

## A PRELIMINARY INVENTORY OF ANGIOSPERMIC FLORA OF BAGATIPARA UPAZILA, NATORE, BANGLADESH

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### Abstract

Preparation of the country's flora is very challenging until baseline information on the flora of all district or upazila is available. The purpose of this inventory was to record angiosperm plant species available in the different habitats of Bagatipara upazila, which is located in the eastern part of Rajshahi district. The traditional taxonomic method was applied for plant sample collection in different seasons of the year 2022 and the identification of the collected samples. This research resulted in the recording of a total of 377 species in 92 families. Among them, 310 species were from Magnoliopsida, and 67 were from Liliopsida. *Asteraceae* and *Poaceae* were the leading families of Magnoliopsida and Liliopsida, respectively. One-fourth of the total plant species were exotic, and more than half were valuable medicinal species. *Artocarpus lacucha*, *Bridelia stipularis*, *Callicarpa longifolia*, *Eranthemum pulchellum*, *Oroxylum indicum*, *Potentilla supina*, *Sterculia foetida*, and *Terminalia arjuna* were locally found rare. Threats such as climate change, expansion of arable land and pisciculture, use of herbicides, over exploitation, clearing brushwood, and unplanned construction activities have been identified. The present study concludes that the floristic composition of this area is still rich, though the area is facing some threats. Therefore, we strongly recommend adopting effective and adequate measures for sustainable conservation and monitoring of the biodiversity of this area.

### Introduction

Information of floristic research is important for the sustainable use and conservation of plant resource as well as resource based-development in the respective area. Floristic research in a particular area provides valuable information about existing plant species in that area, such as, their habitat, uses, status, threats, and so on. Bagatipara is an upazila of North-Western district, Natore and adjacent to the warmer zone of Bangladesh. Both urban and semi-urban or rural areas are found in this upazila. It has mixed habitats and ecosystems such as agricultural fields, railway and road sides, fallow lands, gardens, grooves, thickets, canal or river banks and a little wet land which support luxuriant formation of plants especially flowering plants. Bangladesh is very rich in biodiversity due to its unique geographical location and seasonal variation. The flora of Bangladesh is thought to consist of approx. 5000 species of angiosperms (Khan, 1977). Unfortunately, a number of plant species are disappearing day after day at an alarming rate due to anthropogenic disturbance such as habit destruction, over-exploitation, pollution, and invasion of exotic species. Apart from these, recent climate change conditions are becoming serious threats to the biodiversity of Bangladesh. Despite several floristic studies (Alam *et al.*, 2006; Islam *et al.*, 2009; Tutul *et al.*, 2010; Uddin and Hassan, 2010; Arefin *et al.*, 2011; Sarker *et al.*, 2013; Uddin *et al.*, 2013; Kona and Rahman, 2015; Uddin *et al.*, 2015; Uddin and Abiadbullah, 2016; Mahmudah *et al.*, 2017; Rahman *et al.*, 2017; Khan *et al.*, 2021; Islam *et al.*, 2022) being conducted since the

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emergence of Bangladesh, the country's floristic exploration has not yet been completed. As a result, the floristic composition in most of the upazila or districts is still unknown or little known. As we know, so far a few work has been done by researchers or botanists in Natore district (Hasan *et al.*, 2013; Sultana and Rahman, 2017; Hasan, 2020) focusing only medicinal plant species. But no comprehensive floristic research has been done in Bagatipara upazila before. Keeping this view in mind we decided to explore the floristic composition of Bagatipara upazila. The objectives of the current work is to formulate baseline data on the floristic composition in Bagatipara upazila along with other associated information that will contribute to understanding the flora of Bangladesh.

## Materials and Methods

### Study area

Bagatipara Upazila of Natore district is located between 24°15' and 24°22' N and 89°13' and 89°26' E. It covers an area of 139.86 km<sup>2</sup> and is surrounded by Natore Sadar upazila, Lalpur upazila and Baraigram upazila to the north, south, east respectively and three upazilas of Rajshahi district (Charghat, Bagha and Puthia) to the west (Fig. 1) (Banglapedia). The topography of Bagatipara is typically plane and its average altitude is 19.24 m. (<https://elevation.maplogs.com>) and has a "Tropical wet and dry" climate (<https://weatherandclimate.com/bangladesh/rajshahi/bagatipara>).

