M. Verma [M-0743]; <i>H. spicatum</i> var. <i>acuminatum</i> (Roscoe) Wallich [M-0173]; <i>H. stenopetalum</i> Loddiges [M-0720]; <i>H. thyriforme</i> Hamilton [M-0221]; <i>H. villosum</i> Wallich [M-0310]; <i>Kaempferia rotunda</i> Linnaeus [M-0824]; <i>Larsenianthus careyanus</i> (Benth) W.J. Kress & Mood [M-0124]; <i>Zingiber chrysanthum</i>

Sl. no.	Taxa with voucher specimens
	Roscoe [M-1159]; <i>Z. officinale</i> Roscoe [M-1160]; <i>Z. zerumbet</i> (Linnaeus) Smith [M-0094]
85.	COSTACEAE <i>Cheilocostus speciosus</i> (J. Koenig) C.D. Specht [M-1114]
86.	MARANTACEAE <i>Phrynium placentarium</i> (Loureiro) Merrill [M-0373]; <i>P. pubinerve</i> Blume [M-0372]
87.	CANNACEAE <i>Canna indica</i> Linnaeus [M-1162]
88.	MUSACEAE <i>Musa velutina</i> Wendland & Drude [M-0803]
89.	HYPOXIDACEAE <i>Hypoxis aurea</i> Loureiro [M-0059]; <i>Molineria capitulata</i> (Loureiro) Herbert [M-0925]
90.	AMARYLLIDACEAE <i>Crinum amoenum</i> Roxburgh [M-0982]; <i>C. latifolium</i> Linnaeus [M-0988]; <i>Zephyranthes carinata</i> Herbert [M-1084]
91.	ALLIACEAE <i>Allium fasciculatum</i> Rendle [M-1164]; <i>Nothoscordum borbonicum</i> Kunth [M-0984]
92.	DIOSCOREACEAE <i>Dioscorea alata</i> Linnaeus [M-0748]; <i>D. bulbifera</i> Linnaeus [M-0144]; <i>D. glabra</i> Wallich [M-0653]; <i>D. pentaphylla</i> Linnaeus [M-0241]
93.	STEMONACEAE <i>Stemona tuberosa</i> Loureiro [M-1078]
94.	LILIACEAE <i>Chlorophytum arundinaceum</i> Baker [M-0391]; <i>Dianella ensifolia</i> (Linnaeus) A.P. de Candolle [M-0382]; <i>Disporum cantoniense</i> (Loureiro) Merrill [M-0605]; <i>Ophiopogon intermedius</i> D. Don [M-0233]; <i>Paris polyphylla</i> Smith [M-0647]; <i>Polygonatum cirrhifolium</i> (Wallich) Royle [M-0629]; <i>P. oppositifolium</i> (Wallich) Royle [M-0962]
95.	SMILACACEAE <i>Smilax perfoliata</i> Loureiro [M-0354]
96.	COMMELINACEAE <i>Commelina sikkimensis</i> Clarke [M-0014]; <i>C. paludosa</i> Blume [M-1113]; <i>Cyanotis vaga</i> (Loureiro) J.A. & J.H. Schultes [M-1126]; <i>Floscopa scandens</i> Loureiro [M-0252]; <i>Murdannia nudiflora</i> (Linnaeus) Brenam [M-0212]; <i>Polliia hasskarlii</i> Rao [M-0601]; <i>P. pentasperma</i> C.B. Clarke [M-0383]; <i>Polliia secundiflora</i> (Blume) Bakhuizen f. [M-1110]; <i>P. subumbellata</i> C.B. Clarke [M-0378]; <i>Streptolirion volubile</i> Edgeworth [M-0155]
97.	JUNCACEAE <i>Juncus effusus</i> Linnaeus [M-0589]
98.	ARECACEAE <i>Calamus floribundus</i> Griffith [M-1165]; <i>Wallichia densiflora</i> Martius [M-0852]
