

PRELIMINARY TAXONOMIC STUDY ON HOMESTEAD FLORA OF FOUR DISTRICTS OF BANGLADESH: MAGNOLIOPSIDA

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Abstract

This study has documented the contemporary taxonomic information on the species of the class Magnoliopsida (Dicotyledons) extant in the homestead areas of Dhaka, Gazipur, Manikganj and Tangail districts of Bangladesh. In these areas, the Dicotyledons are comprised of total 455 species under 302 genera belonging to 78 families. Fabaceae with 41 species is the largest family and *Solanum* and *Lindernia* are the largest genera. Total 238 species are herbs followed by 129 species of trees and 88 species of shrubs. Total 332 species are economically useful. The composition and distribution of the species of this plant group are remarkably variable in the homestead areas of the four districts. The current status of seven threatened species viz., *Abroma augusta*, *Andrographis paniculata*, *Aniseia martinicensis*, *Mucuna bracteata*, *Pterocarpus santalinus*, *Rauvolfia serpentina* and *Tournefortia roxburghii*, included in the Red Data Book of Bangladesh and extant in the study area, has been evaluated and described. This study has identified some threats to the homestead flora and formulated some recommendations for the conservation of threatened and declining native plant species of the study area. The data provided by this study will serve as an important baseline to track the trend of changes in the floristic composition and diversity and sustainable development of plant genetic resources in the homesteads of the study area.

Introduction

Dicotyledons are the most successful and dominant plant group (Heywood, 1993). They comprise about 62.5% of the total angiosperm species (ca. 400000) recorded from this planet so far (Leitch and Leitch, 2008). Dicots are the major biotic component of almost all ecosystems and essential for human being as the source of food, cloths, shelter, medicines, fodder and many other substances used in different purposes worldwide. Bangladesh is endowed with about 5,000 species of flowering plants, of which more than two third are Dicotyledonous (Khan, 1972-1987). Dicot plants dominate the forests, village groves and woodlands of Bangladesh (Khan and Afza, 1968; Khan and Banu, 1969; Khan, 1972-1987).

Homesteads are privately owned dwellings in the rural and semi-urban settings that typically consist of a living area, kitchen, backyard, front yard, and sometimes a pond and patio (Muhammed *et al.*, 2011). A homestead forest, or “homegarden”, is usually a complex mixture of deliberately planted vegetation and designed to produce natural products for the household uses or market sale. It is an operational unit, in which a number of crops are grown with livestock, poultry and fish production mainly for the purpose of the farmer’s basic needs (Leuschner and Khaleque, 1987). Bangladesh has 15.4 million homesteads occupying 0.3 million hectares of land that are providing major requirement of food, fruit, vegetables, timber and fuel wood (Abedin and Quddus, 1990). Plants of the homesteads are receiving increasing attention from scientists, practitioners and policymakers because of their social, economic, ecological and environmental benefits (Alam, 2011).

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In Bangladesh, there is no specific management plan for the homestead forests (FAO, 2010) and the household owners are traditionally managing these. It is estimated that about 70% of timber, 90% of firewood, 48% of sawn and veneer logs, and almost 90% of bamboo requirements are met from homestead forests (Uddin *et al.*, 2002). During the last 40–50 years, the relative importance has shifted from the traditional forestry to homestead plantation (Roy *et al.*, 2013).

Previously some detail floristic studies (Hooker, 1872-1897; Prain, 1903; Khan, 1972-1987; Ahmed *et al.*, 2008-2009) were carried on covering the political boundary of Bangladesh. Many taxonomic inventories (Khan *et al.*, 1977; Khan *et al.*, 1985; Huq, 1986, 1988; Alam *et al.*, 2006; Rahman *et al.*, 2012; Rahman, 2013; Rahman *et al.*, 2013; Rahaman *et al.*, 2015; Shetu *et al.* 2018; Tabassum, 2015) were also performed in different urban and rural areas of this country. However, these studies do not provide specific data on the homestead forests or floras of the study area.

A good number of studies (Bashar, 1999; Uddin *et al.*, 2002; Alam *et al.* 2005; Masum *et al.*, 2008; Kabir and Webb, 2009; Miah and Hussain, 2010; Alam, 2011; Muhammed *et al.*, 2011; Muhammed *et al.*, 2013; Islam *et al.*, 2013; Rahman *et al.*, 2013; Roy *et al.*, 2013; Islam *et al.*, 2015; Rahaman *et al.*, 2015; Sajib *et al.*, 2016) were carried out on the homestead forests in different regions of Bangladesh. However, the homestead floras of Dhaka, Manikganj, Gazipur and Tangail regions are not yet studied. This study was carried out to provide basic and recent taxonomic information on the species of the class Magnoliopsida (Dicotyledons) extant in the visited homestead areas of Bangladesh.

Materials and Methods

The study area lies in Dhaka, Gazipur, Manikganj and Tangail districts, that are located in central Bangladesh, in between 23°38'-24°48'N and 89°41'-90°42'E and composed of an area of about 8067.97 sq km. This study was conducted during 2013 to 2018 based on a thorough taxonomic inventory involving 240 field trips to 1120 representative homestead areas belonging to 40 villages of 20 upazilas under the four districts in different seasons (Fig. 1).

Following a preliminary reconnaissance survey, four categories of homesteads *viz.*, old joint, old isolated, and new joint and new isolated, were selected from each district for better representation. The selected old homesteads were more than 20 years to 80 years old and the new ones were more than five years to less than 20 years old. The homesteads of each district were equal in number, more or less homogenous and from plain land areas to promote the reasonable comparison. Representative specimens with flowers and fruits were collected during the field trips. Routine herbarium methods (Jain and Rao, 1977) have been followed in collecting, preparing, pressing, drying, mounting, and storing the plant specimens.

All plant specimens were identified through consulting with the experts, taxonomic descriptions and keys available in the relevant literature (Hooker, 1872–1897; Wu *et al.*, 1995–2013), and matching with relevant voucher specimens preserved at Jahangirnagar University Herbarium (JUH), and Bangladesh National Herbarium (DACB). Nomenclatural information were verified through consulting TROPICOS (2010), The Plant List (2013), International Plant Names Index (2015) and the recent floras (Wu *et al.*, 1995–2013; Watson *et al.*, 2011). The families have been arranged following Cronquist (1981). The families Phyllanthaceae and Putranjivaceae, not included in Cronquist (1981)'s System, are placed besides their close family Euphorbiaceae. All genera and species are presented alphabetically. All voucher specimens are housed at JUH. The similarities in species composition in the homesteads of four districts have been measured following Jaccard coefficient (Jaccard, 1912). The threatened status of the species in the homesteads of the study area was recognized based on their existing population

size, distribution range, and regeneration in the area, collections, interviews with elderly local people, and consulting the relevant IUCN guidelines (IUCN Standards and Petitions Committee, 2019).

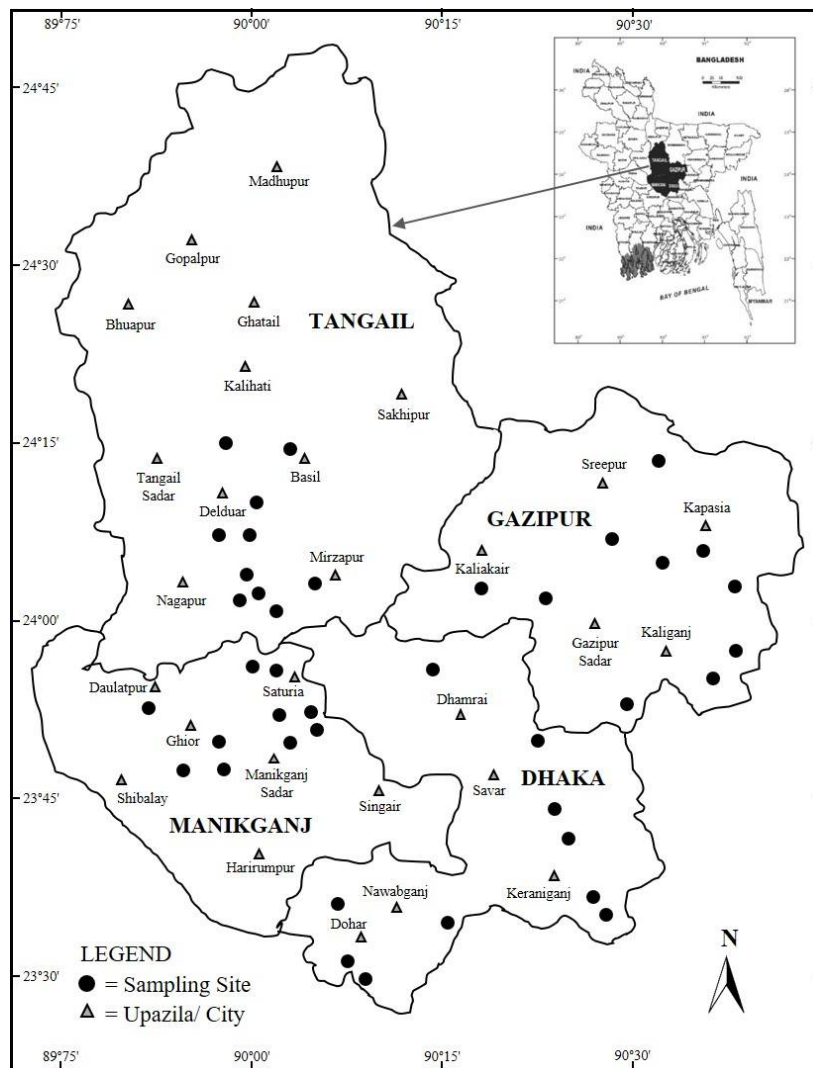


Fig. 1. Map showing the location of the the study area (Tangail, Gazipur, Manikganj and Dhaka districts) and sampling sites.

Results and Discussion

This study recorded total 455 species of Magnoliopsida (Dicotyledons) under 302 genera and 78 families from the the visited homestead areas of Dhaka, Gazipur, Manikganj and Tangail districts (Table 1). Twenty three of the families were represented by single species each, 39 families by 2-10 species and only 13 families by 11-20 species. The homesteads of four districts

Table 1. Taxonomic checklist of the species of Magnoliopsida extant in the homestead areas of Dhaka, Gazipur, Manikganj and Tangail districts.

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
ANNONACEAE								
<i>Annona reticulata</i> L.	Nona	D, G, M, T	T	Ah, Fp	C	Fl. May-Jul Fr. Sep-Jan	Fr	GKR2262
<i>A. squamosa</i> L.	Ata	D, G, M, T	T	Ah	C	Fl. Apr-May Fr. Aug-Nov	Fr	GKR0671
<i>Miliusa velutina</i> (A.DC.) Hook.f. & Thomson	Gandhigajari	G, M	T	Ah, Fp	O	Fl. Dec-May Fr. U	Fw	GKR1679
<i>Polyalthia longifolia</i> (Sonn.) Thwaites	Debdaru	D, G, M, T	T	Fp, Rs	C	Fl. Mar-May Fr. Jul-Sep	T	GKR0697
<i>P. suberosa</i> (Roxb.) Thwaites	Hamjam; Murmuri	D, G, M, T	S	Fp, Rs	C	Fl. Sep-Mar Fr. U	W	GKR1106
<i>Uvaria littoralis</i> Blume	Gagh-ranga	G	S	Fp	O	Fl. Jul-Aug Fr. U	W	GKR1133
LAURACEAE								
<i>Cinnamomum tamala</i> (Buch.-Ham.) T. Nees & Eberm.	Tejpata	D, M	T	Ah	O	Fl. Feb-Oct Fr. U	S	GKR0172
<i>C. zeylanicum</i> Blume	Daruchini	M, T	ST	Ah	O	Fl. Apr-Jun Fr. U	S	GKR1572
<i>Litsea glutinosa</i> (Lour.) C.B.Rob.	Kukurchita	D, T	T	Ah, Rs	O	Fl. Apr-May Fr. U	W	GKR2895
<i>L. salicifolia</i> (J. Roxb. ex Nees) Hook. f.	Bara shiyal- buka, Digloti	D, M	T	Rs	O	Fl. Apr-May Fr. U	W	GKR0145
PIPERACEAE								
<i>Peperomia pellucida</i> (L.) Kunth	Luchipata	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Sep-Dec Fr. U	We	GKR0512
<i>Piper betle</i> L.	Pan	M, T	H	Ah	O	Fl. Apr-May Fr. U	M	GKR1571
<i>P. longum</i> L.	Pipul	D, T	H	Ah, Fp	O	Fl. Aug-Jan Fr. U	M	GKR0045
<i>P. peepuloides</i> Roxb.	wild pepper	M, T	H	Ah, Fp, Rs	O	Fl. Nov-Dec Fr. U	W	GKR1125
<i>P. peploides</i> (Kunth) Poir.	Pipul	D, M	T	Ah	O	Fl. Jun-Aug Fr. Nov-Dec	W	GKR1272
<i>P. sylvaticum</i> Roxb.	Pahari pipul	D	H	Rs	O	Fl. Aug-Sep Fr. U	W	GKR1544
ARISTOLOCHIACEAE								
<i>Aristolochia indica</i> L.	Ishwarmul	G, M, T	H	Ah, Fp, Rs	O	Fl. Jul-Mar Fr. U	M	GKR0038
RANUNCULACEAE								
<i>Ranunculus sceleratus</i> L.	Palik, Podika	M	H	Fp	O	Fl. Feb-May Fr. U	M	GKR0062
MENISPERMACEAE								
<i>Cocculus hirsutus</i> (L.) W. Theob.	Doipata, Jhaljamani	G	H	Fp	O	Fl. & Fr. Through- out the year	M	GKR0334
<i>Stephania japonica</i> (Thunb.) Miers	Nimukha, Aknadi	D, M	S	Ah, Fp, Rs	O	Fl. Mar-Sep Fr. U	M	GKR0095

