

## A CHECKLIST OF ANGIOSPERMIC FLORA OF LALMAI HILLS, COMILLA, BANGLADESH

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### Abstract

The paper includes a checklist containing a total of 151 angiospermic species (127 dicot and 24 monocot) growing in the Lalmai hills, Comilla, Bangladesh, which has been prepared after the survey of the area during the years 2001 and 2002.

### Introduction

The Lalmai hills are situated in the district of Comilla, about 8 km to the west of Comilla town. They lie on 23°-21' N latitude and 91°-09' E longitude. The hills are commonly known as Mainamati - Lalmai range. The range includes 50 hillocks (Hossen and Dewan 2004). The range extends from north to south for a distance of 17.71 km from Mainamati to Datya Dighi and is about 40.25 km in circumference.

The area of investigation consists of several hills of different heights and a few valleys. The hills attain a height of 45 m at some places, but the average elevation is 12 m above the plains. The highest peaks are Kalir Bazar and Chand Mura, and there are small springs near these peaks and Bijaynagar. The hills are bounded by the faults on the western and eastern sides. The faults scrap on the east is up-thrown to the west and considerably dissected by drainage channels. On the west there are two parallel faults about 1.5 km apart of which both are up-thrown on the east. The inner fault forms a well-defined valley, while the outer (westernmost) fault has a surface throw in excess of 30 m at several places. Structurally this range is a horst, tilted to the east.

The hills are flat with steep and strongly gullied sides, mainly consisting of unconsolidated sands with a clay capping. The old piedmont apron comprises a narrow fringe of foothills along with the Chittagong-Tripura hills in India with a gently flooding relief. It also comprises the foothills of Lalmai hills, mainly consisting of unconsolidated finer textured and moderately well-drained soils derived from weathered Tertiary or Pleistocene unconsolidated sands and soils. These strongly acid soils occur on gently rolling areas of the Lalmai hills. They have yellowish-brown topsoil overlying a strong brown to yellowish-red structured clay subsoil. Texture of the surface layer varies from sandy-clay-loam to clay-loam. These soils are moderately well-drained with medium to rapid runoff and medium internal drainage, which are droughty in the dry season. The forest enjoys a tropical climate characterized by a period of high precipitation from May to October and six months of relatively dry period from November to April.

The Lalmai supports a moist deciduous Sal forest. It supports a large number of plant species that would contribute to the forest economy of Bangladesh. But the forest of

Lalmai hills area does not have any published flora or manual. At the same time this area is vulnerable and needs to be documented and protected immediately.

### Materials and Methods

The present work is based mainly on the fresh materials collected by the authors from the study area through repeated field trips during the year 2001-2002. These are supplemented by the herbarium specimens examined at the Dhaka University Herbarium and Bangladesh National Herbarium. The identification of the specimens was confirmed with the help of Hooker (1872-1897), Prain (1903, 1903a), Brandis (1906), Kanjilal *et al.* (1934, 1938, 1939, 1940), Khan (1977, 1984, 1985), Deb (1981, 1983) and Matthew (1999, 1999a, 1999b). The families have been arranged according to Cronquist (1981). The genera and species under each family are arranged in alphabetical order. The checklist includes wild, naturalized and planted species.

### Results

A total of 149 species under 127 genera and 49 families have been identified and recorded in this paper. Magnoliopsida is represented by 43 families, 108 genera and 127 species while Liliopsida is represented by 6 families, 19 genera and 22 species. In Magnoliopsida, the Fabaceae appears to be the largest family having 9 genera and 12 species. In Liliopsida, the Poaceae appears to be the largest family having 8 genera and 11 species.

## MAGNOLIOPSIDA (DICOTS)

### 1. Magnoliaceae

**Michelia champaca** L., Sp. Pl.: 536(1753). *Local name*: Champa. A medium-sized tree.

### 2. Ulmaceae

**Trema orientalis** (L.) Bl., Mus. Bot. Lugd. Bot. 2: 62 (1856). *Celtis orientalis* L., Sp. Pl.: 1044(1753). A small to medium-sized tree.

