



## Inventorization of Vascular plant diversity in Amchang Wildlife Sanctuary, Kamrup Metro District, Assam

## KEYWORDS

Vascular plant, Diversity, Amchang Wildlife Sanctuary

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**ABSTRACT**

*The present investigation deals with the composition of vascular plants in the Amchang Wildlife Sanctuary, Assam. A total of 301 vascular plant species under 234 genera and 106 families including Pteridophytes 35 species, Gymnosperm 01 species and Angiosperm 265 species were recorded from the sanctuary during the survey period. Angiosperm included trees (82), shrubs (19), herbs (96), climber (35), lianas (9), epiphytes (6), grass (9), bamboo (6) and palm (2) and stem parasite (1). Uses of the plants recorded under the study belong to category of timber (44), vegetable (47), medicinal (56), edible fruit (12), ornamental (46), fodder (32), broom (2) and miscellaneous uses (62).*

**INTRODUCTION**

Protected areas are considered most effective tools for protecting species from extinction and from the impact of human induced threats. These areas help to conserve ecosystems that provide habitat, shelter, food, fodder, source of Non-Timber Forest Products (NTFPs), helps in recharging ground water, offer scope for pollination of commercially valuable crops, act as carbon sink, helps in soil stabilization etc. (Noss, 1992).

Assam has an geographical area of 78,433 sq. km, lying in between 24°44' N to 27°45'N latitude and 89°41' and 96°02' E longitudes. The state is surrounded by hills and mountains on the north, east and the south side. To the west, it merges with the West Bengal and Bangladesh plains. The state has the Brahmaputra valley in the northern part bordering to Arunachal Pradesh and the Barak valley in the southern part bordering to Mizoram, Tripura and Meghalaya. The state is enriching with 4273 species of vascular plants comprising of 1448 genera distributed in 272 families. This represents about 25.12% of the total vascular flora of India (Chowdhury 2005).

Amchang Wildlife Sanctuary was established vide government notification (order no. FRW.11/224/25), on 19-06-2004. Amchang Wildlife Sanctuary is an amalgamation of the three erstwhile Reserve Forests (RF)- Amchang RF (53.18 sq.km), South Amchang RF (15.50 sq.km) and Khanapara RF (9.96 sq.km) and lies between 26°13'E - 26°09'E and 91°50'N-91°59'N. Sanctuary is a home to diverse fauna including 44 species of mammals and over 250 species of birds. Survey carried out by a research team recorded the presence of a total of 38 species of mammals, 15 species of amphibians, 52 species of reptiles and 76 species of butterflies in the sanctuary (Sharma et al, 2011). The vegetation in the sanctuary is predominantly semi-evergreen and moist-deciduous type with secondary growth of *Shorea robusta*, *Tectona grandis*, *Bambusa spp*, *Musa spp*, *Calamus spp*, etc.

Several publications came out on assessment of plant di-

versity and on useful plants in protected areas of Assam. Some of them are Jain & Hajra (1975) on the plant diversity of Manas Wildlife Sanctuary; Dutta, et al., (1974) on forest flora of North Cachar Hills and Borail Range; Kar & Borthakur (2008) on Flora of Umananda Island of Brahmaputra River; Baruah & Baruah (2000) on hydrophytes of Kaziranga National Park; Baruah & Baruah (2007) on vegetation characteristics of grassland of Kaziranga National Park; Baruah et al., (2003) on biodiversity status in Manas Biosphere reserve; Bharali & Borua (2003) on diversity of orchid flora of Dibru-Saikhowa National Park and Biosphere Reserve; Gogoi et al., (2009) on orchid flora of Joypur Reserve Forest of Dibrugarh district; Gogoi et al., (2009) on orchid flora of Dibru-Saikhowa National Park and Biosphere Reserve; Gogoi (2005) on *Dendrobium* genus of Dibru-Saikhowa National park and Biosphere Reserve; Dey et al., (2007) on Orchid diversity in Manas National Park, Assam; Pegu et al., (2013) on ethnobotanical study of Wild Edible Plants in Poba Reserved Forest; Purkayastha et al., (2007) on ethno medicinal plants from Dibru-Saikhowa Biosphere Reserve; Bujarbarua & Sarma (2006) on the diversity of family Poaceae in Gibbon Wildlife Sanctuary, Assam. So far Amchang wildlife Sanctuary is concern, no published literature is available on vascular plant diversity of Amchang Wildlife Sanctuary and no attempt has been made to explore the sanctuary for inventorization of vascular plants. However, the preliminary documentation of the floral and faunal diversity by forest officials prior to declaration of the three-reserved forest as sanctuary was done sporadically. Therefore, present investigations were carried out with the objectives a. inventorization of vascular plant diversity of Amchang wildlife Sanctuary and b. to find out useful plants of the sanctuary.

**MATERIALS AND METHODS**

Amchang Wildlife Sanctuary, with an area of 78.64 sq km is located in Kamrup Metro district of Assam and lies between 26°13'E - 26°09'E and 91°50'N - 91°59'N and altitudinal ranges are 60.42 m to 312.15 m (plate 1).

Detailed surveys of the vascular plants of Amchang Wildlife Sanctuary were conducted from 2009 to 2012 covering wild species (plate 2 and plate 3). Surveys were conducted from twelve sites (direction) of the sanctuary viz., Panikhaiti, Hatisila, Lahapara, Bonda, Hajongbari, Thakurkuchi, Panbari, Botahghuli, Jorabat, Tepesia, Kamarkuchi, and Khanapara. Transect method of Burnham *et al.*, 2003 was followed depending upon the habitat and forest condition. Transects were laid in a stratified random manner to cover all the representative areas of the sanctuary. The information regarding the usefulness of the recorded plants was collected from primary (forest personal, fringe villagers, herbal healer etc.) as well as secondary sources (Chowdhury, 2005; Kar & Borthakur 2007a, 2007b, 2007c; Kar *et al.*, 2007; Kar & Borthakur 2008a, 2008b, 2008c; Kar 2009; Kar *et al.*, 2011a, Kar *et al.*, 2011b; Kar *et al.*, 2012; Bhutani, 2009). The collected specimens were processed into mounted herbarium specimen following standard herbarium techniques (Jain & Rao 1977). Identification of the specimens was done by comparing the field descriptions and observations with the descriptions available in authentic literature (Kanjilal *et al* 1934-40; Bennet, 1986; Chowdhury, 2005) and confirmed with ASSAM Herbarium, Shillong. Herbarium specimens were deposited at the TERI herbarium as a voucher specimen for future reference.

**RESULTS AND DISCUSSION**

A total number of 303 species under 235 genera from 107 families (table 1, 2 and 3) were recorded from the study area. Out of the total species Pteridophytes comprises of 24 families, 26 genera and 35 species; Gymnosperm recorded only 01 species. Angiosperm comprises of 82 families (dicot 66 and monocot 16), 208 genera (dicot 167 and monocot 41) and 267 species (dicot 213 and monocot 54); (figure 1). Out of the total recorded 267 angiosperm species the composition were trees (83), shrubs (20), herbs (96), climber (35), lianas (9), epiphytes (6), grass (9), bamboo (6) and palm (2) and stem parasite (1); (figure 2).

