

## ANGIOSPERMS IN NARSINGDI DISTRICT OF BANGLADESH: CLASS MAGNOLIOPSIDA

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### Abstract

This study presents taxonomic information on 468 plant species belonging to 326 genera and 85 families of the angiospermic class Magnoliopsida (dicotyledones) from Narsingdi district of Bangladesh. In this area, Fabaceae with 53 species of 37 genera is the largest family, followed by Asteraceae with 25 species of 24 genera and Rubiaceae with 21 species of 17 genera. *Ficus* with eight species is appeared as the largest genus, which is followed by *Persicaria* and *Solanum* with seven species each, *Lindernia* with six species, *Phyllanthus* with five species, and *Acacia*, *Amaranthus*, *Senna*, *Sida* and *Trichosanthes* with four species each. Herbs are comprised of 230 (49.14%) species that are followed by trees of 120 (25.64%) species, and shrubs of 118 (25.21%) species. The similarity measured by Jaccard coefficient shows that the six upazilas of Narsingdi district are relatively more similar (75.47%) in their species composition if they are compared all together. However, the similarities vary from 9.03% to 50% if only two upazilas are compared. In this district, total 333 species have been distinguished as economically useful. The species *Rauvolfia serpentina* of Apocynaceae, *Geophila repens* of Rubiaceae and *Acmella radicans* of Asteraceae have been assessed as Endangered (E) in this district.

### Introduction

Bangladesh constitutes a significant part of the South Asian Mega Centre of genetic diversity (Chowdhury, 1996), and supports a rich biodiversity including a huge number (approx. 5000) of Angiosperm species (Khan, 1977). However, Angiosperms of many areas of this country have so far been poorly or partially explored or unexplored. Therefore, performing taxonomic studies in these areas is essential to know the status of plant resources of this country.

Narsingdi is one of the central districts of Bangladesh, located at 50 km northeast of the capital city Dhaka. Some of the previous floristic studies cover the area of the present political boundary of Bangladesh (Prain, 1903; Hooker, 1872-1897; Ahmed *et al.*, 2008-2009). Many other studies were conducted in the different areas of this country (Rahman and Hassan, 1995; Rashid, *et al.*, 1995; Rashid and Mia, 2001; Khan and Huq 2001; Alam *et al.* 2006; Islam *et al.* 2009; Tutul *et al.* 2010; Arefin *et al.* 2011; Rahman *et al.* 2012; Rahman, 2013; Sarker *et al.* 2013; Rahman *et al.* 2015; Haque *et al.*, 2016, 2018; Shetu *et al.* 2018). However, the flora and plant diversity of Narsingdi district have not yet been studied based on field inventories and examination of plant specimens. Moreover, this district is also one of the most risk prone areas of Bangladesh because most of its areas harboring the natural vegetation are continuously being replaced by urbanization with numerous infrastructures, industrialization, habitat fragmentation, agricultural expansion and other human interventions. Therefore, there is a great need for conducting a detail floristic study throughout this district.

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This study has been carried out to construct a taxonomic checklist of the angiosperms under the class Magnoliopsida (dicotyledones) of Narsingdi district based on thorough taxonomic inventories throughout the area to serve as a taxonomic baseline on the current status of the species of this plant group in this area, contribute in further studies on the change in floristic composition, plant species diversity and vegetation, help in adopting appropriate biodiversity conservation initiatives and promote plant resource-based socioeconomic development projects in this area.

### Materials and Methods

Narsingdi district, comprised of an area of 1140.76 sq km and located in between 23°46'N and 24°15'N and 90°34'E and 90°59'E, is a part of the Dhaka division. It is bordered by Kishoreganj district in the north and northeast, Brahmanbaria district in the east and southeast, Narayanganj district in south and southwest and Gazipur district in the west. This district is consists of six upazilas, namely Belabo, Monohardi, Narsingdi Sadar, Palash, Raipura, and Shibpur. The area is composed of mostly plain lands including numerous agricultural fields, a vast and densely industrial area housing many textile and jute mills etc., a huge fallow lands and homestead areas, many low- and wet lands and some small hills. It includes a total of 89045 hectares of cultivable land and 22154 hectares of fallow land. The maximum annual average temperature in this area is 36°C, the minimum is 12.7°C and the annual rainfall is 2376 mm. The main rivers crossing this district are Meghna, Arial Khan, Haridhoa, Kalagachhia and Paharia.

This study was based on a thorough taxonomic inventory comprised of 32 field trips conducted in different seasons of 2014-2019 throughout Narsingdi district. The collection, processing, drying and preservation of plant specimens were done following standard herbarium methods and techniques (Bridson and Forman, 1989; Singh and Subramaniam, 2008).

The representative plant specimens of all taxa were examined at Plant Systematics and Biodiversity Laboratory of Jahangirnagar University and Bangladesh National Herbarium (DACB). The identification of the specimens was completed consulting taxonomic descriptions and keys available in the relevant literatures (Hooker, 1872-1897; Prain, 1903; Kanjilal *et al.* 1934, 1938-1940; Nasir and Ali, 1980-2005; Wu and Raven, 1994-2001; Wu *et al.*, 1999-2013), and by matching with the respective voucher specimens of DACB and Jahangirnagar University Herbarium (JUH). The relevant type images available in the web pages of different international herbaria, such the Royal Botanic Gardens Kew (K), and the Conservatoire et Jardin botaniques de la Ville de Genève (G) etc., and illustration of Flora of China (Wu and Raven, 1994-2001; Wu *et al.*, 1999-2013) were also matched. All voucher specimens have been preserved at JUH.

Nomenclatural informations were verified following Flora of China (Wu and Raven, 1994-2001; Wu *et al.*, 1999-2013), IPNI (2017), The Plant List (2013) and TROPICOS (2017). The common names were collected from Huq (1986), Pasha and Uddin (2013), Ahmed *et al.* (2008-2009) and through interviews with the local people. The families have been arranged following Cronquist (1981), and the genera and species under each family alphabetically (Table 1). The economic uses of the species were recorded through interviews with the local people during the field surveys, and consulting the relevant literatures (Ghani, 1998; Van Valkenburg and Bunyapraphatsara, 2002; Ahmed *et al.*, 2008-2009).

The extent of similarities in species composition in six upazilas of the study area was measured by Jaccard coefficient (Jaccard, 1912). Status of threatened plant species listed in Red Data Book of Vascular Plants of Bangladesh (Khan *et al.*, 2001; Ara *et al.*, 2013) was assessed through field observation and estimation on population size, distribution range and regeneration of each species in the area, collections and consulting the relevant IUCN guidelines (IUCN Standards and Petitions Committee, 2019).

**Table 1. List of the species of Magnoliopsida (dicotyledones) extant in Narsingdi district, Bangladesh.**

Scientific name	Bangla name	Habit	Habitat	Distribution	Use	RSE
<b>MAGNOLIOPSIDA</b> Brongn.						
<b>ANNONACEAE</b> Juss.						
<i>Annona reticulata</i> L.	Nona/Ata	Tree, s	FL, SJ	All upazilas	Fr	Robayda 2595
<i>A. squamosa</i> L.	Sharifa	Tree, s	FL, SJ	All upazilas	Fr	Robayda 2422
<i>Miliusa velutina</i> (Dunal) Hook. f. & Thomson	Gandhi Gajari	Tree, m	SJ	M, B, S	M, T	Robayda 2670
<i>Polyalthia longifolia</i> (Sonn.) Thwaites	Debbaru	Tree, l	RS	All upazilas	O, T	Robayda 697
<i>P. suberosa</i> (Roxb.) Thwaites	Kukuriam	Tree, s	FL, SJ	NS, B, M, S	Fr	Robayda 2528
<b>LAURACEAE</b> Juss.						
<i>Cinnamomum tamala</i> (Buch.-Ham.) T. Nees & Nees	Tejpata	Tree, m	FL	M, B, S	M, Sp	Robayda 3054
<i>Litsea glutinosa</i> (Lour.) C.B. Rob.	Kukur Chita	Tree, m	RS, SJ	All upazilas	M, T	Robayda 2082
<i>L. monopetala</i> (Roxb.) Pers.	Bara Kukurichita	Tree, m	RS, SJ	All upazilas	M	Robayda 2072
<i>Persea americana</i> Mill.	Avocado	Tree, m	RS (pl)	P	Fr	Robayda 2959
<b>PIPERACEAE</b> Giseke						
<i>Peperomia pellucida</i> (L.) Kunth	Luchi pata	Herb, er	RS, FL	All upazilas	M	Robayda 945
<i>Piper betle</i> L.	Pan	Herb, cl	ML (cu)	M, S, B	M	Robayda 1812
<i>P. longum</i> L.	Pipul morich	Herb, e	RS, FL	NS, B, R, S	M	Robayda 3032
<i>P. sylvaticum</i> Roxb.	Bon Pan	Herb, cl	RS, FL	All upazilas	M	Robayda 1223
<b>ARISTOLOCHIACEAE</b> Juss.						
<i>Aristolochia indica</i> L.	Ishwarmul	Shrub, cl	SJ	B, S, M	M	Robayda 2505
<b>NELUMBONACEAE</b> A. Rich.						
<i>Nelumbo nucifera</i> Gaertn.	Padma	Herb, aq	WL	NS, P, B	M	Robayda 3127
<b>NYMPHAEACEAE</b> Salisb.						
<i>Nymphaea capensis</i> Thunb.	Nil Shapla	Herb, aq	WL	NS, B, M, R	M	Robayda 2753
<i>N. pubescens</i> Willd.	Shada Shapla	Herb, aq	WL	All upazila	M, V	Robayda 2423
<i>N. rubra</i> Roxb. ex Salisb.	Lal Shapla	Herb, aq	WL	NS, B, R	M	Robayda 2751
<b>RANUNCULACEAE</b> Juss.						
<i>Naravelia zeylanica</i> (L.) DC.	Chagul Bati	Herb, cl	SJ	M	-	Robayda 1074
<b>MENISPERMACEAE</b> Juss.						
<i>Stephania japonica</i> (Thunb.) Miers	Akanadi	Herb, cl	RS, SJ	All upazilas	M	Robayda 2164
<i>Tiliacora racemosa</i> Colebr.	Bhag-lata	Shrub, cl	SJ, FL	NS, B, M, S	B & Th	Robayda 2106
<i>Tinospora crispa</i> (L.) Hook. f. & Thomson	Gulancho	Shrub, cl	SJ, FL	B, S, M	M	Robayda 2571
<i>T. sinensis</i> (Lour.) Merr.	Padma Gulancho	Shrub, cl	SJ, FL	B, NS, M	M	Robayda 2297
<b>ULMACEAE</b> Mirb.						
<i>Holoptelea integrifolia</i> Planch.	-	Tree, m	RS, SJ	All upazilas	-	Robayda 2171
<i>Trema orientalis</i> (L.) Blume	Jiban	Tree, s	RS, SJ	All upazilas	Fw	Robayda 1365
<b>MORACEAE</b> Gaudich.						
<i>Artocarpus heterophyllus</i> Lam.	Kathal	Tree, l	FL	All upazilas	T, F	Robayda 60
<i>A. lakoocha</i> Wall. ex Roxb.	Dewa	Tree, m	SJ	All upazilas	Fr, T, M	Robayda 2268
<i>Ficus benghalensis</i> L.	Bot	Tree, m	RS, SJ	All upazilas	O, M	Robayda 1070
<i>F. benjamina</i> L.	Pakur	Tree, s	RS (pl)	NS, S	O, Fw	Robayda 2450
<i>F. heterophylla</i> L. f.	Bhui Dumur	Shrub	ML, RS	P, S	-	Robayda 1611
<i>F. hispida</i> L. f.	Kak Dumur	Tree, s	SJ, RS	All upazilas	-	Robayda 69
<i>F. pumila</i> L.	Lata Dumur	Herb, cl	RS (pl)	NS, B, S	O	Robayda 2787
<i>F. racemosa</i> L.	Jagya Dumur	Tree, s	ML	All upazilas	T	Robayda 1523