### 3. Moraceae

**Artocarpus chama** Buch.-Ham. *ex* Wall. Cat.: 4657(1814). *Artocarpus chaplasha* Roxb., Fl. Ind. 3: 525(1832). *Local name*: Chamul. A lofty tree.

**A. heterophyllus** Lamk., Meth. B. 3: 209(1789). *Local name*: Kanthal. An evergreen tree.

**Ficus benghalensis** L., Sp. Pl.: 1059(1753). *Local name*: Bot. A large spreading tree.

**F. hispida** L. f., Suppl. Pl.: 442(1781). *Local name*: Dumur. A low tree.

**F. religiosa** L., Sp. Pl.: 1059(1753). *Local name*: Ashathwa. A large tree.

**Streblus asper** Lour., Fl. Cochin. 2: 615(1790). *Local name*: Sheora. A bushy tree.

### 4. Amaranthaceae

**Achyranthes aspera** L., Sp. Pl.: 204(1753). *Local name*: Apang. A perennial herb.

**Aerva lanata** (L.) Juss. *ex* Schult., Syst. Veg. 15(5): 564(1819). *Achyranthes lanata* L., Sp. Pl. 1: 204(1753). *Local name*: Chaya. An erect herb.

**Amaranthus viridis** L., Sp. Pl. ed. 2: 1405(1763). *Local name*: Notey Shak. A slender herb.

**Cyathula prostrata** (L.) Blume, Bijdr.: 549(1825). *Achyranthes prostrata* L., Sp. Pl. ed. 2: 296(1762). An annual herb.

### 5. Dipterocarpaceae

**Dipterocarpus turbinatus** Gaertn. f., De Fruct. 3: 51, t. 188, f. 1(1805). *Local name*: Teliá Garjon. A lofty evergreen tree.

**Shorea robusta** Roxb. *ex* Gaertn. f., De Fruct. 3: 48, t. 186(1805). *Local name*: Sal, Gajari. A tall deciduous tree.

### 6. Elaeocarpaceae

**Elaeocarpus robustus** Roxb. [Hort. Beng.: 42(1814). nom. nud.], Fl. Ind. 2: 597(1824). *Local name*: Jalpai. A small tree.

### 7. Tiliaceae

**Grewia serrulata** DC. Prodr. 1: 510(1824). *Local name*: Pichandi. A shrub.

**Microcos paniculata** L., Sp. Pl. 1: 514(1753). *Local name*: Asar. A shrub to small tree.

**Triumfetta rhomboidea** Jacq. [Enum. Pl. Carib.: 22(1762) nomen], Select. Strip. Am.: 147, t. 90(1763). *Local name*: Banokra. An undershrub.

### 8. Bombacaceae

**Bombax ceiba** L., Sp. Pl.: 511(1753). *Local name*: Shimul Tula. A large tree with buttress base.

### 9. Malvaceae

**Hibiscus sabdariffa** L., Sp. Pl.: 695(1753). *Local name*: Mesta. A shrub.

**Sida acuta** Burm. f., Fl. Ind.: 147(1768). *Local name*: Kureta. A herb.

**S. cordata** (Burm. f.) Borss. in Blumea 14(1): 182(1966). *Melochia cordata* Burm. f., Fl. Ind.: 143(1768). *Local name*: Junka. An annual herb.

**S. mysorensis** Wt. & Arn., Prodr.: 59(1834). An annual herb.

**S. rhombifolia** L., Sp. Pl.: 684(1753). An undershrub.

**Urena lobata** L., Sp. Pl.: 692(1753). *Local name*: Jaruga gota. An undershrub.

### 10. Lecythidaceae

**Careya arborea** Roxb., Pl. Corom. 3: 14, t. 218(1811). *Local name*: Kumbi. A low tree.

### 11. Flacourtiaceae

**Flacourtia indica** (Burm.f.) Merril, Interpr. Rumph. Herb. Amb.: 377(1917). *Gmelina*

*indica* Burm. f., Fl. Ind.: 132, t. 39, f. 5(1768). *Local name*: Paniala. A spiny shrub.