Among Pteridophytes, Pteridaceae is the most dominant family in the study area in respect to number of species (4 species), followed by Polypodiaceae (3 species), Adiantaceae and Thelypteridaceae each with 3 species. *Pteris* is the dominant genera representing 4 species, followed by *Lygodium* with 3 species and *Pyrosia*, *Diplazium* and *Christella* each with 2 species.

Among dicotyledons (figure 3), Asteraceae is the most dominant family in the study area in respect to number of species (15 species), followed by Euphorbiaceae (12 species), Papilionaceae, Moraceae and Verbenaceae each with (11 species), Ceasalpiniaceae with (10 species), Rutaceae with (8 species), Rubiaceae and Solanaceae each with (7 species) etc. In Monocot (figure 4) Poaceae is the dominant family (19 species) followed by Araceae and Areaceae each with (6 species), Orchidaceae (5 species), Cyperaceae (4 species). Among the dicotyledons *Ficus* is the dominant genera (figure 5) representing with 7 species followed by *Cassia* and *Solanum* each with 5 species *Clerodendrum* with 4 species, *Sterculia*, *Artocarpus*, *Albizia*, *Impatiens* each with 3 species. Among the monocotyledons dominant genera (figure 6) are *Bambusa*, *Calamus*, *Cyperus* each with 4 species followed by *Commelina*, *Oplismenus* and *Vanda* each with 2 species.

With regard to the usefulness of the 303 plant species are recorded (figure 7) as timber (44), vegetable (47), medicinal (56), edible fruit (13), ornamental (47), fodder (32), broom (2) and miscellaneous uses (62) such as thatch, plate, ritual,

handicraft item, piscicidal, cultural significance, local liquor, silk worm food plants etc.

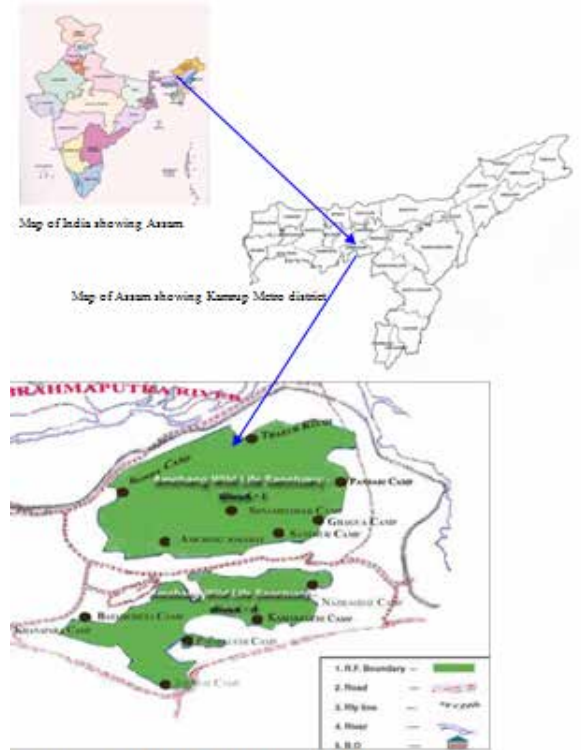


Plate.1 Location map of study area (Amchang Wildlife Sanctuary)

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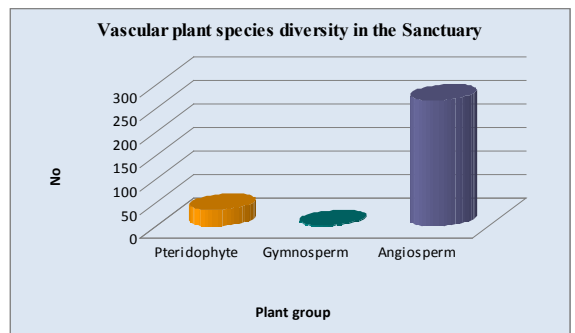


Figure1: Vascular plant diversity in the sanctuary

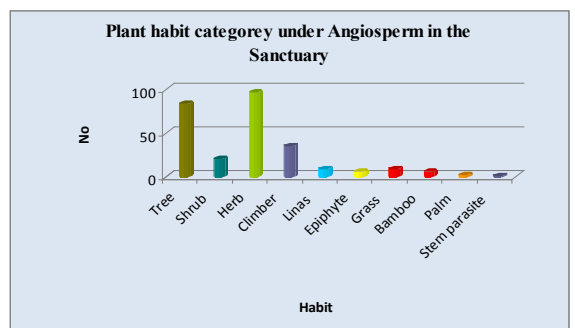


Figure 2: Plant habit in the Sanctuary

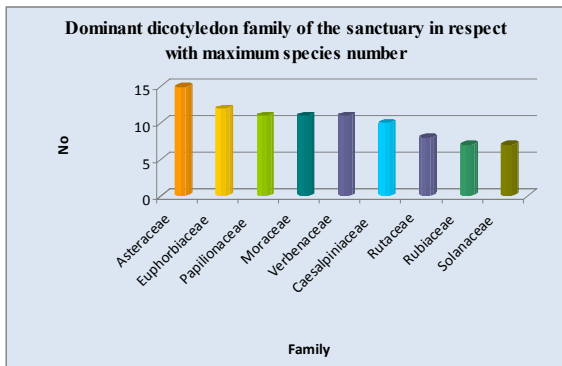


Figure 3: Dominant dicotyledon family of the

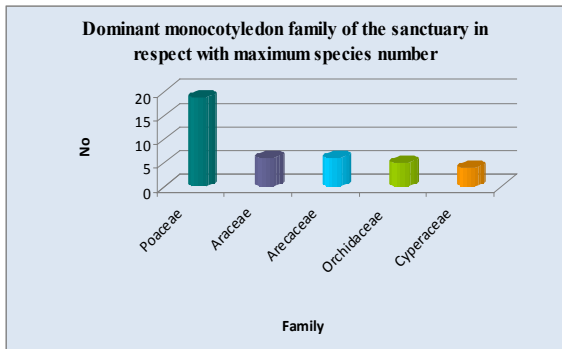


Figure 4: Dominant monocotyledon family of the Sanctuary Sanctuary

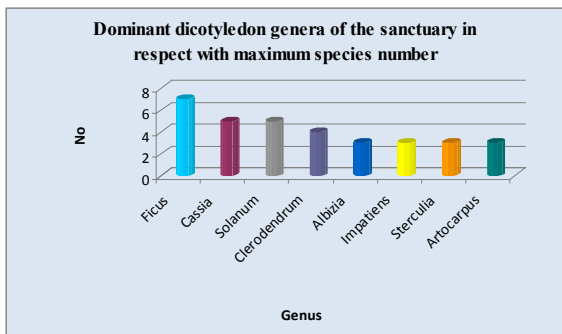


Figure 5: Dominant eight dicotyledon genera of the

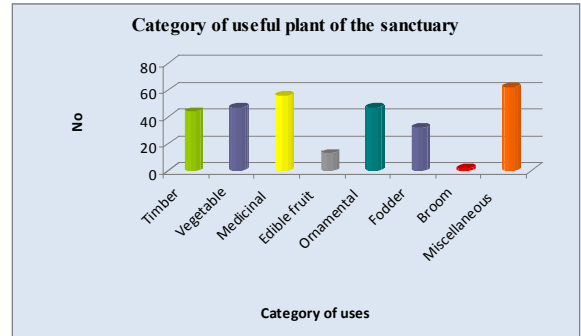
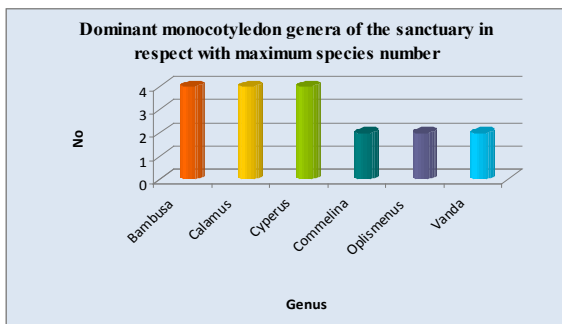