Scientific name	Bangla name	Habit	Habitat	Distribution	Use	RSE
<i>F. religiosa</i> L.	Ashwath	Tree, l	RS, FL	All upazilas	T	Robayda 1561
<i>F. rumphii</i> Blume	Gai Ashwath	Tree, l	SJ	All upazilas	T	Robayda 1509
<i>Morus alba</i> L.	Tut	Tree, m	ML	M	M	Robayda 1266
<i>Streblus asper</i> Lour.	Sheora	Tree, s	RS, ML	All upazilas	M	Robayda 873
<b>URTICACEAE</b> Juss.						
<i>Dendrocnide sinuata</i> (Blume) Chew	Chuchra	Shrub	SJ	B	Fb, Fw, M	Robayda 2172
<i>Laportea interrupta</i> (L.) Chew	Lal Bechuti	Herb, er	RS, FL	All upazilas	M	Robayda 1653
<i>Pilea microphylla</i> (L.) Liebm.	Latamaricha	Herb, pr	FL	All upazilas	M	Robayda 1466
<i>Pouzolzia zeylanica</i> (L.) Benn.	Kullaruki	Herb, er	RS, FL	All upazilas	M	Robayda 1985
<b>CASUARINACEAE</b> R. Br.						
<i>Casuarina equisetifolia</i> L.	Jhau	Tree, l	RS (pl)	P, NS	O, T	Robayda 763
<b>NYCTAGINACEAE</b> Juss.						
<i>Boerhavia diffusa</i> L.	Punarnava	Herb,	RS	All upazilas	M	Robayda 698
<i>Bougainvillea spectabilis</i> Willd.	Baganbilash	Shrub, cl	FL (pl)	All upazilas	O	Robayda 1939
<i>Mirabilis jalapa</i> L.	Sandhya Maloti	Herb, er	RS	All upazilas	M	Robayda 346
<b>CACTACEAE</b> Juss.						
<i>Opuntia dillenii</i> (Ker Gawl.) Haw.	Phanimanasa	Herb, er	FL (Pl)	All upazilas	O, M	Robayda 2922
<b>AMARANTHACEAE</b> Juss.						
<i>Achyranthes aspera</i> L.	Apang	Herb, er	RS, ML	All upazilas	-	Robayda 2152
<i>Alternanthera paronychioides</i> A. St.-Hil.	Jhuli Khata	Herb, pr	RS, FL	NS, B, S	-	Robayda 3043
<i>A. philoxeroides</i> (Mart.) Griseb.	Malancha, Henchi	Herb, pr	WL, ML	All upazilas	V	Robayda 881
<i>A. sessilis</i> (L.) R. Br. ex DC.	Sachi shak	Herb, pr	RS, ML	All upazilas	M	Robayda 2568
<i>Amaranthus lividus</i> L.	Gobura Notey	Herb, er	FL (cu)	All upazilas	V	Robayda 281
<i>A. spinosus</i> L.	Kata Nate	Herb, er	RS	All upazilas	M	Robayda 1661
<i>A. tricolor</i> L.	Data	Herb, er	FL (cu)	All upazilas	V	Robayda 3137
<i>A. viridis</i> L.	Nate Shak	Herb, er	RS, FL	All upazilas	V, M	Robayda 1413
<i>Celosia cristata</i> L.	Moragphul	Herb, er	FL	B, S, M, P	O, M	Robayda 2750
<i>Chenopodium album</i> L.	Batua shak	Herb, er	AF	All upazilas	V, M	Robayda 1467
<i>C. ambrosioides</i> L.	Chandan Betu	Herb, er	ML	NS, B	M	Robayda 2017
<i>Cyathula prostrata</i> (L.) Blume	Chaya Apang	Herb, pr	RS	All upazilas	M	Robayda 1286
<i>Deeringia amaranthoides</i> (Lam.) Merr.	Golamohani	Herb, sc	FL	R	-	Robayda 3084
<i>Gomphrena celosioides</i> Mart.	-	Herb, pr	RS, FL	R, B	-	Robayda 1984
<i>G. globosa</i> L.	Botamphul	Herb, er	RS	NS, B	O, M	Robayda 2749
<b>PORTULACACEAE</b> Juss.						
<i>Portulaca oleracea</i> L.	Lunia Shak	Herb, pr	RS, FL	All upazilas	V	Robayda 2137
<i>P. quadrifida</i> L.	Chhoto Lunia Shak	Herb, pr	FL	B, S	V	Robayda 2353
<i>P. grandiflora</i> Hook.	Porchulaca	Herb, pr	RS	All upazilas	O	Robayda 2508
<b>BASELLACEAE</b> Raf.						
<i>Basella rubra</i> L.	Pui Shak	Herb, cl	FL	All upazilas	V	Robayda 1667
<b>MOLLUGINACEAE</b> Baril.						
<i>Glinus oppositifolius</i> (L.) Aug. DC.	Gema Shak	Herb, pr	RS, FL	M, B, P	V	Robayda 1875
<b>CARYOPHYLLACEAE</b> Juss.						
<i>Polycarpon prostratum</i> (Forssk.) Asch. & Schweinf. ex Asch.	Ghima	Herb, pr	ML	NS, B, P	-	Robayda 2033
<i>Stellaria media</i> (L.) Vill.	Sada Phulki, Tara	Herb, er	FL	M, B	-	Robayda 1809
<b>POLYGONACEAE</b> Juss.						
<i>Persicaria assamica</i> (Meisn.) Soják	Assami Bishkatali	Herb, er	ML	NS	-	Robayda 2015

Scientific name	Bangla name	Habit	Habitat	Distribution	Use	RSE
<i>P. chinensis</i> (L.) H. Gross	Mohicharan Shak	Herb, er	RS	B, M	-	Robayda 2914
<i>P. hydropiper</i> (L.) Delarbre	Bishkatali	Herb, er	ML	All upazilas	M	Robayda 2678
<i>P. lanata</i> (Roxb.) Tzvelev	Shet Panimorich	Herb, er	ML	P, B	-	Robayda 1621
<i>P. lapathifolia</i> (L.) Delarbre	Panimorich	Herb, er	ML	B, P, S	M	Robayda 3028
<i>P. minor</i> (Huds.) Opiz	Chhoto Bishkatali	Herb, er	ML	NS, P, B, S	-	Robayda 1169
<i>P. orientalis</i> (L.) Spach	Baro Panimorich	Herb, er	WL	All upazilas	M	Robayda 2482
<i>Polygonum effusum</i> Meisn.	Raniphul	Herb, pr	ML	NS, R, B	M	Robayda 3013
<i>P. plebeium</i> R. Br.	Khudi Bishkatali	Herb, er	FL	M, P, R	V	Robayda 1671
<i>P. pubescens</i> Blume	Lal-Bishkatali	Herb, er	FL	NS, S	-	Robayda 2949
<i>Rumex maritimus</i> L.	Bon Palong	Herb, er	ML	All upazilas	M	Robayda 1806
<b>DILLENACEAE</b> Salisb.						
<i>Dillenia indica</i> L.	Chalta	Tree, m	SJ	All upazilas	Fr	Robayda 1115
<b>DIPTEROCARPACEAE</b> Blume						
<i>Dipterocarpus turbinatus</i> Gaertn.	Garjan	Tree, l	Wd	S	T	Robayda 134
<b>CLUSIACEAE</b> Lindl.						
<i>Calophyllum inophyllum</i> L.	Sultan Champa	Tree, l	RS (pl)	NS	O	Robayda 2964
<i>Garcinia cowa</i> Roxb.	Kau	Tree, l	SJ	S	Fr	Robayda 2657
<b>ELAEOCARPACEAE</b> Juss.						
<i>Elaeocarpus floribundus</i> Blume	Jalpai	Tree, m	RS	All upazilas	Fr	Robayda 2313
<i>E. lanceifolius</i> Roxb.	-	Tree, m	FL	B	-	Robayda 2546
<b>TILIACEAE</b> Juss.						
<i>Corchorus aestuans</i> L.	Banpat	Herb, pr	FL	P	M	Robayda 759
<i>C. capsularis</i> L.	Deshi-pat	Shrub	RS	All upazilas	Fb	Robayda 2059
<i>Grewia nervosa</i> (Lour.) Panigrahi	Pichandi, Datoi	Tree, s	RS, SJ	All upazilas	Fw	Robayda 1969
<i>Triumfetta rhomboidea</i> Jacq.	Bon Okra	Shrub	RS	All upazilas	M	Robayda 840
<b>STERCULIACEAE</b> Vent.						
<i>Abroma augusta</i> (L.) L. f.	Ulatkambal	Shrub,	FL	M, B, S	M	Robayda 2786
<i>Melochia corchorifolia</i> L.	Tiki Okra	Herb, er	RS	All upazilas	W	Robayda 2006
<i>Pentapetes phoenicea</i> L.	Bandhuli	Shrub	RS	NS, S	O	Robayda 2784
<b>MALVACEAE</b> Juss.						
<i>Abelmoschus esculentus</i> (L.) Moench	Dheros	Herb, er	ML (cu)	All upazilas	V	Robayda 1220
<i>A. moschatus</i> Medik.	Mushak-dana	Shrub	RS, FL	B, S	M	Robayda 2431
<i>Abutilon theophrasti</i> Medik.	American Pat	Shrub	RS	NS, P, S, B	Fb	Robayda 2469
<i>Bombax ceiba</i> L.	Shimul	Tree, l	RS, FL	B, R, S, P	T, Fb	Robayda 1690
<i>Ceiba pentandra</i> (L.) Gaertn.	Swet Tula, Kapok	Tree, l	RS	NS	T, Fb	Robayda 3036
<i>Fioria vitifolia</i> (L.) Mattei	Ban Carpas	Herb, er	RS, FL	P, M, B	Fb	Robayda 1423
<i>Hibiscus rosa-sinensis</i> L.	Jaba	Shrub	RS	All upazilas	O	Robayda 1370
<i>H. sabdariffa</i> L.	Mesta Pat	Herb, er	ML	B, S, M, NS	Fb	Robayda 2238
<i>H. surattensis</i> L.	-	Herb, er	ML	P	Fb, M	Robayda 3014
<i>Malvaviscus arboreus</i> Cav.	Morich jaba	Shrub	RS	All upazilas	O	Robayda 92
<i>Sida acuta</i> Burm. f.	Berela	Herb, er	RS	All upazilas	-	Robayda 265
<i>S. cordata</i> (Burm. f.) Borss. Waalk.	Junka	Herb, er	FL	R, S	-	Robayda 878
<i>S. cordifolia</i> L.	Berela	Herb, er	RS	R, S, M	Fb	Robayda 2368
<i>S. rhombifolia</i> L.	Lal berela	Herb, er	RS	All upazilas	M	Robayda 1991
<i>Thespesia lampas</i> (Cav.) Dalzell & A. Gibson	Ban Karpas	Shrub	SJ	M, B	Fb	Robayda 1075
<i>Urena lobata</i> L.	Ban okra	Shrub	RS	All upazilas	Fb	Robayda 1988
<b>LECYTHIDACEAE</b> A. Rich.						
<i>Barringtonia acutangula</i> (L.) Gaertn.	Hijal	Tree, m	ML	NS, B, S	M	Robayda 2375

