

DIVERSITY IN ANGIOSPERM FLORA OF TEKNAF WILDLIFE SANCTUARY, BANGLADESH

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Abstract

Teknaf Wildlife Sanctuary has been explored to assess angiosperm diversity using traditional taxonomic techniques during 2010 to 2011. The assessment has resulted in recording of total 535 angiosperm species under 103 families and 370 genera. For each species scientific name, Bangla name (whenever available), family and habit are provided. Of 535 species, 178 represented by herbs, 110 by shrubs, 150 by trees, 87 by climbers and 10 by epiphytes. In Magnoliopsida (dicots), Fabaceae is the largest family represented by 38 species, while in Liliopsida (monocots), Poaceae is the largest family represented by 29 species.

Introduction

Teknaf Wildlife Sanctuary, previously declared as game reserve in 1983 under the Bangladesh Wildlife (Preservation) (Amendment Act, 1974), is located in the Teknaf and Ukhia Upazilas of Cox's Bazar district near Myanmar border. Geographical position of the reserve is in between 20°52'-21°09' N and 92°08'-92°18' E (Rosario, 1997). The Reserve is bordered by the Bay of Bengal to the south and west, the Naf River to the east and Monkhali and Thainkhali to the north. The reserve is locally managed by three range offices (Teknaf, Whykhong and Shilkhali ranges) and ten forest bits. The total area of the reserve is about 11651 ha (Green, 1987).

Teknaf wildlife sanctuary in past supported mixed evergreen and semi-evergreen forests which over the period have been substantially altered due to heavy biotic pressure. The topography of sanctuary is very undulating and covered with a linear hill range (elongation north to south reaching an altitude up to 700 m), gently sloping to rugged hills and cliffs running down the central part of the peninsula, with a north-south length of nearly 28 km and an east-west width of 3-5 km. The range has several projections running towards east and west and interspersed by valleys, gullies and streams. These are crossed by numerous streams flowing down to the Naf river in the east and the Bay of Bengal in the west. Most of the streams are seasonal and dry up during off-monsoon season. The hills of the Sanctuary are composed of upper tertiary rocks (Pliocene and Miocene epoch) with 3 representative geological series: Surma, Tipam and Dhupitila (Choudhury, 1969). The soils vary from clay to clayey loam on level ground, and from sandy loam to coarse sand on hilly land (Choudhury, 1969). The sanctuary area enjoys a moist tropical maritime climate and rainfall is frequent and heavy during the monsoon season (May to October) ranging between 130 mm to 940 mm. Temperature ranges from 15°C to 32°C, whereas humidity ranges from 27% to 99% (BBS, 2011).

As the Government commitment to the Convention on Biological Diversity (CBD), Taxonomists have already started to assess and document the floral diversity of different protected areas of Bangladesh. There are a few reports available on the Teknaf Wildlife Sanctuary. A list of

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important timber yielding plants of the Teknaf game reserve has been mentioned in the forestry master plan of Cox's Bazar south division (Cowan, 1923). Many years later, Khan *et al.* (1994) has made an assessment work on Teknaf game reserve to focus on ecologically and economically important plant species. Although co-management issues of Teknaf game reserve have been studied by several authors (Bari and Dutta, 2004; Molla *et al.*, 2004), little is known about the floral diversity of the sanctuary. The sanctuary is very rich in flora and represents different ecosystems including hill forest, mangrove formation and sandune. Conservation significance of the sanctuary is also high because of the presence of Asian threatened elephant population. Currently floral diversity of the sanctuary is under threat due to various pressure including anthropogenic activities and the presence of Rohynga refugee along the eastern border. For making proper conservation and management plans of the sanctuary before its complete degradation, data on the floral diversity is essential. In order to provide such information, in the present study an attempt has been made to document diversity of angiosperm flora of Teknaf Wildlife Sanctuary.

Materials and Methods

Specimen collections have been made in the Teknaf wildlife sanctuary at 2-months intervals between November 2010 and December 2011. The collections covered all habitats of the study area including hilltops, slopes, foothills, valleys, sand dune and wet areas including mangrove stretch along the Naf river. Special attention has been given to locate the species already listed as threatened categories in the country. Fertile plant specimens (flowering or fruiting specimens) were collected and processed using standard herbarium techniques (Hyland, 1972; Alexiades, 1996). The plant specimens were identified by consulting different Floras and literature, *viz.*, Hooker (1872-1897), Prain (1903), Uddin and Hassan (2004), Siddiqui *et al.* (2007) and Ahmed *et al.* (2008a, 2009a), and by comparing with the herbarium specimens available at Dhaka University Salar Khan Herbarium (DUSH) and Bangladesh National Herbarium (DACB). For updated nomenclature of the species, Siddiqui *et al.* (2007) and Ahmed *et al.* (2008a,b, 2009a,b,c) were followed. Threatened categories of plants were confirmed with the help of Khan *et al.* (2001). Some noxious exotic plant species were also identified comparing with the reports of Islam *et al.* (2003), Hossain and Pasha (2004) and Akter and Zuberi (2009). Cronquist (1981) system of classification has been followed to determine the families. Voucher specimens are deposited at DUSH.

Results and Discussion

A total of 535 angiosperm species (wild and cultivated) have been identified and presented based on the present study (collection and observation) in the Teknaf Wildlife Sanctuary. These species have been assigned to 103 families and 370 genera. For each species scientific name, Bangla name (when available) and family name are provided (Table 1). 46% of the total species are represented by 15 families, whereas the rest 54% by 87 families. In Magnoliopsida (dicots) Fabaceae is the largest family represented by 38 species, while in Liliopsida (monocots) Poaceae is the largest family represented by 29 species. Each of 31 families is represented by only one species. Of 535 species recorded here, herbs are represented by 178 species, 110 by shrubs, 150 by trees, 87 by climbers and 10 by epiphytes including parasites. Nineteen species including one gymnosperm (*Gnetum oblongum*) listed as threatened in the Red Data Book of the country have also been detected in this sanctuary (Khan *et al.*, 2001).

Once, the Teknaf area has been classified as hill forest dominated by evergreen and deciduous trees. Currently maximum area of the forest has been degraded and denuded and exposed to sun.

In such a situation some natural and planted forest covers have been observed in Shilkhali, Shaplapur, Kudumgoha and Muchani along the road to Teknaf range office. The most common first canopy tree species observed in this area are *Dipterocarpus turbinatus* (Teliagarjan), *D. alatus* (Duliagarjan), *Hopea odorata* (Telsur), *Artocarpus chaplasha* (Chapalish), *Tetrameles nudiflora* (Chundul), *Anisoptera scaphula* (Bailum), *Syzygium firmum* (Dhakijam), *Mangifera sylvatica* (Uriam) and *Swintonia floribunda* (Civit). The second storey is dominated by *Bursera serrata*, *Artocarpus lakucha*, *Brownlowia alata*, *Anogeissus acuminata*, *Alstonia scholaris*, *Albizia procera*, *Neolamarckia cadamba*, *Ficus altissima*, *Syzygium cumini*, *Terminalia bellirica*, *Garuga pinnata*, *Elaeocarpus floribunda*, *Lagerstroemia speciosa*, *Toona ciliata*, *Dillenia pentagyna*, *Aphanamixis polystachya*, *Gmelina arborea*, *Zanthoxylum rhetsa*, *Quercus velutina*, *Stereospermum personatum*, *Vitex peduncularis*, *Sterculia villosa*, *Bombax insigne*, *Anacardium occidentale* and *Ficus infectoria*. The third storey of the forest is dominated by *Syzygium fruticosum*, *Suregada multiflora*, *Streblus asper*, *Grewia microcos*, *Mallotus philippensis*, *Litsea glutinosa*, *Pterospermum semisagittatum*, *Tabernaemontana recurvata*, *Erioglossum edulis*, *Glochidion multiloculare*, *Saraca indica*, *Callicarpa arborea*, *Ficus hispida*, *F. semicordata*, *Maesa indica*, *Flacourtia indica*, *Micromelum minutum*, *Phyllanthus reticulatus*, *Pterospermum semisagittatum*, *Premna esculenta*, *Dalbergia volubilis*, *Randia dumetorum*, *Woodfordia fruticosa*, *Litsea monopetala* and *Antidesma ghaesembilla*.