Figure 6: Dominant six monocotyledon genera of the Sanctuary

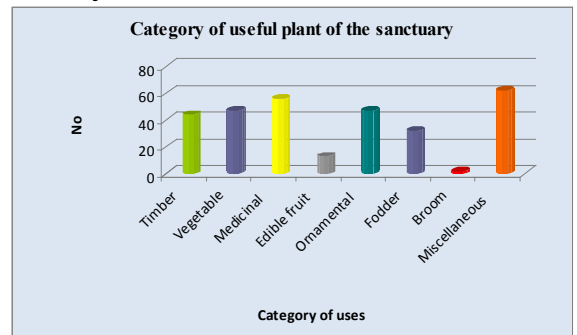


Figure 7: Category of useful plant of the Sanctuary

**CONCLUSION**

It is interesting to note that *Careya arborea*, *Vitex peduncularis* and *Lagerostromia parviflora* each with only 2-3 plant recorded from the whole study area. Among tree *Cassia nodosa*, *Tectona grandis*, among shrub *Clerodendrum serratum*, *Holmoskioldia sanguinea*, among lianas *Millettia pachycarpa*, *Cayratia trifolia*, *Schefflera venulosa* and among herb *Cassia tora*, *Chromolaena odorata*, *Chrysopogon aciculatus* are very common in the study area.

It was observed that, there is severe pressure on the sanctuary due to human activities which is a alarming cause for decline in species diversity. Although hunting of wild animal is not quite common in the sanctuary, the main problem that the sanctuary is deforestation and encroachment. There is also the problem of stone quarrying, earth cutting and charcoal making which are highly detrimental to the flora and fauna of the sanctuary. Thus, a multidimensional approach is required with regard to development of a conservation management plan for the safety of the sanctuary. Further research is required on ecology and population dynamics of the species of the sanctuary. Usefulness of the recorded plant may be helpful for the benefit of human welfare as well as conservation approach.

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Table 1: Pteridophytes of Amchang Wildlife Sanctuary

| Sl no | Scientific name  | Family               | Uses          |
|-------|--|----------------------|---------------|
| 1     | <i>Adiantum capillus-veneris</i> L.                                    | Adiantaceae          | Ornamental    |
| 2     | <i>Adiantum caudatum</i> L.  | Adiantaceae          | Ornamental    |
| 3     | <i>Angiopteris evecta</i> (Forst.) Hoffm.                              | Angiopteridaceae     | Medicinal     |
| 4     | <i>Asplenium nidus</i> L. var. <i>nidus</i>                            | Aspleniaceae         | Ornamental    |
| 5     | <i>Azolla pinnata</i> R.Br.  | Azollaceae           | Miscellaneous |
| 6     | <i>Blechnum orientale</i> L.   | Blechnaceae          | Ornamental    |
| 7     | <i>Ceratopteris thalictroides</i> (L.) Ad. Brongn.                     | Parkeriaceae         | Vegetable     |
| 8     | <i>Christella apendiculata</i> (Persl.) Holtt.                         | Thelypteridaceae     | Ornamental    |
| 9     | <i>Christella dentata</i> (Forsk.) Brownsey & Jermy                    | Thelypteridaceae     | Ornamental    |
| 10    | <i>Cyclosorus parasitica</i> (L.) Lev.                                 | Thelypteridaceae     | Medicinal     |
| 11    | <i>Dicranopteris linearis</i> (Burm f.) Underw<br>var. <i>linearis</i> | Gleicheniaceae       | Ornamental    |
| 12    | <i>Diplazium esculentum</i> (Retz.) Sw.                                | Athyriaceae          | Vegetable     |
| 13    | <i>Diplazium polypodioides</i> Bl.                                     | Athyriaceae          | Ornamental    |
| 14    | <i>Dryopteris pterioidiformis</i> Chirst                               | Dryopteridaceae      | Ornamental    |
| 15    | <i>Drynaria quercifolia</i> (L.) J. Sm.                                | Drynariaceae         | Miscellaneous |
| 16    | <i>Equisetum diffusum</i> D. Don                                       | Equisetaceae         | Medicinal     |
| 17    | <i>Helminthostachys zeylanica</i> (L.) Hook.                           | Helminthostachyaceae | Ornamental    |
| 18    | <i>Lycopodiella cernua</i> (L.) Pic.                                   | Lycopodiaceae        | Medicinal     |
| 19    | <i>Lygodium flexuosum</i> (L.) Sw.                                     | Lygodiaceae          | Ornamental    |
| 20    | <i>Lygodium japonicum</i> (Thunb.) Sw.                                 | Lygodiaceae          | Ornamental    |
| 21    | <i>Lygodium microphyllum</i> (Cav.) R. Br.                             | Lygodiaceae          | Ornamental    |
| 22    | <i>Marselia quadrifolia</i> L.   | Marseliaceae         | Medicinal     |
| 23    | <i>Nephrolepis cordifolia</i> (Sw.) Schott                             | Nephrolepidaceae     | Medicinal     |
| 24    | <i>Ophioglossum vulgatum</i> L.  | Ophioglossaceae      | Vegetable     |
| 25    | <i>Polypodium amoenum</i> (J. Sm.) Mett.                               | Polypodiaceae        | Ornamental    |
| 26    | <i>Pteris ensiformis</i> Burm. f.                                      | Pteridaceae          | Ornamental    |
| 27    | <i>Pteris linearis</i> Poir.   | Pteridaceae          | Ornamental    |
| 28    | <i>Pteris semipinnata</i> L.   | Pteridaceae          | Ornamental    |
| 29    | <i>Pteris vittata</i> L.   | Pteridaceae          | Ornamental    |
| 30    | <i>Pyrosia adnascens</i> (Sw.) Ching                                   | Polypodiaceae        | Ornamental    |
| 31    | <i>Pyrosia lanceolata</i> (L.) Farwell                                 | Polypodiaceae        | Ornamental    |
| 32    | <i>Salvinia natans</i> (L.) All.                                       | Salviniaceae         | Miscellaneous |
| 33    | <i>Selaginella ciliaris</i> (Retz.) Spring                             | Selaginellaceae      | Ornamental    |
| 34    | <i>Sphenomeris chinensis</i> (L.) Maxon                                | Dennstaedtiaceae     | Ornamental    |
| 35    | <i>Stenochlaena palustris</i> (Burm.) Bedd.                            | Stenochlaenaceae     | Ornamental    |