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
<i>Tiliacora acuminata</i> Miers	Baghlata	G, M, T	S	Ah, Fp, Rs	O	Fl. Apr-Dec Fr. U	M	GKR0122
<i>Tinospora crispa</i> (L.) Hook. f. & Thomson	Gulancha	D	S	Rs	O	Fl. Feb-Jun Fr. U	M	GKR1344
<i>T. sinensis</i> (Lour.) Merr.	China gulancha	G, T	S	Ah, Fp	O	Fl. Feb-Jun Fr. U	M	GKR0304
ULMACEAE								
<i>Holoptelea integrifolia</i> Planch.	nata karanja	G	T	Ah, Fp	O	Fl. & Fr. Dec-Mar	Fw	GKR0359
CANNABACEAE								
<i>Cannabis sativa</i> L.	Gaza	M, T	H	Fp, Rs	O	Fl. Aug-Mar Fr. U	M	GKR0139
<i>Trema orientalis</i> (L.) Blume	Jibon	D, G, M, T	T	Fp, Rs	C	Fl. Sep-Dec Fr. U	M, Fw	GKR0570
MORACEAE								
<i>Artocarpus heterophyllus</i> Lam.	Kanthal	D, G, M	T	Ah, Rs	O	Fl. Jan-Jun Fr. U	Fr, T	GKR 0174
<i>A. lacucha</i> Buch.-Ham.	Dewa	D, G, M, T	T	Ah, Fp, Rs	C	Fl. Feb-May Fr. U	Fr, Fw	GKR2082
<i>Ficus benghalensis</i> L.	Bot	D, G, M, T	T	Fp	C	Fl. May-Jul Fr. U	M, Fw	GKR0310
<i>F. carica</i> L.	Dumur, Anjir	D, G, M, T	T	Ah, Fp	C	Fl. May-Aug Fr. U	M	GKR0079
<i>F. heterophylla</i> L. f.	Bhuidumur	D, G, M, T	S	Ah, Fp, Rs	C	Fl. Nov-Jan Fr. U	Fw	GKR0033
<i>F. hispida</i> L. f.	Kakdumur	D, G, M, T	T	Ah, Fp, Rs	C	Fl. Sep-May Fr. U	Fr, Fw	GKR0577
<i>F. racemosa</i> L.	Jogo dumur	D, G, M, T	T	Ah, Fp, Rs	C	Fl. Feb-May Fr. U	Fr, Fw, M	GKR1763
<i>F. religiosa</i> L.	Ashatha	D, G	T	Ah, Fp	O	Fl. & Fr. Nov-Feb	M	GKR3132
<i>F. rumphii</i> Blume	Pakur	D, M	T	Ah, Rs	O	Fl. Mar-Nov Fr. U	Fw	GKR1324
<i>Morus alba</i> L.	Tut	M	ST	Rs	O	Fl. Apr-Aug Fr. U	M	GKR1243
<i>Premna bengalensis</i> C.B.Clarke	Koya-jarul	D	T	Fp	O	Fl. May-Nov Fr. U	W	GKR1607
<i>Streblus asper</i> Lour.	Sheora	D, G, M	H	Bb, Ep, Fp	O	Fl. & Fr. Feb-Jun	M	GKR1822
URTICACEAE								
<i>Gonostegia hirta</i> (Blume ex Hassk.)Miq.	Unknown	G, M	ST	Ah, Fp, Rs	O	Fl. Jun-Jul Fr. Aug-Sep	M, Fd	GKR0175
<i>Laportea interrupta</i> (L.) Chew	bichuti	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Jul-Sep Fr. U	W	GKR0861
<i>Pilea microphylla</i> (L.) Liebm.	Rockweed	T	H	Ah	O	Fl. Aug-Nov Fr. U	We	GKR1065
<i>Pouzolzia zeylanica</i> (L.) Benn.	Bilati luchipata	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Aug-Dec Fr. U	W	GKR1072

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
NYCTAGINACEAE								
<i>Boerhavia diffusa</i> L.	Punarnova	G, T	H	Ah, Fp, Rs	O	Fl. Nov-Feb Fr. U	M	GKR2156
<i>Mirabilis jalapa</i> L.	Sandhyamaloti	G, M, T	H	Ah, Fp, Rs	O	Fl. Jun-Oct Fr. U	Or	GKR0046
CHENOPODIACEAE								
<i>Chenopodium album</i> L.	Bathuashak	D, G, M, T	H	Ah, Fp	C	Fl. Feb-Mar Fr. U	V	GKR0620
<i>C. ambrosioides</i> L.	Chandanbeto	D, T	H	Ah, Fp	O	Fl. & Fr. Through- out the year	V	GKR0553
AMARANTHACEAE								
<i>Achyranthes aspera</i> L.	Apang, Bilaichra	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Jan-Aug Fr. U	M	GKR0297
<i>Alternanthera paronychioides</i> A.St. Hil.	Jhuli khata	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Jun-Aug Fr. U	W	GKR0051
<i>A. philoxeroides</i> (Mart.) Griseb.	Haicha, Malancha	D, G, M	H	Ah, Fp, Rs	O	Fl. Jan-Sep Fr. U	V	GKR0083
<i>A. sessilis</i> (L.) R.Br. ex DC.	Chanchi	D, G, M, T	H	Ah, Fp, Rs	C	Fl. & Fr. Through- out the year	V	GKR0439
<i>Amaranthus blitum</i> L.	Boutuni	D, G, M, T	H	Ah, Fp	C	Fl. Mar-Jun Fr. U	V	GKR0174
<i>A. gangeticus</i> L.	Data shak	D, M	H	Ah, Fp	O	Fl. Jun-Sep Fr. U	V	GKR0547
<i>A. spinosus</i> L.	Katanotey	D, G, M, T	H	Fp, Rs	C	Fl. Jun-Dec Fr. U	V	GKR0461
<i>A. viridis</i> L.	Notey shak	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Jul-Dec Fr. U	V	GKR0507
<i>Atriplex hortensis</i> L.	Red mountain spinach	D	H	Fp	O	Fl. Jul-Sep Fr. U	M, Or	GKR0656
<i>Celosia argentea</i> L.	Swetmorogphul	D	H	Ah, Fp	O	Fl. Apr-May Fr. U	Or	GKR0568
<i>Cyathula prostrata</i> (L.) Blume	Chhoto Apang	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Sep-Apr Fr. U	M	GKR0166
<i>Enhydra fluctuans</i> DC	Helencha	D	H	Fp	O	Fl. & Fr. Dec-Jan	V	GKR0637
PORTULACACEAE								
<i>Portulaca oleracea</i> L.	Nunia sag	G	H	Rs	O	Fl. & Fr. Through- out the year	V	GKR0388
<i>P. grandiflora</i> Hook.	Time flower	M	H	Rs	O	Fl. & Fr. Through- out the year	Or	GKR0126
BASELLACEAE								
<i>Basella alba</i> L.	Pui sak	D, G, M, T	H	Ah, Fp	C	Fl. Nov-Feb Fr. U	D, V	GKR2614
MOLLUGINACEAE								
<i>Glinus lotoides</i> L.	Duserasag	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Apr-May Fr. U	V	GKR0173
<i>G. oppositifolius</i> (L.) Aug. DC.	Gima-sak	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Feb-Apr Fr. U	M, V	GKR0024
<i>Mollugo pentaphylla</i> L.	Khetpapa	D, M, T	H	Ah, Fp, Rs	O	Fl. & Fr. Through- out the year	W	GKR1110

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
CARYOPHYLLACEAE								
<i>Dianthus caryophyllus</i> L.	Jatasalpar	G, M	H	Fp, Rs	O	Fl. Nov-Jan Fr. U	Or	GKR2903
<i>Polycarpon prostratum</i> (Forssk.) Aschers. & Scheinf.	Gima	G, M	H	Fp, Rs	O	Fl. Mar-Jun Fr. Aug-Sep	W	GKR0178
<i>Stellaria wallichiana</i> Haines	Commom chickweed	G	H	Ah	O	Fl. Feb-Aug Fr. U	M	GKR2037
POLYGONACEAE								
<i>Persicaria assamica</i> (Meisn.) Soják	Bishkathali	D	H	Rs	O	Fl. Jun-Sep Fr. U	M	GKR0154
<i>P. barbata</i> (L.) H.Hara	Bishkathali	M, T	H	Fp, Rs	O	Fl. Nov-Feb Fr. U	M	GKR0169
<i>P. hydro Piper</i> (L.) Delarbre	Bishkatali	D, M	H	Fp, Rs	O	Fl. Mar-Jul Fr. U	M	GKR0428
<i>P. lanata</i> (Roxb.) Tzvelev	Bishkatali	D	H	Ah, Rs	O	Fl. Jun-Sep Fr. U	W	GKR1363
<i>P. minor</i> (Huds.) Opiz.	Bishkatali	M, T	H	Rs	O	Fl. Jan-Mar Fr. U	W	GKR0116
<i>P. orientalis</i> (L.) Spach	Bara Panimarich	D, G, T	H	Fp, Rs	O	Fl. Jun-Oct Fr. U	W	GKR0442
<i>Polygonum chinense</i> L.	Bishkatali	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Nov-Mar Fr. U	M	GKR1843
<i>P. effusum</i> Meissn.	Chemti sag	D	H	Ah, Rs	O	Fl. Mar-Oct Fr. U	W	GKR1029
<i>P. plebeium</i> R. Br.	Khudi bisakamtali	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Mar-Apr Fr. U	W	GKR0586
<i>P. flaccidum</i> Meisn.	Lalbishkatali	D, M	H	Fp, Rs	O	Fl. Aug-Oct Fr. U	M	GKR2372
<i>Rumex dentatus</i> L.	Banpalong	D	H	Ah, Fp	O	Fl. May-Jun Fr. U	W	GKR0446
<i>R. maritimus</i> L.	Gang palong	D, G	H	Ah, Fp, Rs	O	Fl. Feb-May Fr. U	W	GKR0515
PLUMBAGINACEAE								
<i>Plumbago zeylanica</i> L.	Chitrak, Chita	D	S	Ah	O	Fl. Nov-Mar Fr. U	M	GKR1266
DILLENIACEAE								
<i>Dillenia indica</i> L.	Chalta	D, G, M, T	T	Ah, Bb	C	Fl. Jun-Aug Fr. U	Fr, M	GKR1057
ELAEOCARPACEAE								
<i>Elaeocarpus floribundus</i> Blume	Jalpai	D, G, M, T	T	Fp, Hy, Rs	O	Fl. Jul-Aug Fr. U	Fr, O	GKR0067
<i>E. tectorius</i> (Lour.) Poir		T	T	Fp	O	Fl. May-Jun, Fr. Aug-Oct	Fr, O	GKR1496
TILIACEAE								
<i>Corchorus aestuans</i> L.	Banpat	D, G	H	Fp	O	Fl. Aug-Feb Fr. U	We	GKR0239
<i>Grewia tenax</i> (Forssk.) Fiori	Chhoto Assar	D, M	S	Fp, Rs	O	Fl. Feb-Aug Fr. U	H	GKR1275