The most common species found as the forest undergrowth are mostly the members of Acanthaceae, Araceae, Asteraceae, Cyperaceae, Euphobiaceae, Fabaceae, Poaceae, Rubiaceae and Zingiberaceae. In the degraded area of the hills where tree cover is almost absent, the most common species are *Clerodendrum viscosum*, *Chromolaena odorata*, *Mimosa pudica*, *Urena lobata*, *Melastoma malabathricum*, *Borreria hispida*, *Triumfetta rhomboidea*, *Ixora javanica*, *Ageratum conyzoides*, *Mikania cordata*, *Osbeckia asperculis*, *Globba multiflora*, *Desmodium triquetrum*, *Crotolaria juncea*, *Leea crispa*, *Sida acuta*, *Ocimum americanum*, *Hyptis suaveolens* and also some members of common climber families including Dioscoriaceae, Combretaceae, Vitaceae, Convolvulaceae, Menispermaceae, Apocynaceae, Asclepiadaceae and Cucurbitaceae. Relatively wet areas are dominated by *Hydrolea zeylanica*, *Ludwigia adscendens*, *Ipomoea aquatica*, *Alternanthera sessilis*, *Tilanthera philoxeroides*, *Monochoria vaginalis*, *Colocasia esculenta*, *Hedyotis scandens*, *Eichhornia crassipes*, and also the member's sedge, grass, aroids.

In the edge of forest and on the bank of streams the most common climbers are *Mikania cordata*, *Ichnocarpus frutescens*, *Merremia umbellata*, *Calycopteris floribunda*, *Derris trifoliata*, *Thunbergia grandiflora*, *Cyclea barbata*, *Cissus adnata*, *Cayratia japonica*, *Stephania harnadifolia*, *Combretum apetalum*, *Acacia concinna*, *Vitis repens*, *Bridelia secundens*, *Smilax zeylanica*, *Dioscorea pentaphylla*, *Dioscorea bulbifera*, *Hoya parasitica* and *Argyrea capitiformis*. Large canopy trees are special habitats for epiphyte and parasites. The most common epiphytes are *Aerides odorata*, *Bulbophyllum lilacinum*, *Cymbidium aloifolium*, *Dendrobium aphyllum*, *Luisia zeylanica*, *Vanda teres*, *Pholidota imbricata* and *Rhynchostylis retusa*. One threatened Gymnosperm *Gnetum oblongum*, is also observed in the area. The most common planted species observed in the area are *Acacia auriculiformis*, *Acacia mangium*, *Tectona grandis*, *Gmelina arborea*, *Syzygium grandis*, *Terminalia arjuna*, *Aquilaria agallocha* and *Dipterocarpus turbinatus*. The common bamboo species are *Bambusa tulda* and *Melocanna baccifera*. Among rattans *Calamus erectus* and *C. longisetus* are found in the forest. In the homestead gardens, common trees are *Artocarpus heterophyllus*, *Mangifera indica*, *Areca catechu*, *Borassus flabellifer*, *Carica papaya*, *Citrus grandis*, *Cocos nucifera* and *Psidium guajava*.

Table 1. List of species recorded in Teknaf wildlife sanctuary (* means cultivated).

Scientific name	Family	Bangla name	Habit
<i>Abelmoschus moschatus</i> Medic.	Malvaceae	Mushak dana	Herb
<i>Abrus precatorius</i> L.	Fabaceae	Ratti	Climber
* <i>Acacia auriculiformis</i> A. Cunn. ex Benth. & Hook.	Mimosaceae	Akashmoni	Tree
<i>A. concinna</i> (Willd.) DC.	Mimosaceae	Banrita	Climber
* <i>A. mangium</i> Willd.	Mimosaceae	Belgium	Tree
<i>Acanthus ilicifolius</i> L.	Acanthaceae	Hergoza	Shrub
<i>Achyranthes aspera</i> L.	Amaranthaceae	Apang	Herb
<i>Actephila excelsa</i> (Dalz.) Muell.-Arg.	Euphorbiaceae	-	Shrub
<i>Adenia trilobata</i> (Roxb.) Engl.	Passifloraceae	Akandphul	Climber
<i>Adina cordifolia</i> Hook. f. ex Brandis	Rubiaceae	Dakrum	Tree
<i>Aegialitis rotundifolia</i> Roxb.	Plumbaginaceae	Nuinna	Shrub
<i>Aegiceras corniculata</i> (L.) Blanco	Primulaceae	Khoilsha	Shrub
* <i>Aegle marmelos</i> (L.) Corr.	Rutaceae	Bel	Tree
<i>Aerides multiflora</i> Roxb.	Orchidaceae	-	Epiphyte
<i>A. odorata</i> Lour.	Orchidaceae	-	Epiphyte
<i>Aerua monsonia</i> Mart.	Amaranthaceae	-	Herb
<i>A. sanguinolenta</i> (L.) Blume	Amaranthaceae	-	Herb
<i>Ageratum conyzoides</i> L.	Asteraceae	Fulkuri	Herb
<i>Aglaonema hookerianum</i> Schott	Araceae	-	Herb
<i>Albizia lucidior</i> (Steud.) Nielsen	Mimosaceae	Sil-koroi	Tree
<i>A. procera</i> (Roxb.) Benth.	Mimosaceae	Silkoroi	Tree
<i>Allophylus cobbe</i> (L.) Raeuschel	Sapindaceae	Chita	Shrub
<i>Alocasia acuminata</i> Schott	Araceae	-	Herb
<i>A. macrorrhizos</i> (L.) G. Don	Araceae	Mankachu	Herb
<i>Alpinia malaccensis</i> (Burm. f.) Rosc.	Zingiberaceae	Deotara	Shrub
<i>Alstonia scholaris</i> L.	Apocynaceae	Chatim	Tree
<i>Alternanthera philoxeroides</i> (Mart.) Griseb.	Amaranthaceae	Helencha	Herb
<i>A. sessilis</i> (L.) R. Br. ex Roem & Schult.	Amaranthaceae	Upathlenga	Herb
<i>Amaranthus gangeticus</i> L.	Amaranthaceae	Shadamayishk	Herb
<i>A. spinosus</i> L.	Amaranthaceae	Kanta-nutia	Herb
<i>A. viridis</i> L.	Amaranthaceae	Notey Sak	Herb
<i>Ammannia multiflora</i> Roxb.	Lythraceae	-	Herb
<i>Amomum aromaticum</i> Roxb.	Zingiberaceae	Tara	Shrub
<i>Amorphophallus bulbifer</i> (Roxb.) Blume	Araceae	Oll	Herb
* <i>Anacardium occidentale</i> L.	Anacardiaceae	Kaju badam	Tree
<i>Anisomeles heyneana</i> Wall. ex Benth.	Lamiaceae	-	Herb
<i>A. indica</i> (L.) O. Kuntze	Lamiaceae	Gobura	Herb
<i>Anisoptera scaphula</i> (Roxb.) Pierre	Dipterocarpaceae	Boilum	Tree
* <i>Annona reticulata</i> L.	Annonaceae	Ata	Tree
<i>Anodendron paniculatum</i> (Roxb.) A. DC.	Apocynaceae	-	Climber
<i>Anogeissus acuminata</i> (Roxb. ex DC.) Guill. & Perr.	Combretaceae	Chakua	Tree
<i>Antidesma acuminatum</i> Wall.	Euphorbiaceae	Chukka	Shrub

Table 1 contd.