Scientific name	Bangla name	Habit	Habitat	Distribution	Use	RSE
<b>FLACOURTIACEAE</b> Rich. <i>ex</i> DC.						
<i>Flacourtia indica</i> (Burm. f.) Merr.	Beuchi	Shrub	SJ	NS, S, M	M	Robayda 08
<i>F. jangomas</i> (Lour.) Raeusch.	Paniala, Lukluki	Tree, s	SJ	B, M, S	Fr. M, T	Robayda 2245
<b>VIOLACEAE</b> Batsch						
<i>Hybanthus enneaspermus</i> (L.) F. Muell.	Nunbora	Herb, er	FL	R	M	Robayda 1947
<b>CARICACEAE</b> Dumort.						
<i>Carica papaya</i> L.	Pepe	Tree, s	ML	All upazilas	V, Fr, M	Robayda 1505
<b>CUCURBITACEAE</b> Juss.						
<i>Benincasa hispida</i> (Thunb.) Cogn.	Chalkumra	Herb, cl	ML	All upazilas	V	Robayda 2083
<i>Citrullus lanatus</i> (Thunb.) Matsum. & Nakai	Tormuj	Herb, cl	RS	NS, R	Fr, M	Robayda 3022
<i>Coccinia grandis</i> (L.) Voigt	Telakucha	Herb, cl	RS, SJ	All upazilas	V, M	Robayda 2271
<i>Cucumis collosus</i> (Rottler) Cogn.	Tita bangi	Herb, cl	RS	B, M	-	Robayda 2604
<i>C. melo</i> L.	Bangi/Futi	Herb, cl	RS	NS, R, M	Fr, M	Robayda 2604
<i>C. sativus</i> L.	Shasa	Herb, cl	FL (cu)	All upazilas	V	Robayda 2084
<i>Cucurbita maxima</i> Duchesne	Misti Kumra	Herb, cl	RS (cu)	All upazilas	V	Robayda 1646
<i>Gymnopetalum cochinchinense</i> (Lour.) Kurz	Ban Patol	Herb, cl	RS, SJ	All upazilas	-	Robayda 2217
<i>Lagenaria siceraria</i> (Molina) Standl.	Lau/Kadu	Herb, cl	ML (cu)	All upazilas	V	Robayda 1582
<i>Luffa acutangula</i> (L.) Roxb.	Zhinga	Herb, cl	FL (cu)	All upazilas	V	Robayda 2300
<i>L. cylindrica</i> M. Roem.	Dhundal	Herb, cl	SJ	All upazilas	V	Robayda 2557
<i>Momordica charantia</i> L.	Uchchhey/Korolla	Herb, cl	RS (cu)	All upazilas	V	Robayda 1597
<i>M. cochinchinensis</i> (Lour.) Spreng.	Kakrol	Herb, cl	SJ (cu)	All upazilas	V	Robayda 1662
<i>M. dioica</i> Roxb. <i>ex</i> Willd.	Dharkorolla	Herb, cl	SJ	B	V, M	Robayda 1294
<i>Mukia maderaspatana</i> (L.) M. Roem.	Agmukhi, Bilari	Herb, cl	RS	B, M, S	M	Robayda 2475
<i>Solena amplexicaulis</i> (Lam.) Gandhi	Rakhal Shasha	Herb, cl	SJ	B	M	Robayda 2379
<i>Trichosanthes anguina</i> L.	Chichinga	Herb, cl	SJ (cu)	All upazilas	V	Robayda 2005
<i>T. cordata</i> Roxb.	Bhuikakra	Herb, cl	SJ	B, M	M	Robayda 2155
<i>T. dioica</i> Roxb.	Patal	Herb, cl	SJ (cu)	S, M, B	M	Robayda 1747
<i>T. tricuspidata</i> Lour.	Makal	Herb, cl	SJ	B, S, R	-	Robayda 2554
<b>CAPPARACEAE</b> Juss.						
<i>Capparis spinosa</i> L.	Kabia, Katai	Shrub, cl	SJ	M, S	Fd, M	Robayda 852
<i>Cleome ruidosperma</i> DC.	Beguni Hurhure	Herb, dc	RS, FL	All upazilas	-	Robayda 1920
<i>C. viscosa</i> L.	Halud Hurhure	Herb, er	RS, FL	All upazilas	-	Robayda 2239
<i>Crateva magna</i> (Lour.) DC.	Tikthashak, Bonnya	Tree, m	ML	NS, B, R, M, S	-	Robayda 1974
<b>BRASSICACEAE</b> Burnett						
<i>Brassica juncea</i> (L.) Czern.	Rai sarisha	Herb, er	RS	S, B, R	OI	Robayda 581
<i>B. napus</i> L.	Sarisha	Herb, er	RS (cu)	All upazilas	OI	Robayda 1515
<i>B. rapa</i> L.	Shalgam	Herb, er	RS (cu)	All upazilas	V	Robayda 1545
<i>Cardamine flexuosa</i> With.	-	Herb, dc	AF, RS	P, S, R, NS	-	Robayda 1506
<i>Raphanus sativus</i> L.	Mula	Herb, er	ML (cu)	All upazilas	V, M	Robayda 1209
<i>Rorippa palustris</i> (L.) Besser	Panisarisha	Herb, dc	RS, FL	P, R, S, M	-	Robayda 334
<b>MORINGACEAE</b> Martinov						
<i>Moringa ovalifolia</i> Dinter & Berger	Sajna	Tree, m	RS, FL	All upazilas	V	Robayda 1654
<b>SAPOTACEAE</b> Juss.						
<i>Chrysophyllum cainito</i> L.	Star Apple	Tree, m	RS (pl)	R	O	Robayda 2384
<i>Madhuca longifolia</i> (J. Koenig <i>ex</i> L.) J.F. Macbr.	Mahua	Tree, l	FL, SJ	B, S	M	Robayda 2733

Scientific name	Bangla name	Habit	Habitat	Distribution	Use	RSE
<i>Mimusops elengi</i> L.	Bakul	Tree, l	RS (pl)	P, NS, M	O, T	Robayda 787
<b>EBENACEAE</b> Gürke						
<i>Diospyros blancoi</i> A. DC.	Beelati Gab	Tree, m	SJ	B, P, NS, M	Fr, T	Robayda 2737
<i>D. malabarica</i> (Desr.) Kostel.	Deshi Gab	Tree, l	SJ	B, S, M, NS	Fr, T	Robayda 2138
<i>D. montana</i> Roxb.	Tamal	Tree, s	SJ	P, B, R	T	Robayda 2251
<b>PRIMULACEAE</b> Batsch ex Borkh.						
<i>Ardisia humilis</i> Vahl	Chauldhoa	Shrub	SJ	B, S, P	-	Robayda 1731
<b>CRASSULACEAE</b> J.St.-Hil.						
<i>Kalanchoe blossfeldiana</i> Poelln.	Patharkuchi	Herb, er	RS	B, S, NS, P	O	Robayda 944
<b>ROSACEAE</b> Juss.						
<i>Rosa chinensis</i> Jacq.	Kanta Golap	Shrub	RS	All upazilas	O	Robayda 2752
<b>FABACEAE</b> Lindl.						
<i>Acacia auriculiformis</i> A. Cunn. ex Benth.	Akashmoni	Tree, l	Wd	All upazilas	T	Robayda 940
<i>A. longifolia</i> (Andrews) Willd.	Hybrid Acacia	Tree, s	Wd	B, NS, P, R	T	Robayda 2956
<i>A. mangium</i> Willd.	Mangium	Tree, l	Wd	All upazilas	T	Robayda 2957
<i>A. nilotica</i> (L.) Willd. ex Delile	Babla	Tree, m	RS	M	T	Robayda 1090
<i>Aeschynomene indica</i> L.	Bhatsola	Shrub	RS, FL	NS, P, B, R	-	Robayda 2716
<i>Albizia lebbek</i> (L.) Benth.	Siris, Kalo Karoi	Tree, l	RS	All upazilas	T	Robayda 2097
<i>A. lucidior</i> (Steud.) I.C. Nielsen ex H. Hara	Sil-Kioroi	Tree, l	RS	B, S, P	T	Robayda 2919
<i>A. richardiana</i> King & Prain	Gagan Sirish	Tree, l	RS	All upazilas	T	Robayda 1471
<i>Alysicarpus rugosus</i> (Willd.) DC.	-	Herb, dc	FL	P, B, NS, M	-	Robayda 1832
<i>Arachis hypogaea</i> L.	Cheena Badam	Herb, dc	AF	P, NS, R	OI	Robayda 2039
<i>Bauhinia acuminata</i> L.	Sada Kanchon	Tree, s	RS	All upazilas	O	Robayda 108
<i>Butea monosperma</i> (Lam.) Taub.	Palash	Tree, m	SJ	P, NS, S	O, M	Robayda 2430
<i>Caesalpinia bonduc</i> (L.) Roxb.	Nata/Jhagragota	Shrub	RS, SJ	R	M	Robayda 3033
<i>C. pulcherrima</i> (L.) Sw.	Radhachura	Shrub	RS	NS, S, P	O, M	Robayda 2462
<i>Cajanus cajan</i> (L.) Huth	Arahar	Shrub	RS	All upazilas	Pu, M	Robayda 1475
<i>Calliandra surinamensis</i> Benth.	Surinam powderd puff	Tree, s	RS	NS, S, P	O	Robayda 564
<i>Canavalia virosa</i> (Roxb.) Wight & Arn.	Kath Shim	Shrub	SJ	B, P, M, R	V	Robayda 2798
<i>Cassia fistula</i> L.	Sonalu, Badarlathi	Tree, m	RS	All upazilas	T, M	Robayda 1997
<i>Cicer arietinum</i> L.	Chhola	Herb, er	AF	R, B, NS, M, S	Pu	Robayda 3129
<i>Clitoria ternatea</i> L.	Aparajita	Herb, cl	FL	All upazilas	O	Robayda 671
<i>Crotalaria pallida</i> Aiton	Jhunjhuni	Herb, er	RS, FL	All upazilas	-	Robayda 417
<i>Dalbergia sissoo</i> Roxb. ex DC.	Sissoo Gachh	Tree, l	RS	All upazilas	T	Robayda 2899
<i>D. stipulacea</i> Roxb.	Dadbari	Tree, s	RS	S	-	Robayda 3055
<i>Delonix regia</i> (Bojer ex Hook.) Raf.	Krishnachura	Tree, l	RS	All Upazilas	O	Robayda 2687
<i>Derris monticola</i> Prain	-	Shrub	SJ	NS	-	Robayda 2809
<i>Desmodium gangeticum</i> (L.) DC.	Salpani	Shrub	RS, FL	NS, P, R, S	M	Robayda 1712
<i>D. gyroides</i> (Roxb. ex Link) DC.	-	Shrub	RS	NS, P, B, M	-	Robayda 582
<i>D. triflorum</i> (L.) DC.	Kulalia	Herb, pr	RS, FL	All upazilas	-	Robayda 1943
<i>Erythrina fusca</i> Lour.	Kanta Mander	Tree, m	RS, SJ	NS, B, S, M	Fw, M	Robayda 1884
<i>E. variegata</i> L.	Madar	Tree, m	RS, SJ	B, M, S, NS	Fw	Robayda 2396
<i>Lablab purpureus</i> (L.) Sweet	Sheem	Herb, cl	FL	All upazilas	V, Pu	Robayda 247
<i>Lathyrus sativus</i> L.	Khesari	Herb, dc	ML	All upazilas	Pu, Fd	Robayda 1593
<i>Leucaena leucocephala</i> (Lam.) de Wit	Ipil-Ipil	Tree, m	RS	All upazilas	O, Fd	Robayda 1262