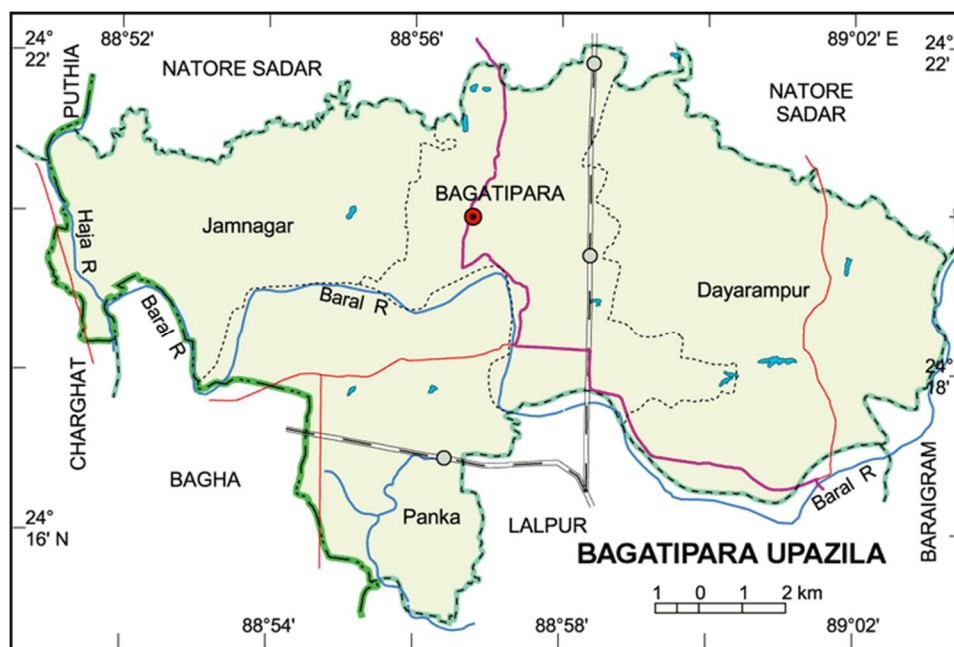


Fig. 1. Map of Bagatipara Upazila, Natore. (Source: Banglapedia)

### Data collections

This work was carried out from January 2022 to December 2022 to document and enlisting angiospermic taxa in different seasons and divers habitat of the study area. Repeated visits were done to every part of the study area and was collect specimen following conventional methods. Relevant floras (Ahmed *et al.*, 2009; Uddin and Hassan, 2018), and published articles were

consulted for specimen identification. All specimen were housed at Department of Botany, Rajshahi Government City College, Rajshahi. Various information was obtained through free interviews and informal conversation. The information regarding the endangered plants and their conservation has been gathered from local farmers, elderly and knowledgeable persons. Twenty five (21 men and 4 women) individuals were interviewed. Among them, 7 were of ages 20-40 years, 12 were 41-60 years and 6 were of ages more than 61 years. To arrange the collected families in this article, Cronquist's (1988) system was followed in the arrangement of the families, and the species under the same family were arranged alphabetically (Table 1). Besides that, some families have been sited according to APG IV system (Angiosperm Phylogeny Group, 2016) which was not found in Cronquist (1988). Scientific names were mentioned according to POWO (Plants of the World Online). Local names were mentioned according to Pasha and Uddin (2013) and Huq (2019). Exotic plant species have been determined by consulting Ahmed *et al.* (2009), Dutta *et al.* (2015), Uddin *et al.* (2021) and Uddin *et al.* (2022). Medicinal plant species have been determined by consulting Uddin *et al.* (2022), Mitu *et al.* (2022) and Rifat *et al.* (2022).

### Results and Discussion

From the study area, total 377 plant species (both wild and cultivated) have been collected and they were distributed under 92 families. For each species scientific name, bangla name, family name, habits, habitats, uses, status, origin and occurrence were provided (Table 1). Magnoliopsida were represented by 310 species from 242 genera while Liliopsida comprising of 67 species from 49 genera. Earlier, Rahman *et al.* (2019) documented 216 species under 72 families and Khatun *et al.* (2022) reported 194 species under 72 families from adjacent Lalpur and Puthia Upazila respectively. Regarding the distribution of family, Magnoliopsida and Liliopsida consist of 75 and 17 family respectively. The leading family in Magnoliopsida was *Asteraceae* consisting of 31 species and other major families were *Fabaceae* (22), *Acanthaceae* (15) and *Euphorbiaceae* (15). In Liliopsida, *Poaceae* appeared as the largest family consisting of 22 species and the other major families were *Cyperaceae* (09) and *Araceae* (08). The largest genus in Magnoliopsida was *Solanum* bearing 8 species followed by *Ficus* and *Euphorbia* bearing 6 species each and *Phyllanthas* bearing 5 species. On the other hand, *Cyperus* was the major genus in Liliopsida consisting of 5 species followed by *Commelina* consisting of 4 species. Species of all habit such as herbs, shrubs, trees, climbers (liana and vine) and grasses were found in this study area. Among the species, herbs represent 175 species and appear as a dominant habit which was 46.42% of total collection (Fig. 2) while shrubs, trees, climbers and others (Bamboo and grasses) representing 16.71%, 18.75%, 10.88% and 7.43% respectively. Regarding to habitat (place of collection), most species were found and collected from the road or railway side consisting of 138 species which were 36.60% of total habitat (Fig. 2). The second and the third largest habitat were fallow lands (25.46%) and homestead (24.40%) respectively. Many herbaceous weeds were found in crop field round the year with the seasonal cultivated crops especially in winter. Among the recorded plants, 30 species were cultivated as crops, 75 were planted and the rest were found as a wild species. Most of the trees and shrubs found in homesteads habitat were planted by the householders for their daily use such as fruit, vegetables, firewood, forage, construction materials, spices and herbal medicines or for economic benefits (Islam *et al.*, 2015). Some species were found two or more habitat like fallow land and road side or homestead. Based on usefulness, a total of 229 species were found important for food, fiber, fire wood, medicine, spices, building materials, economic benefits and beautification. 169 species are found significant for medicine. Local residents were accustomed to consume 67 species in from of fruit, vegetable and grain, 18 timber yielding species were used for furniture and others wooden work. The rest were important for miscellaneous uses