Scientific name	Family	Bangla name	Habit
<i>A. ghaesembilla</i> Gaertn.	Euphorbiaceae	Khudijam	Shrub
<i>A. roxburghii</i> Wall. ex Tulasne	Euphorbiaceae	-	Shrub
<i>Aphanamixis polystachya</i> (Wall.) R. N. Parker	Meliaceae	Pitraj	Tree
<i>Aporosa dioica</i> (Roxb.) Muell.-Arg.	Euphorbiaceae	Patakarolla	Tree
* <i>Aquilaria agallocha</i> Roxb.	Thymeliaceae	Agar	Tree
<i>Ardisia elliptica</i> Thunb.	Myrsinaceae	-	Shrub
<i>A. paniculata</i> Roxb.	Myrsinaceae	-	Shrub
<i>A. solanacea</i> (Poir.) Roxb.	Myrsinaceae	-	Shrub
* <i>Areca catechu</i> L.	Arecaceae	Supari	Tree
<i>Argyria capitiformis</i> (Poir.) van Cheek Oostr.	Convolvulaceae	-	Climber
<i>A. roxburghii</i> Choisy	Convolvulaceae	-	Climber
<i>Aristolochia tagala</i> Cham.	Aristolochiaceae	Ishwarmul	Climber
<i>Artocarpus chaplasha</i> Roxb.	Moraceae	Chapalish	Tree
* <i>A. heterophyllus</i> Lamk.	Moraceae	Kanthal	Tree
<i>Arundo donax</i> L.	Poaceae	Nal	Herb
* <i>Averrhoa bilimbi</i> L.	Oxalidaceae	Bilimbi	Tree
* <i>A. carambola</i> L.	Oxalidaceae	Kamranga	Tree
<i>Avicennia alba</i> Blume	Verbenaceae	Sada baen	Tree
<i>A. marima</i> (Forssk.) Vierh.	Verbenaceae	Moricha baen	Tree
<i>A. officinalis</i> L.	Verbenaceae	Kala baen	Tree
<i>Axonopus compressus</i> (Sw.) P. Beauv.	Poaceae	Dhakagash	Herb
* <i>Azadirachta indica</i> A. Juss.	Meliaceae	Neem	Tree
<i>Bacopa monieri</i> (L.) Pennell	Scrophulariaceae	Brammi	Herb
<i>Bambusa balcooa</i> Roxb.	Poaceae	barak bash	Tree
<i>B. polymorpha</i> Munro	Poaceae	Parua bash	Tree
<i>B. tulda</i> Roxb.	Poaceae	Mitinga bash	Tree
<i>Barringtonia acutangula</i> (L.) Gaertn.	Lecythidaceae	Hizol	Tree
<i>Bauhinia acuminata</i> L.	Caesalpiniaceae	Kanson	Shrub
<i>Begonia roxburghii</i> (Miq.) DC.	Begoniaceae	-	Herb
<i>Blumea lacera</i> (Burm. f.) DC.	Asteraceae	Kukurmuta	Herb
<i>B. membranacea</i> Wall. ex DC.	Asteraceae	Shialmutra	Herb
<i>B. virens</i> Wall. ex DC.	Asteraceae	-	Herb
<i>Bombax ceiba</i> L.	Bombacaceae	Shimul	Tree
<i>B. insigne</i> Wall.	Bombacaceae	Bonshimul	Tree
* <i>Borassus flabellifer</i> L.	Arecaceae	Tal	Tree
<i>Borreria articularis</i> (L. f.) Williams	Rubiaceae	Antharogia	Herb
<i>B. latifolia</i> (Aublet) K. Schum.	Rubiaceae	Ghuiojhil sak	Herb
<i>Breynia retusa</i> (Dennst.) Alston	Euphorbiaceae	Silpati	Shrub
<i>B. vitis-idaea</i> (Burm. f.) C. E. C. Fischer	Euphorbiaceae	-	Shrub
<i>Bridelia retusa</i> (L.) A. Juss.	Euphorbiaceae	Kata koi	Shrub
<i>B. stipularis</i> (L.) Blume	Euphorbiaceae	Pat khowi	Climber
<i>Brownlowia elata</i> Roxb.	Tiliaceae	Massjot	Tree

Table 1 contd.

Scientific name	Family	Bangla name	Habit
<i>Bruguiera gymnorrhiza</i> (L.) Lamk.	Rhizophoraceae	Goran	Tree
<i>Bulbophyllum lilacinum</i> Ridl.	Orchidaceae	Parchallow	Epiphyte
<i>Butea monosperma</i> (Lamk.) Taub.	Fabaceae	Polash	Tree
<i>Byttneria pilosa</i> Roxb.	Sterculiaceae	Harbanga lata	Climber
<i>Caesalpinia bonduc</i> (L.) Roxb.	Caesalpinaceae	Nata	Climber
<i>C. crista</i> L.	Caesalpinaceae	Letskanta	Climber
* <i>C. pulcherrima</i> (L.) Swartz	Caesalpinaceae	Radhachura	Tree
* <i>Cajanus cajan</i> (L.) Millsp.	Fabaceae	Orhor	Shrub
<i>Calamus erectus</i> Roxb.	Arecaceae	Kadam bet	Shrub
<i>C. longisetus</i> Griff.	Arecaceae	Udombet	Climber
<i>Calliandra umbrosa</i> (Wall.) Benth.	Mimosaceae	Chotto betmar	Shrub
<i>Callicarpa arborea</i> Roxb.	Verbenaceae	Bormala	Tree
<i>C. macrophylla</i> Vahl	Verbenaceae	Bormala	Tree
<i>Calophyllum polyanthum</i> Wall. ex Choisy	Clusiaceae	Keroli	Tree
<i>Calotropis procera</i> (Ait.) R. Br.	Asclepiadaceae	Akand	Shrub
<i>Calycopteris floribunda</i> (Roxb.) Lamk.	Combretaceae	Guicha lata	Climber
<i>Campanumoea lancifolia</i> (Roxb.) Merr.	Campanulaceae	-	Herb
<i>Carex indica</i> L.	Cyperaceae	-	Herb
* <i>Carica papaya</i> L.	Caricaceae	Pepe	Tree
<i>Cassia fistula</i> L.	Caesalpinaceae	Sonalu	Tree
<i>Castanopsis tribuloides</i> (Smith) A. DC.	Fagaceae	Hingra	Tree
<i>Casuarina equisetifolia</i> Forst.	Casuarinaceae	Jau	Tree
<i>Cayratia japonica</i> (Thunb.) Gagnep.	Vitaceae	-	Climber
<i>Ceiba pentandra</i> (L.) Gaertn.	Bombacaceae	Tula	Tree
<i>Celtis timorensis</i> Span.	Ulmaceae	Datarchua	Shrub
<i>Centella asiatica</i> (L.) Urban	Apiaceae	Thaimonshak	Herb
<i>Ceriops decandra</i> (Griff.) Ding Hou	Rhizophoraceae	Khemo	Tree
<i>Chromolaena odorata</i> (L.) King & Robinson	Asteraceae	Assamlata	Shrub
<i>Chrysopogon aciculatus</i> (Retz.) Trin.	Poaceae	Premkanta	Herb
<i>Chukrasia tabularis</i> A. Juss.	Meliaceae	Chikrasi	Tree
<i>Cinnamomum iners</i> Reinw. ex Blume	Lauraceae	Tejmul	Tree
<i>Cissampelos pareira</i> L.	Menispermaceae	Tubaki-lata	Climber
<i>Cissus adnata</i> Roxb.	Vitaceae	Aliangalata	Climber
* <i>Citrus aurantium</i> L.	Rutaceae	Komala	Shrub
* <i>C. grandis</i> (L.) Osbeck	Rutaceae	Jambura	Tree
<i>Clausena heptaphylla</i> (Roxb.) Wight & Arn. ex Steud.	Rutaceae	Ponkarpur	Shrub
<i>C. suffruticosa</i> (Roxb.) Wight & Arn.	Rutaceae	Panbilash	Shrub
<i>Cleome rutidosperma</i> DC.	Capparaceae	-	Herb
<i>C. viscosa</i> L.	Capparaceae	Hurhuria	Herb
<i>Clerodendrum inerme</i> (L.) Gaertn.	Verbenaceae	Bamjui	Shrub
<i>C. viscosum</i> Vent.	Verbenaceae	Bhant	Shrub
<i>Clitoria ternatea</i> L.	Fabaceae	Aparjita	Climber

Table 1 contd.