Scientific name	Bangla name	Habit	Habitat	Distribution	Use	RSE
<i>Mimosa pudica</i> L.	Lajjabati	Herb, er	RS, FL	All upazilas	M	Robayda 1069
<i>Mucuna pruriens</i> (L.) DC.	Al-kushi	Herb, cl	RS	P	M	Robayda 1758
<i>Peltophorum pterocarpum</i> (DC.) Backer ex K. Heyne	Halud Krishnachura, Kanakchura	Tree, l	RS	NS, S, P	O	Robayda 2715
<i>Phaseolus vulgaris</i> L.	Farash Bean	Herb, er	ML (cu)	P, S, B, M	V	Robayda 330
<i>Pueraria phaseoloides</i> (Roxb.) Benth.	-	Herb, cl	RS	P, NS, B	-	Robayda 1498
<i>Rhynchosia minima</i> (L.) DC.	-	Herb, cl	FL	P	-	Robayda 271
<i>Samanea saman</i> (Jacq.) Merr.	Randi Koroi	Tree, l	RS	All upazilas	O, T	Robayda 1066
<i>Senna alata</i> (L.) Roxb.	Dadmardan	Shrub	RS, SJ	NS, P, S, M	M	Robayda 2771
<i>S. occidentalis</i> (L.) Link	Bara Kalkasunda	Herb, er	RS	All upazilas	M	Robayda 385
<i>S. sophora</i> (L.) Roxb.	Bara Kalkasunda	Shrub	RS	NS, R	M	Robayda 2945
<i>S. tora</i> (L.) Roxb.	Chhoto Kalkasunda	Shrub	RS, FL	All upazilas	M	Robayda 568
<i>Sesbania bispinosa</i> (Jacq.) W. Wight	Dhaincha	Shrub	ML	All upazilas	Fd, Fw	Robayda 2816
<i>S. sesban</i> (L.) Merr.	Jyonti	Shrub	ML	All upazilas	Fd	Robayda 1376
<i>Spatholobus acuminatus</i> Benth.	Palashi lata	Shrub, cl	SJ	S	-	Robayda 113
<i>Tamarindus indica</i> L.	Tetul	Tree, l	RS	All upazilas	Fr, M	Robayda 1431
<i>Uraria lagopus</i> DC.	-	Herb, er	FL	S, B, M	-	Robayda 1909
<i>Vicia hirsuta</i> (L.) Gray	Masurechana	Herb, cl	RS	P	Fd	Robayda 1464
<i>Vigna marina</i> (Burm.) Merr.	Nonta Shim	Herb, cl	ML	P	-	Robayda 2992
<i>V. mungo</i> (L.) Hepper	Mash Kalai	Herb, er	ML (cu)	B, M, S, R		Robayda 1752
<i>V. unguiculata</i> (L.) Walp.	Borboti	Herb, cl	FL	All upazilas	V, Pu	Robayda 2522
<b>HALORAGACEAE</b> R. Br.						
<i>Myriophyllum tetrandrum</i> Roxb.	-	Herb, aq	WL	NS, B, P	-	Robayda 178
<b>LYTHRACEAE</b> J.St.-Hil.						
<i>Cuphea hyssopifolia</i> Kunth	-	Herb, er	FL (pl)	B, M, S, NS	O	Robayda 2524
<i>Lagerstroemia speciosa</i> (L.) Pers.	Jarul	Tree, m	RS	NS, P	O	Robayda 2447
<i>L. indica</i> L.	Cheery	Tree, s	RS	NS, S, P	O	Robayda 463
<i>Lawsonia inermis</i> L.	Mehedi	Shrub	FL	All upazilas	Dy	Robayda 2512
<i>Rotala indica</i> (Willd.) Koehne	-	Herb, aq	WL	NS, S	-	Robayda 1158
<i>R. rotundifolia</i> (Buch.-Ham. ex Roxb.) Koehne	-	Herb, er	WL	All upazilas	-	Robayda 1891
<b>MYRTACEAE</b> Juss.						
<i>Callistemon citrinus</i> (Curtis) Skeels	Bottle Brush	Tree, s	RS (pl)	P, NS	O	Robayda 686
<i>Eucalyptus camaldulensis</i> Dehnh.	Eucalyptus	Tree, l	RS, Wd (pl)	P, S, NS	O, T	Robayda 2906
<i>E. citriodora</i> Hook.	Eucalyptus	Tree, l	RS, Wd (pl)	All upazilas	O, T	Robayda 1097
<i>Psidium guajava</i> L.	Peara	Tree, m	ML	All upazilas	Fr	Robayda 1526
<i>Syzygium cumini</i> (L.) Skeels	Kalo Jam	Tree, l	FL, RS	All upazilas	Fr	Robayda 111
<i>S. fruticosum</i> Roxb. ex DC.	Banjam	Tree, s	SJ	S, NS, M, B	Fw, Fd	Robayda 362
<i>S. jambos</i> (L.) Alston	Golab-Jam	Tree, s	SJ, FL	All upazilas	Fw	Robayda 1368
<i>S. samarangense</i> (Blume) Merr. & L.M. Perry	Jamrul	Tree, s		All upazilas	Fr	Robayda 1487
<b>PUNICACEAE</b> Bercht. & J. Presl						
<i>Punica granatum</i> L.	Dalim	Tree, s	FL	All upazilas	Fr	Robayda 2515
<b>ONAGRACEAE</b> Juss.						
<i>Ludwigia adscendens</i> (L.) H. Hara	Keshordam	Herb, aq	WL	All upazilas	M	Robayda 1234
<i>L. hyssopifolia</i> (G. Don) Exell	Jhilmarch	Herb, er	WL, AF	All upazilas	-	Robayda 139