### 12. Caricaceae

**Carica papaya** L., Sp. Pl.: 1036(1753). *Local name*: Pepe. An herbaceous tree with milky latex.

### 13. Capparaceae

**Cleome viscosa** L., Sp. Pl.: 672(1753). *Local name*: Hurh uria. An erect, glandular-pubescent herb.

### 14. Brassicaceae

**Rorippa indica** (L.) Hiern., Cal. Afr. Pl. Wel. W. Pt. 1: 26(1896). *Sisymbrium indicum* L., Mant. 1: 93(1767). *Local name*: Ban Sarisha. A small herb.

### 15. Myrsinaceae

**Maesa montana** A. DC. in DC., Prodr. 8: 79(1844). *Local name*: Ramjoni. A bushy tree.

### 16. Mimosaceae

**Acacia concinna** (Willd.) DC. Prodr. 2: 464(1825). *Mimosa concinna* Willd. Sp. Pl. 4: 1039(1805). *Local name*: Banritha. A shrub with conical and hooked prickles.

**A. auriculiformis** A. Cunn. *ex* Benth. in London J. Bot. 1: 377 (1842). *A. moniliformis* Griseb. in Goett. Abh. 19:136(1874). *Local name*: Akashmoni. A middle sized tree.

**Albizia procera** (Roxb.) Benth. Journ. Bot. 3: 89(1844). *Acacia procera* Roxb., Pl. Corom. 2:12. t. 121(1798). *Local name*: Sil Koroi. A medium sized tree.

**Mimosa intisia** L., DC., Prod. 2: 429(1832). *Local name*: Bara Lajjabati. A straggling shrub.

**M. pudica** L., Sp. Pl.: 518(1753). *Local name*: Lajjabati. A prickly woody herb.

### 17. Caesalpiniaceae

**Caesalpinia pulcherrima** (L.) Sw. Obs.: 166(1971). *Poinciana pulcherrima* L., Sp. Pl. : 380(1753). *Local name*: Radhachura. A much branched shrub.

**Cassia fistula** L., Sp. Pl.: 377(1753). *Local name*: Sonalu. A deciduous tree.

**C. occidentalis** L., Sp. Pl.: 377(1753). *Local name*: Kalkasunda. An annual shrub.

**C. tora** L., Sp. Pl.: 376(1753). *Local name*: Chakunda. An annual shrubby herb.

**Tamarindus indica** L., Sp. Pl.: 34(1753). *Local name*: Tentul. An evergreen tree.

### 18. Fabaceae

**Atylosia scarabaeoides** (L.) Benth. in Miq., Pl. Jungh.: 245(1852). *Dolichos scarabaeoides* L., Sp. Pl.: 726(1753). *Local name*: Ban Kalai. A branched herb.

**Butea monosperma** (Lam.) Taub. in Engl. & Prantl, Pflanzenfam. 3(3): 365(1984). *Erythrina monosperma* Lam., Encycl. 1: 391(1783). *Local name*: Palash. A deciduous tomentose tree.

**Cajanus cajan** (L.) Millsp. in Field Columb. Mus. Bot. 2: 53(1900). *Cytisus cajan* L., Sp. Pl.: 739(1753). *Local name*: Arhar. An erect herb.

**Centrosema pubescens** Benth., Comm. Legum. Gen.: 55(1837). A climber.

**Crotolaria calycina** Schrank, Pl. Rar. Monac.: t. 12(1819). An erect herb.

**C. pallida** Aiton, Hort. Kew. 3: 20(1789). *Local name*: Jhanjhani. A glabrescent undershrub.

**Dalbergia sissoo** Roxb., [Hort. Beng.: 53(1814), nom. nud. &] *ex* DC. Prodr. 2: 416(1825). *Local name*: Shishu. A large deciduous tree.

