

## ANGIOSPERM FLORA OF SATCHARI NATIONAL PARK, HABIGANJ, BANGLADESH

MD. KAMRUL AREFIN, MD. MIZANUR RAHMAN, MOHAMMAD ZASHIM UDDIN<sup>1</sup>  
AND MD. ABUL HASSAN

*Department of Botany, University of Dhaka, Dhaka 1000, Bangladesh*

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### Abstract

An inventory of angiosperm flora of Satchari National Park, located in Habiganj district, is prepared on the basis of collected materials and observation made from November 2008 to December 2009. From the study site, 245 angiosperm species including cultivated and planted in 183 genera under 72 families are documented. Of 245 species recorded here, 86 species are represented by herbs, 46 by shrubs, 73 by trees, 37 by climbers and 3 by epiphytes. The survey has also confirmed the occurrence of seven threatened angiosperm species, one tree fern and one gymnosperm in the Park area. For each species scientific name, local name (wherever available), family, habit and habitat are provided with citation of specimens.

### Introduction

Satchari National Park, a segment of the Raghunandan Hill Reserve Forest under Chunarughat Upazila of Habiganj district, located between 24°5' to 24°10' N latitude and 91°25' to 91°30' E longitude, is about 130 km northeast of Dhaka, and about 60 km southwest of Srimangol. It was declared as National Park in 2005 with an area of 242.91 ha. It is the newest among the 17 declared protected areas of Bangladesh (Mukul *et al.*, 2006) and developed by the Forest Department as part of a co-managed eco-tourism project under its Nishorgo initiative. The semi-evergreen forest of Satchari National Park forms a part of transition zone between the Indian subcontinent and the Indo-Chinese ecological region (Sharma, 2006). The vegetation of the Park area comprises a patch of 120 ha of natural forest and remaining area covered by a short rotation plantation of *Eucalyptus* sp. and *Acacia* sp. and as well as long term plantation of oil palms. The topography of the Park shows undulating with slopes and hillocks, locally called *tila*, ranging from 10-50 m height and running from south to north and these are composed of upper tertiary rocks in which sand stones are largely predominant (Rizvi, 1970). The soils of the Park area are characteristically sandy loams, and accumulation of humus on the top soil is very low due to rapid decomposition of debris under moist warm tropical condition (Rizvi, 1970). Soils are more acidic than in adjoining ecological zones (Mukul *et al.*, 2006). The area enjoys a moist tropical climate characterized by a period of high precipitation from May to October and six months between November and April are relatively dry.

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<sup>1</sup>Corresponding author. E-mail: zashim07@yahoo.com

A number of studies on the angiosperm flora of different protected areas of Bangladesh have already been reported (Khan *et al.*, 1994; Rahman and Hassan, 1995; Uddin and Rahman, 1999; Khan and Huq, 2001; Uddin *et al.*, 2002, 2003; Tutul *et al.*, 2009, 2010; Rahman *et al.*, 2010; Uddin and Hassan, 2004, 2010). A few publications on the Satchari reserve forest and the Park area are available, such as, Chowdhury *et al.* (2004), Mukul *et al.* (2006), Uddin and Mukul (2007) and Sultana (2007). However, most of those publications did not cover the checklist of angiosperm flora of the Satchari National Park. It is assumed that the Park supports a large number of native angiosperm species. Conservation significance of such species is very high. Currently angiosperm flora of the Park area is under threat due to various pressure including anthropogenic activities. For making proper management plan of the Park, data on the angiosperm species are essential. In order to provide such information, the present study an attempt has been made to prepare an inventory of angiosperm flora of Satchari National Park.

### Materials and Methods

Floristic survey was carried out in the Satchari National Park at 3-months intervals between November 2008 and December 2009. The survey covered all habitats including hilltops, slopes, foothills, vales and wet areas of the Park. Special attention was given to locate the species already listed as threatened categories in the country. Flowering or fruiting specimens were collected and processed using standard herbarium techniques (Hyland, 1972; Alexiades, 1996). The specimens were identified consulting different Floras *viz.*, Hooker (1872-1897), Prain (1903), Uddin and Hassan (2004), Siddiqui *et al.* (2007) and Ahmed *et al.* (2008, 2009). Specimens available at Dhaka University Salar Khan Herbarium (DUSH) and Bangladesh National Herbarium (DACB) were consulted in identifying the collected plant specimens. The updated nomenclature of the species was followed Siddiqui *et al.* (2007) and Ahmed *et al.* (2008, 2009). Threatened categories of plants were confirmed with the help of Khan *et al.* (2001). Families are arranged according to Cronquist (1981). Voucher specimens are deposited at DUSH.

### Results

The present study revealed an inventory of 245 species including cultivated and planted in 183 genera under 72 families from the Satchari National Park. The species diversity in the families varied from 1 to 18. In Magnoliopsida (Dicots), Moraceae is the largest family represented by 18 species, while in Liliopsida (Monocots), Poaceae (Gramineae) is the largest family represented by 12 species. Of 245 species recorded here, 86 species represented by herbs, 46 by shrubs, 73 by trees, 37 by climbers and 3 by epiphytes. Seven threatened species of Bangladesh (Khan *et al.*, 2001) were found to occur in the Park area including *Amomum aromaticum* Roxb. (Zingiberaceae), *Aquilaria agallocha* Roxb. (Thymeliaceae), *Cymbidium aloifolium* L. (Orchidaceae), *Globba multiflora* Wall. *ex* Baker (Zingiberaceae) *Holigarna longifolia* Roxb. (Anacardiaceae), *Rauwolfia serpentina* L. (Apocynaceae) and *Steudnera colocasioides* Hook. f. (Araceae). Moreover, thereatened tree fern, *Cyathea gigantea* (Wall. *ex* Hook. f.) Holtt. and a

threatened gymnosperm, *Gnetum oblongum* Mgf. (Khan *et al.*, 2001) were also found to occur in the Park area. For each species of angiosperm scientific name, local name (wherever available), family, habit and habitat are provided with specimen citation.

## MAGNOLIOPSIDA (DICOTS)

### 1. ANNONACEAE

**Annona squamosa** L., Sp. Pl.: 537 (1753). *Local name: Ata.* A small tree, cultivated. *Representative specimen:* Satchari, 04. 12. 2009, Kamrul Arefin (KA) 311, Dhaka University Salar Khan Herbarium (DUSH).

**Desmos chinensis** Lour., Fl. Cochinch. 1: 352 (1970). A large climber on the hill top. *Representative specimen:* Satchari, 04. 12. 2009, KA 294 (DUSH).

**Miliusa velutina** (Dunal) Hook. f. & Thom., Fl. Ind. 1: 139 (1855). *Uvaria velutina* Dunal (1817). A deciduous tree on the forest bed. *Representative specimen:* Satchari, 04. 12. 2009, KA 242 (DUSH).

**Uvaria hamiltonii** Hook. f. & Thoms., Fl. Ind. 1: 96 (1855). *Local names: Kola, Tufaru.* A large climber on trees in the forest. *Representative specimen:* Satchari, 04. 12. 2009, KA 320 (DUSH).

### 2. LAURACEAE

**Cinnamomum camphora** (L.) J. Presl, Priroz. Rostlin 2: 36, 47 (1825). *Laurus camphora* L. (1753). *Local name: Karphur.* A medium tree in deep forest. *Representative specimen:* Satchari, 04. 12. 2009, KA 325 (DUSH).

**Dehaasia kurzii** King *ex* Hook. f., Fl. Brit. Ind. 5: 125 (1886). *Local name: Modon Mosto.* A tall tree on the hill slope. *Representative specimen:* Satchari, 04. 12. 2009, KA 366 (DUSH).

**Litsea angustifolia** Wall. *ex* Hook. f., Fl. Brit. Ind. 5: 169 (1886).

An evergreen tree on the hill slope. *Representative specimen:* Satchari, 04. 12. 2009, KA 241 (DUSH).

**Litsea glutinosa** (Lour.) Robinson, Philip. J. Sci. Bot. 6: 321 (1911). *Sebifera glutinosa* Lour. (1790). *Local name: Menda.* A medium sized evergreen tree on the forest edge. *Representative specimen:* Satchari, 04. 12. 2009, KA 314 (DUSH).

**Litsea monopetala** (Roxb.) Pers., Syn. Pl. 2: 4 (1807). *Tetranthera monopetala* Roxb. (1798). *Local name: Huaria, Kukurchita.* A medium sized tree on the hill slope. *Representative specimen:* Satchari, 04. 12. 2009, KA 308 (DUSH).

**Litsea panamonja** (Buch.-Ham.) Hook. f., Fl. Brit. Ind 5: 175 (1886). *Tetranthera panamonja* Buch.-Ham. (1864). *Local name: Naori.* A large tree on the forest edge. *Representative specimen:* Satchari, 28. 01. 2009, KA 05 (DUSH).

### 3. PIPERACEAE

**Piper longum** L., Sp. Pl.: 29 (1753). *Local name: Pepul.* A slender creeper on humus covered forest floors. *Representative specimen:* Satchari, 04. 12. 2009, KA 215 (DUSH).