Scientific name	Family	Bangla name	Habit
<i>Cnesmone javanica</i> Blume	Euphorbiaceae	Chutra	Climber
* <i>Cocos nucifera</i> L.	Arecaceae	Narikel	Tree
<i>Colocasia esculenta</i> (L.) Schott	Araceae	Kachu	Herb
<i>C. heterochroma</i> H. Li et Z.X. Wei	Araceae	-	Herb
<i>C. oresbia</i> A. Hay	Araceae	-	Herb
<i>Combretum decandrum</i> Roxb.	Combretaceae	Sada guicha	Climber
<i>Commelina benghalensis</i> L.	Commelinaceae	Kanchira	Herb
<i>C. erecta</i> L.	Commelinaceae	Jata kanchira	Herb
<i>C. longifolia</i> Lamk.	Commelinaceae	Pani kanchira	Herb
<i>Costus speciosus</i> (Koenig ex Retz.) Smith	Costaceae	Keumul	Herb
<i>Crateva magna</i> (Lour.) DC.	Capparaceae	Borun	Tree
<i>Crinum amoenum</i> Roxb.	Liliaceae	Bopiaz	Herb
<i>C. asiaticum</i> L.	Liliaceae	Gor-rosun	Herb
<i>Crotalaria juncea</i> L.	Fabaceae	Junjuni	Herb
<i>C. pallida</i> Ait.	Fabaceae	Jhunjhni	Herb
<i>Curculigo orchioides</i> Gaertn.	Liliaceae	Talmuli	Herb
<i>C. recurvata</i> Dryand.	Liliaceae	Satipata	Herb
<i>Curcuma amada</i> Roxb.	Zingiberaceae	Shadi	Herb
<i>C. latifolia</i> Rosc.	Zingiberaceae	Amada	Herb
<i>C. zedoaria</i> (Christm.) Rosc.	Zingiberaceae	Shoti	Herb
<i>Cuscuta reflexa</i> Roxb.	Cuscutaceae	Shornalata	Climber
<i>Cyclea barbata</i> Miers	Menispermaceae	Patalpur	Climber
<i>Cymbidium aloifolium</i> (L.) Sw.	Orchidaceae	Churi	Epiphyte
<i>Cynodon dactylon</i> (L.) Pers.	Poaceae	Durba	Herb
<i>Cyperus cyperoides</i> (L.) O. Ktze.	Cyperaceae	-	Herb
<i>C. iria</i> L.	Cyperaceae	-	Herb
<i>C. kyllingia</i> Endl.	Cyperaceae	-	Herb
<i>C. laxus</i> Lamk. var. <i>laxus</i>	Cyperaceae	-	Herb
<i>C. pilosus</i> Vahl	Cyperaceae	-	Herb
<i>C. rotundus</i> L.	Cyperaceae	-	Herb
<i>Dalbergia rimosa</i> Roxb.	Fabaceae	-	Shrub
<i>D. sissoo</i> Roxb.	Fabaceae	-	Tree
<i>D. spinosa</i> Roxb.	Fabaceae	-	Shrub
<i>D. stipulacea</i> Roxb.	Fabaceae	Dadbari	Climber
<i>D. tamarindifolia</i> Roxb.	Fabaceae	-	Shrub
<i>D. volubilis</i> Roxb.	Fabaceae	Ankilata	Shrub
<i>Datura metel</i> L.	Solanaceae	Dhatura	Shrub
<i>Dehaasia kurzii</i> King ex Hook. f.	Lauraceae	Modonmosta	Tree
* <i>Delonix regia</i> Rafin.	Caesalpiniaceae	krishnachura	Tree
<i>Dendrobium aphyllum</i> (Roxb.) Fischer	Orchidaceae	-	Epiphyte
<i>Derris scandens</i> (Roxb.) Benth.	Fabaceae	Kalilata	Climber
<i>D. trifoliata</i> Lour.	Fabaceae	Melata	-

Table 1 contd.

Scientific name	Family	Bangla name	Habit
<i>Desmodium heterocarpon</i> (L.) DC.	Fabaceae	-	Herb
<i>D. heterophyllum</i> (Willd.) DC.	Fabaceae	-	Herb
<i>D. pulchellum</i> (L.) Benth.	Fabaceae	Juta salpani	Shrub
<i>D. styracifolium</i> (Osb.) Merr.	Fabaceae	-	Herb
<i>D. triflorum</i> (L.) DC.	Fabaceae	Kulalia	Herb
<i>D. triquetrum</i> (L.) DC.	Fabaceae	-	Herb
<i>D. triquetrum</i> (L.) DC. subsp. <i>alatum</i> (DC.) Prain	Fabaceae	-	Herb
<i>Dichopsis polyantha</i> Benth.	Sapotaceae	Tali	Tree
<i>Digitaria sanguinalis</i> (L.) Scop.	Poaceae	Makunjill	Herb
<i>D. violascens</i> Link	Poaceae	-	Herb
<i>Dillenia indica</i> L.	Dilleniaceae	Chalta	Tree
<i>D. pentagyna</i> Roxb.	Dilleniaceae	Hargenza	Tree
<i>D. scabrella</i> Roxb. ex Wall.	Dilleniaceae	Ekush	Tree
<i>Dioscorea alata</i> L.	Dioscoreaceae	Suprialu	Climber
<i>D. belophylla</i> (Prain) Voigt ex Haines	Dioscoreaceae	-	Climber
<i>D. bulbifera</i> L. var. <i>bulbifera</i> L.	Dioscoreaceae	Ratal, Bon alu	Climber
<i>D. kamoensis</i> Kunth	Dioscoreaceae	-	Climber
<i>D. melanophyllum</i> Prain & Burkill	Dioscoreaceae	-	Climber
<i>D. oppositifolia</i> L.	Dioscoreaceae	Randrealeku	Climber
<i>D. pentaphylla</i> L.	Dioscoreaceae	-	Climber
<i>Di. trinerva</i> Roxb.	Dioscoreaceae	-	Climber
<i>Dipterocarpus alatus</i> Roxb. ex G. Don	Dipterocarpaceae	Dholi garjan	Tree
<i>D. costatus</i> Gaertn.	Dipterocarpaceae	Sil garjan	Tree
<i>D. gracilis</i> Blume	Dipterocarpaceae	-	Tree
<i>D. turbinatus</i> Gaertn.	Dipterocarpaceae	Kaligarjan	Tree
<i>Dracaena spicata</i> Roxb.	Agavaceae	Dracaena	Shrub
<i>Duranta repens</i> L.	Verbenaceae	Katamehedhi	Shrub
<i>Dysolobium dolichooides</i> (Roxb.) Prain	Fabaceae	-	Climber
<i>Echinochloa colonum</i> (L.) Link	Poaceae	Shama grass	Herb
<i>Eclipta alba</i> (L.) Hassk.	Asteraceae	Keshoraj	Herb
<i>Eichhornia crassipes</i> (Mart.) Solms	Pontederiaceae	Kachuripana	Herb
<i>Elaeocarpus floribundus</i> Blume	Elaeocarpaceae	Belphoi	Tree
<i>E. robustus</i> Roxb.	Elaeocarpaceae	Jalpai	Tree
<i>Elatostema sesquifolium</i> (Blume) Hassk.	Urticaceae	-	Herb
<i>Eleocharis palustris</i> (L.) R. Br.	Cyperaceae	-	Herb
<i>Elephantopus scaber</i> L.	Asteraceae	-	Herb
<i>Eleusine indica</i> (L.) Gaertn.	Poaceae	Malan kuri	Herb
<i>Endospermum chinense</i> Benth.	Euphorbiaceae	-	Tree
<i>Engelhardtia spicata</i> Lesch. ex Blume	Guglandaceae	Zalna	Tree
<i>Enhydra fluctuans</i> Lour.	Asteraceae	Helencha	Herb
<i>Entada scandens</i> auct. non Benth.	Mimosaceae	Gila	Climber
<i>Eragrostis tenella</i> (L.) P. Beauv. ex Roem. & Schult.	Poaceae	Koni grass	Herb

Table 1 contd.