**Table 1. Flowering species of Bagatipara Upazila of Natore, Bangladesh.**

Scientific Name	Bangla Name	Habit	Habitat	Use	Status	Origin	Occur	RSE
<b>MAGNOLIOPSIDA</b>								
<b>Annonaceae</b>								
<i>Annona reticulata</i> L.	Nona	T	Hs	Ed	Wd	I	C	TH 2562
<i>Annona squamosa</i> L.	Ata	T	Hs	Ed,Me	Wd	E	O	TH 2523
<i>Monoonlongifolium</i> (Sonn.) B.Xue&R.M.K.Saunders	Debdaru	T	Rs	Or	Pt	E	O	TH 2043
<b>Lauraceae</b>								
<i>Cinnamomum tamala</i> (Buch.-Ham.) T.Nees&C.H.Eberm.	Tejpata	T	Hs	Sp,Me	Pt	I	O	TH 2000
<i>Litsea monopetalata</i> (Roxb.) Pers.	Bara kukurchita	T	Hs	Me	Wd	I	O	TH 2327
<b>Piperaceae</b>								
<i>Piper longum</i> L.	Pepul	V	Rs	Me	Wd	I	C	TH 2513
<b>Nymphaeaceae</b>								
<i>Nymphaea nouchali</i> Burm.f.	Shapla	H	Aq	Me	Wd	I	C	TH 2649
<i>Nymphaea pubescens</i> Willd.	Shaluk	H	Aq	Ed	Wd	I	C	TH 2677
<i>Nymphaea rubra</i> Roxb. ex Andrews	Lal-shapla	H	Aq	Me	Pt	I	O	TH 2710
<b>Ranunculaceae</b>								
<i>Clematis zeylanica</i> (L.) Poir.	Chagolboti	L	Rs	Me	Wd	I	O	TH 2495
<i>Nigella sativa</i> L.	Kalojira	H		Sp, Me	Cl	E	O	TH 2118
<i>Ranunculus sceleratus</i> L.	Palik	H	Wt	Me	Wd	E	O	TH 2201
<b>Menispermaceae</b>								
<i>Cocculus hirsutus</i> (L.) W.Theob.	Jaljamani	L	Rs	Me	Wd	I	C	TH 1927
<i>Stephania japonica</i> (Thunb.) Miers	Nimuka	L	Rs	Me	Wd	I	C	TH 2509
<i>Tiliacora acuminata</i> (Lam.) Miers	Tiliacora	L	Rs	--	Wd	I	C	TH 2290
<b>Papaveraceae</b>								
<i>Argemone mexicana</i> L.	Shialkanta	H	Fl, Rs	Me	Wd	E	C	TH 2289
<b>Fumariaceae</b>								
<i>Fumaria parviflora</i> Lam.	Bonsalpa	H	Cf		Wd	E	C	TH 2011
<b>Cannabaceae</b>								
<i>Cannabis sativa</i> L.	Siddhi	H	Fl	Me	Wd	E	C	TH 2159
<b>Ulmaceae</b>								
<i>Trema orientalis</i> (L.) Blume	Jiban	T	Hs	Ot	Wd	I	C	TH 2279
<b>Moraceae</b>								
<i>Artocarpus heterophyllus</i> Lam.	Kanthal	T	Hs	Ed, Ti	Pt	I	C	TH 2149
<i>Artocarpus lacucha</i> Buch.-Ham.	Deua	T	Hs	Ed, Me	Wd	I	R	TH 2144
<i>Ficus benghalensis</i> L.	Bot	T	Rs	Me	Pt,Wd	I	C	TH 2570
<i>Ficus heterophylla</i> L.f.	Bhuidumur	S, Sc	Rs		Wd	I	C	TH 2195
<i>Ficus hispida</i> L.f.	Kak dumur	S	Rs	Me	Wd	I	C	TH 2573
<i>Ficus racemosa</i> L.	Jag dumur	T	Hs	Ed, Me	Wd	I	C	TH 2867
<i>Ficus religiosa</i> L.	Assawath	T	Rs	Me	Pt,Wd	I	C	TH 2286
<i>Ficus rumphii</i> Blume	Gai assawath	T	Rs	Ot	Wd	I	C	TH 2576
<i>Streblus asper</i> Lour.	Shaora	T	Hs	Me	Wd	I	C	TH 2181
<b>Urticaceae</b>								
<i>Pouzolzia zeylanica</i> (L.) Benn.	Kullarruki	H	Fl	Me	Wd	I	C	TH 2398
<b>Casuarinaceae</b>								
<i>Casuarina equisetifolia</i> L.	Jhau	T	Rs	Or, Me	Pt	E	O	TH 2796

Table 1 contd.