**Piper nigrum** L., Sp. Pl.: 28 (1753). *Local name: Gool marich.* A climber, cultivated. *Representative specimen: Satchari, 30. 05. 2009, KA 120 (DUSH).*

#### 4. ARISTOLOCHIACEAE

**Aristolochia tagala** Cham., Linnaea 7: 207, t. 5, f. 3 (1832). *Local name: Ishwarmul.* A glabrous climber on moist shady place. *Representative specimen: Satchari, 04. 12. 2009, KA, 282 (DUH).*

#### 5. MENISPERMACEAE

**Pericampylus glaucus** (Lamk.) Merr., Interp. Rumph. Herb. Amb.: 219 (1917). *Menispermum glaucum* Lamk. (1797). *Local name: Goal lata.* A woody climber on the forest edge. *Representative specimen: Satchari, 01. 04. 2009, KA 67 (DUSH).*

**Stephania japonica** (Thunb.) Miers, Ann. Mag. Nat. Hist. Ser. 3, 18: 14 (1866). *Menispermum japonicum* Thunb. (1784). *Local name: Maknadi.* A slender climber on the hill slope. *Representative specimen: Satchari, 04. 12. 2009, KA 216 (DUSH).*

**Tinospora crispa** (L.) Hook. f. & Thoms., Fl. Ind. 1: 183 (1855). *Menispermum crispum* L. (1763). *Local name: Padmaguruz, Amguruz.* A woody climber with warted stem on the hill top. *Representative specimen: Satchari, 31. 05. 2009, KA 183 (DUSH).*

#### 6. ULMACEAE

**Trema orientalis** (L.) Blume, Ann. Mus. Bot. Lugd.-Bat. 2: 62 (1856). *Celtis orientalis* L. (1753). *Local name: Bonanalia.* An evergreen small tree along the roadside and also in the forest. *Representative specimen: Satchari, 30. 05. 2009, KA 102 (DUSH).*

#### 7. MORACEAE

**Artocarpus chaplasha** Roxb., Fl. Ind. 3: 525 (1832). *Local name: Chamul.* A lofty deciduous tree common on the forest. *Representative specimen: Satchari, 30. 05. 2009, KA 101 (DUSH).*

**Artocarpus heterophyllus** Lamk., Encycl. Meth. 3: 209 (1789). *Local name: Kanthal.* A large evergreen tree on the forest edge, cultivated *Representative specimen: Satchari, 31. 05. 2009, KA 188 (DUSH).*

**Artocarpus lacucha** Buch.-Ham., Mem. Wern. Soc. 5: 333 (1826). *Local name: Deua.* Deciduous tree common in the forest. *Representative specimen: Satchari, 31. 05. 2009, KA 145 (DUSH).*

**Ficus ampelas** Burm. f., Fl. Ind.: 226 (1768). A shrub on deep forest shaded area. *Representative specimen: Satchari, 04. 12. 2009, KA 225 (DUSH).*

**Ficus benghalensis** L., Sp. Pl.: 1059 (1753). *Local name: Bot.* A large spreading tree on the foot hill. *Representative specimen: Satchari, 04. 12. 2009, KA 298 (DUSH).*

**Ficus benjamina** L., Mant.: 129 (1767). A medium tree on the forest edge. *Representative specimen: Satchari, 04. 12. 2009, KA 335 (DUSH).*

**Ficus elastica** Roxb. *ex* Hornem, Hort. Bot. Hafn. Suppl.: 7 (1819). LN: Kathali Bot. A small tree on the hill slope. *Representative specimen*: Satchari, 04. 12. 2009, KA 261 (DUSH).

**Ficus fistulosa** Reinw. *ex* Blume, Bijdr.: 470 (1825). A small tree on deep forest shaded area. *Representative specimen*: Satchari, 04. 12. 2009, KA 341 (DUSH).

**Ficus heterophylla** L. f., Suppl. Pl.: 442 (1781). *Local name*: Bhuidumur. A hispid, scandent shrub mostly in wet place. *Representative specimen*: Satchari, 30. 05. 2009, KA 87 (DUSH).

**Ficus hirta** Vahl, Enum. Pl. 2: 201 (1806). A busy tree common near the stream. *Representative specimen*: Satchari, 29. 01. 2009, KA 28 (DUSH).

**Ficus hispida** L. f., Suppl. Pl.: 442 (1781). *Local name*: Kakdumur. A shrub common on the hill slopes. *Representative specimen*: Satchari, 29. 01. 2009, KA 32 (DUSH).

**Ficus nervosa** Heyne *ex* Roth in Roem. *et* Schult., Syst. Veg. 1: 513 (1817). A large tree on the hill slope. *Representative specimen*: Satchari, 04. 12. 2009, KA 264 (DUSH).

**Ficus pumila** L., Sp. Pl.: 1060 (1753). A climber with clinging roots on the hill slope. *Representative specimen*: Satchari, 30. 05. 2009, KA 96 (DUSH).

**Ficus racemosa** L., Sp. Pl.: 1060 (1753). *Local name*: Jagga Dumur. A large tree along the road. *Representative specimen*: Satchari, 04. 12. 2009, KA 222 (DUSH).

**Ficus religiosa** L., Sp. Pl.: 1059 (1753). *Local name*: Ashathwa. A large tree on the hill slopes. *Representative specimen*: Satchari, 04. 12. 2009, KA 248 (DUSH).

**Ficus rumphii** Blume, Bijdr.: 437 (1825). A large tree in the deep forest. *Representative specimen*: Satchari, 04. 12. 2009, KA 322 (DUSH).

**Ficus virens** Aiton, Hort. Kew. 3: 451 (1789). *Local name*: Pakur. A large spreading deciduous tree on the foot hill. *Representative specimen*: Satchari, 04. 12. 2009, KA 347 (DUSH).

**Streblus asper** Lour., Fl. Cochinch. 2: 615 (1790). *Local name*: Shaora. A shrub common on the bank of chara (channel). *Representative specimen*: Satchari, 31. 05. 2009, KA 140 (DUSH).

## 8. URTICACEAE

**Boehmeria macrophylla** Hornem., Hort. Reg. Bot. Hafn. 2: 890 (1815). *Local name*: Ulichara. A herb on the forest bed. *Representative specimen*: Satchari, 28. 01. 2009, KA 11 (DUSH).

**Dendrochide sinuata** (Blume) Chew, Gard. Bull. Sing. 21: 206 (1965). *Local name*: Chutrapata. A dioecious shrubs common on the hill slope and hill top. *Representative specimen*: Satchari, 04. 12. 2009, KA 332 (DUSH).

## 9. JUGLANDACEAE

**Engelhardtia spicata** Lesch. *ex* Blume, Bijdr.: (1825). *Local name*: Zalna. A deciduous tree common on the bank of chara (channel). *Representative specimen*: Satchari, 04. 12. 2009, KA 272 (DUSH).

## 10. FAGACEAE

**Castanopsis castanicaarpa** (Roxb.) Spach., Hist. Veg. Phan. 11: 185 (1842). *Quercus castanicaarpa* Roxb. (1820). *Local name: Hingra*. A medium sized tree on the hill slope. *Representative specimen: Satchari, 31. 05. 2009, KA 195 (DUSH)*.

## 11. AMARANTHACEAE

**Achyranthes aspera** L., Sp. Pl. 204 (1753). *Local name: Apang*. A weed of roadsides and waste places. *Representative specimen: Satchari, 31. 05. 2009, KA 151 (DUSH)*.

**Aerva monosonia** Mant., Beitr. Amarants.: 83 (1825). An annual herb on the hill slope. *Representative specimen: Satchari, 29. 01. 2009, KA 19 (DUSH)*.

**Aerva sanguinolenta** (L.) Blume, Bijd.: 547 (1825). *Achyranthes sanguinolenta* L. (1763). An annual herb on the hill slope. *Representative specimen: Satchari, 04. 12. 2009, KA 374 (DUSH)*.

**Amaranthus spinosus** L., Sp. Pl. 991 (1753). *Local name: Kantanotey*. A profusely branched herb, armed with axillary spines on the forest edge. *Representative specimen: Satchari, 31. 05. 2009, KA 181 (DUSH)*.

**Amaranthus viridis** L., Sp. Pl. ed. 2, 1405 (1763). *Local name: Notey shak*. A slender herb on the forest edge. *Representative specimen: Satchari, 31. 05. 2009, KA 174 (DUSH)*.

## 12. DILLENIACEAE

**Dillenia pentagyna** Roxb., Pl. Corom. 1: 21, t. 20 (1795). *Local name: Bon chalta*. A tree on the forest floor and open area. *Representative specimen: Satchari, 30. 05. 2009, KA 125 (DUSH)*.

**Dillenia scabrella** Roxb. *ex* Wall., Pl. As. Rar. 1: 20, t. 22 (1830). *Local name: Ekuish*. A large tree near the stream. *Representative specimen: Satchari, 04. 12. 2009, KA 372 (DUSH)*.