Scientific name	Bangla name	Habit	Habitat	Distribution	Use	RSE
<b>MELASTOMATACEAE</b> Juss.						
<i>Melastoma malabathricum</i> L.	Ban tejmeta	Shrub	RS, SJ	NS, S, B	M	Robayda 123
<b>COMBRETACEAE</b> R. Br.						
<i>Combretum indicum</i> (L.) DeFilipps	Madhurilata	Shrub, cl	SJ	M, B, NS, P	O	Robayda 2448
<i>Terminalia arjuna</i> (Roxb. ex DC.) Wight & Arn.	Arjun	Tree, l	RS	All upazilas	M, T	Robayda 2738
<i>T. catappa</i> L.	Kathbadam	Tree, m	RS	All upazilas	M, T	Robayda 1109
<i>T. chebula</i> Retz.	Haritoki	Tree, m	SJ	B, M	M	Robayda 2832
<b>CORNACEAE</b> Bercht. ex J. Presl						
<i>Alangium salviifolium</i> (L. f.) Wangerin	Akarkanta, Aikha	Tree, s	RS	B, NS, P, M	M	Robayda 660
<b>RHIZOPHORACEAE</b> Pers.						
<i>Carallia brachiata</i> (Lour.) Merr. Tree	Roscow	Tree, m	RS, SJ	B, NS, M, S	T, M	Robayda 2163
<b>OLACACEAE</b> Juss. ex R. Br.						
<i>Olex acuminata</i> Wall. ex Benth.	Capsule gach	Shrub	SJ	S	M	Robayda 56
<b>LORANTHACEAE</b> Juss.						
<i>Dendrophthoe falcata</i> Ettingsh.	Bajrangi	Shrub	T. T., SP	P, S, M, R	-	Robayda 2693
<i>D. pentandra</i> (L.) Miq.	-	Shrub	T. T., SP	P	-	Robayda 2969
<i>Viscum monoicum</i> Roxb. ex DC.	Bhanda	Shrub, ps	T. T., SP	NS, P	-	Robayda 2712
<b>EUPHORBIACEAE</b> Juss.						
<i>Acalypha indica</i> L.	Muktajhuri	Herb, er	RS, FL	B, P, NS, M	M	Robayda 1935
<i>Chrozophora rotleri</i> (Geiseler) A. Juss. ex Spreng.	Khudi Okra	Herb, er	RS	NS, S, R	-	Robayda 550
<i>Cnesmone javanica</i> Blume	Pahari Bichhuti	Shrub	SJ	P, NS	-	Robayda 51
<i>Codiaeum variegatum</i> (L.) Rumph. ex A. Juss.	Patabahar	Shrub	FL (pl)	All upazilas	O	Robayda 1497
<i>Croton bonplandianus</i> Baill.	Mircha	Herb, er	RS, FL	All upazilas	M	Robayda 1399
<i>C. caudatus</i> Geiseler	Sabarjala	Shrub	SJ	S, B, M, R	M	Robayda 68
<i>Euphorbia hirta</i> L.	Dudhia	Herb, er	RS	All upazilas	M	Robayda 2073
<i>E. neriifolia</i> L.	Mansasij	Shrub	SJ	B, S, M, P	M	Robayda 1442
<i>E. thymifolia</i> L.	Dudhiya	Herb, pr	RS	All upazilas	-	Robayda 2009
<i>Jatropha curcas</i> L.	Baghverenda	Shrub	RS, FL	B	M	Robayda 2609
<i>J. gossypifolia</i> L.	Lalbherenda	Shrub	RS	P, NS, B	M	Robayda 848
<i>Macaranga peltata</i> (Roxb.) Müll. Arg.	Ratabura	Tree, s	RS, SJ	All upazilas	-	Robayda 1700
<i>Mallotus philippensis</i> (Lam.) Müll. Arg.	Kamalaguli	Shrub	RS, SJ	B, S, M	M	Robayda 2198
<i>M. repandus</i> (Rottler) Müll. Arg.	Gunti	Tree, s	SJ	B, S, M	M	Robayda 2382
<i>Pedilanthus tithymaloides</i> (L.) Poit.	Berachita	Shrub	FL	B, NS, R, P	O	Robayda 2843
<i>Ricinus communis</i> L.	Verenda	Shrub	RS	All upazilas	M	Robayda 1996
<i>Suregada multiflora</i> (A. Juss.) Baill.	Ban-narenga	Tree, s	RS, SJ	B, S, NS, M	T	Robayda 1686
<i>Trewia nudiflora</i> L.	Meragota	Tree, m	ML	All upazilas	M	Robayda 1990
<b>PHYLLANTHACEAE</b> Martinov						
<i>Aporosa dioica</i> (Roxb.) Müll. Arg.	Pat khorolla	Tree, s	SJ	S, M, P, NS	-	Robayda 115
<i>Baccaurea ramiflora</i> Lour.	Latkan	Tree, m	FL	B, S	Fr	Robayda 2145
<i>Breynia vitis-idaea</i> (Burm. f.) C.E.C. Fisch.	Lal Sitka	Shrub	SJ	All upazilas	-	Robayda 2319
<i>Bridelia tomentosa</i> Blume	Khoi	Shrub	SJ	S, B	-	Robayda 137
<i>Flueggea virosa</i> (Roxb. ex Willd.) Royle	Shikori	Shrub	RS, SJ	All upazilas	M	Robayda 2356
<i>Glochidion lanceolarium</i> (Roxb.) Voigt	Anguti	Tree, s	RS, SJ	All upazilas	-	Robayda 2538
<i>Phyllanthus acidus</i> (L.) Skeels	Orboroi	Shrub	RS	NS, B, M	Fr	Robayda 3107
<i>P. emblica</i> L.	Amloki	Tree, m	RS	All upazilas	Fr	Robayda 604

Scientific name	Bangla name	Habit	Habitat	Distribution	Use	RSE
<i>P. niruri</i> L.	Bhui amla	Herb, er	RS	All upazilas	M	Robayda 154
<i>P. reticulatus</i> Poir.	Chhitki	Shrub	FL, RS	All upazilas	M	Robayda 2004
<i>P. urinaria</i> L.	Hajarmoni	Herb, er	FL, RS	All upazilas	M	Robayda 2391
<b>RHAMNACEAE</b> Juss.						
<i>Gouania leptostachya</i> DC.	-	Shrub, cl	SJ	B	-	Robayda 2292
<i>Ziziphus mauritiana</i> Lam.	Boroi	Tree, m	RS, FL	All upazilas	Fr	Robayda 1528
<i>Z. oenopolia</i> (L.) Mill.	Bon boroi	Shrub	SJ	B, S, M	Fd	Robayda 118
<b>VITACEAE</b> Juss.						
<i>Ampelocissus barbata</i> (Wall.) Planch.	Jarila Lahari	Shrub, cl	SJ	B, S, M, NS	-	Robayda 2330
<i>A. latifolia</i> (Roxb.) Planch.	Gowalia lata	Herb, cl	SJ	B, S, M	-	Robayda 2211
<i>Cissus adnata</i> Roxb.	Alianga-lata	Shrub, cl	SJ	B, NS	-	Robayda 1326
<i>C. quadrangularis</i> L.	Harjora Lata	Herb, cl	RS	NS, M	M	Robayda 2923
<i>Leea alata</i> Edgew.	-	Shrub	SJ	B, S	-	Robayda 2260
<i>L. asiatica</i> (L.) Ridsdale	Banchalita	Shrub	SJ	S, M	-	Robayda 1241
<i>L. indica</i> (Burm. f.) Merr.	Kukur jihwa	Shrub	SJ	S	M	Robayda 2261
<i>Tetrastigma angustifolium</i> (Roxb.) Planch.	Nekung riubi	Herb, cl	RS	R	-	Robayda 3133
<i>T. leucostaphylum</i> (Dennst.) Alston	Horina -lata	Shrub, cl	RS	All upazilas	-	Robayda 2660
<i>Vitis vinifera</i> L.	Angur	Shrub, cl	ML	NS, S, B, M	Fr	Robayda 2520
<b>MALPIGHIACEAE</b> Juss.						
<i>Hiptage benghalensis</i> (L.) Kurz	Madhabilata	Shrub, cl	SJ	S	M	Robayda 110
<b>SAPINDACEAE</b> Juss.						
<i>Allophylus cobbe</i> (L.) Forsyth f.	Rakhalchita	Shrub	SJ	B, S	Fw	Robayda 2277
<i>Dimocarpus longan</i> Lour.	Kathlichu, Ashfal	Tree, m	SJ	B, S, M	-	Robayda 2545
<i>Lepisanthes rubiginosa</i> (Roxb.) Leenh.	Baraharina	Tree, s	SJ, FL	B, P, NS, S, M	Fw	Robayda 2087
<i>L. senegalensis</i> (Juss. ex Poir.) Leenh.	Amjam	Shrub,	SJ	S, M, P	Fw	Robayda 2279
<i>Litchi chinensis</i> Sonn.	Lichu	Tree, l	ML	All upazilas	Fr	Robayda 1425
<b>BURSERACEAE</b> Kunth						
<i>Protium serratum</i> (Wall. ex Colebr.) Engl.	Chitrica	Tree, m	SJ	S	T	Robayda 3053
<b>ANACARDIACEAE</b> R. Br.						
<i>Lannea coromandelica</i> (Houtt.) Merr.	Jiga, Kafila	Tree, m	RS, ML	All upazilas	T, Fd	Robayda 2135
<i>Mangifera indica</i> L.	Aam	Tree, l	FL	All upazilas	Fr, T	Robayda 1444
<i>Spondias pinnata</i> (L. f.) Kurz	Amra	Tree, l	RS	S, M	Fr	Robayda 2907
<i>S. purpurea</i> L.	Beelati Amra	Tree, m	FL (pl)	All upazilas	Fr, M	Robayda 752
<b>MELIACEAE</b> Juss.						
<i>Aphanamixis polystachya</i> (Wall.) R. Parker	Pitraj, Roina	Tree, m	RS, SJ	All upazilas	T, M	Robayda 2242
<i>Azadirachta indica</i> A. Juss.	Nim	Tree, l	RS, FL	All upazilas	T, M	Robayda 1450
<i>Melia azedarach</i> L.	Goranim	Tree, m	RS	All upazilas	T	Robayda 1957
<i>Swietenia macrophylla</i> King	Bara Mehagoni	Tree, l	Wd, RS	All upazilas	T	Robayda 2283
<i>S. mahagoni</i> (L.) Jacq.	Mehogoni	Tree, l	Wd, RS	All upazilas	T	Robayda 381
<i>Toona ciliata</i> M. Roem.	Toon	Tree, m	SJ	S, B, M	T	Robayda 22
<b>RUTACEAE</b> Juss.						
<i>Aegle marmelos</i> (L.) Corrêa	Bel	Tree, m	FL	All upazilas	Fr, M	Robayda 894
<i>Citrus limon</i> (L.) Osbeck	Gora lebu	Shrub	RS	All upazilas	Fr	Robayda 342
<i>C. maxima</i> (Burm.) Merr.	Jambura	Tree, l	FL	All upazilas	Fr	Robayda 1925
<i>C. medica</i> L.	Lebu	Shrub	FL	All upazilas	Fr	Robayda 1560