**Desmodium gangeticum** (L.) DC. Prodr. 2: 327(1825). *Hedysarum gangeticum* L., Sp. Pl.: 746(1753). *Local name*: Satpani. A suberect undershrub.

**D. pulchellum** (L.) Benth., Fl. Hongk.: 83(1861). *Hedysarum pulchellum* L., Sp. Pl.: 747(1753). *Local name*: Juta-Salpani. A shrub.

**D. triflorum** (L.) DC. Prodr. 2: 334(1825), excl. syn. cit. *Hedysarum triflorum* L., Sp. Pl.: 749(1753), p.p. *Local name*: Kulaliya. A prostrate herb.

**Erythrina variegata** L., in Stickm. Herb. Amboin.: 10(1754). *Local name*: Mandar. A deciduous prickly tree.

**Flemingia strobilifera** R. Br. in Ait., Hort. Kew. ed. 2(4): 350(1812). An erect shrub.

### 19. Lythraceae

**Lagerstroemia speciosa** Pers., Syn: 2(1937). *Local name*: Jarul. A large deciduous tree.

### 20. Myrtaceae

**Eucalyptus citriodora** Hook. in Mitch. Journ. Trop. Austral.: 235 (1848). A tall tree.

**Psidium araca** Raddi, Opusc. Sc. 4: 252(1823). *Local name*: Tok Peyara. A bushy shrub.

**P. guajava** L., Sp. Pl.: 470(1753). *Local name*: Peyara. A large shrub or small tree.

**Syzygium cumini** (L.) Skeels in U.S. Dept. Agr. Bull. 248: 25(1912). *Myrtus cumini* L., Sp. Pl.: 471(1753). *Local name*: Jam. A large evergreen tree.

**S. fruticosum** (Roxb.) DC., Prodr. 3: 260(1828). *Eugenia fruticosa* Roxb., Fl. Ind. ed. 2(2): 487(1832). *Local name*: Khudijam. A small tree.

### 21. Onagraceae

**Ludwigia hyssopifolia** (G. Don) Exell. Garica de Orta 5: 471(1957). *Jussiaea hyssopifolia* G. Don, Gen. Syst. 2: 693(1832). A branched herb.

### 22. Melastomaceae

**Melastoma malabathricum** L., Sp. Pl.: 390(1753). *Local name*: Bantezpata. A shrub.

### 23. Combretaceae

**Terminalia arjuna** (Roxb.) Wight & Arn., Prodr. 314(1834). *Pentaptera arjuna* Roxb., [Hort. Beng. 34(1814), nom. nud.] Fl. Ind. 2: 440(1832). *Local name*: Arjun. A large tree.

#### 24. Loranthaceae

**Dendrophthoe falcata** ( Linn. f.) Etting. in Denksehr. Akad. Wissen. Math.-Naturw. 32: 52 (1872). *Loranthus falcatus* L. f., Suppl.: 221(1781). *Local name*: Bancha. A parasitic plant on Mango tree with terete branchlets.

#### 25. Euphorbiaceae

**Antidesma ghaesembilla** Gaertn., De Fruct. 1: 189,t. 39(1788). *Local name*: Timtoa. A small tree.

**Bridelia stipularis** Bl. Bijdr.: 597(1826). A shrub.

**Glochidion multiloculare** Muell. - Arg. in DC., Prodr. 15: 279(1866). *Local name*: Aniatory. A shrub.

**Macaranga denticulata** (Bl.) Muell. - Arg. in DC., Prodr. 15(2): 1000(1866). *Mappa denticulata* Bl., Bijdr.: 625 (1825). *Local name*: Jhakura. A small tree.