Scientific Name	Bangla Name	Habit	Habitat	Use	Status	Origin	Occur	RSE
<b>Nyctaginaceae</b>								
<i>Boerhavia diffusa</i> L.	Punarnava	H	Fl, Rs	Me	Wd	I	C	TH 2073
<i>Mirabilis jalapa</i> L.	Sondha maloti	H		Or,Me	Pt	E	C	TH 2548
<b>Chenopodiaceae</b>								
<i>Chenopodium album</i> L.	Batuashak	H	Cf	Ed,Me	Wd	I	C	TH 2007
<b>Amaranthaceae</b>								
<i>Achyranthes aspera</i> L.	Apang	S	Fl	Me	Wd	I	C	TH 1839
<i>Alternanthera ficoidea</i> (L.) P.Beauv.	---	H	Rs		Wd	E	C	TH 1952
<i>Alternanthera paronychioides</i> A.St.	Jhulikhata	H	Fl, Rs		Wd	E	O	TH 2266
<i>Alternanthera sessilis</i> (L.) R.Br. ex DC.	Chanchi	H	Cf, Rs	Ed,Me	Wd	I	C	TH 1951
<i>Amaranthus spinosus</i> L.	Kantanotey	H	Cf, Fl, Rs	Ed,Me	Wd	I	C	TH 1863
<i>Amaranthus viridis</i> L.	Notey	H	Cf, Fl, Hs	Ed	Wd	I	C	TH 2351
<i>Celosia argentea</i> L.	Moroghul	H	Hs	Or	Pt	E	C	TH 1878
<i>Digera muricata</i> (L.) Mart.	Latamouri	H	Cf		Wd	I	C	TH 2480
<i>Ouret lanata</i> (L.) Kuntze	Chya	H	Rs		Wd	I	C	TH 1844
<b>Portulacaceae</b>								
<i>Portulaca oleracea</i> L.	Boronunia	H	Cf,Rs	Me	Wd	I	C	TH 2331
<i>Portulaca quadrifida</i> L.	Chhoto nunia	H	Cf, Fl		Wd	I	C	TH 2323
<b>Basellaceae</b>								
<i>Basella alba</i> L.	Puishak	H	Hs	Me	Cl	I	C	TH 2134
<b>Molluginaceae</b>								
<i>Glinus oppositifolius</i> (L.) Aug. DC.	Gima sak	H	Fl, Rs	Me	Wd	I	O	TH 2502
<b>Caryophyllaceae</b>								
<i>Stellaria media</i> (L.) Vill.	Sada fulki	H	Cf		Wd	I	C	TH 2023
<b>Polygonaceae</b>								
<i>Persicaria barbata</i> (L.) H. Hara	Bishkatali	H	Wt		Wd	I	O	TH 2475
<i>Persicaria glabra</i> (Willd.) M.Gómez	Bihagni	H	Wt		Wd	I	C	TH 2820
<i>Persicaria lapathifolia</i> (L.) Delarbre	Lomoshbishkatali	H	Wt		Wd	E	O	TH 2818
<i>Polygonum plebeium</i> R.Br.	Chemti sag	H	Cf		Wd	I	C	TH 2169
<i>Rumex dentatus</i> L.	Bon palong	H	Wt		Wd	I	C	TH 2125
<b>Dilleniaceae</b>								
<i>Dillenia indica</i> L.	Chalta	T	Hs	Ed, Me	Pt	I	O	TH 2709
<b>Elatinaceae</b>								
<i>Bergia ammannioides</i> Roxb.	Keshuriy	H	Rs		Wd	I	O	TH 2105
<b>Sterculiaceae</b>								
<i>Melochia corchorifolia</i> L.	Tikiokra	H	Rs	Me	Wd	I	O	TH 2644
<i>Sterculia foetida</i> L.	Jongli badam	T	Hs	Ed	Pt	I	R	TH 2853
<i>Pentapetes phoenicea</i> L.	Dupur mondi	S	Hs	Or, Me	Wd	I	C	TH 2624
<b>Bombacaceae</b>								
<i>Bombax ceiba</i> L.	Simul	T	Hs, Rs	Fi, Me	Wd	I	C	TH 2057
<b>Malvaceae</b>								
<i>Abutilon indicum</i> (L.) Sweet	Jhumka	S	Fl	Me	Wd	I	C	TH 2529

Table 1 contd.

Scientific Name	Bangla Name	Habit	Habitat	Use	Status	Origin	Occur	RSE
<i>Hibiscus acetosella</i> Welw. ex Hiern	Lalpata chukai	S	Hs	Or	Pt	E	C	TH 2751
<i>Hibiscus rosa-sinensis</i> L.	Joba	S	Hs	Or,Me	Pt	E	C	TH 2534
<i>Hibiscus vitifolius</i> L.	Ban karpas	S	Rs		Wd	I	O	TH 2518
<i>Malva viscus penduliflorus</i> Moc. & Sessé ex DC.	Duli joba	S	Hs	Or	Pt	E	O	TH 2538
<i>Sida cordata</i> (Burm.f.) Borss. Waalk.	Pitberal	S	Fl, Rs		Wd	I	C	TH 1993
<i>Urena lobata</i> L.	Banokra	S	Rs	Me	Wd	I	C	TH 2391
<b>Tiliaceae</b>								
<i>Corchorus olitorius</i> L.	Toshapat	S		Fi	Cl	I	C	TH 2477
<i>Grewia asiatica</i> L.	Phalsa	T	Hs	Ed,Me	Wd	I	O	TH 2700
<b>Lecythidaceae</b>								
<i>Barringtonia acutangula</i> (L.) Gaertn.	Hijal	T	Wt	Me	Wd	I	O	TH 2528
<b>Flacourtiaceae</b>								
<i>Casearia tomentosa</i> Roxb.	Chila	T	Hs, Rs		Wd	I	O	TH 2742
<i>Flacourtia indica</i> (Burm.f.) Merr.	Boiciful	S, Ar	Rs	Ed	Wd	I	C	TH 2272
<b>Passifloraceae</b>								
<i>Passiflora suberosa</i> L.	Mela jhumka	V	Rs		Wd	E	O	TH 2645
<b>Cucurbitaceae</b>								
<i>Benincasa hispida</i> (Thunb.) Cogn.	Chalkumra	V	Hs	Ed, Me	Cl	I	C	TH 2210
<i>Citrullus lanatus</i> (Thunb.) Matsum. & Nakai	Tarmuj	V		Ed, Me	Cl	E	O	TH 2481
<i>Coccinia grandis</i> (L.) Voigt	Telakucha	L	Fl, Rs	Me	Wd	I	C	TH 2360
<i>Cucumis maderaspatanus</i> L.	Agmkhi	V	Rs		Wd	I	C	TH 2362
<i>Cucumis melo</i> L.	Kakri	V	Cf		Wd	E	C	TH 2393
<i>Lagenaria siceraria</i> (Molina) Standl.	Lau	V	Hs	Ed	Cl	I	C	TH 2168
<i>Luffa aegyptiaca</i> Mill.	Dhundal	V	Hs	Ed, Me	Cl	I	C	TH 2734
<i>Momordica charantia</i> L.	Korolla	V		Ed, Me	Cl	I	C	TH 2354
<i>Trichosanthes costata</i> Blume	Bati jhinga	V	Rs		Wd	I	O	TH 2458
<i>Trichosanthes cucumerina</i> L.	Bon chichinga	V	Rs		Wd	I	C	TH 2490
<i>Trichosanthes dioica</i> Roxb.	Potol	L		Ed, Me	Cl	I	C	TH 2334
<b>Salicaceae</b>								
<i>Salix tetrasperma</i> Roxb.	Panijoma	T	Rs	Me	Wd	I	O	TH 2769
<b>Capparaceae</b>								
<i>Capparis zeylanica</i> L.	Kalkera	L	Rs	Me	Wd	I	C	TH 2218
<i>Cleome viscosa</i> L.	Holde hurhurey	H	Fl	Me	Wd	I	C	TH 2454
<b>Brassicaceae</b>								
<i>Brassica napus</i> L.	Maghi sarisha	H		Oi	Cl	E	C	TH 1905
<i>Rorippa indica</i> (L.) Hiern	Bansarisha	H	Fl, Hs		Wd	I	O	TH 2566
<b>Moringaceae</b>								
<i>Moringa oleifera</i> Lam.	Sajna	T	Hs	Ed, Me	Pt	E	C	TH 2545
<b>Sapotaceae</b>								
<i>Manilkara zapota</i> (L.) P. Royen	Safeda	T	Hs	Ed, Me	Pt	E	O	TH 2401
<b>Ebenaceae</b>								
<i>Diospyros malabarica</i> (Desr.) Kostel.	Gab	T	Hs	Ed, Dy	Wd	I	C	TH 2089
<i>Diospyros montana</i> Roxb.	Tomal	T	Hs		Wd	I	O	TH 2746