Scientific name	Bangla name	Habit	Habitat	Distribution	Use	RSE
<i>Glycosmis pentaphylla</i> (Retz.) DC.	Motkila	Shrub	RS, FL	All upazilas	M	Robayda 1982
<i>Limonia acidissima</i> L.	Kothbel	Tree, l	RS	NS, S, B	Fr	Robayda 2722
<i>Micromelum minutum</i> Wight & Arn.	Koroiphula	Tree, s	SJ	B, S, M	-	Robayda 2259
<i>Murraya koenigii</i> (L.) Spreng.	Currypata	Tree, s	RS, SJ	B, S, M	M	Robayda 1298
<i>M. paniculata</i> (L.) Jack	Kamini	Tree, s	RS	All upazilas	O, M	Robayda 780
<i>Zanthoxylum rhetsa</i> DC	Bajna	Tree, m	SJ	All upazilas	Ol, T	Robayda 2400
<b>OXALIDACEAE</b> R. Br.						
<i>Averrhoa bilimbi</i> L.	Bilimbi	Tree, s	FL	NS, B, M	Fr	Robayda 2089
<i>A. carambola</i> L.	Kamranga	Tree, m	RS	All upazilas	Fr, M	Robayda 632
<i>Oxalis corniculata</i> L.	Amrul	Herb, pr	FL, AF	All upazilas	M, V	Robayda 1823
<b>BALSAMINACEAE</b> A. Rich.						
<i>Impatiens balsamina</i> L.	Dopati	Herb, er	RS	P, B, M	O	Robayda 2756
<b>APIACEAE</b> Lindl.						
<i>Centella asiatica</i> (L.) Urb.	Thankuni	Herb, pr	FL, RS	All upazilas	M, V	Robayda 1279
<i>Coriandrum sativum</i> L.	Dhonia	Herb, er	ML (cu)	B, S, NS, R	Sp, M	Robayda 1207
<i>Daucus carota</i> L.	Gazor	Herb, er	ML (cu)	P, NS, S	V	Robayda 322
<i>Eryngium foetidum</i> L.	Beelati Dhonia	Herb, er	FL	All upazilas	Sp	Robayda 1522
<i>Hydrocotyle sibthorpioides</i> Lam.	-	Herb, cr	FL	M	-	Robayda 1699
<b>APOCYNACEAE</b> Juss.						
<i>Allamanda cathartica</i> L.	Alakananda	Shrub	RS (pl)	NS, S	O	Robayda 2764
<i>Alstonia scholaris</i> (L.) R. Br.	Chhatim	Tree, m	SJ, FL	All upazilas	M	Robayda 1972
<i>Catharanthus roseus</i> (L.) G. Don	Nayantara	Herb,er	RS	All upazilas	O, M	Robayda 605
<i>Carissa carandas</i> L.	Karamcha	Shrub	FL (pl)	B, S, NS, M	Fr, M	Robayda 1418
<i>Holarrhena antidysenterica</i> (L.) Wall. ex A. DC.	Kurchi	Shrub	SJ	S	M	Robayda 387
<i>Ichnocarpus frutescens</i> (L.) W.T. Aiton	Shyamalata	Shrub, cl	SJ	NS, S, M, B	M	Robayda 2357
<i>Nerium oleander</i> L.	Raktakarabi	Shrub	RS	NS, S	O	Robayda 2788
<i>Plumeria alba</i> L.	Gulachin	Tree, s	RS	NS, S, B	O	Robayda 3128
<i>Rauwolfia serpentina</i> (L.) Benth. ex Kurz	Sarpagandha	Herb, er	SJ	B	M	Robayda 2921
<i>Tabernaemontana divaricata</i> (L.) R. Br. ex Roem. & Schult.	Tagar	Shrub	RS, SJ	B, S, M, NS	O, M	Robayda 01
<b>ASCLEPIADACEAE</b> Borkh.						
<i>Calotropis gigantea</i> (L.) W.T. Aiton	Akand	Shrub	RS, SJ	NS	M	Robayda 3061
<i>C. procera</i> (Aiton) W.T. Aiton	Akand	Shrub	RS, SJ	NS, S, B, M	M	Robayda 1547
<i>Hemidesmus indicus</i> (L.) R. Br. ex Schult.	Anantamul	Shrub ,tw	FL	P, NS	M	Robayda 1510
<i>Marsdenia tenacissima</i> (Roxb.) Moon	Jitti, Chitti	Shrub ,tw	ML, SJ	B, S, M	M	Robayda 2651
<i>Telosma cordata</i> (Burm. f.) Merr.	Kanja Lata	Shrub ,tw	SJ	NS	Fb	Robayda 2813
<i>Dregea volubilis</i> (L.f.) Benth. ex Hook.f.	Madhumaloti	Shrub, tw	RS, SJ	NS, R	-	Robayda 3108
<b>SOLANACEAE</b> Juss.						
<i>Capsicum frutescens</i> L.	Lanka Morich	Herb, er	ML (cu)	All upazilas	V, Sp	Robayda 232
<i>Cestrum nocturnum</i> L.	Hasnahena	Shrub	RS	All upazilas	O	Robayda 2518
<i>Datura metel</i> L.	Dhutura	Herb, er	FL, RS	All upazilas	M	Robayda 850
<i>Lycopersicon esculentum</i> Mill.	Tomato	Herb, er	ML (cu)	All upazilas	V	Robayda 321
<i>Nicotiana plumbaginifolia</i> Viv.	Bon Tamak	Herb, er	FL	P, NS, B	-	Robayda 1594
<i>Physalis angulata</i> L.	Fotka	Herb, er	FL	P, S, NS	M	Robayda 2719
<i>P. minima</i> L.	Fotka	Herb, er	FL	All upazilas	M	Robayda 1635
<i>Solanum americanum</i> Mill.	Tit Begun	Herb, er	FL	P, S	-	Robayda 2962

Scientific name	Bangla name	Habit	Habitat	Distribution	Use	RSE
<i>S. erianthum</i> D. Don	-	Shrub	SJ	B, S, M	-	Robayda 2359
<i>S. melongena</i> L.	Begun	Herb, er	FL (cu)	All upazilas	V	Robayda 1600
<i>S. nigrum</i> L.	Tit Begun	Herb, er	FL	B, S, M	-	Robayda 1340
<i>S. sisymbriifolium</i> Lam.	Kanta begun	Herb, er	RS	All upazilas	-	Robayda 1794
<i>S. torvum</i> Sw.	Gota Begun	Shrub	RS, FL	B, S, M	-	Robayda 769
<i>S. tuberosum</i> L.	Aaloo	Herb, er	ML (cu)	All upazilas	V	Robayda 1507
<b>CONVOLVULACEAE</b> Juss.						
<i>Argyreia capitiformis</i> (Poir.) Oostr.	-	Shrub	SJ, RS	P	-	Robayda 2976
<i>A. nervosa</i> (Burm. f.) Bojer	Bara Dudhi	Shrub, cl	SJ, RS	P, B, S, M	-	Robayda 2624
<i>A. roxburghii</i> (Wall.) Arn. ex Choisy	-	Shrub	SJ	NS	-	Robayda 2885
<i>Cuscuta reflexa</i> Roxb.	Sharnalata	Herb, ps	RS	All upazilas	-	Robayda 485
<i>Evolvulus nummularius</i> (L.) L.	Bhui Okra	Herb	RS, FL	All upazilas	-	Robayda 243
<i>Ipomoea aquatica</i> Forssk.	Kalmi Shak	Herb	WL	All upazilas	V	Robayda 1204
<i>I. batatas</i> (L.) Lam.	Misti Aloo	Herb	ML (cu)	All upazilas	V	Robayda 1486
<i>I. fistulosa</i> Mart. ex Choisy	Dhol kalmi	Shrub	ML, RS	All upazilas	-	Robayda 1989
<i>Jacquemontia paniculata</i> (Burm. f.) Hallier f.	-	Herb, tw	SJ	P, NS	-	Robayda 809
<i>Merremia hederacea</i> (Burm. f.) Hallier f.	Kaladana	Herb, cl	RS, SJ	P	-	Robayda 838
<i>M. umbellata</i> (L.) Hallier f.	Sada kalmi	Herb, cl	RS, SJ	All upazilas	-	Robayda 2392
<b>MENYANTHACEAE</b> Dumort.						
<i>Nymphoides hydrophylla</i> (Lour.) Kuntze	-	Herb, aq	WL	P, S, M	-	Robayda 2731
<i>N. indica</i> (L.) Kuntze	Chandmala	Herb, aq	WL	B, S, R	-	Robayda 3059
<b>HYDROPHYLLACEAE</b> R. Br.						
<i>Hydrolea zeylanica</i> (L.) Vahl	-	Herb, pr	WL	S, M	-	Robayda 164
<b>BORAGINACEAE</b> Juss.						
<i>Cordia dichotoma</i> G. Forst.	Bohal, Boula	Tree, l	SJ	S, NS	T, M	Robayda 527
<i>C. serrata</i> Juss. ex Lam.	-	Tree, s	SJ	B, M, S	Fw	Robayda 1318
<i>Ehretia acuminata</i> R.Br.	Kala-aja, Kala-huja	Tree, s	RS, SJ	All upazilas	M	Robayda 2435
<i>Heliotropium indicum</i> L.	Hatisur	Herb, er	FL	All upazilas	M	Robayda 1865
<b>VERBENACEAE</b> J.St.-Hil.						
<i>Duranta erecta</i> L.	Kanta mehendi	Shrub	RS	All upazilas	O	Robayda 925
<i>Lantana camara</i> L.	Lantana, Kutus Kanta	Shrub	RS, FL	All upazilas	O	Robayda 1585
<i>Lippia alba</i> (Mill.) N.E. Br. ex Britton & P. Wilson	Pichas ban	Shrub	RS, ML	All upazilas	-	Robayda 2071
<i>Phyla nodiflora</i> (L.) Greene	Bhuiokra	Herb, dc	ML	P, B, NS, R	M	Robayda 1856
<b>LAMIACEAE</b> Martinov						
<i>Anisomeles indica</i> (L.) Kuntze	Gobura	Herb, er	RS, FL	B, S, M	M	Robayda 2470
<i>Callicarpa macrophylla</i> Vahl	Bormala	Shrub	SJ	B	M	Robayda 2219
<i>Clerodendrum chinense</i> (Osbeck) Mabb.	Hazari beli	Shrub	SJ	B, S, M	O	Robayda 2365
<i>C. indicum</i> (L.) Kuntze	Bamunhatti	Shrub	SJ, ML	B, S, M	M, O	Robayda 2218
<i>C. infortunatum</i> L.	Bhat, Ghetu	Shrub	RS, ML	All upazilas	M	Robayda 1973
<i>Coleus scutellarioides</i> (L.) Benth.	Patabahar	Herb, er	ML (pl)	All upazilas	O	Robayda 744
<i>Gmelina arborea</i> Roxb.	Gamari	Tree, l	SJ, FL	B, S, M	T	Robayda 2740
<i>Hyptis suaveolens</i> (L.) Poit.	Tokma	Herb, er	RS, FL	All upazilas	M	Robayda 1855
<i>Leonurus sibiricus</i> L.	Roktodron	Herb, er	RS	All upazilas	M	Robayda 2364
<i>Leucas aspera</i> (Willd.) Link	Shetadron	Herb, er	AF, RS, FL	All upazilas	M	Robayda 1810