**Manihot esculenta** Crantz, Inst. 1: 167(1766). *Local name*: Kasava, Simul Alu. A sub-herbaceous shrub.

**Phyllanthus embelica** L., Sp. Pl.: 982(1753). *Local name*: Amloki. A medium-sized deciduous tree.

**P. fraternus** Webster, Contr. Gray. Herb. 176: 53(1955). *Local name*: Bhui amla. An erect glabrous herb.

**P. reticulatus** Poir., Encycl. 5: 298(1804). *Local name*: Chitki. A large scandent shrub.

**Ricinus communis** L., Sp. Pl.: 1007(1753). *Local name*: Redhi. An evergreen soft wooded shrub.

#### 26. Rhamnaceae

**Zizyphus rugosa** Lam., Encycl. 3: 319(1789). *Local name*: Jangli Boro. A small tree with stout thorns.

#### 27. Anacardiaceae

**Lannea coromandelica** (Houtt.) Merr., J. Arnold. Arbor. 19: 353(1983). *Dialium coromandelicum* Houtt., Nat. Hist. 2: 39. t. 5. f. 2(1774). *Local name*: Jiga, Jeol. A middle-sized deciduous tree.

**Mangifera indica** L., Sp. Pl.: 200(1753). *Local name*: Am. A tree.

#### 28. Meliaceae

**Aphanamixis polystachya** (Wall.) Parker in Ind. For. 57: 486(1931). *Aglaia polystachya* Wall. in Roxb., Fl. Ind. 2: 429(1824). *Local name*: Pitraj. A tree with dense spreading crown.

**Azadirachta indica** A. Juss. in Mem. Mus. Paris 19: 220. t. 2(1830). *Local name*: Nim. A large deciduous tree.

**Melia azedarach** L., Sp. Pl.: 384(1753). *Local name*: Ghora Nim. A middle-sized deciduous tree.

**Swietenia mahagoni** (L.) Jacq. Enum. Pl. Carib.: 4(1760). *Swietenia mahagoni* L., Sp. Pl. ed. 2: 271(1762). *Local name*: Mehagani. A large tree.

### 29. Rutaceae

**Aegle marmelos** (L.) Correa in Trans. Linn. Soc. 5: 222(1800). *Crataeva marmelos* L., Sp. Pl.: 444(1753). *Local name*: Bel. A small deciduous tree with erect stout axillary thorns.

**Glycosmis pentaphylla** (Retz.) A. DC., Prod. 1: 538(1824). *Limonia pentaphylla* Retz., Obs. Bot. 5: 24(1788). *Local name*: Datmajan. An evergreen much-branched shrub.

**Micromelum minutum** (Forst.f.) Wight & Arn., Prod. 1: 448(1834). *Limonia minuta* Forst. f., Prod.: 33(1786). *Local name*: Bankutch. A small unarmed tree.

**Zanthoxylum rhetsa** (Roxb.) DC., Prod.: 728(1824). *Fagara rhetsa* Roxb., 1. c. 437 (1820). *Local name*: Bajrang. An evergreen small tree.

### 30. Oxalidaceae

**Oxalis corniculata** L., Sp. Pl.: 435(1753). *Local name*: Amrul Shak. A procumbent herb with long, slender, creeping stems.

### 31. Apiaceae

**Centella asiatica** (L.) Urban in Mart., Fl. Bras. 11: 287(1879). *Hydrocotyle asiatica* L., Sp. Pl. 1: 234(1753). *Local name*: Thankuni. A trailing herb.

### 32. Apocynaceae

**Alstonia scholaris** (L.) Brown, Mem. Wern. Nat. Hist. Soc. 1: 76(1811). *Alstonia scholaris* L., Mant. Pl. 1: 53(1767). *Local name*: Chhatim. A large deciduous tree.

**Holarrhena pubescens** (Buch. – Ham.) Wall. ex G. Don, Gen. Syst. 4: 78(1838). *Echinites pubescens* Buch. –Ham. in Trans., Linn. Soc. 13: 524(1822). *Local name*: Kurchi. A small tree.