**Tetracera sarmentosa** (L.) Vahl, Symb. Bot. 3: 70 (1794). *Delima sarmentosa* L. (1753). A woody climber on the forest edge. *Representative specimen: Satchari, 04. 12. 2009, KA 375 (DUSH)*.

## 13. DIPTEROCARPACEAE

**Dipterocarpus turbinatus** Gaertn., De Fruct. 3: 51 (1805). *Local name: Telia garjan*. A lofty tree on the forest floor. *Representative specimen: Satchari, 04. 12. 2009, KA 338 (DUSH)*.

## 14. CLUSIACEAE (GUTTIFERAE)

**Garcinia cowa** Roxb., Fl. Ind. 2: 622 (1824). *Local name: Cawphal*. A tree on the foot hill. *Representative specimen: Satchari, 04. 12. 2009, KA 345 (DUSH)*.

**Garcinia pedunculata** Roxb. *ex* Buch.-Hum. in Brewster, Edinburgh J. Sci. 7: 45, t. 1 (1827). A low tree on the foot hill. *Representative specimen: Satchari, 04. 12. 2009, KA 292 (DUSH)*.

**Garcinia sopsopia** (Buch.-Hum.) Mabberley, Taxon 26: 529 (1977). *Oxycarpus sopsopia* Buch.-Hum. (1826). A low tree on the hill slope. *Representative specimen: Satchari, 04. 12. 2009, KA 239 (DUSH)*.

**Garcinia xanthochymus** Hook. f. ex T. Anders in Hook. f., Fl. Brit. Ind. 1: 269 (1874). *Local name: Dephal*. A much branched tree on the bank of chara (channel). *Representative specimen: Satchari, 04. 12. 2009, KA 277 (DUSH)*.

#### 15. ELAEOCARPACEAE

**Elaeocarpus floribundus** Blume, Bijdr.: 120 (1825). *Local name: Belpoi*. A large tree on the foot hill near wet areas. *Representative specimen: Satchari, 04. 12. 2009, KA 317 (DUSH)*.

**Elaeocarpus tectorius** (Lour.) Poir. in Lamk., Encycl. Suppl. 2: 704 (1812). *Craspedum tectorium* Lour. (1790). *Local name: Jalpai*. Tree on the hill slope. *Representative specimen: Satchari, 04. 12. 2009, KA 368 (DUSH)*.

#### 16. TILIACEAE

**Grewia asiatica** L., Mant. Pl. 1: 122 (1767). A shrub on the hill slope. *Representative specimen: Satchari, 30. 05. 2009, KA 115 (DUSH)*.

**Grewia serrulata** DC. , Prodr. 1: 510 (1824). A shrub on the hill slope. *Representative specimen: Satchari, 04. 12. 2009, KA 211 (DUSH)*.

**Grewia nervosa** (Lour.) Panigr., Taxon 34: 702 (1985). *Fallopia nervosa* Lour. (1790). A shrub in the forest. *Representative specimen: Satchari, 30. 05. 2009, KA 109 (DUSH)*.

#### 17. STERCULIACEAE

**Byttneria pilosa** Roxb., Fl. Ind. 2: 681 (1824). A climbing shrub in the deep forest, shaded area. *Representative specimen: Satchari, 04. 12. 2009, KA 260 (DUSH)*.

**Pterospermum acerifolium** (L.) Willd, Sp. Pl. 3: 729 (1800). *Pentapetes acerifolia* L. (1753). *Local name: Moskanda*. A large tree on the hill slope. *Representative specimen: Satchari, 04. 12. 2009, KA 178 (DUSH)*.

**Sterculia villosa** Roxb. ex Smith in Rees, Cycl. 34, no. 16 (1816). *Local name: Udal*. A medium sized tree in the deep forest, shaded area. *Representative specimen: Satchari, 31. 05. 2009, KA 170 (DUSH)*.

#### 18. MALVACEAE

**Hibiscus surattensis** L., Sp. Pl.: 696 (1753). A herb on the foot hill area. *Representative specimen: Satchari, 31. 05. 2009, KA 202 (DUSH)*.

**Sida acuta** Burm. f., Fl. Ind.: 147 (1768). *Local name: Nakphul*. A herb on the forest edge. *Representative specimen: Satchari, 04. 12. 2009, KA 327 (DUSH)*.

**Urena lobata** L., Sp. Pl.: 692 (1753). *Local name: Banokra*. A herb in waste land and roadside. *Representative specimen: Satchari, 28. 01. 2009, KA 10 (DUSH)*.

### 19. FLACOURTIACEAE

**Flacourtia indica** (Burm. f.) Merr., Interp. Rumph. Herb. Amb: 377 (1917). *Gmelina indica* Burm. f. (1768). *Local name*: Pinagola. A much branched, thorny shrub in the forest edge. *Representative specimen*: Satchari, 04. 12. 2009, KA 240 (DUSH).

**Flacourtia jangomas** (Lour.) Raeusch., Nom. Bot. ed. 3: 290 (1797). A shrub with spines in the forest edge. *Representative specimen*: Satchari, 04. 12. 2009, KA 224 (DUSH).

### 20. CUCURBITACEAE

**Trichosanthes tricuspidata** Lour., Fl. Cochinch.: 589 (1790). *Local name*: Makal. A climber on the forest edge. *Representative specimen*: Satchari, 04.12.2009, KA 204 (DUSH).

**Zehneria japonica** (Thumb.) H. Y. Liu, Bull. Nat. Mus. Nat. (Taiwan) 1: 40 (1989). *Bryonia japonica* Thunb. (1784). A slender climber on the hill slope. *Representative specimen*: Satchari, 31. 05. 2009, KA 159 (DUSH).

### 21. CAPPARACEAE

**Stixis suaveolens** (Roxb.) Pierre, Bull. Soc. Linn. Paris 1: 654 (1887). *Roydsia suaveolens* Roxb. (1819). A woody scandent on the foot hill. *Representative specimen*: Satchari, 29. 01. 2009, KA 31 (DUSH).

### 22. MORINGACEAE

**Moringa oleifera** Lamk., Encycl. 1(2): 398 (1785). *Local name*: Sajna. A small tree, cultivated. *Representative specimen*: Satchari, 29. 01. 2009, KA 34 (DUSH).

### 23. STYRACACEAE

**Styrax serrulatus** Roxb., Fl. Ind. ed. 2: 415-416 (1832). A shrub on the forest bed. *Representative specimen*: Satchari, 04. 12. 2009, KA 278 (DUSH).

### 24. MYRSINACEAE

**Ardisia colorata** Roxb., Fl. Ind. 2: 271 (1824). A tall shrub on the hill slope. *Representative specimen*: Satchari, 04. 12. 2009, KA 255 (DUSH).

**Ardisia solanacea** Roxb., Pl. Corom. 1: 27, t. 27 (1795). An erect shrub on the forest edge. *Representative specimen*: Satchari, 04. 12. 2009, KA 234 (DUSH).

**Maesa montana** A. DC. in DC. , Prodr. 8: 79 (1844). A shrub on the hill slope. *Representative specimen*: Satchari, 31. 05. 2009, KA, 182 (DUSH).

**Maesa ramentacea** (Roxb.) A. DC., Trans. Linn. Soc. 17: 133 (1834). *Baeobotrys ramentacea* Roxb. (1824). A shrub on the hill slope. *Representative specimen*: Satchari, 04. 12. 2009, KA 343 (DUSH).



**25. MIMOSACEAE**

**Acacia concinna** (Willd.) DC., Prodr. 2: 464 (1825). *Mimosa concinna* Willd., Sp. Pl. 4: 1039 (1805). *Local name: Banritha*. A shrub near the stream. *Representative specimen: Satchari, 31. 05. 2009, KA, 194 (DUSH)*.

**Albizia chinensis** (Osb.) Merr., Amer. J. Bot. 3: 575 (1916). *Mimosa chinensis* Osb. (1757). A large tree on the hill slope. *Representative specimen: Satchari, 04. 12. 2009, KA, 280 (DUSH)*.

**Albizia myriophylla** (Roxb.) Benth., Lond. J. Bot. 3: 90 (1844). *Mimosa macrophylla* Roxb. (1832). A large spiny climber near the stream. *Representative specimen: Satchari, 30. 05. 2009, KA, 121 (DUSH)*.

**Mimosa intisia** L., Sp. Pl. 525 (1753). A straggling herb on the forest bed. *Representative specimen: Satchari, 29. 01. 2009, KA 25 (DUSH)*.

**Mimosa pudica** L., Sp. Pl. 518 (1753). *Local name: Lojjabati*. A prickly herb on the forest bed. *Representative specimen: Satchari, 04. 12. 2009, KA 251 (DUSH)*.

**26. CAESALPINIACEAE**

**Cassia nodosa** Buch.-Ham. ex Roxb., Fl. Ind. 2: 336 (1824). A low tree on the hill slope. *Representative specimen: Satchari, 31. 05. 2009, KA 191 (DUSH)*.