Scientific name	Bangla name	Habit	Habitat	Distribution	Use	RSE
<i>L. indica</i> (L.) R. Br. ex Sm.	Shetadron	Herb, er	AF, RS, FL	B, R	M	Robayda 3065
<i>Mentha arvensis</i> L.	Pudina	Herb, pr	FL (cu)	P, NS	V, M	Robayda 344
<i>Ocimum americanum</i> L.	Ban Tulsi	Herb, er	FL	R, M, B	M	Robayda 1006
<i>O. tenuiflorum</i> L.	Tulsi	Herb, er	FL	All upazilas	M	Robayda 2575
<i>Pogostemon auricularius</i> (L.) Hassk.	-	Herb, er	RS	S	-	Robayda 2537
<i>P. quadrifolius</i> (Benth.) F. Muell.	-	Herb, er	ML	M	-	Robayda 916
<i>P. stellatus</i> (Lour.) Kuntze	-	Herb, er	WL	R	-	Robayda 3131
<i>Premna esculenta</i> Roxb.	Lalana	Shrub	SJ	B	-	Robayda 2231
<i>Tectona grandis</i> L. f.	Segun	Tree, l	RS, Wd	B, S, P, R	T	Robayda 642
<i>Volkameria inermis</i> L.	Banjui	Shrub	RS, ML	M	O, M	Robayda 2711
<b>OLEACEAE</b> Hoffeanns. & Link						
<i>Jasminum multiflorum</i> (Burm. f.) Andrews	Chameli	Shrub	RS (pl)	NS, S	O	Robayda 2762
<i>J. sambac</i> (L.) Aiton	Beli	Shrub	SJ	B, S, M	O	Robayda 1084
<i>Nyctanthes arbor-tristis</i> L.	Sheuli	Tree, s	FL, SJ	All upazilas	O	Robayda 735
<b>PLANTAGINACEAE</b> Juss.						
<i>Linnophila aromatica</i> (Lam.) Merr.	Pani karpur	Herb, er	AF	S, R, M, B	-	Robayda 1165
<i>L. repens</i> (Benth.) Benth.	-	Herb, er	AF	S	-	Robayda 131
<i>L. sessiliflora</i> Blume	-	Herb, er	AF	S, B, M	-	Robayda 130
<i>Mecardonia procumbens</i> (Mill.) Small	-	Herb, er	FL, AF	P, B, M	-	Robayda 832
<i>Scoparia dulcis</i> L.	Bandhane	Herb, er	FL, RS	All upazilas	M	Robayda 2345
<b>LINDERNIACEAE</b> Borsch, Kai Müll. & Eb. Fisch.						
<i>Lindernia anagallis</i> (Burm.f.) Pennell	-	Herb, pr	AF, ML	B, S, M, P	-	Robayda 1630
<i>L. antipoda</i> (L.) Alston	-	Herb, pr	RS, AF	All upazilas	-	Robayda 168
<i>L. crustacea</i> (L.) F. Muell.	-	Herb, pr	RS, FL	All upazilas	M	Robayda 2485
<i>L. rotundifolia</i> (L.) Alston	-	Herb, pr	AF, ML	All upazilas	-	Robayda 2465
<i>L. ruellioides</i> (Colsm.) Pennell	-	Herb, pr	ML	M	-	Robayda 2533
<i>L. viscosa</i> (Hornem.) Merr.	-	Herb, er	RS	P	-	Robayda 3011
<b>MAZACEAE</b> Reveal						
<i>Mazus pumilus</i> (Burm. f.) Steenis	-	Herb, er	RS	P, R, S	-	Robayda 1427
<b>ACANTHACEAE</b> Juss.						
<i>Dipteracanthus prostratus</i> (Poir.) Nees	-	Herb, er	RS	B, NS, P, M	M	Robayda 1683
<i>Ecbolium ligustrinum</i> (Vahl) Vollesen	Udujati	Shrub	SJ	B	M	Robayda 2246
<i>Hemigraphis hirta</i> T. Anderson	Buripan	Herb, er	RS, FL	P, B, M	-	Robayda 290
<i>Hygrophila phlomooides</i> Nees	-	Herb, er	AF	P	M	Robayda 1578
<i>H. polysperma</i> (Roxb.) T. Anderson	-	Herb, er	WL, AF	S, B, M	-	Robayda 1166
<i>Justicia adhatoda</i> L.	Basak	Shrub	SJ, RS	B, S, M, NS	M	Robayda 643
<i>J. diffusa</i> Willd.	-	Herb, pr	RS	R	-	Robayda 3097
<i>J. gendarussa</i> Burm. f.	Jagatmadan	Shrub	FL	All upazilas	M	Robayda 87
<i>Lepidagathis inaequalis</i> C.B. Clarke ex Elmer	-	Herb, pr	RS	NS	-	Robayda 2857
<i>Nelsonia canescens</i> (Lam.) Spreng.	Paramul	Herb, pr	RS	All upazilas	-	Robayda 42
<i>Phaulopsis imbricata</i> (Forssk.) Sweet	-	Herb, pr	RS	All upazilas	-	Robayda 1369
<i>Phlogacanthus curviflorus</i> (Wall.) Nees	-	Shrub	SJ	B, M	O	Robayda 2129
<i>Ruellia tuberosa</i> L.	Chotpoty	Herb, er	RS	B, M	M	Robayda 2791
<i>Rungia pectinata</i> (L.) Nees	Pindi	Herb, er	RS	All upazilas	M	Robayda 88
<i>Staurogyne argentea</i> Wall.	-	Herb, er	FL	NS	-	Robayda 2932

Scientific name	Bangla name	Habit	Habitat	Distribution	Use	RSE
<i>Thunbergia erecta</i> (Benth.) T. Anderson	Nil Ghanta	Shrub	RS	B	O	Robayda 2414
<i>T. grandiflora</i> Roxb.	Nil lata	Herb, cl	SJ	S	-	Robayda 91
<b>PEDALIACEAE</b> R. Br.						
<i>Sesamum indicum</i> L.	Til	Herb, er	RS	NS, R, B, S	OI	Robayda 2086
<b>BIGNONIACEAE</b> Juss.						
<i>Oroxylum indicum</i> (L.) Kurz	Kanaidingi, Sona	Tree, m	SJ	M, NS, S	M	Robayda 2224
<b>LENTIBULARIACEAE</b> Rich.						
<i>Utricularia foliosa</i> L.	Jhangi	Herb, aq	WL	All upazilas	-	Robayda 2732
<b>CAMPALUNACEAE</b> Juss.						
<i>Lobelia radicans</i> Thunb.	-	Herb, er	FL	P, B, R, M	M	Robayda 2258
<i>L. terminalis</i> C.B. Clarke	-	Herb, pr	AF	M	-	Robayda 1173
<b>RUBIACEAE</b> Juss.						
<i>Borreria ocymoides</i> (Burm. f.) DC.	-	Herb, er	ML	P, B	-	Robayda 3009
<i>Catunaregam spinosa</i> (Thunb.) Tirveng.	Monkata	Shrub	SJ	S, M	-	Robayda 2902
<i>Chassalia curviflora</i> (Wall.) Thwaites	Hel Gass	Shrub	SJ	B	-	Robayda 2212
<i>Coffea benghalensis</i> B. Heyne ex Schult.	Bancofee	Shrub	SJ	All upazilas	-	Robayda 2151
<i>Dentella serpyllifolia</i> Wall. ex Craib	Bhuiapat	Herb, pr	FL	All upazilas	-	Robayda 2214
<i>Gardenia jasminoides</i> J. Ellis	Gandharaj	Shrub	SJ, RS	All upazilas	O	Robayda 464
<i>Geophila repens</i> (L.) I.M. Johnst.	Koodi Munkooni	Herb, pr	SJ	B, M	M	Robayda 2118
<i>Hedyotis corymbosa</i> (L.) Lam.	Khet papra	Herb, pr	FL	All upazilas	M	Robayda 1945
<i>H. diffusa</i> Willd.	-	Herb, pr	RS, ML	All upazilas	-	Robayda 2639
<i>Hymenodictyon orixense</i> (Roxb.) Mabb.	Bhutum	Tree, m	RS	M	T	Robayda 2622
<i>Ixora acuminata</i> Roxb.	Rangan	Shrub	SJ	S, M	-	
<i>I. chinensis</i> Lam.	Rangan	Shrub	RS (pl)	All upazilas	O	Robayda 627
<i>I. cuneifolia</i> Roxb.	Rangan	Shrub	SJ	B, S, M	-	Robayda 1722
<i>Meyna spinosa</i> Roxb. ex Link	Monkata	Shrub	SJ	S, NS, R	-	Robayda 61
<i>Morinda angustifolia</i> Roxb.	Daru haridra, Banomali	Shrub	SJ	B, S, M	M	Robayda 06
<i>Mussaenda erythrophylla</i> Schumach. & Thonn.	Machhenda	Shrub	RS (pl)	NS, S	O	Robayda 2767
<i>Neolamarckia cadamba</i> (Roxb.) Bosser	Kadam	Tree, m	RS	All upazilas	O	Robayda 1359
<i>Psychotria monticola</i> Kurz	-	Shrub	SJ	B	-	Robayda 2326
<i>Richardia scabra</i> L.	-	Herb, pr	FL, RS	P, R	-	Robayda 2215
<i>Spermacoce articularis</i> L. f.	Ahtharogia	Herb, er	FL, RS	All upazilas	-	Robayda 773
<i>S. latifolia</i> Aubl.	Ghuiojhil shak	Herb, er	FL, RS	All upazilas	-	Robayda 2236
<b>ASTERACEAE</b> Bercht. & J. Presl						
<i>Acmella radicans</i> (Jacq.) R.K. Jansen	-	Herb, er	RS	S	-	Robayda 1670
<i>Ageratum conyzoides</i> L.	Fulkuri	Herb, er	RS	All upazilas	-	Robayda 1976
<i>Blumea densiflora</i> DC.	Kukshim	Herb, er	RS, FL	P, S, NS	-	Robayda 263
<i>B. membranacea</i> DC.	Kukshim	Herb, er	RS, FL	All upazilas	-	Robayda 1808
<i>Centipeda minima</i> (L.) A. Braun & Asch.	Nakchikni	Herb, pr	WL, ML	S, NS, P	-	Robayda 1672
<i>Chromolaena odorata</i> (L.) R.M. King & H. Rob.	Asamlata	Shrub	RS, SJ	All upazilas	M	Robayda 1928
<i>Cosmos sulphureus</i> Cav.	Cosmos	Herb, er	RS	All upazilas	O	Robayda 2759
<i>Cotula hemisphaerica</i> (Roxb.) Wall. ex Benth.	Babuni	Herb, pr	ML	S, NS, B, M	-	Robayda 1161
<i>Crassocephalum crepidioides</i> (Benth.) S. Moore	-	Herb, er	AF, FL	P	-	Robayda 2235
<i>Eclipta alba</i> (L.) Hassk.	Kalo keshi	Herb, pr	FL, RS	All upazilas	M	Robayda 2306