**Rauvolfia serpentina** Benth. ex Kurz, For. Fl. Brit. Burma 2: 171(1877). *Local name*: Sarpagandha. A woody herb.

### 33. Asclepiadaceae

**Calotropis gigantea** (L.) Dryand. in Aiton, Hort. Kew. ed. 2(2): 78(1811). *Asclepias gigantea* L., Sp. Pl.: 214(1753). *Local name*: Akanda. A large shrub with milky juice.

**Hemidesmus indicus** (L.) R. Br. in Aiton, Hort. Kew. ed. 2( 2): 75(1811). *Periploca indica* L., Sp. Pl.: 211(1753). *Local name*: Annantamul. A prostrate or slightly twining undershrub with aromatic roots.

### 34. Solanaceae

**Solanum lasiocarpum** Dunal, Hist. Solanum: 222 (1813) *Solanum indicum* L., Sp. Pl.: 187(1753). *Local name*: Gurkamai. A much branched undershrub.

**S. nigrum** L., Sp. Pl.: 186(1753). *Local name*: Puti Begun. A herb.

**S. torvum** Sw., Nov. Gen. Sp. Pl.: 47(1788). *Local name*: Gota Begun. A shrub.

### 35. Convolvulaceae

**Ipomoea fistulosa** Mart. ex Choisy in DC., Prodr. 9: 349(1845). *Local name*: Dholkalmi. A shrub containing milky juice.

**Merremia umbellata** (L.) Hallier. f., Bot. Jahrb. 16: 552(1893). *Convolvulus umbellatus* L., Sp. Pl. : 155(1753). *Local name*: Sada kalmi. A herbaceous twiner.

### 36. Cuscutaceae

**Cuscuta reflexa** Roxb., Pl. Corom. 2: 3, t. 104(1798). *Local name*: Swarnalata. A twining parasitic herb.

### 37. Boraginaceae

**Heliotropium indicum** L., Sp. Pl. : 130(1753). *Local name*: Hatisur. An erect herb.

### 38. Verbenaceae

**Clerodendrum viscosum** Vent., Jard. Malm. 1: t. 25(1803). *Local name*: Bhant. A softy tomentose woody herb.

**Gmelina arborea** Roxb., Fl. Ind. 3: 84 (1832). *Local name*: Gamari. A deciduous unarmed tree.

**Lantana camara** L., Sp. Pl. ed. 1, 2: 627(1753) var. *camara* Schau in Mart., Fl. Bras., 9: 256(1851). A branching shrub.

**Premna bengalensis** Clarke in Hook. f., Fl. Brit. Ind. 4: 577(1882). *Local name*: Dauli. A tree.

**Vitex peduncularis** Wall. Cat.: 1753(1825). *Local name*: Horina. A middle-sized tree.

### 39. Lamiaceae

**Gomphostemma parviflorum** Wall. [Cat. 60, n. 215(1830): nom. nud]. *Local name*: Jateribormala. A perennial herb.

**Hyptis suaveolens** Poit, Ann. Mus. Natl. Hist. Nat. 7: 472 t. 29, f. 2(1806). *Local name*: Tokma. An aromatic herb.

**Leucas aspera** Spreng. Syst. 2: 743(1825). *Local name*: Swetadrone, Dandakalos. A herb.

**Ocimum sanctum** Linn., Mart. 1: 85(1767). *Local name*: Tulsi. A much branched, softly hairy herb.



**40. Scrophulariaceae**

**Scoparia dulcis** L., Sp. Pl.: 116(1753). *Local name*: Bandhoney.

An erect or ascending herb.

**Torenia vagans** Roxb., Fl. Ind. 3: 96(1832).

A herb.