Table 2: Gymnosperm of Amchang Wildlife Sanctuary

| Sl no | Scientific name               | Family     | Uses      |
|-------|-------------------------------|------------|-----------|
| 1     | <i>Cycas pectinata</i> Griff. | Cycadaceae | Medicinal |

Table 3: Angiosperm of Amchang Wildlife Sanctuary

| Sl no | Scientific name  | Family           | Habit      | Uses          |
|-------|--|------------------|------------|---------------|
| 1     | <i>Abelmoschus moschatus</i> Medicus                   | Malvaceae        | Herb       | Medicinal     |
| 2     | <i>Abrus precatorius</i> L.                            | Papilionaceae    | Climber    | Medicinal     |
| 3     | <i>Acacia moniliformis</i> Griseb                      | Mimosaceae       | Tree       | Miscellaneous |
| 4     | <i>Acalypha indica</i> L.                              | Euphorbiaceae    | Herb       | Ornamental    |
| 5     | <i>Achyranthes aspera</i> L.                           | Amaranthaceae    | Herb       | Medicinal     |
| 6     | <i>Aegle marmelos</i> Correa.                          | Rutaceae         | Tree       | Miscellaneous |
| 7     | <i>Ageratum conyzoides</i> L.                          | Asteraceae       | Herb       | Fodder        |
| 8     | <i>Albizia lebbeck</i> (L.) Benth                      | Mimosaceae       | Tree       | Timber        |
| 9     | <i>Albizia lucidor</i> (Steud.) Nielson ex Hara        | Mimosaceae       | Tree       | Timber        |
| 10    | <i>Albizia odoratissima</i> (L.f.) Benth               | Mimosaceae       | Tree       | Timber        |
| 11    | <i>Alocasia macrorhiza</i> (L.) G. Don                 | Araceae          | Herb       | Vegetable     |
| 12    | <i>Alstonia scholaris</i> (L.) R.Br.                   | Apocynaceae      | Tree       | Timber        |
| 13    | <i>Alternanthera sessilis</i> R.Br.                    | Amaranthaceae    | Herb       | Vegetable     |
| 14    | <i>Amaranthus spinosus</i> Linn.                       | Amaranthaceae    | Herb       | Vegetable     |
| 15    | <i>Amaranthus viridis</i> Linn.                        | Amaranthaceae    | Herb       | Vegetable     |
| 16    | <i>Amorphophallus bulbifer</i> (Schott.)Bl.            | Araceae          | Herb       | Vegetable     |
| 17    | <i>Andrographis paniculata</i> (Burm.f.) Wall. ex Nees | Acanthaceae      | Herb       | Medicinal     |
| 18    | <i>Antidesma bunius</i> (L.) Spreng                    | Euphorbiaceae    | Tree       | Timber        |
| 19    | <i>Anthocephalus chinensis</i> (Lour) Rehder           | Rubiaceae        | Tree       | Timber        |
| 20    | <i>Argyria nervosa</i> (Burm.f.) Bojer                 | Convolvulaceae   | Climber    | Miscellaneous |
| 21    | <i>Aristolochia tagala</i> Cham.                       | Aristolochiaceae | Climber    | Medicinal     |
| 22    | <i>Artocarpus chama</i> Buch.-Ham.                     | Moraceae         | Tree       | Timber        |
| 23    | <i>Artocarpus lacucha</i> Buch.-Ham                    | Moraceae         | Tree       | Timber        |
| 24    | <i>Artocarpus heterophyllus</i> Lam.                   | Moraceae         | Tree       | Fruit edible  |
| 25    | <i>Arundo donax</i> L. var. donax                      | Poaceae          | Grass      | Miscellaneous |
| 26    | <i>Axonopus compressus</i> (Sw.) Beauv.                | Poaceae          | Grass      | Fodder        |
| 27    | <i>Azadirachta indica</i> A. Juss.                     | Meliaceae        | Tree       | Medicinal     |
| 28    | <i>Baccaurea sapida</i> Muell                          | Euphorbiaceae    | Tree       | Fruit edible  |
| 29    | <i>Bambusa bambos</i> (L.) Voss                        | Poaceae          | Bamboo     | Miscellaneous |
| 30    | <i>Bambusa balcooa</i> Roxb.                           | Poaceae          | Bamboo     | Miscellaneous |
| 31    | <i>Bambusa vulgaris</i> Schard.                        | Poaceae          | Bamboo     | Miscellaneous |
| 32    | <i>Bambusa pallida</i> Munro                           | Poaceae          | Bamboo     | Miscellaneous |
| 33    | <i>Bauhinia acuminata</i> L.                           | Caesalpiniaceae  | Small tree | Ornamental    |

| Sl no | Scientific name  | Family          | Habit      | Uses          |
|-------|--|-----------------|------------|---------------|
| 34    | <i>Bauhinia variegata</i> L.                             | Caesalpiniaceae | Small tree | Miscellaneous |
| 35    | <i>Begonia inflata</i> C.B. Clarke                       | Begoniaceae     | Herb       | Vegetable     |
| 36    | <i>Bidens biternata</i> (Lour.) Merr. & Sherff           | Asteraceae      | Herb       | Vegetable     |
| 37    | <i>Biophytum sensitivum</i> (L.) var. <i>sensitivum</i>  | Oxalidaceae     | Herb       | Ornamental    |
| 38    | <i>Blumea lacera</i> (Burm.f.) DC.var. <i>lacera</i>     | Asteraceae      | Herb       | Vegetable     |
| 39    | <i>Boerhavia diffusa</i> Linn.                           | Nyctaginaceae   | Herb       | Medicinal     |
| 40    | <i>Bombax ceiba</i> L.                                   | Bombacaceae     | Tree       | Timber        |
| 41    | <i>Borreria articularis</i> (L.f.) Will.                 | Rubiaceae       | Herb       | Fodder        |
| 42    | <i>Bridelia retusa</i> (L.)Spreng                        | Euphorbiaceae   | Tree       | Timber        |
| 43    | <i>Burserra serrata</i> Coleb.                           | Burseraceae     | Tree       | Fruit edible  |
| 44    | <i>Butea monosperma</i> (Lamk)Taub                       | Papilionaceae   | Tree       | Miscellaneous |
| 45    | <i>Butea parviflora</i> (Lamk.) Taub                     | Papilionaceae   | Tree       | Miscellaneous |
| 46    | <i>Butea superba</i> Roxb.                               | Papilionaceae   | Climber    | Miscellaneous |
| 47    | <i>Caesalpinia bonduc</i> (L.) Roxb.                     | Caesalpiniaceae | Climber    | Medicinal     |
| 48    | <i>Calamus tenuis</i> Roxb.                              | Arecaceae       | Lianas     | Miscellaneous |
| 49    | <i>Calamus leptospadix</i> Griff                         | Arecaceae       | Lianas     | Miscellaneous |
| 50    | <i>Calamus floribundus</i> Griff.                        | Arecaceae       | Lianas     | Miscellaneous |
| 51    | <i>Calamus erectus</i> Roxb.                             | Arecaceae       | Lianas     | Miscellaneous |
| 52    | <i>Callicarpa arborea</i> Roxb.                          | Verbenaceae     | Tree       | Timber        |
| 53    | <i>Cardamine hirsuta</i> L.                              | Brassicaceae    | Herb       | Fodder        |
| 54    | <i>Cardiospermum halicacabum</i> Linn.                   | Sapindaceae     | Climber    | Medicinal     |
| 55    | <i>Careya arborea</i> Roxb.                              | Lecythidaceae   | Tree       | Timber        |
| 56    | <i>Caryota urens</i> L.                                  | Arecaceae       | Palm       | Miscellaneous |
| 57    | <i>Cassia fistula</i> Linn.                              | Caesalpiniaceae | Tree       | Timber        |
| 58    | <i>Cassia nodosa</i> Linn.                               | Caesalpiniaceae | Tree       | Timber        |
| 59    | <i>Cassia siamea</i> Lamk.                               | Caesalpiniaceae | Tree       | Timber        |
| 60    | <i>Cassia sophera</i> Linn.                              | Caesalpiniaceae | Herb       | Fodder        |
| 61    | <i>Cassia tora</i> Linn.                                 | Caesalpiniaceae | Herb       | Fodder        |
| 62    | <i>Cayratia trifolia</i> (L.) Domin var. <i>trifolia</i> | Vitaceae        | Lianas     | Fodder        |
| 63    | <i>Centella asiatica</i> Linn                            | Apiaceae        | Herb       | Medicinal     |
| 64    | <i>Citrus grandis</i> (L.) Osbeck                        | Rutaceae        | Tree       | Fruit edible  |
| 65    | <i>Citrus reticulata</i> Blanco                          | Rutaceae        | Tree       | Fruit edible  |
| 66    | <i>Cinnamomum bejolghata</i> (Buch.-Ham) Sweet           | Lauraceae       | Tree       | Timber        |
| 67    | <i>Cissampelos pareira</i> L.                            | Menispermaceae  | Climber    | Fodder        |
| 68    | <i>Chromolaena odorata</i> (L.)R.King & H.Robins         | Asteraceae      | Herb       | Fodder        |
| 69    | <i>Chrysopogon aciculatus</i> (Retz.) Trin.              | Poaceae         | Grass      | Fodder        |
| 70    | <i>Cleome gynandra</i> L.                                | Cleomaceae      | Herb       | Vegetable     |
| 71    | <i>Cleome viscosa</i> L.                                 | Cleomaceae      | Herb       | Fodder        |