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
<i>Triumfetta rhomboidea</i> Jacq.	Banokra	D, G, M, T	S	Ah, Fp, Rs	C	Fl. Sep-Nov Fr. U	Fb, M	GKR0305
STERCULIACEAE								
<i>Helicteres isora</i> L.	Rajot, Atmora	G	S	Fp	O	Fl. & Fr. Sep-Mar	M	GKR0332
MALVACEAE								
<i>Abelmoschus moschatus</i> Medik.	Mushakdana, musk okra	D	H	Ah, Fp	O	Fl. Jun-Oct Fr. U	M	GKR1390
<i>Abroma augusta</i> (L.) L.f.	Ulat kambal	T	S	Ah, Fp	CE	Fl. Jun-Oct Fr. U	M	GKR2090
<i>Abutilon indicum</i> (L.) Sweet	Potari	D, M, T	S	Ah, Fp, Rs	O	Fl. Sep-Apr Fr. U	Or	GKR0140
<i>Bombax ceiba</i> L.	Shimul	D, G, M, T	T	Fp, Rs	C	Fl. Jan-Mar Fr. U	Fb, T	GKR1006
<i>Corchorus capsularis</i> L.	Pat	D	S	Ah, Fp, Rs	O	Fl. Oct-Dec, Fr. Feb-Mar	Fb	GKR0556
<i>Fioria vitifolia</i> (L.) Mattei	Ban-carpus	D	S	Fp	O	Fl. Fr. Apr-Dec	W	GKR1662
<i>Gossypium arboreum</i> L.	Karpas	M	T	Fp	O	Fl. Jun-Jul Fr. U	Fb	GKR2623
<i>Grewia multiflora</i> Juss.	Panisara	D, T	ST	Rs	O	Fl. Jul-Sep Fr. U	Fw, W	GKR1335
<i>G. nervosa</i> (Lour.) Panigrahi	Assar/ Datoi	G	ST	Rs	O	Fl. Aug-Apr Fr. U	Fw, M	GKR0744
<i>Hibiscus rosa-sinensis</i> L.	Joba	D, G, M, T	S	Ah, Fp	C	Fl. & Fr. Through- out the year	Or	GKR1526
<i>H. sabdariffa</i> L.	Chukair, Chukur	G	S	Rs	O	Fl. Apr-Jul Fr. U	Fb, V	GKR1954
<i>Malvastrum coromandelianum</i> (L.) Gracke	Broom weed	M	H	Rs	O	Fl. Mar-Sep Fr. U	M	GKR1247
<i>Melochia corchorifolia</i> L.	Banpat	D, G, M, T	S	Ah, Fp, Rs	C	Fl. Jul-Apr Fr. U	Fb	GKR0059
<i>Pentapetes phoenicea</i> L.	Morich joba	D, G, M, T	H	Ah, Fp, Rs	C	Fl. & Fr. Jun-Jan	Fb, Or	GKR0204
<i>Sida acuta</i> Burm. f.	Kureta	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Sep-May Fr. U	M	GKR0184
<i>S. cordifolia</i> L.	Jhunka	M	H	Rs	O	Fl. & Fr. Through- out the year	M	GKR1824
<i>S. mysorensis</i> Wight & Arn.	Berela	G	H	Fp, Rs	O	Fl. Oct-Feb Fr. U	M	GKR0242
<i>S. rhombifolia</i> L.	Berela	D, G, M, T	H	Fp, Rs	C	Fl. Jul-Dec Fr. U	M	GKR0287
<i>Urena lobata</i> L.	Ghagra	D	S	Fp, Rs	O	Fl. Jan-Apr Fr. U	W	GKR0081
LECYTHIDACEAE								
<i>Barringtonia acutangula</i> (L.) Gaertn.	Hijal	D, G, M, T	T	Ep, Fp, Rs	C	Fl. Mar-May Fr. U	Bb, Cw, Rp	GKR0699
CARICACEAE								
<i>Carica papaya</i> L.	Pepe	D, G, M	T	Ah	O	Fl. & Fr. Through- out the year	Fr, M, V	GKR0006

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
CUCURBITACEAE								
<i>Bryonia cochinchinensis</i> Lour.	Boti-jhinga	G	H	Fp, Rs	O	Fl. May-Jul Fr. U	M	GKR1430
<i>Coccinia grandis</i> (L.) Voigt	Telakucha	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Dec-Mar Fr. U	M	GKR1642
<i>Cucumis callosus</i> (Rottler) Cogn.	Tita Bangi	D	H	Fp, Rs	O	Fl. Jul-Jan Fr. U	Fr	GKR1369
<i>C. sativus</i> L.	Sosha	D	H	Fp	O	Fl. Sep-Mar Fr. U	Fr, V	GKR1316
<i>Luffa cylindrica</i> (L.) M. Roem.	Dhundul	D	H	Ah	O	Fl. Feb-Dec Fr. U	V	GKR1348
<i>Momordica charantia</i> L.	Ucche	D, M, T	H	Ah, Fp, Rs	O	Fl. Jun-Sep Fr. U	M, V	GKR0580
<i>M. cochinchinensis</i> (Lour.) Spreng.	Kakrol	G	H	Ah	O	Fl. Jun-Aug Fr. U	V	GKR0296
<i>M. dioica</i> Roxb. ex Willd.	Dharkarolla	D, G, M	H	Ah, Fp, Rs	O	Fl. Jul-Dec Fr. U	V	GKR0794
<i>M. subangulata</i> Blume	Kakrol	D, T	H	Ah, Fp	O	Fl. Jun-Aug Fr. U	V	GKR0662
<i>Mukia maderaspatana</i> (L.) M. Roem.	Agmukhi, Bilari	D, M	H	Fp	O	Fl. & Fr. Throughout the year	M	GKR1647
<i>Trichosanthes cordata</i> Roxb.	Chichinga, Rekha	D	H	Fp	O	Fl. Jul-Aug Fr. U	V	GKR1688
<i>T. dioica</i> Roxb.	Potol	T	H	Rs	O	Fl. Feb-Sep Fr. U	V	GKR1557
<i>T. tricuspidata</i> Lour.	Makal	M	H	Ah	O	Fl. & Fr. Through- out the year	W	GKR1394
<i>Zehneria japonica</i> (Thunb.) H.Y. Liu	Rakhalshasha	M	H	Rs	O	Fl. Apr-Jul Fr. U	M	GKR0084
<i>Z. thwaitesii</i> (Schweinf.) C. Jeffrey	Unknown	M	H	Ah, Fp	O	Fl. Aug-Dec Fr. U	W	GKR2503
SALICACEAE								
<i>Flacourtia indica</i> (Burm. f.) Merr.	Beuchi, Katai	D, G	S	Rs	O	Fl. & Fr. Nov-Mar	W	GKR1535
<i>F. jangomas</i> (Lour.) Raeus.	Lukluki	D, G, M	ST	Ah, Fp	O	Fl. Mar-Apr. Fr. Aug-Oct	Fr	GKR0342
<i>Salix tetrasperma</i> Roxb.	Boishakhi, Panijama	M	T	Ah	O	Fl. Jan-Feb Fr. U	Fw	GKR0158
CAPPARACEAE								
<i>Capparis zeylanica</i> L.	Asarilata,	G, T	S	Ah, Fp, Rs	O	Fl. Mar-May Fr. U	M	GKR0375
<i>Cleome rutidosperma</i> DC.	Begunihurhure y	D, G	H	Ah, Fp, Rs	O	Fl. May-Nov Fr. U	W	GKR0491
<i>Crateva magna</i> (Lour.) DC.	Bonna	D, G, M, T	T	Ep, Rs	C	Fl. Mar-Apr Fr. U	Fw	GKR1528
BRASSICACEAE								
<i>Brassica napus</i> L.	Sorisha	G, M	H	Ah, Fp	O	Fl. Mar-Aug Fr. U	O	GKR0151

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
<i>B. nigra</i> (L.) K.Koch	Kalo Sarisha, Rai Sarisha	D, G, M	H	Ah	O	Fl. Mar-May Fr. U	O	GKR0718
<i>Rorippa indica</i> (L.) Hiern	Bon Sorisa	D, G, M	H	Ah, Fp, Rs	O	Fl. Mar-Apr Fr. U	W	GKR0455
MORINGACEAE								
<i>Moringa oleifera</i> Lamk.	Sajna	D	T	Ah, Ep, Fp	O	Fl. Jan-Mar Fr. U	M, V	GKR0572
SAPOTACEAE								
<i>Chrysophyllum cainito</i> L.	Star apple	D, M	T	Ah, Rs,	O	Fl. Jul-Aug Fr. U	Fr, Fw, T	GKR1331
<i>Madhuca longifolia</i> (J.Koenig ex L.) J.F.Macbr.	Mohua	M	T	Hy	O	Fl. Mar-May Fr. U	M	GKR1932
<i>Manilkara zapota</i> (L.) P.Royen	Safeda	D, G, M, T	T	Ah, Fp	C	Fl. Aug-Oct Fr. U	Fr	GKR0118
<i>Mimusops elengi</i> L.	Bokul	D, G, M, T	T	Ah	C	Fl. Mar-Jun Fr. U	Or	GKR1702
EBENACEAE								
<i>Diospyros discolor</i> Willd.	Bilati gab	D, G, M, T	H	Bb, Fp, Rs	C	Fl. May-Aug Fr. U	Fr, T	GKR0034
<i>D. montana</i> Roxb.	Tomal	D, T	T	Fp, Rs	O	Fl. Mar-Apr Fr. U	T	GKR0658
<i>D. malabarica</i> (Desr.) Kostel.	Deshi gab	D, G, M, T	T	Ah, Bb, Fp	C	Fl. May-Jun Fr. U	Fr, M, T	GKR0715
<i>D. peregrina</i> (Gaertn.) Gürke	Gab	M	T	Ah	O	Fl. Jan-Feb Fr. U	D, M	GKR1586
<i>D. philippinensis</i> A.DC	Bilatigab	D, T	T	Fp, Rs	O	Fl. Apr-Jun Fr. U	Fr	GKR1498
MYRSINACEAE								
<i>Ardisia humilis</i> Vahl	Banjam	G, M	S	Fp, Rs	O	Fl. Mar-Dec Fr. U	M	GKR0019
PRIMULACEAE								
<i>Androsace umbellata</i> (Lour.) Merr.	Unknown	D, M	H	Rs	O	Fl. Feb-Apr Fr. U	W	GKR0125
CRASSULACEAE								
<i>Kalanchoe pinnata</i> (Lam.) Pers.	Patharkuchi	D, G, M	H	Ah	O	Fl. Jan-Mar Fr. U	M	GKR2490
ROSACEAE								
<i>Rosa chinensis</i> Jacq.	Golap	D	S	Ah	O	Fl. Apr-Sep Fr. U	Or	GKR1526
MIMOSACEAE								
<i>Mimosa pudica</i> L.	Lajjabati	D, G	H	Fp, Rs	O	Fl. Nov-Mar Fr. U	M	GKR0414
CAESALPINIACEAE								
<i>Senna occidentalis</i> (L.) Link	Barakalkasunda	D, G	S	Fp, Rs	O	Fl. & Fr. Through- out the year	M	GKR0721
<i>S. sophera</i> (L.) Roxb.	Chhotokalkasunda	D, G	H	Fp, Rs	O	Fl. Nov-Feb Fr. U	M	GKR0232
<i>S. tora</i> (L.) Roxb.	Kalkasunda	D, G, M, T	H	Fp, Rs	C	Fl. & Fr. Through- out the year	M	GKR1118