**Senna tora** (L.) Roxb., Fl. Ind. 2: 340 (1832). *Cassia tora* L., Sp. Pl.: 376 (1753). *Local name: Lasiabupang*. An annual herb on the forest floor. *Representative specimen: Satchari, 31. 05. 2009, KA 172 (DUSH)*.

**Senna occidentalis** Roxb., Fl. Ind. 2: 343 (1832). An herb near the stream. *Representative specimen: Satchari, 30. 05. 2009, KA 122 (DUSH)*.

**27. FABACEAE (PAPILIONACEAE)**

**Calpogonium mucunoides** Desv., Ann. Sci. Nat. Paris 9: 423 (1826). A climber near the forest edge. *Representative specimen: Satchari, 31. 05. 2009, KA 184 (DUSH)*.

**Dalbergia stipulacea** Roxb., Fl. Ind. 3: 233 (1814). A scandent shrub on the hill top. *Representative specimen: Satchari, 02. 04. 2009, KA 72 (DUSH)*.

**Dalbergia volubilis** Roxb., Pl. Corom. Pl.: 2: 48, t. 191 (1805). *Local name: Dad bari*. A scandent shrub common on the hill slope. *Representative specimen: Satchari, 04. 12. 2009, KA 315 (DUSH)*.

**Desmodium heterocarpon** (L.) DC., Prodr. 2: 337 (1825). *Hedysarum heterocarpon* L. (1753). An erect herb on the forest edge. *Representative specimen: Satchari, 04. 12. 2009, KA 227 (DUSH)*.

**Erythrina variegata** L., Diss. Herb. Amb. Amoen. Acad. 4: 122 (1754). *Local name: Mander*. Soft-wooded tree in forest. *Representative specimen: Satchari, 31. 05. 2009, KA 144 (DUSH)*.

**Flemingia stricta** Roxb., Fl. Ind. 3: 342 (1832). An herb on the deep forest. *Representative specimen*: Satchari, 02. 04. 2009, KA 81 (DUSH).

**Flemingia macrophylla** (Willd.) O. Kuntze *ex* Merr., Philipp. J. Sci. Bot. 5: 130 (1910). *Crotalaria macrophylla* Willd. (1803). An erect herb on the hill top. *Representative specimen*: Satchari, 04. 12. 2009, KA, 297 (DUSH).

## 28. LYTHRACEAE

**Lagerstroemia speciosa** (L.) Pers., Syn. 2: 72 (1807). *Munchausia speciosa* L. (1771). *Local name*: Jarul. A large deciduous tree on the roadside and near the wet area of the forest. *Representative specimen*: Satchari, 31. 05. 2009, KA 129 (DUSH).

**Woodfordia fruticosa** (L.) Kurz, Journ. As. Soc. Beng. 40 (2): 56 (1871). *Lythrum fruticosum* L. (1759). A shrub common on the hill slope and hill top. *Representative specimen*: Satchari, 31. 05. 2009, KA 196 (DUSH).

## 29. THYMELAEACEAE

**Aquilaria agallocha** Roxb., Fl. Ind. 2: 422 (1820). *Local name*: Agar. A medium sized tree on the hill top. *Representative specimen*: Satchari, 31. 05. 2009, KA 132 (DUSH).

## 30. MYRTACEAE

**Syzygium cumini** (L.) Skeels, USDA. Bur., Pl. Industr. Bull. 248: 25 (1912). *Myrtus cumini* L. (1753). *Local name*: Kalojam. A large tree on the hill top and hill slope. *Representative specimen*: Satchari, 30. 05. 2009, KA 126 (DUSH).

**Syzygium fruticosum** (Roxb.) DC., Prodr. 3: 260 (1828). *Eugenia fruticosa* Roxb. (1832). *Local name*: Khudijam. A small tree with pale grey bark on the hill slope and foot hill area. *Representative specimen*: Satchari, 04. 12. 2009, KA 226 (DUSH).

## 31. MELASTOMATACEAE

**Melastoma malabathricum** L., Sp. Pl. 390 (1753). *Local name*: Futki. A herb on the forest edge. *Representative specimen*: Satchari, 01. 04. 2009, KA 39 (DUSH).

## 32. COMBRETACEAE

**Combretum acuminatum** Roxb., Fl. Ind. ed. 2: 228 (1832). A large scandent in shady places of the forest. *Representative specimen*: Satchari, 31. 05. 2009, KA 179 (DUSH).

**Terminalia arjuna** (Roxb. *ex* DC.) Wt. and Arn. Prodr.: 314 (1834). *Pentaptera arjuna* Roxb. *ex* DC. (1828). *Local name*: Arjun. A large tree common on the foot path sides. *Representative specimen*: Satchari, 31. 05. 2009, KA 192 (DUSH). Planted.

**Terminalia bellirica** (Gaertn.) Roxb., Pl. Corom. 2: 54, t. 198 (1805). *Myrobalanus bellirica* Gaertn. (1791). *Local name*: Bohera. A large spreading tree in the deep forest. *Representative specimen*: Satchari, 31. 05. 2009, KA 139 (DUSH).

### 33. OLACACEAE

**Olax nana** Wall. *ex* Benth., Proc. Linn. Soc. 1: 88 (1840). A suffruticose herb on the forest edge. *Representative specimen*: Satchari, 04. 12. 2009, KA 326 (DUSH).

### 34. CELASTRACEAE

**Lophopetalum wightianum** Arn., Ann. Nat. Hist. 3: 151 (1839). *Local name*: *Raktan*. A large, tall tree on wet area of the forest. *Representative specimen*: Satchari, 04. 12. 2009, KA 276 (DUSH).

### 35. EUPHORBIACEAE

**Antidesma ghaesembilla** Gaertn., Fruct. 1: 189, (1788). *Local name*: *Anna*. A shrub on the forest edge. *Representative specimen*: Satchari, 30. 05. 2009, KA 93 (DUSH).

**Aporusa dioica** (Roxb.) Muell.-Arg. in DC., Prodr. 15 (2): 472 (1866). *Local name*: *Kakra*. An evergreen tree in the forest. *Representative specimen*: Satchari, 04. 12. 2009, KA 305 (DUSH).

**Aporusa wallichii** Hook. f., Fl. Brit. Ind. 5: 350 (1885). A medium sized tree most common all over the forest. *Representative specimen*: Satchari, 29. 01. 2009, KA 27 (DUSH).

**Bischofia javanica** Blume, Bijdr.: 1168 (1827). *Local name*: *Kanjai, Bhadi*. A deciduous tree near the stream. *Representative specimen*: Satchari, 04. 12. 2009, KA 217 (DUSH).

**Breynia retusa** (Dennst.) Alston, Ann. Roy. Bot. Gard (Peradeniya) 11: 204 (1929). *Phyllanthus retusus* Dennst. (1818). A shrub in the deep forest. *Representative specimen*: Satchari, 30. 05. 2009, KA 108 (DUSH).

**Bridelia stipularis** (L.) Blume, Bijdr.: 597 (1826). *Clutia stipularis* L., Mant. Pl.: 127 (1767). A scandent shrub on the forest edge. *Representative specimen*: Satchari, 04. 12. 2009, KA 306 (DUSH).

**Euphorbia hirta** L., Sp. Pl.: 454 (1753). *Local name*: *Dudia*. An annual herb on the forest edge. *Representative specimen*: Satchari, 31. 05. 2009, KA 197 (DUSH).

**Macaranga indica** Wight, Pl. Ind. Or. 5, 2:t. 1883 (1852). *Local name*: *Gulile*. A shrub on the hill slope. *Representative specimen*: Satchari, 31. 05. 2009, KA 141 (DUSH).

**Macaranga peltata** (Roxb.) Muell.-Arg. in DC., Prodr. 15, 2: 1010 (1866). *Osyris peltata* Roxb. (1832). A low tree on the hill slope. *Representative specimen*: Satchari, 04. 12. 2009, KA 344 (DUSH).

**Mallotus philippensis** (Lamk.) Muell.-Arg., Linnaea 34(1): 196 (1865). *Croton philippense* Lamk. (1786). *Local name*: *Moinbura*. A shrub in the forest edge. *Representative specimen*: Satchari, 28. 01. 2009, KA 14 (DUSH).

**Phyllanthus emblica** L., Sp. Pl.: 982 (1753). *Local name*: *Amloki*. A deciduous tree on the hill top. *Representative specimen*: Satchari, 31. 05. 2009, KA 138 (DUSH).

**Suregada multiflora** (A. Juss.) Baill., *Etudes Gen. Euphorb.*: 396 (1858). *Gelonium multiflorum* A. Juss. (1824). A middle sized tree on the forest edge. *Representative specimen*: Satchari, 04. 12. 2009, KA 212 (DUSH).

**Trewia nudiflora** L., *Sp. Pl.*: 1193 (1753). *Local name*: *Pidali*. A deciduous medium sized tree near the stream. *Representative specimen*: Satchari, 31. 05. 2009, KA 187 (DUSH).