| Sl no | Scientific name                                   | Family          | Habit         | Uses          |
|-------|---|-----------------|---------------|---------------|
| 72    | <i>Clerodendrum colebrookianum</i> Walpers        | Verbenaceae     | Shrub         | Vegetable     |
| 73    | <i>Clerodendrum japonicum</i> (Thunberg) Sweet    | Verbenaceae     | Shrub         | Ornamental    |
| 74    | <i>Clerodendrum serratum</i> (L.) Spreng          | Verbenaceae     | Shrub         | Vegetable     |
| 75    | <i>Clerodendrum viscosum</i> Vent.                | Verbenaceae     | Herb          | Miscellaneous |
| 76    | <i>Cocinia grandis</i> (L.)Voigt.                 | Cucurbitaceae   | Climber       | Vegetable     |
| 77    | <i>Colocasia esculenta</i> (L.) Schott.           | Araceae         | Herb          | Vegetable     |
| 78    | <i>Commelina benghalensis</i> Linn.               | Commelinaceae   | Herb          | Medicinal     |
| 79    | <i>Commelina diffusa</i> Burm.f.                  | Commelinaceae   | Herb          | Fodder        |
| 80    | <i>Costus speciosa</i> (Koenig)Sm.                | Costaceae       | Herb          | Medicinal     |
| 81    | <i>Crinum pratens</i> Herb.                       | Amaryllidaceae  | Herb          | Medicinal     |
| 82    | <i>Croton caudatus</i> Geis. var. <i>caudatus</i> | Euphorbiaceae   | Shrub         | Miscellaneous |
| 83    | <i>Croton joufra</i> Roxb.                        | Euphorbiaceae   | Tree          | Medicinal     |
| 84    | <i>Curcuma angustifolia</i> Roxb.                 | Zingiberaceae   | Herb          | Medicinal     |
| 85    | <i>Cuscuta reflexa</i> Roxb.                      | Convolvulaceae  | Climber       | Medicinal     |
| 86    | <i>Cymbidium aloifolium</i> (L.) Sw.              | Orchidaceae     | Epiphytic     | Ornamental    |
| 87    | <i>Cynodon dactylon</i> (L.)Pers.                 | Poaceae         | Herb          | Miscellaneous |
| 88    | <i>Cynoglossum lanceolatum</i> Forsk.             | Boraginaceae    | Herb          | Fodder        |
| 89    | <i>Cyperus digitatus</i> Roxb.                    | Cyperaceae      | Herb          | Fodder        |
| 90    | <i>Cyperus difformis</i> L.                       | Cyperaceae      | Herb          | Fodder        |
| 91    | <i>Cyperus rotundus</i> L.                        | Cyperaceae      | Herb          | Medicinal     |
| 92    | <i>Cyperus iria</i> L.                            | Cyperaceae      | Herb          | Fodder        |
| 93    | <i>Dactyloctenium aegyptium</i> (L.) Willd.       | Poaceae         | Grass         | Fodder        |
| 94    | <i>Dalbergia sisso</i> Roxb. ex DC.               | Papilionaceae   | Tree          | Timber        |
| 95    | <i>Dalhousiea bracteata</i> Grah. ex Roxb.        | Papilionaceae   | Climber       | Miscellaneous |
| 96    | <i>Delonix regia</i> Boj                          | Caesalpiniaceae | Tree          | Timber        |
| 97    | <i>Dendrobium aphyllum</i> (Roxb.)Fischer         | Orchidaceae     | Epiphytic     | Ornamental    |
| 98    | <i>Dendrocalamus hamiltonii</i> Nees.             | Poaceae         | Bamboo        | Miscellaneous |
| 99    | <i>Dendrophthoe falcata</i> (L.f.)Etting          | Loranthaceae    | Stem parasite | Miscellaneous |
| 100   | <i>Deeringia amaranthoides</i> Merrill            | Amaranthaceae   | Climber       | Vegetable     |
| 101   | <i>Derris indica</i> (Lamk) Bennt                 | Papilionaceae   | Tree          | Miscellaneous |
| 102   | <i>Desmodium caudatum</i> (Thunb.) DC.            | Papilionaceae   | Herb          | Medicinal     |
| 103   | <i>Dillenia indica</i> L.                         | Dilleniaceae    | Tree          | Fruit edible  |
| 104   | <i>Dillenia pentagyna</i> Roxb.                   | Dilleniaceae    | Tree          | Timber        |
| 105   | <i>Dioscorea esculenta</i> Burk.                  | Dioscoreaceae   | Climber       | Vegetable     |
| 106   | <i>Diospyros lancaefolia</i> Roxb.                | Ebenaceae       | Tree          | Miscellaneous |
| 107   | <i>Dischidia benghalensis</i> Coleb               | Asclepiadaceae  | Climber       | Ornamental    |
| 108   | <i>Drymaria diandra</i> Bl.                       | Caryophyllaceae | Herb          | Vegetable     |
| 109   | <i>Duabanga grandiflora</i> (Roxb. ex DC.) Walp   | Sonneratiaceae  | Tree          | Timber        |