Table 1 contd.

Scientific Name	Bangla Name	Habit	Habitat	Use	Status	Origin	Occur	RSE
<b>Primulaceae</b>								
<i>Androsace umbellata</i> (Lour.) Merr.	Satrojaki	H	Rs		Wd	I	O	TH 1963
<i>Lysimachia arvensis</i> (L.) U.Manns & Anderb.	Pakhi chosha	H	Cf		Wd	E	C	TH 1862
<b>Crassulaceae</b>								
<i>Kalanchoe pinnata</i> (Lam.) Pers.	Patric pathorkuchi	H		Me, Or	Pt	E	C	TH 2287
<b>Rosaceae</b>								
<i>Rosa indica</i> L.	Golap	S	Hs	Or	Pt	E	C	TH 2750
<i>Potentilla supina</i> L.	Saktitila	H	Fl		Wd	I	R	TH 2117
<b>Mimosaceae</b>								
<i>Acacia auriculiformis</i> A.Cunn. ex Benth.	Akashmoni	T	Rs	Ti	Pt	E	C	TH 2316
<i>Albizia lebeck</i> (L.) Benth.	Sirish	T	Rs	Ti, Me	Pt	I	C	TH 2229
<i>Albizia procera</i> (Roxb.) Benth.	Koroi	T	Rs	Ti	Pt	I	C	TH 2871
<i>Leucaena leucocephala</i> (Lam.) de Wit	Ipil-ipil	T		Ti	Pt	E	C	TH 2843
<i>Samanea saman</i> (Jacq.) Merr.	Fulkoroi	T	Rs	Ti	Pt	E	C	TH 2255
<i>Senegalia catechu</i> (L.f.) P.J.H.Hurter & Mabb.	Khair	T	Rs	Dy, Me	Pt	I	O	TH 2809
<i>Vachellia nilotica</i> (L.) P.J.H.Hurter & Mabb.	Babla	T	Rs	Ti, Me	Wd	I	C	TH 2444
<b>Caesalpinaceae</b>								
<i>Bauhinia acuminata</i> L.	Sada kanchan	T	Hs	Or, Me	Pt	I	O	TH 2808
<i>Bauhinia purpurea</i> L.	Deb kanchan	T	Hs	Or, Me	Pt	I	O	TH 2783
<i>Delonix regia</i> (Bojer ex Hook.) Raf.	Krishna chura	T	Rs	Or, Me	Pt	E	C	TH 2368
<i>Senna alata</i> (L.) Roxb.	Dadmardan	S	Wt	Me	Wd	E	O	TH 2684
<i>Senna siamea</i> (Lam.) H.S.Irwin & Barneby	Minjiri	T	Rs	Ti	Pt	E	C	TH 2702
<i>Senna sophera</i> (L.) Roxb.	Kalkasunda	S	Fl, Rs	Me	Wd	I	C	TH 2647
<i>Senna tora</i> (L.) Roxb.	Chakunda	S	Fl, Rs	Me	Wd	I	C	TH 2605
<i>Tamarindus indica</i> L.	Tentul	T	Hs	Ed, Ti, Me	Pt, Wd	E	C	TH 2592
<b>Fabaceae</b>								
<i>Arachis hypogaea</i> L.	Cheena badam	H	--		Cl	E	O	TH 2719
<i>Cajanus cajan</i> (L.) Huth	Arhhar	S	Rs	Ed, Me	Cl	I	C	TH 1837
<i>Canavalia gladiata</i> (Jacq.) DC.	Moushim	V	Hs	Ed	Pt	I	O	TH 2607
<i>Crotalaria spectabilis</i> Roth	Pipli jhanjhuni	S	Fl, Rs	Me	Wd	I	O	TH 1829
<i>Dalbergia sissoo</i> Roxb. ex DC.	Sishookat	T	Rs	Ti, Me	Pt	E	C	TH 2193
<i>Erythrina variegata</i> L.	Mandar	T	Hs	Me	Pt	I	O	TH 2790
<i>Grona triflora</i> (L.) H.Ohashi & K.Ohashi	Kodaliya	H	Fl	Me	Wd	I	C	TH 2604
<i>Guilandina bonduc</i> L.	Nata	S, Ar	Rs	Me	Wd	I	O	TH 2598
<i>Lablab purpureus</i> (L.) Sweet	Shim	V	Hs	Ed	Cl	I	C	TH 2162
<i>Lathyrus aphaca</i> L.	Jongli motor	H	Cf		Wd	I	C	TH 1834
<i>Lathyrus oleraceus</i> Lam.	Motor	H	--	Ed, Me	Cl	E	C	TH 1884
<i>Lathyrus sativus</i> L.	Kheshari	H	--	Ed	Cl	E	C	TH 1865
<i>Medicago lupulina</i> L.	Halude lupin	H	Cf		Wd	E	C	TH 2020