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
FABACEAE								
<i>Acacia auriculiformis</i> Benth.	Akashmoni	D, G, M	T	Fp, Rs	O	Fl. Dec-Mar Fr. U	T	GKR1067
<i>A. nilotica</i> (L.) Delile	Babla	G, M	T	Fp, Rs	O	Fl. Jul-Dec Fr. U	M	GKR2014
<i>Albizia lebbek</i> (L.) Benth.	Sirish, Kalokoroi	D, G, M	T	Ah, Rs	O	Fl. Mar-May, Fr.- Aug-Oct	T	GKR0508
<i>A. lucida</i> Benth.	Motor Koroi, Potka Siris	D, G	T	Rs	O	Fl. Jun-Jul Fr. U	T, Fw	GKR0336
<i>A. procera</i> (Roxb.) Benth.	Sada Siris,Koroi	D, G, M, T	T	Fp, Rs	C	Fl. Sep-Feb Fr. U	T	GKR0641
<i>A. richardiana</i> (Voigt) King & Prain	Gagansirish, Rajkoroi	D, G, M, T	T	Fp, Rs	C	Fl. Mar-May Fr. U	T	GKR1705
<i>A. saman</i> (Jacq.) Merr.	Raintree	D, G, M, T	T	Fp, Rs	C	Fl. Mar-Jun Fr. U	T	GKR1246
<i>Alysicarpus ovalifolius</i> (Schum.) Leonard	False moneywort	T	H	Fp, Rs	O	Fl. Jun-Sep Fr. U	W	GKR1071
<i>Arachis hypogea</i> L.	Cheenabadam	D	H	Fp	O	Fl. Jul-Aug Fr. U	O	GKR1367
<i>Bauhinia acuminata</i> L.	kanchan	D, G, M, T	S	Fp, Rs	C	Fl. Apr-May Fr. U	M	GKR1525
<i>Butea monosperma</i> (Lam.) Taub.	Palash	G, M, T	T	Ah	O	Fl. Feb-Apr Fr. U	M, Re	GKR2047
<i>Cajanus cajan</i> (L.) Millsp.	Arhar	G, M, T	H	Ah, Rs	O	Fl. Dec-Mar Fr. U	C	GKR0164
<i>Canavalia ensiformis</i> (L.) DC.	Jack bean	D	H	Ah	O	Fl. May-Oct Fr. U	V	GKR1630
<i>Cassia fistula</i> L.	Sonalu, Bador lathi	D, G, M, T	H	Fp	C	Fl. Mar-Sep Fr. U	M, Or, T	GKR1564
<i>Clitoria ternatea</i> L.	Oporazita	M	H	Rs	O	Fl. Mar-May Fr. U	M, Or	GKR1839
<i>Crotalaria juncea</i> L.	Jhunjuni	D, T	H	Rs	O	Fl. Jul-Sep Fr. U	Fb	GKR1678
<i>C. pallida</i> Ait.	Jhunjuni	D, G, T	H	Fp, Rs	O	Fl. Sep-Jan Fr. U	W	GKR1675
<i>Dalbergia sissoo</i> DC.	Sissoo	D, G, M, T	T	Fp, Rs	C	Fl. Mar-Jul Fr. U	T	GKR1673
<i>Delonix regia</i> (Hook.) Raf.	Krishnachura	D, G, M, T	T	Bb, Fp, Rs	C	Fl. Mar-Oct Fr. U	Or	GKR1089
<i>Desmodium gangeticum</i> (L.) DC.	Salpani	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Oct-Dec Fr. U	M	GKR0299
<i>D. motorium</i> (Houtt.) Merr.	Turup Chandal	M	H	Fp	O	Fl. Oct-Jan Fr. U	M	GKR1864
<i>D. triflorum</i> (L.) DC.	Kulaliya	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Jul-Dec Fr. U	W	GKR1059
<i>Erythrina fusca</i> Lour.	Palita mandar	M, T	T	Ah, Rs	O	Fl. Feb-Apr Fr. U	W	GKR1840
<i>E. orientalis</i> Murray	Mandar/Parijat	D, G, M, T	T	Ah, Fp, Rs	C	Fl. Jul-Nov Fr. U	W	GKR0953

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
<i>E. stricta</i> Roxb.	Mandar	D, G	T	Ah, Fp	O	Fl. Jan-May Fr. U	W	GKR1317
<i>Lablab purpureus</i> (L.) Sweet	Shim	G	H	Fp	O	Fl. Jul-Sep Fr. U	V	GKR1992
<i>Lathyrus aphaca</i> L.	Kasari	M	H	Rs	O	Fl. Feb-Apr Fr. U	C	GKR0220
<i>Leucaena leucocephala</i> (Lam.) de Wit	Ipil-Ipil	D, G, M, T	T	Fp, Rs	C	Fl. Apr-Jul Fr. U	Fw	GKR1396
<i>Medicago lupulina</i> L.		T	H	Ah, Fp	O	Fl. Apr-Aug Fr. U	W	GKR1633
<i>Mucuna bracteata</i> DC. ex Kurz	Unknown	D	S	Rs	E	Fl. Jan-Apr Fr. U	W	GKR1270
<i>M. pruriens</i> (L.) DC.	Alkushi	G	H	Fp	O	Fl. Sep-Oct Fr. Oct-Nov	M	GKR1997
<i>Pithecellobium dulce</i> (Roxb.) Benth.	Gilapi fal	D, M	T	Ah, Rs	O	Fl. Dec-Feb Fr. U	Fd, Fw	GKR1386
<i>Pterocarpus macrocarpus</i> Kurz	Gumbury	D, G	T	Rs	O	Fl. Feb-Apr Fr. U	T	GKR1703
<i>P. santalinus</i> L.f.	Raktachandan	M	T	Ah	CE	Fl. Feb-Apr Fr. U	D, M, O	GKR2510
<i>Senna obtusifolia</i> (L.) Irwin & Barneby	Chakunda, Gol Eski	M, T	H	Rs	O	Fl. Jul-Dec Fr. U	M	GKR2101
<i>Sesbania cannabina</i> (Retz.) Poir.	Dhainchi	D	H	Ah	O	Fl. Jul-Dec Fr. U	W	GKR1282
<i>S. sesban</i> (L.) Merr.	Dhancha	D	S	Fp	O	Fl. & Fr. Sep-Dec	Fo	GKR1327
<i>Tamarindus indica</i> L.	Tentul	D, G, M	T	Bb, Fp, Rs	O	Fl. Apr-Jun Fr. U	Fr, T	GKR1610
<i>Tephrosia purpurea</i> (L.) Pers.	Jangli neel	D	H	Fp	O	Fl. Oct-Dec Fr. U	W	GKR1670
<i>Uraria lagopus</i> DC.	Chakuley, Chakulia	G	H	Rs	O	Fl. Sep-Nov Fr. U	W	GKR0260
<i>Vigna mungo</i> (L.) Hepper	Maskolai	D, M	H	Ah, Fp	O	Fl. Nov-Dec Fr. U	C	GKR1163
LYTHRACEAE								
<i>Ammannia multiflora</i> Roxb.	Many-flower ammannia	T	H	Fp, Rs	O	Fl. & Fr. Sep-Dec	W	GKR2161
<i>A. baccifera</i> L.	Banmarich	M	H	Rs	O	Fl. Sep-Dec Fr. U	W	GKR0214
<i>Lagerstroemia indica</i> L.	Chhotojarul	G, M, T	T	Fp, Rs	O	Fl. Jun-Sep Fr. U	T	GKR2288
<i>L. parviflora</i> Roxb.	Tilajarul	G, T	T	Rs	O	Fl. Feb-May Fr. U	T	GKR2869
<i>L. speciosa</i> (L.) Pers.	Pannyajarul	G	T	Rs	O	Fl. Jun-Aug Fr. U	T	GKR0281
<i>Lawsonia inermis</i> L.	Mehedi	D, G, M, T	T	Ah	C	Fl. Jan-Apr Fr. U	D	GKR0311
<i>Rotala rotundifolia</i> (Buch.-Ham. ex Roxb.) Koehne	Unknown	M	H	Rs	O	Fl. & Fr. Sep-Mar	W	GKR0156

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
MYRTACEAE								
<i>Eucalyptus camaldulensis</i> Dehnhardt	Eucalyptus	D, G, M, T	T	Fp, Rs	C	Fl. Jul-Feb Fr. U	T	GKR1167
<i>Psidium guajava</i> L.	Peyara	D, G, M	T	Ah	O	Fl. Mar-May Fr. U	Fr, M	GKR0030
<i>Syzygium cumini</i> (L.) Skeels	Jam	D, G, M, T	T	Ah	C	Fl. Mar-May Fr. U	Fr, T	GKR3248
<i>S. fruticosum</i> DC.	Putijam	D, G, M, T	T	Fp, Rs	C	Fl. Mar-Apr Fr. U	W	GKR4668
<i>S. samarangense</i> (Blume) Merr. & L.M.Perry	Jamrul	D, G, M, T	T	Fp	C	Fl. Feb-Mar Fr. U	Fr	GKR2108
<i>S. jambos</i> (L.) Alston	Golapjam	D, G, M	T	Ah, Fp	O	Fl. Feb-Apr Fr. U	Fr	GKR1940
PUNICACEAE								
<i>Punica granatum</i> L.	Anar	D, G, M, T	ST	Ah, Hy	C	Fl. May-Jul Fr. U	Fr	GKR3094
ONAGRACEAE								
<i>Ludwigia adscendens</i> (L.) Hara	Keshordam	G	H	Ah, Fp	O	Fl. & Fr. Through- out the year	We	GKR0837
<i>L. hyssopifolia</i> (G. Don) Exell	Panimarich	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Dec-Jan Fr. U	Aq we	GKR0524
<i>L. perennis</i> L.	Banlong	M, T	H	Fp, Rs	O	Fl. & Fr. Through- out the year	We	GKR0086
COMBRETACEAE								
<i>Quisqualis indica</i> (Thunb.) Gagnep.	Madhobilata	D, T	S	Fp, Rs	O	Fl. Mar-Nov Fr. U	Or	GKR1542
<i>Terminalia arjuna</i> (Roxb. Ex DC.) Wight & Arn.	Arjun	M	T	Rs	O	Fl. Apr-Jul Fr. U	M	GKR1861
<i>T. bellirica</i> (Gaertn.) Roxb.	Bohera	D, G	T	Rs	O	Fl. Apr-May Fr. U	M	GKR2006
<i>T. chebula</i> Retz.	Haritaki	D, G, M, T	T	Ah, Fp, Rs	C	Fl. Mar-May Fr. U	M	GKR0330
<i>T. catappa</i> L.	Kat badam	D, M, T	T	Fp, Rs	O	Fl. Mar-Jun Fr. Jul-Sep	M, T	GKR0664
CORNACEAE								
<i>Alangium salviifolium</i> (L.f.) Wangerin	Aikha	D, G, M, T	T	Bb, Fp	C	Fl. Mar-Aug Fr. U	Fw	GKR1153
OLACACEAE								
<i>Olax acuminata</i> Wall, ex Benth.	Unknown	M, T	ST	Rs	O	Fl. Mar-Sep Fr. U	M	GKR0282
LORANTHACEAE								
<i>Dendrophthoe falcata</i> (L. f.) Etting.	Maandaa, Bandha, Pharulla	T	S	Rs	O	Fl. Jan-Feb Fr. U	M	GKR2221
<i>Helixanthera cylindrica</i> (Jack ex Roxb.) Danser	Unknown	D	H	Fp, Rs	O	Fl. Jun-Aug Fr. U	W	GKR1606
PUTRANJIVACEAE								
<i>Putranjiva roxburghii</i> Wall.	Putranjiva	M	T	Rs	O	Fl. Mar-Aug Fr. U	M	GKR1238

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
EUPHORBIACEAE								
<i>Acalypha ciliata</i> Forssk.	Muktajhuri	D, M, T	H	Ah, Fp, Rs	O	Fl. Nov-Aug Fr. U	M	GKR1337
<i>A. indica</i> L.	Muktajhuri	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Mar-Oct Fr. U	M	GKR0467
<i>Baliospermum montanum</i> (Willd.) Muell.-Arg.	Dandi, Danti	D	S	Fp, Rs	O	Fl. Aug-Mar Fr. U	M	GKR0510
<i>Bridelia tomentosa</i> Blume	Khoi, Serai	G, T	S	Rs	O	Fl. & Fr. Through-out the year	W	GKR0250
<i>Chrozophora rotleri</i> (Geiseler) A. Juss. ex Spreng.	Khudi Ojra	D, G	H	Rs	O	Fl. Feb-Aug Fr. U	M	GKR0394
<i>C. plicata</i> (Vahl) A.Juss. ex Spreng.	Karu, Kadu, Chireta	D, M	S	Fp, Rs	O	Fl. Feb-Sep Fr. U	M	GKR0040
<i>Codiaeum variegatum</i> (L.) Rumph. ex A.Juss.	Pata bahar	D, G, M, T	T	Ah, Fp	C	Fl. Mar-Jun Fr. U	Or	GKR0149
<i>Croton bonplandianum</i> Baill.	Banmarich	D, G, M, T	H	Fp, Rs	C	Fl. Nov-May Fr. U	M	GKR0478
<i>C. roxburghii</i> Balakr.	Baragachh, Mashimud, Putla	G, T	H	Rs	O	Fl. & Fr. Through-out the year	M	GKR0339
<i>C. caudatus</i> Geiseler	Climbing Croton	T	S	Rs	O	Fl. Mar-May Fr. U	M	GKR0140
<i>Euphorbia cotinifolia</i> L.	Red Spurge	T	S	Rs	O	Fl. Mar-Jun Fr. Nov-Jan	Or	GKR2190
<i>E. heterophylla</i> L.	milkweed	D	H	Fp	O	Fl. & Fr. Through-out the year	W	GKR0493
<i>E. hirta</i> L.	Dudhia	D, G, M, T	H	Ah, Fp, Rs	C	Fl. & Fr. Through-out the year	M	GKR0486
<i>E. milii</i> Des Moul.	Kontok Mukut	G	S	Rs	O	Fl. Apr-Aug Fr. U	M	GKR0509
<i>E. prostrata</i> Ait.	red euphorbia	D, G	H	Ah, Fp, Rs	O	Fl. Mar-Jun Fr. U	M	GKR0416
<i>E. thymifolia</i> L.	Swetkarni, Swetkan	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Nov-May Fr. U	We	GKR0482
<i>E. tirucalli</i> L.	Lankasij	G	S	Rs	O	Fl. May-Jul Fr. U	M	GKR0798
<i>Excoecaria bicolor</i> (Hassk.) Zoll. ex Hassk.	Laily Majnu	M	S	Rs	O	Fl. Jan-Apr Fr. U	Or	GKR0005
<i>Flueggea microcarpa</i> Blume	Shikori, Sitka, Sitki	M	S	Rs	O	Fl. Mar-Sep Fr. U	W	GKR0082
<i>Glochidion assamicum</i> (Müll. Arg.) Hook. f.	Poniatori, Dostomi	M	S	Fp, Rs	O	Fl. Nov-Feb Fr. U	M	GKR0136
<i>Hevea brasiliensis</i> (Willd. ex A.Juss.) Müll.Arg.	Rubber	D, G, M, T	T	Bb, Fp, Rs	C	Fl. May-Aug Fr. U	R	GKR1628
<i>Jatropha curcas</i> L.	Baghbherenda	D	S	Rs	O	Fl. Apr-Jul Fr. U	M, O	GKR1626
<i>J. gossypifolia</i> L.	Lalbherenda	D	S	Rs	O	Fl. Jul-Sep Fr. U	M	GKR1653