| Sl no | Scientific name                                  | Family         | Habit     | Uses          |
|-------|--|----------------|-----------|---------------|
| 110   | <i>Dysoxylum binectariferum</i> (Roxb.)Hook.f.   | Meliaceae      | Tree      | Timber        |
| 111   | <i>Echinochloa colonum</i> (L.) Link             | Poaceae        | Grass     | Fodder        |
| 112   | <i>Eclipta prostrata</i> (L.) L                  | Asteraceae     | Herb      | Miscellaneous |
| 113   | <i>Ecobolium viridae</i> (Forsk.)Alston          | Acanthaceae    | Herb      | Ornamental    |
| 114   | <i>Epemeredi indicus</i> (L.) Rothm              | Lamiaceae      | Herb      | Fodder        |
| 115   | <i>Erythrina stricta</i> Roxb.                   | Papilionaceae  | Tree      | Miscellaneous |
| 116   | <i>Euphorbia hirta</i> Linn.                     | Euphorbiaceae  | Herb      | Miscellaneous |
| 117   | <i>Evolvulus nummularis</i> (L.) L.              | Convolvulaceae | Herb      | Vegetable     |
| 118   | <i>Ficus benghalensis</i> Linn.                  | Moraceae       | Tree      | Miscellaneous |
| 119   | <i>Ficus benjamina</i> Linn.                     | Moraceae       | Tree      | Ornamental    |
| 120   | <i>Ficus hispida</i> Vahl                        | Moraceae       | Tree      | Vegetable     |
| 121   | <i>Ficus religiosa</i> L.                        | Moraceae       | Tree      | Miscellaneous |
| 122   | <i>Ficus racemosa</i> L.                         | Moraceae       | Shrub     | Miscellaneous |
| 123   | <i>Ficus rumphii</i> Bl.                         | Moraceae       | Tree      | Miscellaneous |
| 124   | <i>Ficus semicordata</i> Buch.-Ham ex JE.Sm.     | Moraceae       | Tree      | Miscellaneous |
| 125   | <i>Garcinia pedunculata</i> Roxb.                | Clusiaceae     | Tree      | Fruit edible  |
| 126   | <i>Garcinia xanthochymus</i> Hook.f.             | Clusiaceae     | Tree      | Fruit edible  |
| 127   | <i>Garuga pinnata</i> Roxb.                      | Burseraceae    | Tree      | Timber        |
| 128   | <i>Globba racemosa</i> J.E.Sm.                   | Zingiberaceae  | Herb      | Ornamental    |
| 129   | <i>Gloriosa superba</i> L.                       | Liliaceae      | Shrub     | Medicinal     |
| 130   | <i>Glycosmis arborea</i> (Roxb.)Correa.          | Rutaceae       | Herb      | Medicinal     |
| 131   | <i>Gmelina arborea</i> Roxb.                     | Verbenaceae    | Tree      | Timber        |
| 132   | <i>Gymnopetalum cochinchinensis</i> (Lour.) Kurz | Cucurbitaceae  | Herb      | Vegetable     |
| 133   | <i>Hedyotis corymbosa</i> (L.) Lamk.             | Rubiaceae      | Herb      | Medicinal     |
| 134   | <i>Hedyotis scandens</i> Roxb. ex D.Don          | Rubiaceae      | Herb      | Medicinal     |
| 135   | <i>Heliotropium indicum</i> L.                   | Heliotropaceae | Herb      | Medicinal     |
| 136   | <i>Hollarrhena pubescens</i> (Buch.-Ham.) Wall.  | Apocynaceae    | Tree      | Medicinal     |
| 137   | <i>Holmoskioldia sanguinea</i> Retz.             | Verbenaceae    | Lianas    | Ornamental    |
| 138   | <i>Hoya parasitica</i> Wall ex Traill            | Asclepiadaceae | Epiphytic | Ornamental    |
| 139   | <i>Hydrocotyle sibthorpioides</i> Lamk.          | Apiaceae       | Herb      | Medicinal     |
| 140   | <i>Imperata cylindrica</i> (L.) Beauv.           | Poaceae        | Grass     | Miscellaneous |
| 141   | <i>Impatiens balsamina</i> L.                    | Balsaminaceae  | Herb      | Ornamental    |
| 142   | <i>Impatiens tripetala</i> DC.                   | Balsaminaceae  | Herb      | Ornamental    |
| 143   | <i>Impatiens cristata</i> Wall                   | Balsaminaceae  | Herb      | Ornamental    |
| 144   | <i>Ipomoea hederifolia</i> Jacq.                 | Convolvulaceae | Climber   | Ornamental    |
| 145   | <i>Justicia adhatoda</i> L.                      | Acanthaceae    | Shrub     | Medicinal     |
| 146   | <i>Justicia gendarussa</i> L.f.                  | Acanthaceae    | Herb      | Miscellaneous |
| 147   | <i>Lagerostromia parviflora</i> Roxb.            | Lythraceae     | Tree      | Timber        |