Scientific name	Family	Bangla name	Habit
<i>Eranthemum strictum</i> Coleb. ex Roxb.	Acanthaceae	-	Herb
* <i>Eryngium foetidum</i> L.	Apiaceae	Katkatriabaho	Herb
<i>Erythrina fusca</i> Lour.	Fabaceae	Mandar	Tree
<i>E. indica</i> Lamk.	Fabaceae	Mandar	Tree
<i>E. ovalifolia</i> Roxb.	Fabaceae	Mandar	Tree
<i>Etilingera linguiformis</i> (Roxb.) R. M. Smith	Zingiberaceae	-	Shrub
<i>Euphorbia hirta</i> L.	Euphorbiaceae	Dudhia	Herb
<i>E. thymifolia</i> L.	Euphorbiaceae	Dudhiya	Herb
<i>Evolvulus nummularius</i> (L.) L.	Convolvulaceae	-	Herb
<i>Excoecaria agallocha</i> L.	Euphorbiaceae	Gewa	Tree
<i>Ficus altissima</i> Blume	Moraceae	Bot	Tree
<i>F. benghalensis</i> L.	Moraceae	Bot	Tree
<i>F. benjamina</i> L.	Moraceae	Jir	Tree
<i>F. fistulosa</i> Reinw. ex Blume	Moraceae	-	Shrub
<i>F. hispida</i> L. f.	Moraceae	Dumur	Herb
<i>F. pumila</i> L.	Moraceae	Dewall dumar	Climber
<i>F. racemosa</i> L.	Moraceae	Jagya dumar	Tree
<i>F. runghii</i> Blume	Moraceae	-	Tree
<i>F. scandens</i> Buch.-Ham.	Moraceae	-	Climber
<i>F. semicordata</i> Buch.-Ham. ex Smith	Moraceae	Chotochorkigu	Tree
<i>F. virens</i> Ait.	Moraceae	Pakur	Tree
<i>Fimbristylis dichotoma</i> (L.) Vahl subsp. <i>dichotoma</i>	Cyperaceae	-	Herb
<i>F. miliacea</i> (L.) Vahl	Cyperaceae	-	Herb
<i>Fissistigma polyanthum</i> (Hook. f. & Thom.) Merr.	Annonaceae	-	Climber
<i>Flacourtia indica</i> (Burm. f.) Merr.	Flacourtiaceae	Paniala	Shrub
<i>F. inermis</i> Roxb.	Flacourtiaceae	-	Shrub
<i>Flagellaria indica</i> L.	Flagellariaceae	-	Climber
<i>Flemingia macrophylla</i> (Willd.) O. Kuntze ex Merr.	Fabaceae	Bara shaphan	Shrub
<i>F. strobilifera</i> (L.) R. Br.	Fabaceae	-	Shrub
<i>Floscopa scandens</i> Lour.	Commelinaceae	-	Herb
<i>Garcinia cowa</i> Roxb. ex DC.	Clusiaceae	Kau phal	Tree
<i>G. xanthochymus</i> Hook. f. ex T. Anders.	Clusiaceae	Dayphal	Tree
<i>Garuga floribunda</i> Decne. var. <i>gamblei</i> (King ex Smith) Kalkman	Burseraceae	Jongli jiga	Tree
<i>G. pinnata</i> Roxb.	Burseraceae	Jeolbhadi	Tree
<i>Geissapsis cristata</i> Wight & Arn.	Fabaceae	-	Herb
<i>Geodorum densiflorum</i> (Lamk.) Schltr.	Orchidaceae	-	Herb
<i>Globba multiflora</i> Wall. ex Baker	Zingiberaceae	-	Herb
<i>Gloriosa superba</i> L.	Liliaceae	Ulatchandal	Climber
<i>Glycosmis mauritiana</i> (Lamk.) Tanaka	Rutaceae	-	Shrub
<i>G. pentaphylla</i> (Retz.) A. DC.	Rutaceae	Datmajan	Shrub
<i>Gmelina arborea</i> Roxb.	Verbenaceae	Gamari	Tree

Table 1 ontd.

Scientific name	Family	Bangla name	Habit
<i>Gnetum oblongum</i> L.	Gnetaceae	-	Climber
<i>Goniothalamus sesquipedalis</i> (Wall.) Hook. F. & Thom.	Annonaceae	-	Shrub
<i>Gouania tiliaefolia</i> Lamk.	Rhamnaceae	-	Climber
<i>Grewia microcos</i> L.	Tiliaceae	Assar	Shrub
<i>Gymnopetalum cochinchinense</i> (Lour.) Kurz	Cucurbitaceae	-	Climber
<i>Gynostemma pentaphylla</i> (Thumb.) Makino.	Vitaceae	-	Climber
<i>Hedyotis scandens</i> Roxb.	Rubiaceae	Bish lata	Herb
<i>Heliotropium indicum</i> L.	Boraginaceae	Hatisun	Herb
<i>Hemarthria protensa</i> Steud.	Poaceae	Chalia	Herb
<i>Hemidesmus indicus</i> (L.) R. Br.	Asclepiadaceae	Anantamul	Climber
<i>Hemigraphis hirta</i> (Vahl) T. Anders.	Acanthaceae	-	Herb
<i>Heritiera fomes</i> Buch.-Ham.	Sterculiaceae	Sundari	Tree
<i>Heterophragma adenophylla</i> (Wall. ex G. Don) Benth.	Bignoniaceae	Dakrum	Tree
* <i>Hibiscus rosa-sinensis</i> L.	Malvaceae	Joba	Shrub
<i>H. tiliaceus</i> L.	Malvaceae	Bolla	Shrub
<i>Holarrhena antidysenterica</i> (L.) Wall. ex Decne.	Apocynaceae	Kurchi	Shrub
<i>Holigarna longifolia</i> Roxb.	Anacardiaceae	Barala	Tree
<i>Homalomena aromatica</i> (Roxb. ex Sim) Schott	Araceae	-	Herb
<i>Hopea odorata</i> Roxb.	Dipterocarpaceae	Telsur	Tree
<i>Hoya parasitica</i> (Roxb.) Wall. ex Wight	Asclepiadaceae	Pargacha	Climber
<i>Hydrolea zeylanica</i> (L.) Vahl	Hydrophyllaceae	-	Herb
<i>Hygrophila polysperma</i> (Roxb.) T. Anders.	Acanthaceae	-	Herb
<i>Hymenodictyon excelsum</i> (Roxb.) Wall.	Rubiaceae	Bhuikadam	Tree
<i>Hyptis brevipes</i> Poit.	Lamiaceae	-	Herb
<i>H. suaveolens</i> (L.) Poit.	Lamiaceae	Tokma	Herb
<i>Ichnocarpus frutescens</i> (L.) R. Br.	Apocynaceae	Shamalata	Climber
<i>Imperata cylindrica</i> (L.) P. Beauv. var. <i>latifolia</i> (Hook. f.) C. E. Hubb.	Poaceae	Ulu	Herb
<i>Ipomoea aquatica</i> Forssk.	Convolvulaceae	Kalmi sak	Climber
<i>I. fistulosa</i> Mart. ex Choisy	Convolvulaceae	Dholkalmi	Shrub
<i>I. mauritiana</i> Jacq.	Convolvulaceae	Huffta alu	Climber
<i>I. pes-caprae</i> (L.) R. Br.	Convolvulaceae	Chagalkhuri	Climber
<i>I. quamoclit</i> L.	Convolvulaceae	Gate phul	Climber
<i>Ischaemum indicum</i> (Houtt.) Merr.	Poaceae	Toto grass	Herb
<i>Ixora acuminata</i> Roxb.	Rubiaceae	-	Shrub
<i>I. javanica</i> DC.	Rubiaceae	Rangan	Shrub
<i>I. pavetta</i> Andr.	Rubiaceae	Swet rangan	Shrub
* <i>Jasminum auriculatum</i> Vahl	Oleaceae	Jui	Climber
<i>J. grandiflorum</i> L.	Oleaceae	Wild jasmin	Climber
<i>J. scandens</i> Vahl	Oleaceae	-	Shrub
<i>Jatropha curcas</i> L.	Euphorbiaceae	Sadajeol	Tree
<i>Justicia gendarussa</i> Burm. f.	Acanthaceae	Nilnishinda	Shrub

Table 1 contd.