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
<i>J. panduraefolia</i> Andri	Joyti	M	S	Fp, Rs	O	Fl. & Fr. Throughout the year	Or	GKR2089
<i>Macaranga denticulata</i> (Blume) Müll.Arg.	Bura, Ratabura	M, T	T	Fp, Rs	O	Fl. Apr-Jun Fr. May-Oct	Fw, W	GKR1668
<i>M. indica</i> Wight	Chakkulla	D, G	T	Fp	O	Fl. Oct-Dec Fr. U	Fw, W	GKR0571
<i>M. peltata</i> (Roxb.) Müll.Arg.	Chakkula, Burna	D, G, M	T	Fp, Rs	O	Fl. Jan-Feb Fr. U	Fw, T	GKR0352
<i>Mallotus philippensis</i> (Lam.) Müll.-Arg.	Sindur, Kingul, Kamala	T	T	Rs	O	Fl. Jan-Mar Fr. U	M	GKR0295
<i>M. repandus</i> (Willd.) Muell.-Arg.	Bon notoy	G, T	H	Ah, Fp	O	Fl. Mar-May Fr. U	M	GKR0290
<i>Pedilanthus tithymaloides</i> (L.) Poit.	Rangchita	M, T	H	Fp	O	Fl. Jun-Aug Fr. U	Or	GKR0918
<i>Phyllanthus niruri</i> L.	Bhui amla	D, T	S	Rs	O	Fl. Jul-Oct Fr. U	M	GKR1015
<i>Ricinus communis</i> L.	Venna, Reri	D, G, M, T	ST	Ah, Fp, Rs	C	Fl. May-Jun Fr. U	O	GKR0475
<i>Suregada multiflora</i> (A. Juss.) Bail.	Ghotlatkon	G	T	Rs	O	Fl. Mar-May Fr. U	Fw	GKR2026
<i>Trewia nudiflora</i> L.	Latim	D, G, M, T	T	Rs	C	Fl. & Fr. May-Nov	W	GKR0123
PHYLLANTHACEAE								
<i>Antidesma ghaesembilla</i> Gaertn.	Black Currant Tree	M	S	Rs	O	Fl. Mar-Sep Fr. Jun-Dec	Fr	GKR2075
<i>A. acidum</i> Retz.	Mutta, Mathagach	M	S	Rs	O	Fl. Mar-Oct Fr. Jun-Jan	W	GKR0219
<i>Baccaurea motleyana</i> (Müll.Arg.) Müll.Arg.	Lotkon, Bhubhi	D, G, M, T	T	Ah, Bb, Fp	C	Fl. Mar-Oct Fr. U	Fr	GKR0789
<i>Emblica officinalis</i> Gaertn.	Amlaki	M	T	Ah	O	Fl. Feb-May Fr. Jun-Sep	M	GKR1918
<i>Phyllanthus acidus</i> (L.) Skeels	Orboroi	D, G, M, T	T	Ah, Hy	C	Fl. Jan-Jun Fr. Jun-Aug	Ch, M	GKR0065
<i>P. reticulatus</i> Poir.	Chitki, Panseuli	D, G, M, T	S	Ah, Fp, Rs	C	Fl. Jul-Sep Fr. U	W	GKR0087
<i>P. urinaria</i> L.	Hazarmani	G, M, T	H	Fp, Rs	C	Fl. Jul-Oct Fr. U	M	GKR1968
RHAMNACEAE								
<i>Ziziphus mauritiana</i> Lamk.	Kul, Boroi	D, T	T	Rs	O	Fl. Jul-Nov Fr. U	Fr	GKR1611
<i>Z. rugosa</i> Lam.	Bon boroi	T	ST	Rs	O	Fl. Jan-Apr Fr. U	W	GKR0283
VITACEAE								
<i>Ampelocissus barbata</i> (Wall.) Planch.	Jarila-lahari	M	H	Rs	O	Fl. Mar-Sep Fr. U	M	GKR0138
<i>A. latifolia</i> (Roxb.) Planch.	Gowalia Lata, Pani-lata	G, M	H	Ah	O	Fl. May-Jun, Fr. Oct	M	GKR0047
<i>Cayratia japonica</i> (Thunb.) Gagnep.	Bushkiller	D, T	H	Ah, Fp	O	Fl. Mar-Jun Fr. U	M	GKR1540

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
<i>C. trifolia</i> (L.) Domin	Amal-lata	D, G, M, T	S	Ah, Fp, Rs	C	Fl. & Fr. Throughout the year	M	GKR0100
<i>Cissus adnata</i> Roxb.	Alianga lata, Bhatia-lota.	G	S	Fp	O	Fl. Jun-Jul. Fr. Aug-Sep	M	GKR0889
<i>Leea acuminata</i> Wallich ex Clarke	Kukur-jihwa	D	S	Fp	O	Fl. Aug-Oct Fr. U	W	GKR1692
<i>L. macrophylla</i> Roxb. ex Hornem.	Dholsamudra, Hathikani	D	S	Rs	O	Fl. Jul-Sep Fr. U	M	GKR1259
<i>L. robusta</i> Roxb.	Unknown	D, T	S	Ah	O	Fl. Jul-Dec Fr. U	W	GKR1961
<i>Tetragium bracteolatum</i> (Wall.) Planch.	Golgoti lota	D	S	Fp	O	Fl. & Fr. Aug-Oct	W	GKR1683
<i>T. leucostaphylum</i> (Dennst.) Alston	Indian Chestnut Vine	D	S	Fp	O	Fl. Mar-Aug Fr. U	W	GKR1680
<i>Vitis vinifera</i> L.	Angur	M	H	Ah	O	Fl. May-Jul Fr. U	Fr	GKR0121
LINACEAE								
<i>Linum usitatissimum</i> L.	Tisi	M	H	Rs	O	Fl. Jun-Aug, Fr. Jul-Oct	O	GKR0049
SAPINDACEAE								
<i>Cardiospermum halicacabum</i> L.	Latapatkari, Kapalphutki	D	H	Rs	O	Fl. Jul-Feb Fr. U	M	GKR1349
<i>Dimocarpus longan</i> Lour.	Kath litchi	D, G	T	Ah	O	Fl. Apr-Aug Fr. U	Fr	GKR0354
<i>Lepisanthes rubiginosa</i> (Roxb.) Leenh.	Bon lichu, KakJam/ Horina	G, T	T	Rs	O	Fl. Mar-May Fr. U	M	GKR0281
<i>L. senegalensis</i> (Poir.) Leenh.	Gotahorina	D, G	T	Ah, Rs	O	Fl. Nov-Jun Fr. U	M	GKR0728
<i>Litchi sinensis</i> Sonner	Lichu	D, G, M	T	Ah, Fp	O	Fl. Jan-Mar Fr. U	Fr	GKR1103
BURSERACEAE								
<i>Garuga pinnata</i> Roxb.	Kapila, Jum	D	T	Rs	O	Fl. Feb-May Fr. U	W	GKR2604
ANACARDIACEAE								
<i>Lannea coromandelica</i> (Houtt.) Merr.	Jiga, Jika, Jeol	D, G	T	Fp, Rs	O	Fl. & Fr. Jan-May	Re, T	GKR2997
<i>Mangifera indica</i> L.	Aam	D, G, M	T	Fp, Rs	O	Fl. Jan-Mar Fr. May-Jun	Fr, T	GKR0079
<i>Spondias mombin</i> L.	Amra	D, G, M	T	Ah, Fp	O	Fl. Jan-May Fr. U	Fr, M	GKR0239
MELIACEAE								
<i>Aphanamixis polystachya</i> (Wall.) R.Parker	Roina, Pitraj	D, G, M, T	T	Ah, Rs	C	Fl. Oct-Feb Fr. U	O, T	GKR0328
<i>Azadirachta indica</i> A. Juss.	Neem	D, G	T	Rs	O	Fl. Feb-Apr Fr. U	M	GKR0412
<i>Cedrela odorata</i> L.	Cedar	D	T	Ah, Rs	O	Fl. Jan-Jun Fr. U	T	GKR2339
<i>Dysoxylum excelsum</i> blume.	Dingori	T	T	Rs	O	Fl. Dec-Jul, Fr. Jun-Jul	T	GKR0958

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
<i>Khaya anthotheca</i> (Welw.) C.DC.	Lambu	D, G, M	T	Fp, Rs	O	Fl. Sep-Dec Fr. U	T	GKR1021
<i>Swietenia mahogani</i> L.	Mehagoni	D, G, M	T	Fp	O	Fl. Apr-May Fr. U	T	GKR0924
<i>Toona ciliata</i> M.Roem.	Tun	M	T	Rs	O	Fl. & Fr. Feb-May	W	GKR0032
RUTACEAE								
<i>Aegle marmelos</i> (L.) Corr.	Bel	D, G, M, T	T	Ah, Fp, Rs	C	Fl. Mar-Jun Fr. U	Fr, M	GKR1372
<i>Citrus limon</i> (L.) Osbeck.	Goralebu, Baralebu	D, G, M, T	ST	Ah, Fp	C	Fl. & Fr. Throughout the year	M, O	GKR1572
<i>C. grandis</i> (L.) Osbeck	Jambura	D, G, M	T	Ah, Hy	O	Fl. Feb-Apr Fr. U	Fr, M	GKR1743
<i>C. reticulata</i> Blanco	Kamla	T	ST	Fp	O	Fl. Sep-Nov Fr. U	Fr, M	GKR1342
<i>Feronia elephantum</i> Corrêa	Kodbel	D, G, M, T	T	Fp, Rs	C	Fl. Feb-Mar Fr. U	Fr, M	GKR2962
<i>Glycosmis pentaphylla</i> (Retz.) DC.	Motkila, Asheora	D, G, M, T	S	Ah, Fp, Rs	C	Fl. Feb-Apr Fr. U	Fw, M	GKR0054
<i>Murraya koenigii</i> (L.) Spreng.	Curry pata	M	S	Ah, Rs	O	Fl. Mar-May Fr. U	M	GKR1866
<i>M. paniculata</i> (L.) Jack	Kamini	M, T	ST	Ah, Rs	O	Fl. Mar-May Fr. U	Pi	GKR2382
<i>Zanthoxylum rhetsa</i> DC.	Bajna	G	T	Rs	O	Fl. Mar-Nov Fr. U	O	GKR0338
OXALIDACEAE								
<i>Averrhoa carambola</i> L.	Kamranga	M, T	T	Ah	O	Fl. & Fr. Throughout the year	Fr	GKR2535
<i>Oxalis corniculata</i> L.	Amrul	D, G, T	H	Ah, Fp, Rs	O	Fl. Jun-Aug Fr. U	We	GKR0445
APIACEAE								
<i>Centella asiatica</i> (L.) Urban	Thankuni	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Apr-May Fr. U	M	GKR0018
<i>Coriandrum sativum</i> L.	Dhonia	M	H	Rs	O	Fl. Dec-Apr Fr. U	S	GKR0182
<i>Eryngium foetidum</i> L.	Bilatidhanja	D, M, T	H	Fp, Rs	O	Fl. Apr-May Fr. U	S	GKR0729
<i>Oenanthe crocata</i> L.	Water-hemlock	D, T	H	Fp	O	Fl. Jun-Sep Fr. U	P	GKR3404
APOCYNACEAE								
<i>Alstonia scholaris</i> (L.) R. Br.	Chhatim	D, G, M, T	T	Ep, Fp, Rs	C	Fl. Oct-Feb Fr. U	Fw, T	GKR0754
<i>Carissa carandas</i> L.	Koromcha	D, T	S	Ah	O	Fl. Jan-Jun Fr. U	Fr	GKR0320
<i>Gymnema inodorum</i> (Lour.) Decne.	Unknown	D	S	Fp	O	Fl. Jun-Aug Fr. U	M	GKR0141
<i>Holarrhena antidysenterica</i> (L.) Wall	Kurchi	D, G	S	Rs	O	Fl. Apr-Oct Fr. U	M	GKR0353
<i>Ichnocarpus frutescens</i> (L.) W.T.Aiton	Dudhilata	D, M	S	Fp, Rs	O	Fl. Aug-Dec Fr. U	M	GKR0058