Table 1 contd.

Scientific Name	Bangla Name	Habit	Habitat	Use	Status	Origin	Occur	RSE
<i>Melilotus albus</i> Medik.	Sadamethi	H	Cf		Wd	I	C	TH 2130
<i>Pachyrhizus erosus</i> (L.) Urb.	Kesur	V	Hs	Ed	Cl	E	C	TH 2692
<i>Pleurolobus gangeticus</i> (L.) J.St.-Hil. ex H.Ohashi & K.Ohashi	Salpani	S	Rs	Me	Wd	I	C	TH 2631
<i>Sesbania bispinosa</i> (Jacq.) W.Wight	Dhaincha	H	Fl	Ot	Cl	I	C	TH 1849
<i>Vicia faba</i> L.	Barasim	H	--		Cl	E	C	TH 1974
<i>Vicia hirsuta</i> (L.) Gray	Masrchana	H	Cf		Wd	I	C	TH 1847
<i>Vicia sativa</i> L.	Ankari	H	Cf		Wd	E	C	TH 1857
<i>Vigna mungo</i> (L.) Hepper	Maskalay	H	--	Ed	Cl	I	C	TH 2470
<i>Vigna trilobata</i> (L.) Verdc.	Mugani	H	Fl		Wd	I	C	TH 2617
<b>Lythraceae</b>								
<i>Ammannia baccifera</i> L.	Dadmari	H	Fl		Wd	I	O	TH 2723
<i>Cuphea hyssopifolia</i> Kunth	Kuphea	S	--	Or	Pt	E	O	TH 2408
<i>Lawsonia inermis</i> L.	Mehedi	S	Hs	Dy,Me	Pt	I	C	TH 2540
<i>Rotala rotundifolia</i> (Buch.Ham. ex Roxb.) Koehne	Dim ghurni	H	Fl, Wt		Wd	I	O	TH 2101
<b>Myrtaceae</b>								
<i>Eucalyptus camaldulensis</i> Dehnh.	Duli eucalyptus	T	Rs	Ti	Pt	E	C	TH 2594
<i>Psidium guajava</i> L.	Peyara	S	Hs	Ed,Me	Pt	I	C	TH 2787
<i>Syzygium cumini</i> (L.) Skeels	Jam	T	Hs, Rs	Ed,Ti, Me	Pt	I	C	TH 2220
<i>Syzygium samarangense</i> (Blume) Merr. & L.M.Perry	Samari jamrul	T	Hs	Ed	Pt	E	O	TH 2148
<b>Punicaceae</b>								
<i>Punica granatum</i> L.	Dalim	S	Hs	Ed, Me	Pt	I	C	TH 2793
<b>Onagraceae</b>								
<i>Ludwigia adscendens</i> (L.) H.Hara	Keshordam	H	Aq		Wd	I	C	TH 2167
<i>Ludwigia hyssopifolia</i> (G.Don) Exell	Panilong	H	Fl, Wt		Wd	I	C	TH 2451
<i>Ludwigia prostrata</i> Roxb.	Shayankura	H	Fl, Wt		Wd	I	C	TH 2448
<b>Combretaceae</b>								
<i>Terminalia arjuna</i> (Roxb. ex DC.) Wight & Arn.	Arjun	T	Rs	Me	Pt	I	R	TH 2797
<b>Loranthaceae</b>								
<i>Dendrophthoe falcata</i> (L.f.) Ettingsh.	Bandha	S, Ar	Ep		Wd	I	C	TH 2037
<i>Macrosolen cochinchinensis</i> (Lour.) Tiegh.	Chota banda	S, Ar	Ep		Wd	I	C	TH 2441
<b>Euphorbiaceae</b>								
<i>Acalypha indica</i> L.	Muktajhuri	H	Fl	Me	Wd	I	C	TH 1885
<i>Breynia vitis-idaea</i> (Burm.f.) C.E.C.Fisch.	Vita salpoti	S	Rs		Wd	I	O	TH 2553
<i>Bridelia stipularis</i> (L.) Blume	Pat khowi	L	Rs		Wd	I	R	TH 2844
<i>Chrozophora rottileri</i> (Geiseler) Spreng.	Khudiphora	H	Fl, Rs		Wd	E	C	TH 2048
<i>Codiaeum variegatum</i> (L.) Rumph. ex A.Juss.	Patabahar	S	Hs	Or	Pt	E	C	TH 2856
<i>Croton bonplandianus</i> Baill.	Bankhira	S	Fl, Rs	Me	Wd	E	C	TH 2252
<i>Euphorbia helioscopia</i> L.	Muhabi	H	Cf		Wd	I	C	TH 1971
<i>Euphorbia hirta</i> L.	Dudhiya	H	Fl, Rs	Me	Wd	I	C	TH 2008