Scientific name	Family	Bangla name	Habit
<i>J. simplex</i> D. Don.	Acanthaceae	Jogathmardan	Shrub
<i>Kaempferia galanga</i> L.	Zingiberaceae	<i>Tiutara</i>	Herb
* <i>Lagenaria siceraria</i> (Molina) Standl.	Cucurbitaceae	Lau	Herb
<i>Lagerstroemia speciosa</i> (L.) Pers.	Lythraceae	Jarul	Tree
<i>Lannea coromandelica</i> (Houtt.) Merr.	Anacardiaceae	Jiga	Tree
<i>Lantana camara</i> L.	Verbenaceae	Lantana	Shrub
<i>Laportea interrupta</i> (L.) Chew	Urticaceae	Lal Bichuti	Herb
<i>Lasia spinosa</i> (L.) Thw.	Araceae	Kantakachu	Herb
* <i>Lawsonia inermis</i> L.	Lythraceae	Mehedi	Shrub
<i>Leea acuminata</i> Wall.	Leeaceae	Phupharia	Shrub
<i>L. aequata</i> L.	Leeaceae	-	Shrub
<i>L. crispa</i> L.	Leeaceae	Banchilata	Shrub
<i>L. indica</i> Merr.	Leeaceae	-	Shrub
<i>Lepidagathis incurva</i> Buch.-Ham. ex D. Don	Acanthaceae	-	Herb
<i>Lepisanthes rubiginosa</i> (Roxb.) Leenh.	Sapindaceae	Baraharina	Shrub
* <i>Leucaena leucocephala</i> (Lamk.) de Wit.	Mimosaceae	Ipli-ipil	Tree
<i>Leucas aspera</i> (Willd.) Link	Lamiaceae	Dandakalash	Herb
<i>L. lavandulaefolia</i> Smith	Lamiaceae	Gaochia	Herb
<i>Limnophila indica</i> (L.) Druce	Scrophulariaceae	Pani karpur	Herb
<i>Limonia acidissima</i> L.	Rutaceae	Koethbel	Tree
<i>Lithocarpus elegans</i> var. <i>elegans</i> (Blume) Hatus. ex Soepad.	Fagaceae	Barabatna	Tree
<i>Litsea glutinosa</i> (Lour.) Robinson	Lauraceae	Menda	Tree
<i>L. monopetala</i> (Roxb.) Pers.	Lauraceae	Kukuchita	Tree
<i>Lophopetalum wightianum</i> Arn.	Celastraceae	Rokton	Tree
<i>Ludwigia adscendens</i> (L.) Hara	Onagraceae	Mulsi	Herb
<i>L. hyssopifolia</i> (G. Don) Exell apud A. & R. Fernandes	Onagraceae	-	Herb
<i>Luffa graveolens</i> Roxb.	Cucurbitaceae	Pahari dhundul	Climber
<i>Luisia zeylanica</i> Lindl.	Orchidaceae	-	Epiphyte
<i>Macaranga peltata</i> (Roxb.) Muell.-Arg.	Euphorbiaceae	Bura	Shrub
<i>Macrosolen cochinchinensis</i> (Lour.) Van Tiegh.	Loranthaceae	Porgasa	Parasite
<i>Maesa indica</i> (Roxb.) A. DC.	Myrsinaceae	Ramjoni	Shrub
<i>M. ramentacea</i> (Roxb.) A. DC.	Myrsinaceae	Maricha	Shrub
<i>Mallotus philippensis</i> (Lamk.) Muell.-Arg.	Euphorbiaceae	Kamela	Shrub
<i>Mangifera indica</i> L.	Anacardiaceae	Aam	Tree
<i>M. sylvatica</i> Roxb.	Anacardiaceae	Uriam	Tree
<i>Manihot esculenta</i> Crantz	Euphorbiaceae	Kasava	Shrub
<i>Manilkara hexandra</i> (Roxb.) Dubard	Sapotaceae	Khirmi	Shrub
<i>Mantisia radicalis</i> (Roxb.) D. P. Dam & N. Dam	Zingiberaceae	-	Herb
<i>M. spathulata</i> Schult.	Zingiberaceae	-	Herb
<i>Maranta arundinacea</i> L.	Marantaceae	Ararot	Herb
<i>Melastoma malabathricum</i> L.	Melastomaceae	Futki	Shrub

Table 1 contd.

Scientific name	Family	Bangla name	Habit
* <i>Melia azedarach</i> L.	Meliaceae	Ghura neem	Tree
<i>Melocanna baccifera</i> (Roxb.) Kurz	Poaceae	Moli bash	Tree
<i>Melochia corchorifolia</i> L.	Sterculiaceae	Tiki okra	Herb
<i>M. umbellata</i> (L.) Hallier f.	Convolvulaceae	Sadakalmi	Climber
<i>Michelia champaca</i> L.	Magnoliaceae	Champa	Tree
<i>Micromelum minutum</i> (G. Forster) Wight & Arn.	Rutaceae	Koroiphula	Shrub
<i>Mikania cordata</i> (Burm. f.) Robinson	Asteraceae	Assamlata	Climber
<i>Miliusa globosa</i> (DC.) G. Panigr. & Mishra	Annonaceae	Tasbi	Climber
<i>Millettia cinerea</i> Benth.	Fabaceae	-	Herb
<i>Mimosa invisa</i> Mart. ex Colla.	Mimosaceae	Bara lajjabati	Herb
<i>M. pudica</i> L.	Mimosaceae	Lajjabati	Herb
<i>Mitragyna rotundifolia</i> (Roxb.) O. Kuntze	Rubiaceae	Rang kat	Tree
<i>Molineria recurvata</i> (Dryand.) Herbert.	Liliaceae	-	Herb
<i>Mollugo pentaphylla</i> L.	Moraceae	Khetpapra	Herb
<i>Momordica dioica</i> Roxb. ex Willd.	Cucurbitaceae	Bonkorolla	Climber
<i>Monochoria vaginalis</i> (Burm. f.) Presl	Pontederiaceae	Nukha	Herb
<i>Mucuna pruriens</i> (L.) DC.	Fabaceae	Alkushi	Climber
<i>Murraya koenigii</i> (L.) Spreng.	Rutaceae	Kamini	Tree
<i>Musa acuminata</i> Colla	Musaceae	-	Herb
<i>Mussaenda frondosa</i> L.	Rubiaceae	Kalasonia	Shrub
<i>M. roxburghii</i> Hook. f.	Rubiaceae	Silchuri	Shrub
<i>Nelsonia canescens</i> (Lamk.) Spreng.	Acanthaceae	Parmul	Herb
<i>Neolamarckia cadamba</i> (Roxb.) Bosser	Rubiaceae	Kadam	Tree
<i>Nymphaea rubra</i> Roxb. ex Andr.	Nymphaeaceae	Lal Shaphla	Herb
<i>Nypa fruticans</i> Wurmb.	Arecaceae	Golpata	Shrub
<i>Ocimum americanum</i> L.	Lamiaceae	Tulsi	Herb
* <i>O. gratissimum</i> L.	Lamiaceae	Ramtulsi	Herb
<i>Oplismenus burmanii</i> (Retz.) P. Beauv.	Poaceae	-	Herb
<i>Opuntia dillenii</i> Haw.	Cactaceae	Phanimansa	Herb
<i>Oreocnide integrifolia</i> (Gaud.) Miq.	Urticaceae	Horhuta	Shrub
<i>Ormosia robusta</i> (Roxb.) Baker	Fabaceae	-	Tree
<i>Oroxylum indicum</i> (L.) Kurz	Bignoniaceae	Thona	Tree
<i>Osbeckia aspericaulis</i> Hook. f. ex Triana	Melastomaceae	-	Shrub
<i>Oxyceros kunstleri</i> (King & Gamble) Tirveng.	Rubiaceae	Moishkanta	Climber
<i>Pandanus foetidus</i> Roxb.	Pandanaceae	Keyakanta	Shrub
<i>P. odoratus</i> Ridl.	Pandanaceae	Keyakanta	Shrub
<i>Panicum brevifolium</i> L.	Poaceae	-	Herb
<i>P. notatum</i> Retz.	Poaceae	-	Herb
<i>Papilionanthe teres</i> (Roxb.) Schltr.	Orchidaceae	Vanda	Epiphyte
<i>Paspalum scrobiculatum</i> L.	Poaceae	Kodoa phan	Herb
<i>Passiflora foetida</i> L.	Passifloraceae	Jhumku lata	Climber
<i>Peliosanthes teta</i> Andr.	Haemodoraceae	Napi gach	Herb

Table 1 contd.