99.	ARACEAE <i>Arisaema concinnum</i> Schott [M-0618]; <i>A. consanguineum</i> Schott [M-0926]; <i>A. griffithii</i> Schott [M-0830]; <i>Pothos scandens</i> Linnaeus [M-0661]; <i>Remusatia hookeriana</i> Schott [M-1018]; <i>R. vivipara</i> (Roxburgh) Schott [M-0458]
100.	CYPERACEAE <i>Carex cruciata</i> Wahlenberg [M-0817]; <i>C. stramentitia</i> Boott [M-0585]; <i>Cyperus brevifolius</i> (Rottboll) Hasskarl [M-0018]; <i>C. cyperoides</i> var <i>bengalensis</i> (Clarke) Kukenthal [M-0024]; <i>C. diffusus</i> Vahl [M-0387]; <i>C. halpan</i> Linnaeus [M-0544]; <i>C. iria</i> Linnaeus [M-0535]; <i>C. pseudokyllingioides</i> Kukenthal [M-0584]; <i>Fimbristylis bisumbellata</i> (Forsskal) Bubani [M-0388]; <i>Scleria levis</i> Retzius [M-0386]; <i>S. lithosperma</i> (Linnaeus) Swartz [M-0513]; <i>S. parvula</i> Steudal [M-0554]; <i>S. terrestris</i> (Linnaeus) Fassett [M-0029]
101.	POACEAE <i>Chrysopogon aciculatus</i> (Retzius) Trinius [M-0573]; <i>Dichanthium parviflorum</i> (R. Brown) de Wet &

Sl. no.	Taxa with voucher specimens
	<p>Harlan [M-0611]; <i>Imperata cylindrica</i> (Linnaeus) Rauschel [M-0541]; <i>Saccharum arundinaceum</i> Retzius [M-0561]; <i>S. longisetosum</i> var. <i>hookeri</i> (Hackel) Shukla [M-0552]; <i>Themeda villosa</i> (Poiret) A. Camus [M-0512]; <i>Cyrtococcum patens</i> (Linnaeus) A. Camus [M-0550]; <i>Panicum khasianum</i> Munro ex Hooker f. [M-0390]; <i>Paspalum conjugatum</i> Bergius [M-0551]; <i>P. disticum</i> Linnaeus [M-0543]; <i>Sacciolepis indica</i> (Linnaeus) A. Chase [M-0559]; <i>Setaria viridis</i> (Linnaeus) P. Beauvois [M-0547]; <i>Zea mays</i> Linnaeus [M-1162]; <i>Alopecurus arundinaceus</i> Poiret [M-0588]; <i>Arundinella nepalensis</i> Trinius [M-0514]; <i>A. purpurea</i> Hochstetter [M-0515]; <i>Bambusa pallida</i> Munro [M-1033]; <i>B. tulda</i> Roxburgh [M-1036]; <i>B. vulgaris</i> Schrader [M-1161]; <i>Dendrocalamus giganteus</i> Munro [M-1034]; <i>D. hamiltonii</i> Nees & Arnott ex Munro [M-1032]; <i>D. patellaris</i> Gamble [M-1030]; <i>D. sikkimensis</i> Gamble [M-1029]; <i>Eragrostis gangetica</i> (Roxburgh) Steudel [M-0540]; <i>Jansenella griffithiana</i> (C. Mueller) Bor [M-1047]; <i>Melocanna baccifera</i> (Roxburgh) Kurz [M-1166]; <i>Phragmites Karka</i> (Retzius) Trinius ex Steudel [M-0546]; <i>Schizostachyum dullooa</i> (Munro) Majumdar [M-1037]; <i>Sporobolus fertilis</i> (Steudal) Clayton [M-0560]; <i>S. piliferus</i> (Trinius) Kunth [M-0539]; <i>Thysanolaena maxima</i> (Roxburgh) Kuntze [M-0510]</p>