| Sl no | Scientific name   | Family           | Habit   | Uses          |
|-------|---|------------------|---------|---------------|
| 148   | <i>Lagerstromia reginae</i> Roxb                                      | Lythraceae       | Tree    | Timber        |
| 149   | <i>Lanea coromondelica</i> (Houtt.)Merr.                              | Anacardiaceae    | Tree    | Timber        |
| 150   | <i>Lantana camara</i> Linn.   | Verbenaceae      | Herb    | Miscellaneous |
| 151   | <i>Lasia spinosa</i> (L.) Thwaites                                    | Araceae          | Herb    | Vegetable     |
| 152   | <i>Leea indica</i> (Burm.f.)Merr.                                     | Leeaceae         | Shrub   | Medicinal     |
| 153   | <i>Leucas plukentii</i> (Roth) Spreng                                 | Lamiaceae        | Herb    | Vegetable     |
| 154   | <i>Lindernia crustacean</i> (L.) F.Muell.                             | Scrophulariaceae | Herb    | Fodder        |
| 155   | <i>Litsea glutinosa</i> (Lour.)Robins                                 | Lauraceae        | Tree    | Timber        |
| 156   | <i>Ludwigia octovalvis</i> (Jacq.)Raven                               | Onagraceae       | Herb    | Fodder        |
| 157   | <i>Myriopteron paniculatum</i> Griff.                                 | Periplocaceae    | Climber | Miscellaneous |
| 158   | <i>Mallotus philippensis</i> (Lamk)Mueller                            | Euphorbiaceae    | Tree    | Miscellaneous |
| 159   | <i>Mangifera indica</i> Linn.   | Anacardiaceae    | Tree    | Fruit edible  |
| 160   | <i>Manihot esculenta</i> Crantz.                                      | Euphorbiaceae    | Shrub   | Vegetable     |
| 161   | <i>Mazus pumilus</i> (Burm.f.)Steenis                                 | Scrophulariaceae | Herb    | Fodder        |
| 162   | <i>Melastoma malabathricum</i> L.                                     | Melastomataceae  | Herb    | Miscellaneous |
| 163   | <i>Melia azedarach</i> L.   | Meliaceae        | Tree    | Timber        |
| 164   | <i>Merremia vitifolia</i> (Burm.f.)Hallier f.                         | Convolvulaceae   | Climber | Fodder        |
| 165   | <i>Mesua ferrea</i> L.  | Clusiaceae       | Tree    | Timber        |
| 166   | <i>Michelia champaca</i> L.   | Magnoliaceae     | Tree    | Timber        |
| 167   | <i>Mikania micrantha</i> (L.) Kunth                                   | Asteraceae       | Climber | Fodder        |
| 168   | <i>Milletia pachycarpa</i> Benth.                                     | Papilionaceae    | Lianas  | Miscellaneous |
| 169   | <i>Mimosa pudica</i> Linn.  | Mimosaceae       | Herb    | Medicinal     |
| 170   | <i>Mimosa rubicaulis</i> Lamk. ssp. <i>himalayana</i> (Gamble) Ohashi | Mimosaceae       | Herb    | Miscellaneous |
| 171   | <i>Mollugo pentaphylla</i> L.   | Molluginaceae    | Herb    | Vegetable     |
| 172   | <i>Monochoria hastata</i> (L.) Solms-Laub                             | Pontaderiaceae   | Herb    | Vegetable     |
| 173   | <i>Morinda angustifolia</i> Roxb.                                     | Rubiaceae        | Shrub   | Medicinal     |
| 174   | <i>Mucuna pruriens</i> (L.) DC.                                       | Papilionaceae    | Climber | Medicinal     |
| 175   | <i>Mukia maderaspatana</i> (L.)Roem                                   | Cucurbitaceae    | Climber | Miscellaneous |
| 176   | <i>Murraya koenigii</i> (L.) Spreng.                                  | Rutaceae         | Shrub   | Medicinal     |
| 177   | <i>Musa balbisiana</i> Colla.   | Musaceae         | Herb    | Vegetable     |
| 178   | <i>Mussaenda roxburghii</i> Hook.f                                    | Rubiaceae        | Shrub   | Miscellaneous |
| 179   | <i>Natsiatum herpeticum</i> Buch.-Ham. ex Arn                         | Icacinaceae      | Climber | Vegetable     |
| 180   | <i>Nicotiana plumbaginifolia</i> Viv.                                 | Solanaceae       | Herb    | Fodder        |
| 181   | <i>Oenanthe javanica</i> (Blume)DC.                                   | Apiaceae         | Herb    | Vegetable     |
| 182   | <i>Oplismenus burmannii</i> (Retz.) Beauv.                            | Poaceae          | Herb    | Fodder        |
| 183   | <i>Oplismenus compositus</i> (L.)Beauv.                               | Poaceae          | Herb    | Fodder        |
| 184   | <i>Oroxylum indicum</i> (L.)Vent.                                     | Bignoniaceae     | Tree    | Miscellaneous |

| Sl no | Scientific name  | Family           | Habit     | Uses          |
|-------|--|------------------|-----------|---------------|
| 185   | <i>Oxalis corniculata</i> L.                                   | Oxalidaceae      | Herb      | Vegetable     |
| 186   | <i>Oxalis debilis</i> H.B.K. var. <i>corymbosa</i> (DC.) Lour. | Oxalidaceae      | Herb      | Vegetable     |
| 187   | <i>Paederia foetida</i> Linn.                                  | Rubiaceae        | Climber   | Vegetable     |
| 188   | <i>Pandanus furcatus</i> Roxb.                                 | Pandanaceae      | Shrub     | Ornamental    |
| 189   | <i>Panicum repens</i> L.                                       | Poaceae          | Grass     | Fodder        |
| 190   | <i>Parthenium hysterophorus</i> L.                             | Asteraceae       | Herb      | Miscellaneous |
| 191   | <i>Passiflora foetida</i> L.                                   | Passifloraceae   | Climber   | Ornamental    |
| 192   | <i>Peperomia pelucida</i> (L.) H.B.K.                          | Piperaceae       | Herb      | Vegetable     |
| 193   | <i>Physalis minima</i> L.                                      | Solanaceae       | Herb      | Vegetable     |
| 194   | <i>Phoenix sylvestris</i> Roxb.                                | Arecaceae        | Palm      | Fruit edible  |
| 195   | <i>Piper longum</i> L.   | Piperaceae       | Climber   | Medicinal     |
| 196   | <i>Piper thomsonii</i> (C.DC.) Hook.f                          | Piperaceae       | Climber   | Medicinal     |
| 197   | <i>Plumeria alba</i> L.  | Apocynaceae      | Tree      | Ornamental    |
| 198   | <i>Polygonum barbatum</i> L.var. <i>barbatum</i>               | Polygonaceae     | Herb      | Fodder        |
| 199   | <i>Polygonum perfoliatum</i> L.                                | Polygonaceae     | Climber   | Vegetable     |
| 200   | <i>Porana paniculata</i> Roxb.                                 | Convolvulaceae   | Climber   | Miscellaneous |
| 201   | <i>Portulaca oleracea</i> Linn. var. <i>oleracea</i>           | Portulacaceae    | Herb      | Vegetable     |
| 202   | <i>Pouzolzia zeylanica</i> (L.) Benn. & Brown                  | Urticaceae       | Herb      | Medicinal     |
| 203   | <i>Premna latifolia</i> Roxb.                                  | Verbenaceae      | Tree      | Timber        |
| 204   | <i>Quisqualis indica</i> L.                                    | Combretaceae     | Climber   | Ornamental    |
| 205   | <i>Raphidophora decursiva</i> (Roxb.) Schott                   | Araceae          | Climber   | Ornamental    |
| 206   | <i>Rhynchosyilis retusa</i> (L.)Bl.                            | Orchidaceae      | Epiphytic | Miscellaneous |
| 207   | <i>Ricinus communis</i> Linn.                                  | Euphorbiaceae    | Shrub     | Miscellaneous |
| 208   | <i>Sapium baccatum</i> Roxb.                                   | Euphorbiaceae    | Tree      | Timber        |
| 209   | <i>Saraca asoca</i> (Roxb.) de Willde                          | Caesalpiniaceae  | Tree      | Medicinal     |
| 210   | <i>Schefflera venulosa</i> (W.&A.)Harms                        | Araliaceae       | Lianas    | Miscellaneous |
| 211   | <i>Schizostachyum polymorphum</i> (Munro) Ma-jumdar            | Poaceae          | Bamboo    | Miscellaneous |
| 212   | <i>Sclerostachya fusca</i> (Roxb.) A. camus                    | Poaceae          | Grass     | Miscellaneous |
| 213   | <i>Scoparia dulcis</i> L.                                      | Scrophulariaceae | Herb      | Miscellaneous |
| 214   | <i>Schima wallichii</i> (DC.)Kuntze var. <i>wallichii</i>      | Theaceae         | Tree      | Timber        |
| 215   | <i>Semecarpus anacardium</i> L.f.                              | Anacardiaceae    | Tree      | Timber        |
| 216   | <i>Setaria pumila</i> (Poir.) Roem. & Schutt.                  | Poaceae          | Grass     | Fodder        |
| 217   | <i>Shorea robusta</i> Gaertn.f.                                | Dipterocarpaceae | Tree      | Timber        |
| 218   | <i>Sida acuta</i> Burm.f.                                      | Malvaceae        | Herb      | Broom         |
| 219   | <i>Sida rhombifolia</i> L. ssp. <i>retusa</i> (L.) Borss.      | Malvaceae        | Herb      | Medicinal     |
| 220   | <i>Siegesbeckia orientalis</i> L.                              | Asteraceae       | Herb      | Fodder        |
| 221   | <i>Smilax glabra</i> Roxb.                                     | Smilacaceae      | Climber   | Vegetable     |