Scientific name	Family	Bangla name	Habit
<i>Pentatropis capensis</i> (L. f.) Bullock	Asclepiadaceae	-	Climber
<i>Persicaria flaccida</i> (Meissn.) H. Gross ex Loesen.	Polygonaceae	Lal-bishkatali	Herb
<i>P. hydropiper</i> (L.) Spach	Polygonaceae	Lal-kukri	Herb
<i>P. orientalis</i> (L.) Spach	Polygonaceae	Bara panimorich	Herb
<i>Phaulopsis imbricata</i> (Forssk.) Sweet	Acanthaceae	-	Herb
<i>Phoebe lanceolata</i> (Nees) Nees	Lauraceae	-	Shrub
<i>Phoenix sylvestris</i> Roxb.	Arecaceae	Khejur	Tree
<i>Pholidota imbricata</i> Hook. f.	Orchidaceae	-	Epiphyte
<i>Phrynium imbricatum</i> Roxb.	Marantaceae	Pituli pata	Shrub
<i>Phyla nodiflora</i> (L.) Greene	Verbenaceae	Bakkumgula	Herb
<i>Phyllanthus emblica</i> L.	Euphorbiaceae	Amlaki	Tree
<i>P. niruri</i> L.	Euphorbiaceae	Bhuiamla	Tree
<i>P. reticulatus</i> Poir.	Euphorbiaceae	Chitki	Shrub
<i>Physalis minima</i> L.	Solanaceae	Fotka	Herb
<i>Pilea melastomoides</i> (Poir.) Wedd.	Urticaceae	-	Shrub
<i>Piper betle</i> L.	Piperaceae	Pan	Climber
<i>P. sylvaticum</i> Roxb.	Piperaceae	Ban pan	Climber
<i>Pithecellobium angulatum</i> Benth.	Mimosaceae	Kurmar	Tree
<i>Pogonatherum crinitum</i> (Thunb.) Kunth	Poaceae	-	Herb
<i>P. paniceum</i> (Lamk.) Hack.	Poaceae	Choto bush	Herb
<i>Polygonum plebeium</i> R. Br.	Polygonaceae	Mechu sak	Herb
<i>Pongamia pinnata</i> (L.) Pierre	Fabaceae	-	Tree
<i>Pothos scandens</i> L.	Araceae	Batilata	Climber
<i>Pouzolzia zeylanica</i> (L.) Benn.	Urticaceae	Kulla kuri	Herb
<i>Premna esculenta</i> Roxb.	Verbenaceae	Lallong	Shrub
<i>Protium serratum</i> (Wall. ex Coelbr.) EngL.	Burseraceae	Gutgutia	Tree
<i>Psidium guajava</i> L.	Myrtaceae	Piara	Shrub
<i>Pterospermum semisagittatum</i> Buch.-Ham. ex Roxb.	Sterculiaceae	Ban-assar	Tree
<i>Quercus gomeziana</i> A. Camus	Fagaceae	Batna	Tree
<i>Randia dumetorum</i> Lamk.	Rubiaceae	Mankanta	Shrub
<i>Rhaphidophora grandis</i> Schott	Araceae	-	Climber
<i>Rhizophora mucronata</i> Poir.	Rhizophoraceae	-	Tree
<i>Rhynchosyris retusa</i> (L.) Blume	Orchidaceae	Foxtail	Epiphyte
<i>Rhynchosyris ellipticum</i> (Diet.) DC.	Gesneriaceae	-	Shrub
<i>Ricinus communis</i> L.	Euphorbiaceae	Reri	Herb
<i>Rotala indica</i> (Willd.) Koehne	Lythraceae	-	Herb
<i>R. rotundifolia</i> (Buch.-Ham. ex Roxb.) Koehne	Lythraceae	-	Herb
<i>Rungia pectinata</i> (L.) Nees. in Wall.	Acanthaceae	Pindi	Herb
<i>Saccharum arundinaceum</i> Retz.	Poaceae	Teng	Herb
<i>S. spontaneum</i> L.	Poaceae	Kash	Herb
<i>Samanea saman</i> (Jacq.) Merr.	Mimosaceae	Pandi korai	Tree
<i>Sambucus canadensis</i> L.	Caprifoliaceae	Hoklati	Tree

Table 1 contd.

Scientific name	Family	Bangla name	Habit
<i>Sapindus saponaria</i> L.	Sapindaceae	Ritha	Tree
<i>Saraca thaipingensis</i> Cantley <i>ex</i> Prain	Caesalpinaceae	Ashok	Shrub
<i>Sarcochlamys pulcherrima</i> Gaudich.	Urticaceae	Achila	Shrub
<i>Sarcolobus carinatus</i> Wall.	Asclepiadaceae	Baoli lata	Climber
<i>Schefflera bengalensis</i> Gamble	Araliaceae	-	Climber
<i>Scoparia dulcis</i> L.	Scrophulariaceae	Bandhani	Herb
<i>Semicarpus anacardium</i> L.f.	Anacardiaceae	Bhela	Tree
<i>Senna alata</i> (L.) Roxb.	Caesalpinaceae	Dadmordon	Shrub
<i>S. obtusifolia</i> (L.) Irwin & Barneby	Caesalpinaceae	Chakunda	Herb
<i>S. occidentalis</i> Roxb.	Caesalpinaceae	Eski	Shrub
<i>S. sophera</i> (L.) Roxb.	Caesalpinaceae	Kalkesunde	Herb
<i>S. tora</i> (L.) Roxb.	Caesalpinaceae	Chakunda	Herb
<i>Sesbania grandiflora</i> (L.) Poir.	Fabaceae	Bokful	Shrub
<i>Setaria glauca</i> (L.) P. Beauv.	Poaceae	Bajra	Herb
<i>Shorea robusta</i> Roxb. <i>ex</i> Gaertn. f.	Dipterocarpaceae	Sal	Tree
<i>Sida acuta</i> Burm. f.	Malvaceae	Nakphul	Herb
<i>S. cordata</i> (Burm. f.) Borss.	Malvaceae	Junka	Herb
<i>S. cordifolia</i> L.	Malvaceae	Berela	Herb
<i>S. rhombifolia</i> L.	Malvaceae	Lal-berela	Herb
<i>Smilax ferox</i> Wall. <i>ex</i> Kunth	Smilacaceae	Kumari lata	Climber
<i>S. laurifolia</i> L.	Smilacaceae	Kumari lata	Climber
<i>S. ovalifoila</i> Roxb.	Smilacaceae	Kumari lata	Climber
<i>S. perfoliata</i> Lour.	Smilacaceae	Kumari lata	Climber
<i>Solanum barbisetum</i> Nees	Solanaceae	-	Shrub
<i>S. capsicoides</i> All.	Solanaceae	Betbegun	Shrub
<i>S. lasiocarpum</i> Dunal	Solanaceae	Beregul	Shrub
<i>S. nigrum</i> L.	Solanaceae	Puti begun	Herb
<i>S. sisymbriifolium</i> Lamk.	Solanaceae	-	Shrub
<i>S. torvum</i> Swartz	Solanaceae	Gota begun	Shrub
<i>S. violaceum</i> Ortega	Solanaceae	Byakur	Shrub
<i>S. virginianum</i> L.	Solanaceae	Kanta kari	Shrub
<i>Sonneratia alba</i> J. Smith	Sonnertiaceae	-	Tree
<i>S. apetala</i> Buch.-Ham.	Sonnertiaceae	Keora	Tree
<i>S. caseolaris</i> (L.) Engl.	Solanaceae	Keora	Tree
<i>Spatholobus acuminatus</i> Benth.	Fabaceae	Bean	Climber
<i>S. roxburghii</i> Benth.	Fabaceae	-	Climber
<i>Sphaeranthus indicus</i> L.	Asteraceae	Chagalnadi	Herb
<i>Spilanthes acmella</i> auct. non L. Thw.	Asteraceae	Mathamoriaguinshak	Herb
<i>Spondias pinnata</i> (L.f.) Kurz.	Anacardiaceae	Amra	Tree
<i>Sporobolus diander</i> (Retz.) P. Beauv.	Poaceae	Bina joni	Herb
<i>S. indicus</i> R. Br.	Poaceae	-	Herb
<i>Stachytarpheta jamaicensis</i> (L.) Vahl	Verbenaceae	Bina joni	Herb

Table 1 contd.