Table 1 Contd.

Scientific Name	Bangla Name	Habit	Habitat	Use	Status	Origin	Occur	RSE
<i>Euphorbia hypericifolia</i> L.	Jalsjardama	H	Cf, Fl		Wd	E	C	TH 2369
<i>Euphorbia prostrata</i> Aiton	Sijhori	H	Cf		Wd	E	C	TH 2302
<i>Euphorbia serpens</i> Kunth	--	H	Fl, Rs		Wd	E	C	TH 2685
<i>Euphorbia tithymaloides</i> L.	Berachita	S	Hs		Pt	E	C	TH 2271
<i>Mallotus nudiflorus</i> (L.) Kulju & Welzen	Pitali	T	Rs	Me	Wd	I	C	TH 2312
<i>Mallotus philippensis</i> (Lam.) Müll. Arg.	Kamela	T	Hs	Me	Wd	I	O	TH 2835
<i>Phyllanthus amarus</i> Schumach. & Thonn.	Vuiamla	H	Cf, Fl	Me	Wd	I	C	TH 2506
<i>Phyllanthus fraternus</i> G.L. Webster	---	H	Cf, Fl		Wd	E	O	TH 2503
<i>Phyllanthus reticulatus</i> Poir.	Panjuli	S	Rs	Me	Wd	I	C	TH 2070
<i>Phyllanthus urinaria</i> L.	Hajarmoni	H	Fl		Wd	I	C	TH 2527
<i>Phyllanthus virgatus</i> G. Forst.	Chhitki	H	Fl		Wd	I	O	TH 2366
<i>Putranjiva roxburghii</i> Wall.	Ghornifol	T	Hs	Ot	Wd	I	O	TH 2815
<i>Ricinus communis</i> L.	Rerhi	S	Hs	Oi, Me	Wd	E	C	TH 1894
<i>Tragia involucrata</i> L.	Bichuti	V	Rs		Wd	I	O	TH 2278
<b>Rhamnaceae</b>								
<i>Ziziphus mauritiana</i> Lam.	Boroi	T, Ar	Fl, Hs	Ed, Me	Pt	I	C	TH 2611
<b>Vitaceae</b>								
<i>Ampelocissus latifolia</i> (Roxb.) Planch.	Gowalia-lata	L	Fl, Rs		Wd	I	C	TH 2516
<i>Causonis trifolia</i> (L.) Mabb. & J. Wen	Amollata	L	Fl, Rs	Me	Wd	I	C	TH 2124
<b>Sapindaceae</b>								
<i>Cardiospermum halicacabum</i> L.	Lataphutiki	V	Rs	Me	Wd	E	C	TH 1872
<i>Litchi chinensis</i> Sonn.	Lichu	T	Hs	Ed	Pt	I	C	TH 2081
<b>Anacardiaceae</b>								
<i>Lannea coromandelica</i> (Houtt.) Merr.	Jiga	T	Hs	Ot	Pt	I	C	TH 2791
<i>Mangifera indica</i> L.	Aam	T	Hs	Ed, Ti, Me	Pt	I	C	TH 2044
<i>Spondias dulcis</i> Parkinson	Bilati amra	T	Hs	Ed	Pt	E	C	TH 2568
<b>Meliaceae</b>								
<i>Aphanamixis polystachya</i> (Wall.) R. Parker	Pitraj	T	Hs	Ti, Me	Wd	I	C	TH 2763
<i>Azadirachta indica</i> A. Juss.	Nim	T	Hs	Me, Ti	Pt	I	C	TH 2243
<i>Khaya anthotheca</i> (Welw.) C. DC.	Lombu	T	Rs	Ti	Pt	E	C	TH 1913
<i>Melia azedarach</i> L.	Ghoranim	T	Hs	Ti, Me	Wd	I	C	TH 2852
<i>Swietenia macrophylla</i> King	Bara mehogani	T	Hs, Rs	Ti	Pt	E	C	TH 2864
<i>Toona ciliata</i> M. Roem.	Toon	T	Hs	Ti	Wd	I	C	TH 2765
<b>Rutaceae</b>								
<i>Aegle marmelos</i> (L.) Corrêa	Bel	T	Hs	Ed, Me	Wd	I	C	TH 2778
<i>Bergera koenigii</i> L.	Borosunga	S	Rs	Me	Wd	I	O	TH 2147
<i>Citrus maxima</i> (Burm.) Merr.	Batabilebu	S	Hs	Ed, Me	Pt	I	C	TH 2789
<i>Citrus × aurantiifolia</i> (Christm.) Swingle	Kagagilebu	S, Ar	Hs	Ed, Me	Pt	I	C	TH 2066
<i>Glycosmis pentaphylla</i> (Retz.) DC.	Ashsaora	S	Rs	Me	Wd	I	C	TH 1918

Table 1 Contd.