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
<i>Nerium oleander</i> L.	Korobi	G, T	S	Hy, Rs	O	Fl. Apr-Sep Fr. U	M	GKR1223
<i>Plumeria obtusa</i> L.	Kathgolop	T	ST	Rs	O	Fl. & Fr. Through- out the year	Or	GKR1078
<i>Rauvolfia serpentina</i> (L.) Benth. ex Kurz	Sarpagandha	D, M	H	Ah, Rs	E	Fl. Apr-Oct Fr. U	M	GKR1277
<i>Tabernaemontana coronaria</i> (Jacq.) Willd.	Tagar	G, M, T	S	Fp, Rs	O	Fl. Apr-Sep Fr. U	Or	GKR1984
<i>T. dichotoma</i> Roxb. ex Wall.	Kath Maloti	D, M	ST	Ah	O	Fl. Apr-Jul Fr. U	Or	GKR2077
<i>Thevetia peruviana</i> (Pers.) K. Schum.	Kalkephul, Halde Korobi	T	ST	Rs	O	Fl. & Fr. Through- out the year	Or	GKR2223
ASCLEPIADACEAE								
<i>Calotropis procera</i> (Aiton) Dryand.	Akonda	D, G, M, T	S	Ah, Rs	C	Fl. Nov-Feb Fr. U	M	GKR0109
<i>Gongronema nepalense</i> (Wall.) Decne.	Unknown	T	S	Fp, Rs	O	Fl. Jun-Jul Fr. U	W	GKR0278
<i>Marsdenia tenacissima</i> (Roxb.) Moon	Chitti, Jitti, Siti	G	S	Rs	O	Fl. Aug-Dec Fr. U	M	GKR1987
SOLANACEAE								
<i>Capsicum frutescens</i> L.	Morich	M, T	H	Ah, Fp	O	Fl. & Fr. Through- out the year	S	GKR1905
<i>Datura metel</i> L.	Kalo Datura	D, M, T	S	Fp, Rs	O	Fl. Mar-Dec Fr. U	M	GKR0223
<i>D. stramonium</i> L.	Datura	D, M, T	S	Ah, Fp, Rs	O	Fl. Jul-Sep Fr. U	M	GKR0490
<i>Nicotiana plumbaginifolia</i> Viv.	Bantamak	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Mar-Aug Fr. U	We	GKR0002
<i>Physalis angulata</i> L.	Unknown	M, T	H	Fp, Rs	O	Fl. Jul-Dec Fr. U	M	GKR0980
<i>P. minima</i> L.	Tepari/Kapalp hutki	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Nov-Feb Fr. Jul-Oct	M	GKR0458
<i>Solanum capsicoides</i> All.	Tita Begun	G	S	Ah	O	Fl. Jun-Aug Fr. U	V	GKR0255
<i>S. melongena</i> L.	Begun	D	H	Rs	O	Fl. Apr-Dec Fr. U	V	GKR1287
<i>S. nigrum</i> L.	Titbegun	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Dec-Mar Fr. U	W	GKR0435
<i>S. sisymbriifolium</i> Lamk.	Kanta Begun	G	H	Ah	O	Fl. May-Aug Fr. U	W	GKR0384
<i>S. surattense</i> Burm. F.	Kantikari	D	H	Fp	O	Fl. Dec-Mar, Fr. Jul-Sep	M	GKR0646
<i>S. torvum</i> Sw.	Tit Begun	D, M, T	H	Ah, Fp, Rs	O	Fl. Feb-Apr, Fr. Aug-Nov	W	GKR1265
<i>S. indicum</i> L.	Phutki Begun	D	H	Fp, Rs	O	Fl. Feb-Apr, Fr. Aug-Nov	M	GKR1663
<i>S. xanthocarpum</i> Schrad. & H. Wendl.	Kantikari	D, G, M	H	Ep, Rs	O	Fl. Jun-Aug Fr. U	M	GKR0479

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
CONVOLVULACEAE								
<i>Aniseia martinicensis</i> (Jacq.) Choisy	Shadamati	M	H	Fp	CE	Fl. Sep-Nov Fr. U	W	GKR2578
<i>Argyrea capitiformis</i> (Poir.) Ooststr.	Unknown	G, M	S	Ah, Fp	O	Fl. Sep-Dec Fr. U	M	GKR0365
<i>Cuscuta chinensis</i> Lam.	China swarnalata	M	H	Fp, Rs	O	Fl. Nov-Mar Fr. U	M	GKR0198
<i>Cuscuta reflexa</i> Roxb.	Swarnalata	G, M	H	Fp, Rs	O	Fl. & Fr. Dec-Feb	M	GKR2533
<i>Evolvulus nummularius</i> (L.)	Bhuikamri, Bhuiokra	D, G, M, T	H	Ah, Fp, Rs	C	Fl. & Fr. Through- out the year	We	GKR0055
<i>Ipomoea alba</i> L.	Moonflower	M, T	H	Rs	O	Fl. Jul-Oct Fr. U	W	GKR0904
<i>I. aquatica</i> Forssk.	Panikalmi	D, G, M, T	H	Ah, Rs	C	Fl. Jun-Aug Fr. U	V	GKR0189
<i>I. batatas</i> (L.) Lamk.	Misti Alu	G, M	H	Fp, Rs	O	Fl. May-Jul Fr. U	V	GKR0211
<i>I. mauritiana</i> Jacq.	Bhumikumra	D, G	H	Ah	O	Fl. Aug-Sep Fr. U	M	GKR1256
<i>Operculina turpethum</i> (L.) Silva Manso	Teorimul	D, M	H	Ah, Rs	O	Fl. Mar-Dec Fr. U	M	GKR0576
<i>Merremia emarginata</i> (Burm. f.) Hallier f.	Indurkani	G	H	Fp, Rs	O	Fl. & Fr. Dec-Apr	M	GKR0791
<i>M. hederacea</i> (Burm. f.) Hallier f.	Sapussunda	D	H	Fp	O	Fl. Fr. Oct-Jan	M	GKR1635
MENYANTHACEAE								
<i>Nymphoides indicum</i> (L.) Kuntze	Chandmala	M	H	Rs	O	Fl. Jul-Sep Fr. U	Aq we	GKR1169
BORAGINACEAE								
<i>Cordia dichotoma</i> G.Forst.	Bowla	D, G, M, T	T	Ah, Ep, Fp	C	Fl. Mar - Apr, Fr. Jul - Aug	Fw, M	GKR0176
<i>C. fragrantissima</i> Kurz	Kaladuti	T	T	Fp	O	Fl. Feb-Mar Fr. U	W	GKR1966
<i>Heliotropium indicum</i> L.	Hatisur	D, G, M, T	H	Fp, Rs	C	Fl. Sep-Mar Fr. U	M	GKR0454
<i>Tournefortia roxburghii</i> C. B. Clarke	Shamshog	M	S	Rs	CE	Fl. Feb-Nov Fr. U	W	GKR1176
VERBENACEAE								
<i>Duranta repens</i> L.	Golden dewberry	G	S	Ah, Fp	O	Fl. & Fr. Through- out the year	M	GKR0345
<i>Lippia alba</i> (Mill.) N.E.Br. ex Britton & P.Wilson	Motmoti, Motkhori	D, G, M	S	Ah, Fp, Rs	O	Fl. & Fr. Through- out the year	W	GKR0090
<i>Phyla nodiflora</i> (L.) Greene	Bhui Okar	D, M, T	H	Ah, Fp, Rs	O	Fl. Nov-Dec Fr. U	M	GKR0559
LAMIACEAE								
<i>Callicarpa arborea</i> Roxb.	Bormala, Makanchi	D	T	Fp	O	Fl. May-Oct, Fr. Oct-Dec	M	GKR1694
<i>Clerodendrum indicum</i> (L.) Kuntze	Bamunhati	D, M	S	Fp, Rs	O	Fl. Sep-Dec Fr. U	M	GKR0465
<i>C. infortunatum</i> L.	Bhant	M, T	S	Rs	O	Fl. Dec-Feb Fr. U	M	GKR1828

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
<i>Gmelina arborea</i> Roxb.	Gamar	D, G, M	T	Fp, Rs	O	Fl. Feb-Apr Fr. May-Jun	T, Mi	GKR2977
<i>Hyptis capitata</i> Jacq.	Bilatitukma	M	S	Fp	O	Fl. Sep-Jan Fr. U	M	GKR0216
<i>H. suaveolens</i> (L.) Poit.	Tukma, Bilatti Tulas	D, M	H	Ah, Fp, Rs	O	Fl. Aug-Feb Fr. U	M	GKR0488
<i>Leonurus sibiricus</i> L.	Raktodrone	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Jul-Sep Fr. U	M	GKR0690
<i>Leucas aspera</i> (Willd.) Link.	Dandakalos	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Nov-Feb Fr. U	M	GKR0248
<i>L. indica</i> (L.) Sm.	Swetdron	G, T	H	Ah, Fp, Rs	O	Fl. Mar-Jul Fr. U	M	GKR0407
<i>L. vestita</i> Benth.	Tita dron	D	H	Fp	O	Fl. Nov-Feb Fr. U	M	GKR1370
<i>Mentha piperita</i> L.	Pudina, Mentha	D, M, T	H	Ah	O	Fl. Apr-Jan Fr. U	M	GKR2393
<i>Ocimum americanum</i> L.	Kalo-tulashi	D, G, T	H	Ah, Fp	O	Fl. & Fr. Through- out the year	M	GKR1614
<i>O. gratissimum</i> L.	Ram tulsi	D, M, T	H	Ah, Fp	O	Fl. Aug-Dec Fr. U	M	GKR1260
<i>O. sanctum</i> L.	Krishnatulsi	D, M, T	H	Ah, Fp	O	Fl. Sep-Mar Fr. U	M	GKR0613
<i>Pogostemon crassicaulis</i> (Benth.) Press	Jui-lata	T	H	Fp	O	Fl. Sep-Dec Fr. U	M	GKR2171
<i>Tectona grandis</i> L.f.	Segun	D, G, M, T	T	Fp, Rs	C	Fl. Aug-Sep Fr. U	T	GKR1281
<i>Teucrium viscidum</i> Blume	Unknown	M, T	H	Ah, Fp, Rs	O	Fl. Jun-Nov Fr. U	W	GKR1060
<i>Vitex negundo</i> L.	Nishinda	D, G, M, T	S	Ah	C	Fl. Feb-Jul Fr. U	M	GKR0077
<i>V. peduncularis</i> Wall. ex Schauer	Boruna, Horina	G	ST	Ah	O	Fl. Feb-Apr Fr. U	M	GKR0354
HYDROCHARITACEAE								
<i>Hydrolea zeylanica</i> (L.) Vahl	Kaschera, Bishlanguli	T	H	Ah, Fp	O	Fl. Nov-Dec Fr. U	We	GKR2203
<i>Ottelia alismoides</i> (L.) Pers.	Panikola	D	H	Fp, Rs	O	Fl. Aug-Oct Fr. U	Aq we	GKR1625
<i>Vallisneria spiralis</i> L.	Patajhanji	D, M	H	Fp	O	Fl. Jun-Oct Fr. U	Aq we	GKR0150
PLANTAGINACEAE								
<i>Emilia sonchifolia</i> (L.) DC. ex DC.	Sadimodi	M	H	Rs	O	Fl. Jul-Dec Fr. U	M	GKR0209
<i>Limnophila aromatica</i> (Lam.) Merr.	Belem	M	H	Rs	O	Fl. Jun-Aug Fr. U	Or	GKR0249
<i>Mecardonia procumbens</i> (Mill.) Small	Garurbramhi	D, M, T	H	Ah, Fp, Rs	O	Fl. Jun-Sep Fr. U	We	GKR0075
OLEACEAE								
<i>Jasminum officinale</i> L.	Jui	M	S	Ah	O	Fl. May-Sep Fr. U	Or	GKR0385