### 36. RHAMNACEAE

**Zizyphus oenoplia** (L.) Mill., *Gard. Dict.* ed. 8. no. 3 (1768). *Rhamnus oenoplia* L. (1762). A prickly shrub on the hill slope. *Representative specimen*: Satchari, 04. 12. 2009, KA 279 (DUSH).

### 37. LEEACEAE

**Leea acuminata** Wall., *Cat.* no. 6830 (1832). A robust herb on the hill slope. *Representative specimen*: Satchari, 30. 05. 2009, KA 94 (DUSH).

**Leea aequata** L., *Mant. Pl.* 1: 124 (1767). A herb on the hill top. *Representative specimen*: Satchari, 04. 12. 2009, KA 208 (DUSH).

**Leea guinensis** G. Don, *Gen. Syst.* 1: 712 (1831). A herb on the forest edge. *Representative specimen*: Satchari, 04. 12. 2009, KA 291 (DUSH).

### 38. VITACEAE

**Ampelocissus barbata** (Wall.) Planch. in DC., *Monogr. Phan.* 5: 375 (1887). *Vitis barbata* Wall. (1824). A stout climber on the forest edge. *Representative specimen*: Satchari, 01. 04. 2009, KA 50 (DUSH).

**Cayratia japonica** (Thunb.) Gagnep., *Not. Syst.* 1: 349 (1911). *Vitis japonica* Thunb. (1784). A slender climber on the hill slope. *Representative specimen*: Satchari, 04. 12. 2009, KA 303 (DUSH).

**Tetrastigma angustifolium** (Roxb.) Planch. in DC., *Monogr. Phan.* 5: 439 (1887). *Cissus angustifolia* Roxb. (1820). A slender climber on the deep forest bed. *Representative specimen*: Satchari, 29. 01. 2009, KA 29 (DUSH).

### 39. SAPINDACEAE

**Lepisanthes rubiginosa** (Roxb.) Leenh., *Blumea* 17: 82 (1969). *Sapindus rubiginosus* Roxb. (1796). *Local name*: *Apain*. A shrub on the hill slope. *Representative specimen*: Satchari, 31. 05. 2009, KA 136 (DUSH).

### 40. BURSERACEAE

**Protium serratum** (Wall. ex Colebr.) Engl. in DC., *Monogr. Phan.* 4: 88 (1883). *Bursera serrata* Wall. ex Colebr. (1827). *Local name*: *Neul*. An evergreen tree on the hill slope. *Representative specimen*: Satchari, 31. 05. 2009, KA 133 (DUSH).

#### 41. ANACARDIACEAE

**Holigrana longifolia** Roxb., Fl. Ind. 2: 80 (1824). *Local name: Jaowa*. A tall tree with spreading branched on the foot hill. *Representative specimen: Satchari, 04. 12. 2009, KA 370 (DUSH)*.

**Mangifera longipes** Griff., Notul, 4: 419 (1854). *Local name: Milam*. A large tree on the foot hill. *Representative specimen: Satchari, 31. 05. 2009, KA 160 (DUSH)*.

#### 42. MELIACEAE

**Aglaia spectabilis** (Miq.) Jain & Bennet, Ind. J. For. 9: 271 (1987). *Amoora spectabilis* Miq. (1868). *Local name: Rongi rata*. A medium sized tree on the bank of chara (channel). *Representative specimen: Satchari, 04. 12. 2009, KA 354 (DUSH)*.

**Aphanamixis polystachya** (Wall.) Parker, Ind. For. 57: 486 (1931). *Sphaerosacme polystachya* Wall. (1829). *Local name: Royna, Pitraj*. A large tree on the hill slope. *Representative specimen: Satchari, 04. 12. 2009, KA 218 (DUSH)*.

**Toona ciliata** M. Roem., Syn. Monogr. 1: 139 (1846). *Local name: Rongi*. A medium sized tree on the hill slope. *Representative specimen: Satchari, 31. 05. 2009, KA 127 (DUSH)*.

**Walsura robusta** Roxb., Fl. Ind. 2: 386 (1824). *Local name: Bonlichu*. A medium sized tree on the bank of chara (channel). *Representative specimen: Satchari, 02. 04. 2009, KA 82 (DUSH)*.

#### 43. RUTACEAE

**Citrus maxima** (Burm.) Merr., Interp. Rumph. Herb. Amb: 296 (1918). A small evergreen tree, cultivated. *Representative specimen: Satchari, 30. 05. 2009, KA 114 (DUSH)*.

**Clausena suffruticosa** (Roxb.) Wight & Arn., Prodr.: 96 (1834). *Amyris suffruticosa* Roxb. (1832). A small shrub on the forest edge. *Representative specimen: Satchari, 01. 04. 2009, KA 82 (DUSH)*.

**Glycosmis pentaphylla** (Retz.) A. DC., Prodr. 1: 538 (1824). *Limonia pentaphylla* Retz. (1788). *Local name: Motkila*. A low shrub on the forest edge. *Representative specimen: Satchari, 04. 12. 2009, KA 221 (DUSH)*.

**Micromelum minutum** (G. Forster) Wight & Arn., Prodr. Fl. Ind. Orient.: 448, 468 (1834). *Limonia minutum* Forster (1786). *Local name: Padra pisti*. A shrub on the hill slopes. *Representative specimen: Satchari, 30. 05. 2009, KA 84 (DUSH)*.

#### 44. ARALIACEAE

**Trevesia palmata** (Roxb.) Vis., Mem. Acad. Torin. 2, 4: 262 (1842). *Gastonia palmata* Roxb. (1824). *Local name: Katagach*. An erect shrub in shaded area of the forest. *Representative specimen: Satchari, 28. 01. 2009, KA 04 (DUSH)*.

#### 45. APOCYNACEAE

**Alstonia scholaris** (L.) R. Br., Mem. Wern. Nat. Hist. S. 1: 75 (1811). *Echites scholaris* L. (1767). *Local name: Chatim*. A tall tree on the hill top. *Representative specimen: Satchari, 31. 05. 2009, KA 150 (DUSH)*.

**Tabernaemontana divaricata** (L.) R. Br. *ex* Roem. & Schult., Syst 4: 427 (1819). *Nerium divaricata* L. (1753). *Local name*: *Kakra*. A low shrub on the hill slope. *Representative specimen*: Satchari, 01. 04. 2009, KA 47 (DUSH).

**Ichnocarpus frutescens** (L.) R. Br. in Ait. f., Hort. Kew. ed. 2, 2: 69 (1811). *Apocynum frutescens* L. (1753). *Local name*: *Dud lata*. A profusely branched woody climber on the forest edge. *Representative specimen*: Satchari, 04. 12. 2009, KA 293 (DUSH).

**Rauvolfia serpentina** (L.) Benth. *ex* Kurz, For. Fl. Brit. Burma 2: 171 (1877). *Ophioxylon serpentinum* L. (1753). *Local name*: *Sarpagandha*. A woody herb on the forest bed. *Representative specimen*: Satchari, 31. 05. 2009, KA 175 (DUSH).

**Willoughbeia edulis** Roxb., Pl. Corom. 3:77, t. 280 (1820). *Local name*: *Lolam*. A large climber on the hill slope. *Representative specimen*: Satchari, 02. 04. 2009, KA 76 (DUSH).

#### 46. ASCLEPIADACEAE

**Hoya parasitica** (Roxb.) Wall. *ex* Wight, Contr. Bot. Ind.: 37 (1834). *Asclepias parasitica* Roxb. (1832). *Local name*: *Serapata*. A succulent epiphytic climber common on trees, deep forest area. *Representative specimen*: Satchari, 30. 05. 2009, KA 124 (DUSH).

#### 47. SOLANACEAE

**Physalis minima** L., Sp. Pl.: 183 (1753). Annual herb on the forest edge. *Representative specimen*: Satchari, 31. 05. 2009, KA 198 (DUSH).

**Solanum torvum** Sw., Nov. Gen. Sp. Pl.: 47 (1788). A shrub near the stream. *Representative specimen*: Satchari, 02. 04. 2009, KA 74 (DUSH).

**Solanum violaceum** Ortega., Hort. Matr. Dec.: 56 (1798). *Local name*: *Phutki begun*. A branched shrub on the forest edge. *Representative specimen*: Satchari, 04. 12. 2009, KA 285 (DUSH).

#### 48. CONVULVULACEAE

**Argyreia nervosa** (Burm. f.) Boj., Hort. Maurit.: 224 (1837). *Convolvulus nervosus* Burm. f. (1768). A climber near stream. *Representative specimen*: Satchari, 04. 12. 2009, KA 259 (DUSH).

**Merremia umbellata** (L.) Hallier f., Bot. Jahrb. 16: 552 (1893). *Convolvulus umbellatus* L. (1753). *Local name*: *Sainna lata*. A woody twiner in the deep forest bed. *Representative specimen*: Satchari, 01. 04. 2009, KA 49 (DUSH).

#### 49. VERBENACEAE

**Callicarpa arborea** Roxb., Fl. Ind. 1: 405 (1820). A deciduous tree on the hill top. *Representative specimen*: Satchari, 31. 05. 2009, KA 142 (DUSH).