| Sl no | Scientific name                                    | Family          | Habit     | Uses          |
|-------|--|-----------------|-----------|---------------|
| 222   | <i>Smilax perfoliata</i> Lour                      | Smilacaceae     | Climber   | Vegetable     |
| 223   | <i>Spilanthes clava</i> DC.                        | Asteraceae      | Herb      | Medicinal     |
| 224   | <i>Spilanthes paniculata</i> DC.                   | Asteraceae      | Herb      | Medicinal     |
| 225   | <i>Solanum anguivi</i> Lamk.                       | Solanaceae      | Herb      | Vegetable     |
| 226   | <i>Solanum erianthum</i> D. Don                    | Solanaceae      | Shrub     | Medicinal     |
| 227   | <i>Solanum nigrum</i> Linn.                        | Solanaceae      | Herb      | Vegetable     |
| 228   | <i>Solanum torvum</i> Sw.                          | Solanaceae      | Shrub     | Vegetable     |
| 229   | <i>Solanum viarum</i> Dunal                        | Solanaceae      | Herb      | Medicinal     |
| 230   | <i>Sonchus brachyotus</i> DC.                      | Asteraceae      | Herb      | Vegetable     |
| 231   | <i>Spondias pinnata</i> (L.f.)Kurz.                | Anacardiaceae   | Tree      | Fruit edible  |
| 232   | <i>Stachytarpheta jamaicensis</i> (L.)Vahl         | Verbenaceae     | Herb      | Ornamental    |
| 233   | <i>Stephania japonica</i> (Thunb.) Miers           | Menispermaceae  | Climber   | Miscellaneous |
| 234   | <i>Stellaria media</i> (L.)Villars                 | Caryophyllaceae | Herb      | Vegetable     |
| 235   | <i>Stemona tuberosa</i> Lour.                      | Stemonaceae     | Climber   | Medicinal     |
| 236   | <i>Sterculia guttata</i> Roxb.                     | Sterculiaceae   | Tree      | Timber        |
| 237   | <i>Sterculia urens</i> Roxb.                       | Sterculiaceae   | Tree      | Timber        |
| 238   | <i>Sterculia villosa</i> Roxb.                     | Sterculiaceae   | Tree      | Timber        |
| 239   | <i>Syzygium cumini</i> (L.) Skeels                 | Myrtaceae       | Tree      | Timber        |
| 240   | <i>Strblus asper</i> Lour                          | Moraceae        | Tree      | Timber        |
| 241   | <i>Tabernaemontana divaricata</i> (L.) R.Br.       | Apocynaceae     | Shrub     | Miscellaneous |
| 242   | <i>Tamarindus indica</i> Linn.                     | Papilionaceae   | Tree      | Fruit edible  |
| 243   | <i>Tectona grandis</i> Linn.                       | Verbenaceae     | Tree      | Timber        |
| 244   | <i>Terminalia bellerica</i> (Gaertn.) Roxb         | Combretaceae    | Tree      | Medicinal     |
| 245   | <i>Terminalia chebula</i> Retz.                    | Combretaceae    | Tree      | Medicinal     |
| 246   | <i>Thunbergia grandiflora</i> (Rottl.) Roxb.       | Thunbergiaceae  | Climber   | Miscellaneous |
| 247   | <i>Thysanolaena maxima</i> Roxb.                   | Poaceae         | Shrub     | Broom         |
| 248   | <i>Tinospora cordifolia</i> (Willd.) Hook.f. & Th. | Menispermaceae  | Climber   | Medicinal     |
| 249   | <i>Toddalia asiatica</i> (L.) Lamk.                | Rutaceae        | Linan     | Miscellaneous |
| 250   | <i>Toona ciliata</i> M. Roem.                      | Meliaceae       | Tree      | Timber        |
| 251   | <i>Trewa nudiflora</i> L.                          | Euphorbiaceae   | Tree      | Timber        |
| 252   | <i>Trevesia palmata</i> (Roxb.) Vis                | Araliaceae      | Shrub     | Miscellaneous |
| 253   | <i>Trichosanthes bracteata</i> (Lamk.)Voigt.       | Cucurbitaceae   | Climber   | Medicinal     |
| 254   | <i>Tridax procumbens</i> L.                        | Asteraceae      | Herb      | Fodder        |
| 255   | <i>Typhonium trilobatum</i> (L.)Schott.            | Araceae         | Herb      | Vegetable     |
| 256   | <i>Urena lobata</i> L.                             | Malvaceae       | Herb      | Medicinal     |
| 257   | <i>Vanda teres</i> Roxb.                           | Orchidaceae     | Epiphytic | Ornamental    |
| 258   | <i>Vanda testacea</i> (Lindl.)Reich.f.             | Orchidaceae     | Epiphytic | Ornamental    |

| Sl no | Scientific name                           | Family      | Habit | Uses          |
|-------|---|-------------|-------|---------------|
| 259   | <i>Vitex negundo</i> Linn.                | Verbenaceae | Shrub | Medicinal     |
| 260   | <i>Vitex peduncularis</i> Wall ex Schauer | Verbenaceae | Tree  | Medicinal     |
| 261   | <i>Vernonia cinerea</i> (L.) Less         | Asteraceae  | Herb  | Medicinal     |
| 262   | <i>Wedelia chinensis</i> (Osb.) Merr.     | Asteraceae  | Herb  | Miscellaneous |
| 263   | <i>Wrightia arborea</i> R.Br.             | Apocynaceae | Tree  | Timber        |
| 264   | <i>Xanthium strumarium</i> Linn           | Asteraceae  | Herb  | Vegetable     |
| 265   | <i>Zanthoxylum oxyphyllum</i> Edgw.       | Rutaceae    | Tree  | Vegetable     |
| 266   | <i>Zanthoxylum rhetsa</i> (Roxb) DC       | Rutaceae    | Tree  | Miscellaneous |
| 267   | <i>Ziziphus mauritiana</i> Lamk.          | Rhamnaceae  | Tree  | Fruit edible  |

Plate.2 Photographs of Amchang Wildlife Sanctuary



Photo.1 Entry point of Bonda camp range, Photo.2 *Tectona grandis* (Shegun) forest, Photo. 3 Fruit of *Mucuna pruriens* a medicinal plant, Photo. 4 Fruit of *Aristolochia tagala* a rare medicinal plant, Photo. 5 *Abelmoschus moschatus* with flower and fruit an important medicinal plant, Photo. 6 Mixed forest, Photo. 7 Habitat of *Lycopodiella cernua*, Photo. 8 Entry point of Jorabat camp, Photo. 9 *Holmoskioldia sanguinea* with red flower, Photo. 10 Fruit of *Myriopterion paniculatum*, Photo. 11 *Lagerstroemia parviflora* tree, Photo. 12 *Curcuma angustifolia* a medicinal plant of the sanctuary

### Plate.3 Photographs of Amchang Wildlife Sanctuary

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