Scientific name	Bangla name	Habit	Habitat	Distribution	Use	RSE
<i>Elephantopus scaber</i> L.	Hastipadi	Herb, er	FL	M, S	M	Robayda 54
<i>Emilia sonchifolia</i> (L.) DC.	Mechitra	Herb, er	RS	NS, P	-	Robayda 2460
<i>Enydra fluctuans</i> DC.	Helencha	Herb, aq	WL	All upazilas	V	Robayda 1216
<i>Gnaphalium luteoalbum</i> L.	Bara Kamra	Herb, er	ML, AF	All upazilas	-	Robayda 194
<i>Grangea maderaspatana</i> (L.) Poir.	Nemuti	Herb, pr	ML	NS, P, B, S	M	Robayda 169
<i>Mikania cordata</i> (Burm. f.) B.L. Rob.	Taralata	Herb, cl	RS, SJ	All upazilas	M	Robayda 1986
<i>Parthenium hysterophorus</i> L.	-	Herb, er	RS	NS	-	Robayda 2967
<i>Pseudelephantopus spicatus</i> (B. Juss. ex Aubl.) C.F. Baker	-	Herb, er	RS, FL	P, NS, B, S, M	-	Robayda 1791
<i>Sonchus wightianus</i> DC.	-	Herb, er	FL	P	-	Robayda 1760
<i>Spilanthes calva</i> DC.	Surja kannya	Herb, dc	FL, RS	All upazilas	M	Robayda 2177
<i>Synedrella nodiflora</i> (L.) Gaertn.	Nakphul	Herb, er	FL, RS	All upazilas	M	Robayda 1824
<i>Tridax procumbens</i> L.	Tridhara	Herb, pc	RS	All upazilas	M	Robayda 1919
<i>Vernonia cinerea</i> (L.) Less.	Shialmutra	Herb, er	RS, FL	All upazilas	-	Robayda 1389
<i>Wedelia trilobata</i> (L.) Hitchc.	Baharibhringaraj	Herb, pc	RS, FL	B, NS	O	Robayda 2455
<i>Xanthium indicum</i> J. Koenig ex Roxb.	Ghagra	Herb, er	ML	P, B, M, S	M	Robayda 933

LEGEND: Habit. aq = aquatic, cl = climbing, dc = decumbent, er = erect, l = large, m = medium, pc = procumbent, pr = prostrate, ps = parasitic, s = small, sc = scandent, tw = twiner. Habitat. AF = Agricultural Field, cu = Cultivated, FL = Fallow Land, ML = Marginal Land, Pl = Planted, RS = Roadsides, SJ = Scrub Jungle, SP = Semi Parasitic, TT = Tree Trunk, WL = Wet Land, WD = Wood Land. Distrib. = Distribution. B = Belabo, M = Monohordi, NS = Narsingdi Sadar, P = Palash, R = Raipura, S = Shibpur. Use. B & Th = Binding & Thatching Material, Dy = dye, Fb = Fiber, Fd = fodder, Fr = Fruit, Fw = Fuel Wood, M = Medicine, O = Ornamental, Ol = Oil, Pu = pulse, Sp = Spice, T = Timber, and V = Vegetable. RSE = Representative Specimens Examined.

## Results and Discussion

This study has confirmed the occurrence of total 468 species of dicotyledons (Magnoliopsida) under 326 genera and 85 families in Narsingdi district. Among these families, 30 were represented by single species each and only 17 by more than 10 (10-53) species. Fabaceae with 53 species of 37 genera was recognized as the largest family in this study area, followed by Asteraceae with 25 species under 24 genera and Rubiaceae with 21 species of 17 genera. *Ficus* L. with eight species was the largest genus in this area, which was followed by *Persicaria* (L.) Mill. and *Solanum* L. with seven species each and *Lindernia* All. with six species, *Phyllanthus* L. with five species and *Acacia* Mill., *Amaranthus* L., *Senna* Mill., *Sida* L. and *Trichosanthes* L. with four species each. Rest of the families were consisted of two or three species each. These data on the genera and species indicate that Narsingdi district is still rich in dicotyledons. The study area was dominated by the herbs, comprised of 230 (49.14%) species that were followed by the trees of 120 (25.64%) species, and the shrubs of 118 (25.21%) species. In this area, the roadsides, harbouring the highest number of species (226 species), were the most common type of habitat and the agricultural fields with relatively lower number of species (19 species) were the occasional habitat.

In Narsingdi district, total 200 species were commonly distributed in its all upazilas, 58 species in two upazilas, 83 species in three upazilas, 58 species in four upazilas and only four species in five upazilas. 14 species exclusively occurred in Palash, 13 in each of Belabo and Shibpur, 10 in Narsingdi Sadar, nine in Monohordi and only six in Raipura upazila. Belabo upazila accommodated total 351 species, which was followed by Shibpur, Monohordi, Narsingdi Sadar, Palash and Raipura upazilas harbouring 344, 317, 313, 291 and 248 species, respectively. Based on these data, the dicotyledonous flora was considered relatively richer in Belabo, Shibpur, Monohordi and Narsingdi Sadar upazilas, in comparison to those of Palash and Raipura upazilas. However, if these species enumeration are considered in term of total land areas of these upazilas,

then their sequence turns in to Belabo, followed by Palash, Monohordi, Shibpur, Narsingdi Sadar, and Raipura. According to Jaccard coefficient, the similarity in six upazilas of Narsingdi district in harboring the dicotyledonous species was 75.47% (Fig. 1). It indicates that the species composition in these upazilas are more similar rather than different if they are compared all together. However, the similarities in between the two upazilas only varied from 9.03% (in Monohordi and Raipura upazilas) to 50% (in Monohordi and Belabo upazilas).

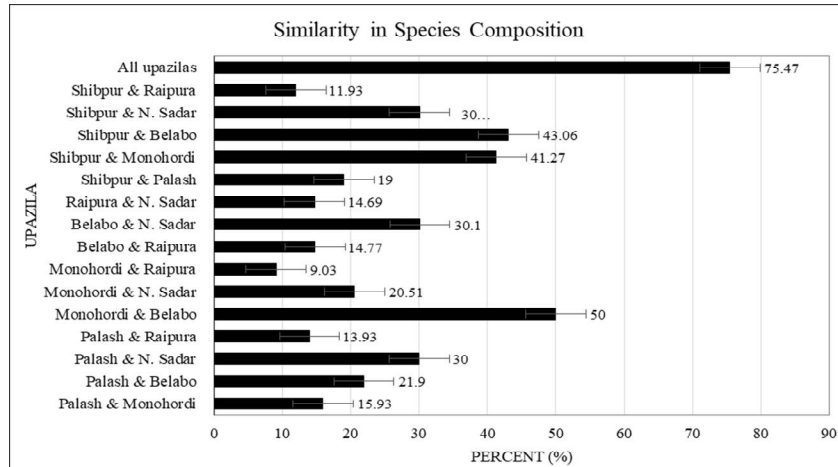


Fig. 1. Similarity in species composition in the upazilas of Narsingdi district based on Jaccard coefficient (Jaccard, 1912).

These records on dicotyledonous species of six upazilas of Narsingdi district are higher than the enumeration of this plant group in some upazilas of other districts by the previous studies, (Islam *et al.*, 2009; Rahman *et al.*, 2012; Sarker *et al.*, 2013; Sajib *et al.*, 2014; Mahmudah *et al.*, 2017; Rahman *et al.*, 2019). Whereas, the record on dicot species of Raipura upazila by this study is somewhat lower than that of Munshiganj Sadar upazila by Rahman *et al.*, 2013, though those of other upazilas of Narsingdi district are notably higher. Considering the size of the study area, the dicotyledonous flora of whole Narsingdi district seems richer in comparison to those of Sundarbans, Patuakhali district and Rajshahi district, as reported by Rahman *et al.* (2017), Sultana (2012) and Rahman (2013), respectively. Whereas, the dicotyledones of this district is relatively poorer than those of few forest areas *viz.*, Sitapahar Reserve Forest (Uddin *et al.*, 1998; Rashid and Chowdhury, 2013), Satchari National Park (Arefin *et al.*, 2011); Hazarikhil Wildlife Sanctuary (Rahman, 2017), and Rajkandi Reserve Forest (Haque *et al.*, 2018). These variation in species composition of different areas might be due to different natural, biogeographical and anthropogenic factors, drivers or threats etc. functioning in these area, and the methods and intenseness of the studies as well.

During this study, total 333 dicot species of Narsingdi district were figured out as economically useful. The major categories of these species were medicinal (167 species), timber (46 species), fruit (37 species), ornamental (60 species), vegetable (43 species), fodder (9 species), fiber (11 species), fuel wood (12 species), oil yielding (five species), pulse (four species) and spices (three species). Among these species, 67 were recognized to be useful in two to three categories. The total number of dicot species (468) recorded from Narsingdi district during this study was 17.84% of the total 2623 species, and the number of dicot families (89) was 56.32% of



the total 158 families reported for Bangladesh by Ahmed *et al.* (2008-2009). However, these proportions of the dicots of this district would be decreased if the flora of Bangladesh is explored completely.

One threatened species *Rauvolfia serpentina* (L.) Benth. ex Kurz found in the study area is already included in Red Data Book of Vascular Plants of Bangladesh (Khan *et al.*, 2001). The species *Geophila repens* (L.) I.M. Johnst., rediscovered (Khanam *et al.*, 2018) from this area, was found as threatened there, which is not yet included in the Red Data Book of Vascular Plants of Bangladesh. In the study area, the populations of *Geophila repens* (L.) I. M. Johnst. and *Rauvolfia serpentina* (L.) Benth. ex Kurz were comprised of total 50 and nine individuals, respectively. *G. repens* and *R. serpentina* were confined to two and four localities with the Extent of Occurrence (EOO) and Area of Occupancy (AOO) of 250 km<sup>2</sup> and 25 km<sup>2</sup>, and 280 km<sup>2</sup> and 50 km<sup>2</sup>, respectively. Another species *Acmella radicans* (Jacq.) R.K. Jansen was found in five localities of Shibpur upazila with total 40 individuals only. Its EOO and AOO were estimated as 120 km<sup>2</sup> and 15 km<sup>2</sup>, respectively. The regeneration in these three species was poor and their localities were under the regular stress of habitat destruction due to which these species have been considered as Endangered (E) in Narsingdi district. Both of *Acmella radicans* and *Geophila repens* might be included in the Red Data Book of Vascular Plants of Bangladesh and IUCN Red List for Bangladesh following exploration in other areas of this country. Different anthropogenic activities continuously performed by increased human population, especially vegetation clearing, unnecessary firing, unplanned agricultural extension, over exploitation of natural resources, and habitat fragmentation and depletion; soil erosion; invasion of some exotic species (e.g. *Acacia auriculiformis*, *Chromolaena odorata*, *Eucalyptus camaldulensis*, *Mikania cordata* and *Parthenium hysterophorus*); poor regeneration in some species; lack of awareness in the local people; and lack of proper management programs etc. are the major functional threats to the flora of the study area.

The taxonomic information provided by this study on the species of dicotyledons extant in Narsingdi district can serve as an important guiding database to track the trend of changes in the floristic composition, plant species diversity and vegetation in course of time due to natural and anthropogenic stresses, contribute in undertaking appropriate biodiversity conservation initiatives and plant resource-based socioeconomic development and help in estimating the impacts of climate change in this area. This study highly recommends for regular inventory, monitoring and specific research programs on the flora and plant diversity of this district and implementation of appropriate conservation measures for the threatened and depleting plant species of this area.

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