**Clerodendrum viscosum** Vent., Jard. Malm. 1: 25, Pl. 25 (1803). *Local name*: *Bhant*. A soft tomentose woody herb on the forest edge. *Representative specimen*: Satchari, 28. 01. 2009, KA, 02 (DUSH).

**Lantana camara** L., Sp. Pl.: 627(1753). Branching herb on the forest edge. *Representative specimen*: Satchari, 28. 01. 2009, KA 12 (DUSH).

**Premna esculenta** Roxb., Fl. Ind. 2, 3: 81 (1832). A low shrub on the hill top. *Representative specimen*: Satchari, 30. 05. 2009, KA 117 (DUSH).

**Tectona grandis** L. f., Suppl.: 151 (1781). *Local name*: Segun. Trees on the forest edge, planted. *Representative specimen*: Satchari, 31. 05. 2009, KA 128 (DUSH).

**Vitex altissima** L. f., Suppl. Pl.: 294 (1781). *Local name*: Monawal. A medium sized tree on the hill slope. *Representative specimen*: Satchari, 04. 12. 2009, KA 337 (DUSH).

**Vitex glabrata** R. Br., Prodr. Fl. Nov. Holl.: 512 (1845). *Local name*: Badruk. A deciduous tree on the forest edge. *Representative specimen*: Satchari, 01. 04. 2009, KA 64 (DUSH).

**Vitex peduncularis** Wall. ex Schauer in A. DC., Prodr. 11: 687 (1847). *Local name*: Awal. A large tree on the hill slope. *Representative specimen*: Satchari, 31. 05. 2009, KA 173 (DUSH).

#### 50. LAMIACEAE (LABIATAE)

**Hyptis suaveolens** (L.) Poit., Ann. Mus. Par. 7: 472, t. 29 (1806). *Ballota suaveolens* L. (1759). *Local name*: Tokma. An aromatic herb common on the forest edge. *Representative specimen*: Satchari, 31. 05. 2009, KA 169 (DUSH).

#### 51. OLEACEAE

**Jasminum multiflorum** (Burm. f.) Andr., Bot. Rep. 8:t. 496 (1807). *Nyctanthes multiflora* Burm. f. (1768). A large scandant common on the forest edge. *Representative specimen*: Satchari, 01. 04. 2009, KA 66 (DUSH).

**Myxopyrum smilacifolium** (Wall.) Blume, Mus. Bot. Lugd.-Bat. 1: 320 (1850). *Chionanthus smilacifolia* Wall. (1820). A glabrous climber on the forest edge. *Representative specimen*: Satchari, 04. 12. 2009, KA 223 (DUSH).

#### 52. SCROPHULARIACEAE

**Scoparia dulcis** L., Sp. Pl.: 166 (1753). *Local name*: Bondhane. A herb on the forest edge. *Representative specimen*: Satchari, 31. 05. 2009, KA 148 (DUSH).

**Torenia diffusa** D. Don, Prodr. Fl. Nepal: 86 (1825). A creeping herb on the wet area of the forest. *Representative specimen*: Satchari, 30. 05. 2009, KA 119 (DUSH).

#### 53. GESNERIACEAE

**Rhynchoechum ellipticum** (Diet.) DC., Prodr. 9: 285 (1845). An erect shrub on the hill slope and shaded area. *Representative specimen*: Satchari, 30. 05. 2009, KA 103 (DUSH).

#### 54. ACANTHACEAE

**Eranthemum album** (Roxb.) Nees in DC., Prodr. 11: 455 (1847). *Justicia alba* Roxb. (1847). A herb in shaded area of foot hills. *Representative specimen*: Satchari, 31. 05. 2009, KA 180 (DUSH).

**Justicia adhatoda** L., Sp. Pl.: 15 (1753). *Local name: Bashak*. A shrub on the forest edge. *Representative specimen: Satchari, 04. 12. 2009, KA 324 (DUSH)*.

**Lepidagathis incurva** Buch.-Ham. *ex* D. Don, Prodr. Fl. Nepal: 119 (1825). A herb on the hill top. *Representative specimen: Satchari, 04. 12. 2009, KA 309 (DUSH)*.

**Nelsonia canescens** (Lamk.) Spreng., Syst. 16. 1: 42 (1824). *Justicia canescens* Lamk. (1791). A herb on the forest edge. *Representative specimen: Satchari, 04. 12. 2009, KA 271 (DUSH)*.

**Staurogyne argentea** T. Anders., Journ. Linn. Soc. 9: 451 (1867). A small herb in shaded area of foot hills. *Representative specimen: Satchari, 04. 12. 2009, KA 351 (DUSH)*.

**Thunbergia grandiflora** (Roxb. *ex* Rottler) Roxb., Bot. Reg. 6: t. 495 (1820). *Flemingia grandiflora* Roxb. *ex* Rottler, Ges. Naturf. Freund Berlin Neue Schriften 4: 202 (1803). A climber in the forest. *Representative specimen: Satchari, 02. 04. 2009, KA 77 (DUSH)*.

#### 55. BIGNONIACEAE

**Fernandoa adenophylla** (Wall. *ex* G. Don) van Steenis, Blumea 23: 135 (1976). *Bignonia adenophylla* Wall. *ex* G. Don (1838). *Local name: Banpata*. A deciduous tree on the hill slope. *Representative specimen: Satchari, 04. 12. 2009, KA 275 (DUSH)*.

**Oroxylum indicum** (L.) Kurz, For. Fl. Brit. Burma 2: 237 (1877). *Bignonia indica* L. (1753). A tree in the forest bed. *Representative specimen: Satchari, 04. 12. 2009, KA 336 (DUSH)*.

**Stereospermum colais** (Buch.-Ham. *ex* Dillw.) Mabblerley, Taxon 27: 553 (1979). *Bignonia colais* Buch.-Ham. *ex* Dillw. (1839). *Local name: Paroi*. A large deciduous tree on the hill slope. *Representative specimen: Satchari, 31. 05. 2009 KA 149 (DUSH)*.

#### 56. RUBIACEAE

**Aidia densiflora** (Wall.) Masam., Sci. Rep. Kanazawa Uni. 4: 85 (1955). *Webera oppositifolia* Wall. in Roxb, Fl. Ind. 2: 536 (1824) ed.1. *Local name: Manakata*. A shrub in the forest edge. *Representative specimen: Satchari, 04. 12. 2009, KA 236 (DUSH)*.

**Gardenia coronaria** Buch.-Ham. Syme's Emb. Ava. 11. 3: 307, t. 22 (1825). *Local name: Sitgach*. A low tree on the hill slope. *Representative specimen: Satchari, 04. 12. 2009, KA 313 (DUSH)*.

**Hymenodictyon orixensis** (Roxb.) Mabb., Taxon 31: 66 (1982). *Hymenodictyon excelsum* (Roxb.) Wall. (1824). *Local name: Paharia thona*. A large deciduous tree on the deep forest. *Representative specimen: Satchari, 31. 05. 2009, KA 135 (DUSH)*.

**Ixora cuneifolia** Roxb., Fl. Ind. 1: 380 (1820). An evergreen shrub common on the forest bed. *Representative specimen: Satchari, 01. 04. 2009, KA 48 (DUSH)*.

**Ixora javanica** DC., Prodr. 4: 487 (1830). A low shrub common on the forest bed. *Representative specimen: Satchari, 01. 04. 2009, KA 45 (DUSH)*.



**Morinda angustifolia** Roxb., Fl. Ind. 1: 547 (1820). *Local name:* *Ranggach*. An erect shrub common on the bank of chara (channel). *Representative specimen:* Satchari, 31. 05. 2009, KA 193 (DUSH).

**Mussaenda roxburghii** Hook. f., Fl. Brit. Ind. 3: 87 (1880). A shrub on the hill slope. *Representative specimen:* Satchari, 04. 12. 2009, KA 254 (DUSH).

**Neolamarckia cadamba** (Roxb.) Bosser, Bull. Mus. Hist. Nat. Paris, Ser. 6, Sec. B, 3:247 (1984). *Anthocephalus cadamba* (Roxb.) Miq. (1856). *Local name:* *Kadam*. Large tree on the hill slope. *Representative specimen:* Satchari, 31. 05. 2009, KA 213 (DUSH).

**Ophiorrhiza villosa** Roxb., Fl. Ind. 1:702 (1820). A small herb on the hill top. *Representative specimen:* Satchari, 30. 05. 2009, KA 89 (DUSH).

**Paederia foetida** L., Mant.1: 52 (1767). *Local name:* *Gandha badhuli*. A slender climber on the forest edge. *Representative specimen:* Satchari, 04. 12. 2009, KA 319 (DUSH).

**Psychotria monticola** Kurz, J. Asiat. Soc. Beng. 41(2): 315 (1872). A shrub on the hill slope. *Representative specimen:* Satchari, 04. 12. 2009, KA 233 (DUSH).