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
<i>J. scandens</i> (Retz.) Vahl	Paharijui	G, M	S	Ah, Fp	O	Fl. Jun-Aug Fr. U	W	GKR0185
<i>Nyctanthes arbor-tristis</i> L.	Shefali, Shiuli	D, G, M	T	Ah, Fp	O	Fl. Sep-Oct Fr. U	D	GKR0480
SCROPHULARIACEAE								
<i>Lindenbergia indica</i> Vatke	Basanti	M	H	Ah	O	Fl. Oct-Jan Fr. U	M	GKR0179
<i>Lindernia anagallis</i> (Burm.f.) Pennell	Panighas	D, G, T	H	Ah, Fp, Rs	O	Fl. Jul-Dec Fr. U	We	GKR0426
<i>L. antipoda</i> (L.) Alston	Sada panighas	M	H	Ah, Fp, Rs	O	Fl. Aug-Oct Fr. U	We	GKR0057
<i>L. crustacea</i> (L.) F. Muell.	Chapraghash	G, T	H	Ah, Fp, Rs	O	Fl. Jul-Aug Fr. U	We	GKR0751
<i>L. elata</i> (Benth.) Wettst.	Unknown	M, T	H	Fp	O	Fl. Jul-Oct Fr. U	We	GKR0148
<i>L. hyssopioides</i> (L.) Haines	Unknown	G, T	H	Ah	O	Fl. Mar-Sep Fr. U	We	GKR0235
<i>L. parviflora</i> (Roxb.) Haines	Unknown	D	H	Fp	O	Fl. Aug-Dec Fr. U	We	GKR0623
<i>L. rotundifolia</i> (L.) Alston	Unknown	T	H	Ah, Fp, Rs	O	Fl. Aug-Nov Fr. U	We	GKR0978
<i>L. viscosa</i> (Hornem.) Merr.	Unknown	M, T	H	Rs	O	Fl. Jul-Oct Fr. U	We	GKR1766
<i>Mazus rugosus</i> Lour.	Unknown	M, T	H	Ah, Fp, Rs	O	Fl. Aug-Dec Fr. U	We	GKR1048
<i>Scoparia dulcis</i> L.	Jangli-dhone, Misridana	D, G, M, T	H	Ah, Fp, Rs	C	Fl. & Fr. Through- out the year	M	GKR0274
ACANTHACEAE								
<i>Andrographis paniculata</i> (Burm.f.) Nees.	Kalomegh, Mohateeta	D, G, M	H	Ah, Fp, Rs	V	Fl. Mar-Dec Fr. U	M	GKR0074
<i>Dipteracanthus patulus</i> (Jacq.) Nees	Spreading Ruellia	G	H	Rs	O	Fl. & Fr. Oct-Feb	We	GKR2038
<i>D. prostratus</i> (Poir.) Nees	Unknown	D, G	H	Ah, Fp, Rs	O	Fl. & Fr. Oct-Apr	We	GKR0348
<i>Ecbolium ligustrinum</i> (Vahl) Vollesen	Green Shrimp Plant	M	H	Fp, Rs	O	Fl. Jan-May Fr. U	M	GKR2138
<i>Hemigraphis hirta</i> (Vahl.) T. Anderson	Buripana, Boratighas	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Jan-May Fr. U	W	GKR0013
<i>Hygrophila polysperma</i> (Roxb.) T. Anders.	Murmuri	D, G, M, T	H	Fp, Rs	C	Fl. Oct-Mar Fr. U	Or	GKR1332
<i>H. phlomooides</i> Nees	Filamo	G	H	Ah	O	Fl. Apr-Aug Fr. U	We	GKR2022
<i>H. schulli</i> (Buch.-Ham.) M. R. & S. N.	Kulekhara	G	H	Rs	O	Fl. Sep-Apr Fr. U	M	GKR0247
<i>H. difformis</i> (L.f.) Blume	Jaljanti	G	H	Ah	O	Fl. Aug-Mar Fr. U	We	GKR2005
<i>Justicia adhatoda</i> L.	Bashok	D, G, M	S	Ah, Fp, Rs	O	Fl. & Fr. Dec-Jun	M	GKR0737
<i>J. gendarussa</i> Burm.f.	Jagotmadan, Nilnishinda	D, G, M, T	S	Ah, Fp, Rs	C	Fl. Jan-Apr Fr. U	M	GKR 0311

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
<i>Nelsonia canescens</i> (Lam.) Spreng.	paramul	G	H	Ah, Fp	O	Fl. Jan-Mar Fr. U	M	GKR0236
<i>Phlogacanthus curviflorus</i> (Wall.) Nees	Tamropuspi Basok	M	S	Fp	O	Fl. Oct-Feb Fr. Feb-May	M	GKR0053
<i>Ruellia tuberosa</i> L.	Patpati	D, G, M, T	H	Ah, Fp, Rs	C	Fl. & Fr. Through- out the year	We	GKR0466
<i>Rungia pectinata</i> (L.) Nees	Pindi	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Nov-Feb Fr. U	We	GKR0035
PEDALIACEAE								
<i>Sesamum indicum</i> L.	Til	D	H	Ah, Fp, Rs	O	Fl. Jun-Jul Fr. U	O	GKR1411
BIGNONIACEAE								
<i>Oroxylum indicum</i> (L.) Kurz	Sona, Kanaidinga	D, M, T	T	Ah, Fp, Rs	O	Fl. Jul-Dec Fr. U	Fw, M	GKR1257
<i>Tecoma gaudichaudii</i> DC.	Hoimonti	M, T	S	Rs	O	Fl. Feb-Apr Fr. U	Or	GKR2105
<i>T. stans</i> (L.) Juss. ex Kunth	Chandaprabha	M	S	Rs	O	Fl. Dec-Feb Fr. U	Or	GKR2093
RUBIACEAE								
<i>Dentella repens</i> (L.) J. R. & G. Forst.	Bhuiapat	D, T	H	Ah, Fp	O	Fl. Mar-Apr Fr. U	We	GKR0481
<i>Gardenia jasminoides</i> J.Ellis	Gandharaj	D, G, M, T	S	Ah	C	Fl. Apr-Aug Fr. U	Or	GKR1011
<i>Hedyotis axillaris</i> Gardner ex Thwaites	Unknown	D, T	H	Ah, Fp	O	Fl. Jul-Oct Fr. U	We	GKR0170
<i>H. racemosa</i> Lam.	Unknown	M	H	Ah, Fp	O	Fl. Jan-Sep Fr. U	We	GKR0071
<i>H. hermanniana</i> R.M.Dutta	Unknown	M	H	Ah, Rs	O	Fl. Jun-Dec Fr. U	We	GKR0020
<i>Ixora coccinea</i> L.	Rangon	G, M, T	S	Fp, Rs	O	Fl. & Fr. Through- out the year	M, Or	GKR0464
<i>Meyna pubescens</i> (Kurz) Robyns	Mainphal	M, T	S	Fp, Rs	O	Fl. Mar-Apr Fr. U	W	GKR2140
<i>Neolamarckia cadamba</i> (Roxb.) Bosser	Kadam	D, G, M, T	T	Fp, Rs	C	Fl. Apr-Aug Fr. U	O, Pi	GKR1209
<i>Oldenlandia corymbosa</i> L.	Khet papra	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Jul-Aug Fr. U	We	GKR0471
<i>O. diffusa</i> (Willd.) Roxb.	Pitpapra	D, G, T	H	Ah, Fp, Rs	O	Fl. Aug-Nov Fr. U	We	GKR0862
<i>O. biflora</i> L.	Damanpapra	M, T	H	Ah, Fp, Rs	O	Fl. & Fr. Through- out the year	We	GKR0500
<i>Ophiorrhiza harrisiana</i> var. <i>rugosa</i> (Wall.) Hook. f.	Jari Ful, Kalashona	D, T	H	Rs	O	Fl. Jun-Aug Fr. U	M	GKR0665
<i>Paederia foetida</i> L.	Gandhyabhadu li	M	H	Rs	O	Fl. Jun-Aug Fr. U	M	GKR0218
<i>Pavetta indica</i> L.	Kukurchura/Ju i	M, T	S	Ah, Rs	O	Fl. Apr-Jul Fr. U	Or	GKR2915
<i>Psilanthus bengalensis</i> (Roxb.) Leroy	Ban Coffe	D, G, T	S	Rs	O	Fl. Feb-May Fr. U	M	GKR0333

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
<i>Richardia scabra</i> L.	Taraphul	D, M	H	Ah, Fp, Rs	O	Fl. Nov-Feb Fr. U	We	GKR0056
<i>Spermacoce articularis</i> L. f.	Bhagajongla	G	H	Fp, Rs	O	Fl. Oct-Dec Fr. U	M	GKR0357
<i>S. exilis</i> (L.O.Williams) C.D.Adams ex W.C.Burger & C.M.Taylor	Unknown	G	H	Ah, Fp	O	Fl. Sep-Oct Fr. U	W	GKR0836
<i>S. latifolia</i> Aubl.	Ghujiil	D, G	H	Fp, Rs	O	Fl. Aug-Oct Fr. U	W	GKR0840
ASTERACEAE								
<i>Acmella radicans</i> (Jacq.) R.K.Jansen	Surjakonnya	G, M	H	Ah, Fp, Rs	O	Fl. Sep-Jan Fr. U	M	GKR1093
<i>Ageratum conyzoides</i> L.	Phulkuri	D, G, M, T	H	Ah, Fp, Rs	C	Fl. & Fr. Through- out the year	M	GKR0165
<i>Blumea lacera</i> (Burm.f.) DC.	Shealmutra, Shealmoti	D, G, M	H	Ah, Fp, Rs	O	Fl. & Fr. Throughout the year	M	GKR0063
<i>Caesulia axillaris</i> Roxb.	Fuilitaghas	D, M, T	H	Fp, Rs	O	Fl. Sep-Nov Fr. U	We	GKR0196
<i>Chromolaena odorata</i> (L.) R.M.King & H.Rob.	Assamlata	D	S	Fp	O	Fl. Nov-May Fr. U	M	GKR0673
<i>Eclipta alba</i> (L.) Hassk.	Kalokeshi, Kesaraj	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Aug-Sep, Fr. Oct-Dec	M	GKR0459
<i>Elephantopus scaber</i> L.	Hastipadi	D, G	H	Fp, Rs	O	Fl. Oct-Jan Fr. U	M	GKR0244
<i>Gnaphalium luteo-album</i> L.	Bara Kamra	G	H	Rs	O	Fl. Jun-Aug Fr. U	We	GKR0427
<i>G. pensylvanicum</i> Willd.	Silvalomi	M	H	Rs	O	Fl. Dec-Jul Fr. U	We	GKR0101
<i>Grangea maderaspatana</i> (L.) Poir.	Nimuti	D, G, M	H	Ah, Fp, Rs	O	Fl. Jan-Aug Fr. U	We	GKR0157
<i>Gynura procumbens</i> (Lour.) Merr.	Diabetes plant	M	H	Ah	O	Fl. Mar-Apr Fr. U	M	GKR1957
<i>Mikania cordata</i> (Burm. f.) B.L.Rob.	Assam lata	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Jun-Aug Fr. U	M	GKR0434
<i>M. scandens</i> (L.) Willd.	climbing hemp	G, M	H	Ah	O	Fl. Jun-Aug Fr. U	Fd, Or	GKR0399
<i>Parthenium hysterophorus</i> L.	Bish gach	M	H	Rs	O	Fl. Jun-Sep Fr. U	P	GKR1228
<i>Pseudelephantopus spicatus</i> (B.Juss. ex Aubl.) Rohr ex C.F.Baker	Dog's-tongue	G, M, T	H	Ah, Fp, Rs	O	Fl. Oct-Dec Fr. U	We	GKR2031
<i>Sonchus arvensis</i> L.	Dhudia	M	H	Fp	O	Fl. Jul-Oct Fr. U	W	GKR0103
<i>Spilanthes calva</i> DC.	Marhatitiga	D, M, T	H	Fp, Rs	O	Fl. Feb-Apr Fr. U	M	GKR1128
<i>S. acmella</i> (L.) L.	Surjakonnya	D, G, M, T	H	Ah, Fp, Rs	C	Fl. Jun-Sep Fr. U	M	GKR0675
<i>Synedrella nodiflora</i> (L.) Gaertn.	Nakphul	D, G, M, T	H	Ah, Fp, Rs	C	Fl. & Fr. Through- out the year	We	GKR0474

(Table contd.)