Scientific name	Family	Bangla name	Habit
<i>Staurogyne argentea</i> Wall.	Acanthaceae	-	Herb
<i>Stemona tuberosa</i> Lour.	Stemonaceae	Lalgurania alu	Climber
<i>Stephania glabra</i> (Roxb.) Miers	Menispermaceae	Thanda manik	Climber
<i>S. japonica</i> (Thunb.) Miers	Menispermaceae	Muichanlata	Climber
<i>Stephegyne parvifolia</i> Korth. auct. non Roxb.	Rubiaceae	Phulkadam	Tree
<i>Sterculia foetida</i> L.	Sterculiaceae	Jongli badam	Tree
<i>S. villosa</i> Roxb. ex Smith	Sterculiaceae	Bsaket badam	Tree
<i>Stereospermum personatum</i> (Hassk.) Chatterjee	Bignoniaceae	-	Tree
<i>Stuednera colocasioides</i> Hook. f.	Araceae	Bishkachu	Herb
<i>Streblus asper</i> Lour.	Moraceae	Sheora	Shrub
<i>Strobilanthes polystachia</i> Nees.in Wall	Acanthaceae	-	Herb
<i>Strophanthus wallichii</i> Decne.	Apocynaceae	-	Shrub
<i>Styrax serrulatus</i> Roxb.	Styraceae	Silver bell	Shrub
<i>Suregada multiflora</i> (A. Juss.) Baill.	Euphorbiaceae	Maricha	Tree
<i>Swietenia mahagoni</i> Jacq.	Meliaceae	Mehogoni	Tree
<i>S. floribunda</i> Griff.	Anacardiaceae	Civit	Tree
<i>Symplocos racemosa</i> Roxb.	Symplocaceae	-	Climber
<i>Synedrella nodiflora</i> (L.) Gaertn.	Asteraceae	-	Herb
<i>Syzygium balsameum</i> (Wight) Walp.	Myrtaceae	Bhutijam	Tree
<i>S. claviflorum</i> (Roxb.) A.M. Cowan & J.M. Cowan	Myrtaceae	Nalijam	Tree
<i>S. cumini</i> (L.) Skeels	Myrtaceae	Kalojam	Tree
<i>S. firmum</i> Thw.	Myrtaceae	Dhakijam	Tree
<i>S. formosum</i> (Wall.) Masamune	Myrtaceae	Panijam	Tree
<i>S. fruticosum</i> DC.	Myrtaceae	Bhutijam	Tree
<i>S. syzygioides</i> (Miq.) Merr. & L. M. Perry	Myrtaceae	Khajjam	Tree
<i>Tabernaemontana corymbosa</i> Roxb. ex Wall.	Apocynaceae	Tagar	Shrub
<i>T. recurvata</i> Roxb.	Apocynaceae	Tagar	Shrub
<i>Tacca integrifolia</i> Ker-Gawl.	Taccaceae	Mati munda	Herb
<i>Tamarindus indica</i> L.	Campanulaceae	Tentul	Tree
<i>Tapiria hirsuta</i> Hook. f	Anacardiaceae	-	Herb
* <i>Tectona grandis</i> L. f.	Verbenaceae	Segun	Tree
<i>Tephrosia purpurea</i> (L.) Pers.	Fabaceae	Bon-neel	Herb
* <i>Terminalia arjuna</i> (Roxb. ex DC.) Wight & Arn.	Combretaceae	Arjun	Tree
<i>T. bellirica</i> (Gaertn.) Roxb.	Combretaceae	Bohera	Tree
* <i>T. catappa</i> L.	Combretaceae	Katbadam	Tree
<i>T. chebula</i> Retz.	Combretaceae	Haritoki	Tree
<i>Tetracera sarmentosa</i> (L.) Vahl subsp. <i>andamanica</i> (Hoogl.) Hoogl.	Dilleniaceae	Challalata	Climber
<i>Tetrameles nudiflora</i> R. Br.	Datisceae	Chundul	Tree
<i>Tetragium angustifolium</i> (Roxb.) Planch.	Vitaceae	Nekung riubi	Climber
<i>Thunbergia fragrans</i> Roxb.	Acanthaceae	-	Climber
<i>T. grandiflora</i> (Roxb. ex Rottler) Roxb.	Acanthaceae	Nekung riubi	Climber

Table 1 contd.

Scientific name	Family	Bangla name	Habit
<i>Thysanolaena maxima</i> (Roxb.) O. Kuntze	Poaceae	Phuljharu	Herb
<i>Tinospora cordifolia</i> (Willd.) Hook. f. & Thoms.	Menispermaceae	Ghora gulancha	Climber
<i>T. crispa</i> (L.) Hook. f. & Thoms.	Menispermaceae	Gulancha	Climber
<i>Toona ciliata</i> M. Roem.	Meliaceae	Toon	Tree
<i>Torenia vegans</i> Roxb.	Scrophulariaceae	-	Herb
<i>Trema orientalis</i> (L.) Blume	Ulmaceae	Gobar jiga	Tree
<i>Trevesia palmata</i> (Roxb.) Vis.	Araliaceae	-	Shrub
<i>Trewia nudiflora</i> L.	Euphorbiaceae	Pitali	Tree
<i>Triumfetta rhomboidea</i> Jacq.	Tiliaceae	Banokra	Herb
<i>Tylophora tenuissima</i> (Roxb.) Wight & Arn.	Asclepiadaceae	-	Climber
<i>Uraria lagopoides</i> DC.	Fabaceae	-	Herb
<i>U. rufesens</i> (DC.) Schind.	Fabaceae	-	Shrub
<i>Urena lobata</i> L.	Malvaceae	Banokra	Herb
<i>U. sinuata</i> L.	Malvaceae	-	Herb
<i>Urginea indica</i> (Roxb.) Kunth	Liliaceae	Sumudra pyaj	Herb
<i>Uvaria hamiltonii</i> Hook. f. & Thom.	Annonaceae	Latkan	Climber
<i>Vernonia patula</i> (Dry) Merr.	Asteraceae	Shial lata	Herb
<i>Vitex altissima</i> L. f.	Verbenaceae	Monwal	Tree
<i>V. trifolia</i> L. f.	Verbenaceae	Chotonishinda	Shrub
<i>V. glabrata</i> R. Br.	Verbenaceae	Ashal	Tree
<i>V. peduncularis</i> Wall. ex Schauer	Verbenaceae	Horina	Tree
<i>Vitis repens</i> (Lamk.) Wight & Arn.	Vitaceae	Marmaria puta	Climber
<i>Walsura robusta</i> Roxb.	Meliaceae	Bonlichu	Tree
<i>Woodfordia fruticosa</i> (L.) Kurz	Lythraceae	Dhatri-phul	Shrub
<i>Xanthium indicum</i> Koen. ex Roxb.	Asteraceae	Ghagra	Herb
<i>Xanthophyllum flavescens</i> Roxb.	Xanthophyllaceae	Gandi	Tree
* <i>Xanthosoma violaceum</i> Schott	Araceae	Dud kachu	Herb
<i>Zanthoxylum rhesta</i> (Roxb.) DC.	Rutaceae	Bazna	Tree
* <i>Zea mays</i> L.	Poaceae	-	Herb
<i>Zingiber montanum</i> (Koen.) Dietr.	Zingiberaceae	Paletara	Herb
<i>Z. roseum</i> (Roxb.) Rosc.	Zingiberaceae	Laltara	Herb
<i>Ziziphus funiculosa</i> Buch.-Ham. ex Lawson	Rhamnaceae	-	Shrub
<i>Z. glabrata</i> Heyne ex Roth	Rhamnaceae	Jangli kul	Climber
* <i>Z. mauritiana</i> Lamk.	Rhamnaceae	Boroi	Tree
<i>Z. oenoplia</i> (L.) Mill.	Rhamnaceae	Kankra	Shrub

The sanctuary also covered a narrow strip of mangrove vegetation at the eastern face of the hill range towards Naf river. Such vegetation is dominated by *Aegialitis rotundifolia*, *Avicennia officinalis*, *Sonneratia apetala*, *Dalbergia spinosa* and *Acanthus ilicifolius*. Rare occurrence of *Heritiera fomes*, *Aegiceras corniculata* and *Bruguiera gymnorrhiza* are also recorded in the area. A small patch of *Nypa fruticans* vegetation has been observed in north corner of mangrove strip vegetation. Tiger fern is also observed in the area. In the western side of hill range a special habitat called sand dune is located and the most common species are *Ipomoea pes-caprae*, *Vitex trifolia* and *Pandanus foetidus*.

During the field observations and discussion with foresters and local people, we could identify a number of threats to plant diversity. These are illegal logging, political influence in illegal logging and encroachment, Rohynga pressure, brickfield in sanctuary area, cutting of plantlets for betel leaf cultivation, new road construction, fragmentation, over ambitious foresters, inadequate manpower in the forest department in terms of forest area and minor products collections including fire wood. All such threats are enough to eliminate remaining plant diversity from the sanctuary.

For the sustainable conservation of angiosperm diversity in Teknaf wildlife sanctuary, the following recommendations have been made. Database for all species need to be made first, otherwise we will lose some of the plants before their introduction to science. Set priority for species those are sensitive to disturbance and locate them in the habitat using Geographical Information System (GIS) technique. Much effort should be given to increase their number using different propagation techniques either *in situ* or *ex situ* conditions. Effort should be made to give alternate source of income for forest products dependent people. Forest and biodiversity protection act should be implemented for over ambitious people who destroy in different ways the ability of ecosystems to support biodiversity. In 2010, the status of area has been shifted to the wildlife sanctuary because of the presence of Asian wild threatened elephant. A small part of the sanctuary has also been declared as nature Reserve Park to gain public support for biodiversity conservation. The present list of plant biodiversity (535 species) is still considered as preliminary. There might be some more species yet to be listed and few specimens remain unidentified. Based on the field observations and present preliminary results it may be concluded that the sanctuary is rich in the plant diversity and the sanctuary is the home for so many threatened plant species in context of Bangladesh. Field observation also confirmed that regeneration of tree species in the habitat is severely hampered because of anthropogenic pressure and minor product collections. Invasive species such as *Urena lobata*, *Mikania cordata*, *Chromolaena odorata* etc. are another challenge to future regeneration of forest trees in the disturbed areas. The study suggests for further long term research to focus all aspects of plant biodiversity to help in making proper management plan for this sanctuary.

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