**Spermacoe latifolia** Aublet, Hist. Pl. Guiane Frtan. 1: 55, t. 19, f. 1 (1775). *Borreria latifolia* (Aublet) K. Schum. (1888). *Local name:* *Thitulon*. A procumbent rough hispid herb on the forest floor. *Representative specimen:* Satchari, 04. 12. 2009, KA 237 (DUSH).

#### 57. ASTERACEAE (COMPOSITAE)

**Ageratum conyzoides** L., Sp. Pl.: 839 (1753). An annual herb on the dry valley of forest area. *Representative specimen:* Satchari, 04. 12. 2009, KA 307 (DUSH).

**Elephantopus scaber** L., Sp. Pl.: 814 (1753). An erect perennial herb on the hill top and hill slope. *Representative specimen:* Satchari, 04. 12. 2009, KA 229 (DUSH).

**Chromolaena odorata** (L.) King & Robinson, Phytologia 20: 204 (1970). *Eupatorium odoratum* L. (1759). *Local name:* *Pisaish*. An annual herb most common on the forest bed and in open areas. *Representative specimen:* Satchari, 31. 05. 2009, KA 199 (DUSH).

**Spilanthes calva** DC. in Wight, Contrib. Bot. Ind.: 19 (1834). An annual herb on the forest edge. *Representative specimen:* Satchari, 04. 12. 2009, KA 302 (DUSH).

**Synedrella nodiflora** (L.) Gaertn., Fruct. 2: 456. t. 171 (1791). *Verbesina nodiflora* L. (1787). A herb on the forest edge. *Representative specimen:* Satchari, 04. 12. 2009, KA 249 (DUSH).

**Vernonia cinerea** (L.) Less., Linnaea 4(1): 291 (182). *Conyza cinerea* L. (1753). An erect, more or less pubescent annual herb on the forest edge. *Representative specimen:* Satchari, 29. 01. 2009, KA 24 (DUSH).

**Vernonia extensa** DC., Prodr. 5: 33 (1836). An erect herb on the forest edge. *Representative specimen:* Satchari, 02. 04. 2009, KA 75 (DUSH).

**LILIOPSIDA (MONOCOTS)****58. ARECACEAE**

**Calamus tenuis** Roxb., Fl. Ind. eds. 2, 3: 780 (1832). *Local name: Jalibet.* A scandent rattan in the wet areas of forest. *Representative specimen: Satchari, 28. 01. 2009, KA 09 (DUSH).*

**Calamus viminalis** Willd., Sp. Pl. 2(1): 203 (1799). *Local name: Bet.* A thicket forming climbers in the wet area of forest. *Representative specimen: Satchari, 04. 12. 2009, KA 243 (DUSH).*

**Caryota urens** L., Sp. Pl. 1189 (1753). Trunk solitary, annulate, erect in the forest. *Representative specimen: Satchari, 04. 12. 2009, KA 296 (DUSH).*

**Wallichia densiflora** Mart., Hist. Palm. 3:190 (1838). A short stemmed palm on the foot hills. *Representative specimen: Satchari, 29. 01. 2009, KA 22 (DUSH).*

**59. PANDANACEAE**

**Pandanus foetidus** Roxb., Fl. Ind. eds. 2, 3: 742 (1832). *Local name: Keya kanta.* A shrub on the forest edge. *Representative specimen: Satchari, 31. 05. 2009, KA 162 (DUSH).*

**60. ARACEAE**

**Alocasia acuminata** Schott, Bonpland. 7: 28 (1859). A rhizomatous aroid on the hill slope. *Representative specimen: Satchari, 04. 12. 2009, KA 329 (DUSH).*

**Alocasia fornicata** (Roxb.) Schott, Oesterr. Bot. Wochenbl. 4: 410 (1854). *Arum fornicatum* Roxb. (1832). A rhizomatous aroid in forest bed. *Representative specimen: Satchari, 31. 05. 2009, KA 203 (DUSH).*

**Amorphophallus bulbifer** (Roxb.) Blume, Rumphia 1: 148 (1837). *Arum bulbiferum* Roxb. (1832). An annual aroid shaded area of the hill slope and foot hills. *Representative specimen: Satchari, 31. 05. 2009, KA 137 (DUSH).*

**Colocasia esculenta** (L.) Schott in Schott & Endl., Melet. Bot.: 18 (1832). *Arum esculentum* L. (1753). *Local name: Kochu.* A perennial aroid in wet area of forest. *Representative specimen: Satchari, 31. 05. 2009, KA 171 (DUSH).*

**Colocasia fallax** Schott, Bonpl. 7: 28 (1859). A rhizomatous herb on the hill slope. *Representative specimen: Satchari, 04. 12. 2009, KA 235 (DUSH).*

**Homalomena aromatica** (Roxb. ex Sim.) Schott, Schott & Endl., Melet. Bot. 20 (1832). *Calla aromatica* Roxb. ex Sim. (1832). A rhizomatous herb on the hill top. *Representative specimen: Satchari, 31. 05. 2009, KA 200 (DUSH).*

**Lasia spinosa** (L.) Thwait., Enum. Pl. Zeyl.: 336 (1864). *Dracontium spinosum* L. (1753). *Local name: Kanta kachu.* An intensely prickly plant in shaded area of foot hill. *Representative specimen: Satchari, 31. 05. 2009, KA 201 (DUSH).*

**Stuednera colocasioides** Hook. f., Fl. Brit. Ind. 6: 520 (1893). *Local name: Bish kachu.* A rhizomatous herb on the hill top. *Representative specimen: Satchari, 04. 12. 2009, KA 350 (DUSH).*

**61. COMMELINACEAE**

**Commelina benghalensis** L., Sp. Pl.: 41 (1753). *Local name: Dholpata*. A slender herb on the hill slopes. *Representative specimen: Satchari, 31. 05. 2009, KA 158 (DUSH)*.

**Commelina diffusa** Burm. f., Ind. 18, t. 7 (1768). An annual slender herb on the forest bed. *Representative specimen: Satchari, 04. 12. 2009, KA 269 (DUSH)*.

**Commelina erecta** L., Sp. Pl.: 41 (1753). A perennial herb on the forest edge. *Representative specimen: Satchari, 04. 12. 2009, KA 333 (DUSH)*.

**Commelina paludosa** Blume, Enum. Pl. Jav. 1: 2 (1827). A stout herb in the bank of chara (channel). *Representative specimen: Satchari, 31. 05. 2009, KA 206 (DUSH)*.

**Floscopa scandens** Lour., Fl. Coch.: 193 (1790). A perennial herb on the wet area of forest. *Representative specimen: Satchari, 04. 12. 2009, KA 342 (DUSH)*.

**Murdannia elata** (Vahl) Bruck in Engl. & Prantl, Nat. Pflanzenfam. ed. 2, 15a:173 (1930). *Commelina elata* Vahl (1808). A stout herb on the hill top. *Representative specimen: Satchari, 30. 05. 2009, KA 97 (DUSH)*.

**62. CYPERACEAE**

**Carex jackiana** Boott., Linn., Soc. 1: 260 (1845). A rhizomatous herb most area of forest. *Representative specimen: Satchari, 01. 04. 2009, KA 54 (DUSH)*.

**Cyperus compressus** L., Sp. Pl. 46 (1753). *Local name: Chancha*. Annual, tufted everywhere in the forest. *Representative specimen: Satchari, 04. 12. 2009, KA 353 (DUSH)*.

**Cyperus laxus** Lamk., Ill. Gen. 1: 146 (1791). A perennial herb on the hill top. *Representative specimen: Satchari, 30. 05. 2009, KA 100 (DUSH)*.

**Cyperus rotundus** L., Sp. Pl. 45 (1753). *Local name: Motha ghas*. Perennial in sandy soil and moist places of forest. *Representative specimen: Satchari, 31. 05. 2009, KA 167 (DUSH)*.

**Fimbristylis acuminata** Vahl, En. Pl. 2: 285 (1806). An annual herb near the stream. *Representative specimen: Satchari, 30. 05. 2009, KA 99 (DUSH)*.

**63. POACEAE (GRAMINEAE)**

**Arundinella bengalensis** (Spreng.) Druce in Rep. Bot. Exchang. Club, Brit, Isles. 605 (1916). *Panicum bengalense* Spreng. (1825). A stout perennial herb on the hill slope. *Representative specimen: Satchari, 31. 05. 2009, KA 154 (DUSH)*.

**Bambusa tulda** Roxb., Fl. Ind. 2: 193 (1824). *Local name: Wana, Mitinga*. A clump forming bamboo on the hill slope and hill top. *Representative specimen: Satchari, 04. 12. 2009, KA 334 (DUSH)*.

**Centotheca lappacea** (L.) Desv. in Nouv. Bull. Soc. Philom. 2: 189 (1810). *Cenchrus lappaceus* L. (1763). A tufted perennial grass on the forest edge. *Representative specimen: Satchari, 29. 01. 2009, KA 17 (DUSH)*.

**Cyrtococcum oxyphyllum** (Steud.) Stapf. in Hook., Ic. Pl.: sub. t, 3096 (1922). *Panicum oxyphyllum* Steud. (1854). A perennial tall herb on the hill top and shaded area. *Representative specimen*: Satchari, 29. 01. 2009, KA 18 (DUSH).