Scientific Name	Bangla name	District	Habit	Habitat	Occ.	Fl./Fr. Time	Use	RSE
<i>Tagetes erecta</i> L.	Ganda	D, M	H	Fp	O	Fl. Nov-Mar Fr. U	Or	GKR1890
<i>Tridax procumbens</i> (L.) L.	Tridhara	D, G, T	H	Ah, Fp, Rs	O	Fl. & Fr. Through- out the year	We	GKR0484
<i>Vernonia cinerea</i> (L.) Less.	Kukurshunga	D, G, M, T	H	Ah, Fp, Rs	C	Fl. & Fr. Through- out the year	We	GKR0064
<i>Wedelia biflora</i> (L.) DC.	Beach Sunflower	D	H	Fp	O	Fl. & Fr. Through- out the year	Or	GKR0666
<i>W. chinensis</i> (Osbeck) Merr.	Mahavringaraj	D	H	Fp, Rs	O	Fl. & Fr. Through- out the year	Or	GKR0654
<i>Xanthium indicum</i> Koen. ex Roxb.	Ghagra, Banokra	D, G, M	H	Fp, Rs	O	Fl. Mar-Dec Fr. U	M	GKR0517
<i>Youngia japonica</i> (L.) DC.	Unknown	M, T	H	Fp, Rs	O	Fl. Feb-Dec Fr. U	Or	GKR0195

Legend: **District:** D = Dhaka, G = Gazipur, M = Manikganj, T = Tangail; **Habit:** H = Herb, S = Shrub, T = Tree; **Habitat:** Rs = Road side, Ah = Adjoining open area except house yard, Bb = Bamboo bush, Hy = House yard, Ep = Edge of the pond, Fp = Fallow place; **Occ.** (= Occurance): C = Common, CE = Critically Endangered, E = Endangered, O = Occasional, R = Rare, V = Vulnerable; **Fl./Fr. Time:** Fl. = Flowering time, Fr. = Fruiting time, U = Unknown; **Use:** Bb = Boatbuilding, C = Cerals, Ch = Chutney, Cw = Cabinet work, D = Dye, Fb = Fiber, Fr. = Fruit, Fw = Fuel wood, R = Rubber, Re = Resin, Rp = Rice pounders, T = Timber, W = Wild, We = Weed, M = Medicinal, Mi = Musical instrument, Aq we = Aquatic weed, P = Poisonous, Pi = Perfume industry, S = Spice, O = Oil, Or = Ornamental, Fd = Fodder, H = Hedge, V = Vegetable, Wo-Wood; **RSE** = Representative Specimens Examined (All housed in JUH).

were dominated by the herbs (238 species; 52.31%) followed by trees (129 species; 28.35%) and shrubs (88 species; 19.34%). Among these species, 47 were climbers, six vines and four parasites. These data indicate that the homestead areas of central region of Bangladesh still harbour a large number of dicot species and they can serve as the hotspots of the flora and biodiversity of Bangladesh.

The taxonomic enumeration of the species of dicotyledons in the homestead areas of the four districts reported by this study seems lower than the record (605 species) of Tabassum (2015). This is due to the reason that Tabassum (2015) studied this plant group of whole Gazipur district consists of homestead and different non-homestead areas, the total land area of this district is much higher than that of the 1120 homesteads of four districts under this study, and in these homesteads, a good number of the species were overlapping and common. Most of other relevant studies conducted in plain land areas of this country mention the taxonomic account of Angiosperm species instead of dicot species. The enumeration of Angiosperm species by few of these studies (Kabir and Webb, 2009) are relatively higher, whereas, that of few other studies (Begum *et al.*, 2013; Islam *et al.*, 2013; Muhammed *et al.*, 2011, 2013; Rahman *et al.*, 2009) are relatively lower than that of the dicot species by this study.

In the homesteads of the study area, Fabaceae with 41 species of 28 genera was recognized as the largest family that was followed by Euphorbiaceae with 34 species under 19 genera and Asteraceae with 26 species belonging to 22 genera. *Solanum* L. and *Lindernia* All. with eight species each was found as the largest genus in the study area, which was followed by *Ficus* L and *Euphorbia* L. with seven species each, *Persicaria* Mill. with six species and *Albizia* Durazz., *Diospyros* L. and *Piper* L. with five species each.

The composition and distribution of dicot species in the homestead areas of the four districts were remarkably variable. In the homesteads of Dhaka, Gazipur, Manikganj and Tangail districts, the occurrence of total 283, 243, 285 and 223 species, respectively, was confirmed. Among these species, a total of 52, 35, 53 and 20 species were found to occur exclusively in the homesteads of

Dhaka, Gazipur, Manikganj and Tangail, respectively. Whereas, total 231, 208, 231 and 203 species, respectively of Dhaka, Gazipur, Manikganj and Tangail districts, were recorded as overlapping in the remaining three districts. Only 110 species were commonly found in the homesteads of four districts.

The similarity between and among the four districts in species composition of their homesteads measured by Jaccard coefficient shows that (Fig. 2), it is more than 60% in between any two of these districts, whereas, it is only 41% if all of the four districts are considered. The highest similarity in species composition (72%) was found in between Gazipur and Tangail districts, and the lowest (63%) in Dhaka and Manikganj districts.

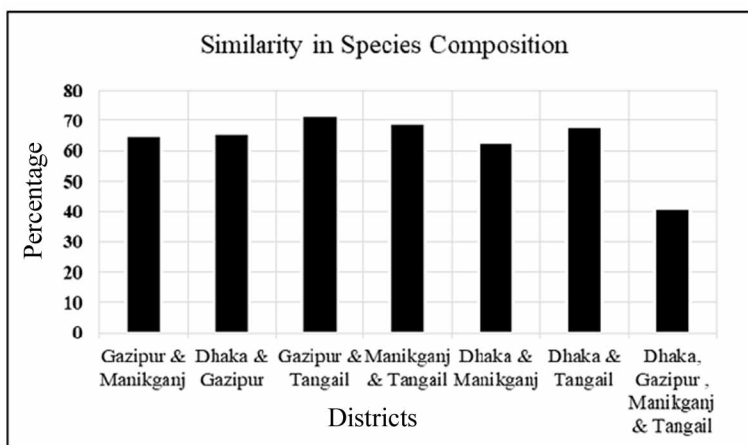


Fig. 2. Similarity in species composition in homesteads of the four districts based on Jaccard coefficient (Jaccard, 1912).

The study has recognized a total of 332 species from the homesteads of the study area of central Bangladesh as economically useful. The major categories of these economically useful species were medicinal (184 species), timber (34 species), fruit (38 species), ornamental (36 species), vegetable (30 species), fuel wood (26 species), oil (14 species), spice (five species) and fiber (eight species). Among the economically useful species of the study area, total 53 species were useful in two and seven species in three economic categories.

Among these, at least 96 tree species (e.g. *Albizia lebbbeck*, *Alstonia scholaris*, *Aphanamix polystachya*, *Barringtonia acutangula*, *Bombax ceiba*, *Lagerstroemia speciosa*, *Lannea coromandelica*, *Miliusa velutina*, *Polyalthia longifolia*, *Syzygium cumini*, *Tamarindus indica*, *Tectona grandis*, and *Trema orientalis*), used as wood or timber, are now native to Bangladesh. Moreover, a good number of medicinal (e.g. *Abroma augusta*, *Azadirachta indica*, *Cinnamomum tamala*, *C. zeylanicum*, *Ficus racemosa*, *F. religiosa*, *Holarrhena antidysenterica*, *Moringa oleifera*, *Ocimum sanctum*, *Ricinus communis*, *Terminalia arjuna*, *T. belerica*, *T. chebula*, *Tiliacora acuminata*, *Tinospora crispa*, *Vitex negundo*, and *Zanthoxylum rhetsa*) and fruit yielding (e.g. *Aegle marmelos*, *Annona reticulata*, *A. squamosa*, *Artocarpus heterophyllus*, *Averrhoa carambola*, *Baccaurea motleyana*, *Carica papaya*, *Citrus grandis*, *C. limon*, *Dillenia indica*, *Diospyros peregrina*, *Flacourtia jangomas*, *Mangifera indica*, *Manilkara zapota*, *Elaeocarpus floribundus*, *Phyllanthus acidus*, *P. reticulatus*, *Psidium guajava*, *Punica granatum*, *Syzygium cumini*, and *Tamarindus indica*) species, harboured in the homesteads of the study area, are also

native to Bangladesh. The occurrence of a good number of timber and fruit species in the homestead areas of the study area is supported by Bashar (1999). But in contrast, the population of about 28% of the native tree species (e.g. *Holarrhena antidysenterica*, *Terminalia belerica*, *T. arjuna*, *Diospyros montana*, *Pithecellobium dulce*, *Macaranga indica*, *Mallotus philippensis*, *Elaeocarpus tectorius*, *Piper peploides*, *Tabernaemontana dichotoma*, *Miliusa velutina*, *Diospyros peregrina*) were found to be declining in the homestead areas of the four districts.

This study has provided field data on the current status of seven threatened species, included in the Red Data Book of Vascular Plants of Bangladesh (Khan *et al.*, 2001; Ara *et al.*, 2013), in the study area (Table 2). The existing population size, number of localities, and estimated Extent of Occurrence (EOO) and Area of Occupancy (AOO) of these species were very narrow (Table 2). Moreover, all of these species were observed with poor regeneration and their localities were under the threats of continuous habitat destruction. Based on these facts, *Abroma augusta* (L.) L.f., *Aniseia martinicensis* (Jacq.) Choisy, *Pterocarpus santalinus* L.f. and *Tournefortia roxburghii* C.B. Clarke have been estimated as Critically Endangered (CE), *Mucuna bracteata* DC. ex Kurz and *Rauvolfia serpentina* (L.) Benth. ex Kurz as Endangered (E), and *Andrographis paniculata* (Burm.f.) Nees. as Vulnerable (V) in the homeatead areas of Dhaka, Gazipur, Manikganj and Tangail districts.

Table 2. Estimated threatened status of seven dicot species included in Red Data Book Bangladesh in the homestead areas of Dhaka, Gazipur, Manikganj and Tangail districts.

Species name	Total no. of individuals	No. of locality	District	EOO (km ²)	AOO (km ²)	Estimated threatened category
<i>Abroma augusta</i>	04	01	Tangail	28	08	Critically endangered
<i>Andrographis paniculata</i>	450	07	Dhaka, Gazipur and Manikganj	1040	35	Vulnerable
<i>Aniseia martinicensis</i>	05	01	Manikganj	35	09	Critically endangered
<i>Mucuna bracteata</i>	45	02	Dhaka	38	20	Endangered
<i>Pterocarpus santalinus</i>	01	01	Manikganj	24	06	Critically endangered
<i>Rauvolfia serpentina</i>	144	02	Dhaka and Manikganj	270	10	Endangered
<i>Tournefortia roxburghii</i>	01	01	Manikganj	24	06	Critically endangered

This study provides basic taxonomic information on all species of dicotyledones including seven threatened species currently occurring in the homesteads area of central region of Bangladesh, which might serve as an important baseline to track the trend of changes in the floristic composition and biodiversity conservation in the homestead areas in course of time and different biogeographical processes. The data provided by this study might be useful in planning, management, conservation and sustainable development of homestead plant genetic resources in Bangladesh.

The increased human population and associated development activities in the last few decades has resulted directly in depletion of natural vegetation, which in turn increase the pressure on the homestead forest especially in the developing countries to meet various needs of the human beings (Alam *et. al.*, 2005). This observation is found to be true in the homestead areas of the four

districts studied. Additionally, habitat fragmentation and depletion, intrusion of exotic (e.g. *Parthenium hysterophorus*, *Mikania cordata*, *Chromolaena odorata*, *Acacia auriculiformis* and *Eucalyptus camaldulensis*) and parasitic species (e.g. *Cuscuta reflexa*, *Dendrophthoe falcata*, and *Helixanthera cylindrica*), vegetation clearing, unnecessary firing, unplanned agricultural extension, over exploitation of natural resources, lack of awareness in the local people including the homestead owners, and lack of proper management and protection systems homestead forests etc. are also the functional threats to the homestead flora, especially the threatened and declining native plant species, of the study area.

Therefore, appropriate planning, management strategies and measures, and awareness building programs should be effectively launched for the conservation of plant genetic resources in the homestead areas of this region. Performing studies on the natural regeneration, biogeography, and pollination, breeding and dispersal mechanisms of the threatened species threatened and declining native species of the region are very crucial for their sustainable conservation. Besides, effective attempts including the provision of incentives for involving the local people in conservation programs in the region is highly recommended.

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