**41. Acanthaceae**

**Justicia gendarussa** Burm. f., Fl. Ind.: 10(1768). *Local name*: Jagatmadan. An undershrub.

**Lepidagathis incurva** F. Ham. ex D. Don. Prodr.: 119(1825). A herb.

**Nelsonia canescens** (Lam.) Spreng. in L., Sys. Veg. ed. 16, 1: 42(1824). *Justicia canescens* Lam., Tab. Encycl. Method. Bot. 1: 40(1791). *Local name*: Paramul. A trailing herb.

**Phaulopsis dorsiflora** (Retz.) Sant. in Kew Bull. 1948: 276(1948). *Ruellia dorsiflora* Retz., Obs. 6: 31(1791). A much branched hairy herb.

**Rungia pectinata** (L.) Nees in DC., Prodr. 11: 469(1847). *Justicia pectinata* L. Amoen. Acad. 4: 293(1759). *Local name*: Pindi. A much branched suberect herb.

**Strobilanthes scaber** Nees in Wall., Pl. As. Rar. 3: 84(1832). A herb.

**42. Rubiaceae**

**Borreria articularis** (Linn.f.) Williams, Bull. Herb. Boissier (Ser.) 2, 5: 956(1905). *Spermacoce articularis* Linn. f., Suppl.: 119(1781). *Local name*: Madnabata kadu. A procumbent rough hispid herb.

**Hedyotis scandens** Roxb., Hort. Beng.: 10(1814), nom. nud. & Fl. Ind. 1: 364(1820). *Local name*: Lataguji. A climber.

**Ixora cunifolia** Roxb., Fl. Ind. 1: 385(1820). *Local name*: Beophul. A shrub.

**Mussaenda roxburghii** Hook. f., Fl. Brit. Ind. 3: 87(1880). *Local name*: Silchaonri. An erect large shrub.

**43. Asteraceae**

**Ageratum conyzoides** L., Sp. Pl.: 839(1753). *Local name*: Fulkuri. A herb.

**Blumea lacera** (Burm. f.) DC. in Wight., Clarke, Comp. Ind.: 76(1876). *Conyza lacera* Burm. f., Fl. Ind.: 180, t. 59. f. 1(1786). *Local name*: Barakukshima. An erect aromatic herb.

**Elephantopus scaber** L., Sp. Pl.: 814(1753). *Local name*: Gejiashak. An erect herb with creeping rootstock..

**Eupatorium odoratum** Linn., Syst. Nat. ed. 10: 1205(1759). *Local name*: Germanlata, Assamlata. A herb.

**Gnaphalium indicum** auct. non L., C. B. Clarke, Comp. Ind.: 114(1876). *Local name:* Bara Kamra. A woolly herb.

**Mikania cordata** (Burm.) Robinson, Contr. Gray herb. 104: 65(1934). *Eupatorium cordatum* Burm., Fl. Ind.: 176, t. 58, fig. 2(1768). *Local name:* Refugee lata. A herb.

**Spilanthes calva** DC. in Wight, Contrib.: 19(1834). *Local name:* Marhatitiga. An annual herb.

**Synedrella nodiflora** (L.) Gaertn., Fruct. 2: 456. t. 171. f. 7(1791). *Verbesina nodiflora* L., Amoen. Acad. 4: 290(1759). An erect branching annual herb.

**Vernonia cineria** (L.) Lees., Linnaea 4(1): 291(1829). *Conyza cinerea* L., Sp. Pl.: 862(1753). *Local name:* Kuksim. An erect herb.

## LILIOPSIDA (MONOCOTS)

### 1. Arecaceae

**Borassus flabellifer** L., Sp. Pl.: 1187(1753). *Local name:* Tal. A tall palm.

**Cocos nucifera** L., Sp. Pl.: 1188(1753). *Local name:* Narikel. A coconut palm.

**Phoenix sylvestris** (L.) Roxb., Fl. Ind. 3: 787(1832). *Elate sylvestris* L., Sp. Pl.: 1189(1753). *Local name:* Khejur. A tall palm.