**Imperata cylindrica** (L.) Beauv., Ess. Agrost.: 165 (1812). *Lagurus cylindricus* L., Syst. Nat. ed. 10:878 (1759). *Local name*: Ulukhar. A herb on the forest bed. *Representative specimen*: Satchari, 31. 05. 2009, KA 156 (DUSH).

**Hemarthria protensa** Steud., Syn. Pl. Glum.: 359 (1854). *Local name*: Chalia. An erect to decumbent grass near stream. *Representative specimen*: Satchari, 31.05.2009, KA 168 (DUSH).

**Melocanna baccifera** (Roxb.) Kurz, Prelim. Rep. For. Veg. Pegu. App. B.: 94 (1875). *Bambusa baccifera* Roxb. (1814). *Local name*: Muli. Evergreen unarmed bamboo on the hill slope. *Representative specimen*: Satchari, 02. 04. 2009, KA 78 (DUSH).

**Panicum notatum** Retz., Obs. Bot. 4: 18 (1786). A tufted, perennial grass growing in the forest bed. *Representative specimen*: Satchari, 29. 01. 2009, KA 20 (DUSH).

**Paspalum longifolium** Roxb., Fl. Ind. 1:283 (1820 ). *Local name*: Goicha. A glabrous, annual grass in the damp place. *Representative specimen*: Satchari, 31. 05. 2009, KA 162 (DUSH).

**Setaria glauca** (L.) P. Beauv., Ess. Agrost. 51. 169 (1812). *Pennisetum typhoides* (Burm. f.) Stapf & C.E. Hubb. 1933. A tufted, annual grass on the hill slope. *Representative specimen*: Satchari, 02. 04. 2009, KA 70 (DUSH).

**Themda quadrivalvis** (L.) Kuntze, Rev. Gen. 2: 793 (1891). *Andropogon quadrivalvis* L. (1774). An annual herb in the deep forest. *Representative specimen*: Satchari, 04. 12. 2009, KA 250 (DUSH).

**Thysanolaena maxima** (Roxb.) O. Kuntze, Rev. Gen. Pl. 2: 794 (1891) *Agrostis maxima* Roxb. (1820). *Local name*: Jhariful. A perennial tall herb on the hill slope. *Representative specimen*: Satchari, 29. 01. 2009, KA 30 (DUSH).

#### 64. ZINGIBERACEAE

**Alpinia malaccensis** (Burm. f.) Rosc. in Trans. Linn. Soc. 8: 345 (1808). *Maranta malaccensis* Burm. f. (1768). A robust rhizomatous herb on the hill slope and foot hill area. *Representative specimen*: Satchari, 04. 12. 2009, KA 321 (DUSH).

**Amomum aromaticum** Roxb., Fl. Ind. 1: 45 (1820). *Local name*: Tara. A rhizomatous herb on the hill slope. *Representative specimen*: Satchari, 04. 12. 2009, KA 316 (DUSH).

**Amomum corynostachyum** Wall. Pl. Asiat. Rar. 1: 48 t. 58 (1830). A rhizomatous herb on the hill slope and foot hill area. *Representative specimen*: Satchari, 30. 05. 2009, KA 107 (DUSH).

**Amomum dealbatum** Roxb., Fl. Ind. 1: 43 (1820). A rhizomatous herb on the hill slope. *Representative specimen*: Satchari, 30. 05. 2009, KA 104 (DUSH).

**Curcuma latifolia** Rosc. in Trans. Linn. Soc. Lond. 8: 3 (1807). A rhizomatous herb on the hill top. *Representative specimen*: Satchari, 30. 05. 2009, KA 105 (DUSH).

**Curcuma zedoaria** (Christm.) Rosc. in Trans. Linn. Soc. Lond. 8: 354 (1807). *Curcuma zerumbet* Roxb. (1810). *Local name: Shoti*. A stemless herb with pale yellow-white rhizome in the shady places of the forest. *Representative specimen: Satchari, 31. 05. 2009, KA 163 (DUSH)*.

**Etingera linguiformis** (Roxb.) R. M. Smith, Notes RBG. Edinb. 43 (2): 246 (1986). *Alpinia linguiforme* Roxb., Pl. Corom. 3: 74, t. 276 (1819). A rhizomatous herb on the foot hill and shaded area. *Representative specimen: Satchari, 04. 12. 2009, KA 258 (DUSH)*.

**Globba multiflora** Wall. ex Baker in Hook. f., Fl. Brit. Ind., 6: 202 (1890). A small rhizomatous herb on the foot hill and shaded area. *Representative specimen: Satchari, 04. 12. 2009, KA 214 (DUSH)*.

#### 65. COSTACEAE

**Costus speciosus** (Koenig ex Retz.) Smith, Trans. Linn. Soc. London 1: 249 (1791). *Banksea speciosa* Koenig ex Retz. (1783). *Local name: Jongliphul, Gardong*. A tall herb in the forest bed. *Representative specimen: Satchari, 31. 05. 2009, KA 165 (DUSH)*.

#### 66. MARANTACEAE

**Schumannianthus dichotomous** (Roxb.) Gagnep., Bull. Soc. Bot. Fr. 51: 176 (1904). *Clinogyne dichotoma* (Roxb.) Salisb. ex Benth. (1883). *Local name: Mukta, Mustak*. A herb on the forest floor. *Representative specimen: Satchari, 29. 01. 2009, KA 26 (DUSH)*.

#### 67. LILIACEAE

**Crinum asiaticum** L., Sp. Pl.: 419 (1753). A large herb on the hill slope. *Representative specimen: Satchari, 31. 05. 2009, KA 164 (DUH)*.

**Curculigo orchioides** Gaertn., Fruct. 1: 63, t. 16 (1788). *Local name: Satipata, Luruk*.

A large herb on the hill slope. *Representative specimen: Satchari, 29. 01. 2009, KA 23 (DUSH)*.

#### 68. AGAVACEAE

**Dracaena spicata** Roxb., Fl. Ind. 2: 157 (1824). An erect herb on the forest edge. *Representative specimen: Satchari, 28. 01. 2009, KA 06 (DUSH)*.

#### 69. TACCACEAE

**Tacca integrifolia** Ker.-Gawl., Bot. Mag. 35. t. 1488 (1812). A rhizomatous herb in foot hill areas and deep shaded moist places. *Representative specimen: Satchari, 04. 12. 2009, KA 366 (DUSH)*.

#### 70. SMILACACEAE

**Smilax ovalifolia** Roxb. ex D. Don, (1825). *Local name: Kumarilata*. A large prickly climber on the hill slopes. *Representative specimen: Satchari, 31. 05. 2009, KA 152 (DUSH)*.

**Smilax perfoliata** Lour., Fl. Cochinch.: 622 (1790). A large climber on the hill slopes. *Representative specimen: Satchari, 04. 12. 2009, KA 365 (DUSH)*.

## 71. DIOSCOREACEAE

**Dioscorea belophylla** (Prain) Voigt *ex* Haines, Forest Fl. Choto Nagpur: 530 (1910). A perennial climber common in the forests. *Representative specimen*: Satchari, 04. 12. 2009, KA 263 (DUSH).

**Dioscorea esculenta** (Lour.) Burkill, Gard. Bull. Straits. Settl. 1: 396 (1917). *Oncus esculentus* Lour. (1790). A climber twining to the left on tree of the hill slopes and hill tops. *Representative specimen*: Satchari, 04. 12. 2009, KA 356 (DUSH).

**Dioscorea hispida** Dennst., Hort. Ind. Malabar: 33 (1818). A climber with prickles on the hill slopes. *Representative specimen*: Satchari, 30. 05. 2009, KA 106 (DUSH).

**Dioscorea oppositifolia** L., Sp. Pl.: 1033 (1753). A climber twinning to the right on tall trees. *Representative specimen*: Satchari, 29. 01. 2009, KA 37 (DUSH).

## 72. ORCHIDACEAE

**Acampe praemorsa** (Roxb.) Blatter & McCann., J. Bombay Nat. Hist. Soc. 35: 495(1932). *Epidendrum praemorsum* Roxb. (1795). A perennial epiphyte on deep forest. *Representative specimen*: Satchari, 04. 12. 2009, KA 330 (DUSH).

**Aerides odorata** Lour. Fl. Coch. 2: 525 (1790). A perennial epiphyte common on Teak (*Tectona grandis*), Kadam (*Anthocephalus chinensis* and Mango (*Mangifera indica*) trees. *Representative specimen*: Satchari, 30. 05. 2009, KA 118 (DUSH).

**Cymbidium aloifolium** (L.) Sw., Nov. Act. Soc. Upsal. 6: 73 (1799). *Epidendrum aloifolium* L. (1753). A perennial epiphyte most common on the tree trunk of *Dillenia pentagyna* and also *Terminalia bellirica*. *Representative specimen*: Satchari, 04. 12. 2009, KA 228 (DUSH).

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