### 2. Cyperaceae

**Cyperus iria** L., Sp. Pl. ed. 1: 45(1753). *Local name:* Barachancha. An annual herb.

**C. rotundus** L., Sp. Pl.: 45(1753). *Local name:* Motha ghas. A perennial grass.

**Fimbristylis miliacea** (L.) Vahl, Enum. Pl. 2: 287(1806). *Scirpus miliaceus* L., Syst. ed. 10: 868(1759). *Local name:* Bara javani. A perennial, tufted herb.

**Kyllinga monocephala** Rottboel., Descr. Ic. Rar. Nov. Pl.: 13, t. 4, f. 4(1773). *Local name:* Nirbirshaghas. A perennial herb, rhizome covered with scale.

**Mariscus sumatrensis** (Retz.) Raynal, Adansonia 15: 110(1975). *Kyllinga sumatrensis* Retz., Obs. Bot. 4: 13(1786). *Local name:* Bara guthubi. A perennial herb, stoloniferous in some cases.

**Scleria levis** Retz., Obs.: 4(1786). A perennial herb with short rhizome.

### 3. Poaceae

**Bambusa balcooa** Roxb., Fl. Ind. 1: 196(1820). *Local name:* Barakbans. A tall stout, densely caespitose bamboo.

**Cynodon dactylon** (L.) Pers. Syn. Pl. 1: 85(1805). *Panicum dactylon* L., Sp. Pl.: 58(1753). *Local name:* Durbaghas. A perennial grass.

**Eleusine indica** (Linn.) Gaertn., Fruct. 1: 8(1789). *Cynosurus indicus* Linn., Sp. Pl.: 72(1753). *Local name:* Malankuri. A tufted annual grass.

**Eragrostis cilianensis** (All) Janchen, Mitt. Naturw. Univ. Wien 5 (9): 110 (1907). *E. major* Host. Gram. Austr. 4: 14. t. 24 (1809). An annual grass.

**E. unioloides** (Retz.) Nees *ex* Steud., Syn. Pl. Glum. 1: 264(1854). *Poa unioloides* Retz., Obs. Bot. 5: 19(1789). An annual grass.

**Melocanna bambusoides** Trin. in Spreng., Neue Entdeck 2: 45(1821). An evergreen unarmed bamboo.

**Panicum brevifolium** L., Sp. Pl.: 59(1753). A slender decumbent grass.

**P. notatum** Retz., Obs. Bot. 4: 18(1786). A tufted perennial grass.

**P. paludosum** Roxb., Fl. Ind. 1: 310(1820). *Local name*: Barati. A perennial grass.

**P. repens** L., Sp. Pl. ed. 2: 87(1762). *Local name*: Dhanighas. A perennial grass.

**Paspalidium flavidum** (Retz.) A. Camus in Lecomte, Fl. Gen. de l'Indo-Chine 7: 419(1922). *Panicum flavidum* Retz., Obs. Bot. 4: 15(1876). An annual grass.

**Setaria glauca** (Linn.) P. Beauv., Ess. Agrost.: 51, 169, 178(1812). *Panicum glaucum* Linn., Sp. Pl. ed. 1: 56(1753). A tufted annual grass.

#### 4. Zingiberaceae

**Curcuma zedoaria** (Christm.) Roscoe., Trans. Linn. Soc. London 8: 354(1807). *Amomum zedoaria* Christm. in Christm. & Panzer, Linn. Pflanzensyst. 5: 12(1779). *Local name*: Shoti. A stemless herb with pale yellow-white rhizome.

#### 5. Costaceae

**Costus speciosus** (Koenig) Smith, Trans. Linn. Soc. London 1: 249(1791). *Banksea speciosa* Koenig in Retz., Obs. Bot. 3: 75(1783). A herb, 2-3m long.

#### 6. Smilacaceae

**Smilax zeylanica** L., Sp. Pl.: 1029(1753). *Local name*: Kumari lata. A large prickly climber.

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