Scientific Name	Bangla Name	Habit	Habitat	Use	Status	Origin	Occur	RSE
<i>Limonia acidissima</i> L.	Koethbel	T	Hs	Ed, Me	Pt	I	C	TH 2582
<i>Murraya paniculata</i> (L.) Jack	Kamini	S	Hs	Or, Me	Pt	I	C	TH 2601
<b>Oxalidaceae</b>								
<i>Averrhoa carambola</i> L.	Kamranga	T	Hs	Ed	Pt	I	C	TH 2560
<i>Oxalis corniculata</i> L.	Amrul	H	Fl, Rs	Me	Wd	I	C	TH 2036
<b>Apiaceae</b>								
<i>Hydrocotyle sibthorpioides</i> Lam.	Kuti thankuni	H	Rs		Wd	I	O	TH 2223
<b>Apocynaceae</b>								
<i>Calotropis gigantea</i> (L.) W.T.Aiton	Baro akand	S	Rs	Me	Wd	I	C	TH 2426
<i>Carissa carandas</i> L.	Karamcha	S, Ar	Hs	Ed, Me	Pt	I	O	TH 2357
<i>Hemidesmus indicus</i> (L.) R.Br.	Anontomul	L	Fl, Rs	Me	Wd	I	O	TH 2507
<i>Ichnocarpus frutescens</i> (L.) W.T.Aiton	Shamlata	L	Rs	Me	Wd	I	O	TH 2824
<i>Rauwolfia serpentina</i> (L.) Benth. ex Kurz	Sarpagandha	H	Fl	Me	Wd	I	O	TH 2260
<i>Tabernaemontana divaricata</i> (L.) R.Br. ex Roem. & Schult.	Togarphul	S	Hs	Or	Pt	I	C	TH 2207
<i>Telosma pallida</i> (Roxb.) Craib	Kanjilata	L	Rs		Wd	I	O	TH 2489
<b>Solanaceae</b>								
<i>Cestrum nocturnum</i> L.	Hasna hena	S		Or	Pt	E	C	TH 1969
<i>Datura metel</i> L.	Dhutra	S	Fl, Rs	Me	Wd	E	C	TH 1922
<i>Nicotiana plumbaginifolia</i> Viv.	Bontamak	H	Fl, Rs		Wd	E	C	TH 2214
<i>Physalis angulata</i> L.	Phutki	H	Cf, Fl	Me	Wd	E	C	TH 2397
<i>Solanum americanum</i> Mill.	Tit-begun	H	Fl		Wd	E	C	TH 2733
<i>Solanum erianthum</i> D.Don	Arasa	S	Rs	Me	Wd	E	O	TH 2205
<i>Solanum lycopersicum</i> L.	Tomato	H		Ed, Me	Cl	I	C	TH 2199
<i>Solanum melongena</i> L.	Begun	S, Ar		Ed	Cl	I	C	TH 1994
<i>Solanum torvum</i> Sw.	Gothbegun	S	Fl, Rs			E	C	TH 2069
<i>Solanum tuberosum</i> L.	Alu	H		Ed	Cl	I	C	TH 2034
<i>Solanum villosum</i> Mill.	Villo begun	H	Cf, Fl		Wd	I	C	TH 1908
<i>Solanum violaceum</i> Ortega	Phutki	S, Ar	Rs	Me	Wd	I	C	TH 2033
<b>Convolvulaceae</b>								
<i>Convolvulus arvensis</i> L.	Horin padi	V	Cf		Wd	E	O	TH 2026
<i>Evolvulus nummularius</i> (L.) L.	Bhuiokra	H	Fl, Rs		Wd	I	C	TH 2051
<i>Hewittia malabarica</i> (L.) Suresh	Hiwet	V	Rs		Wd	I	O	TH 2341
<i>Ipomoea aquatica</i> Forssk.	Kalsmi	V	Wt	Ed	Wd	I	C	TH 1936
<i>Ipomoea carnea</i> Jacq.	Dholkalmi	S	Rs	Ot	Pt	I	C	TH 2786
<i>Ipomoea pes-caprae</i> (L.) R.Br.	Chagolkuri kalmi	H	Gr	Or, Me	Pt	I	O	TH 2780
<i>Ipomoea pes-tigris</i> L.	Langulilata	V	Rs		Wd	I	O	TH 2469
<i>Merremia hederacea</i> (Burm.f.) Hallier f.	Kaladana	V	Fl, Rs		Wd	I	C	TH 2686
<i>Operculina turpethum</i> (L.) Silva Manso	Dudh kalmi	L	Rs		Wd	I	O	TH 2693
<b>Cuscutaceae</b>								
<i>Cuscuta reflexa</i> Roxb.	Swarnalata	H	Ep	Me	Wd	E	C	TH 2859

Table 1 Contd.

Scientific Name	Bangla Name	Habit	Habitat	Use	Status	Origin	Occur	RSE
<b>Menyanthaceae</b>								
<i>Nymphoides hydrophylla</i> (Lour.) Kuntze	Chandmala	H	Aq		Wd	I	C	TH 2346
<b>Boraginaceae</b>								
<i>Cordia dichotoma</i> G.Forst.	Bohul	T	Hs		Wd	I	C	TH 2317
<i>Cynoglossum lanceolatum</i> Forssk.	Kukurghiba	H	Rs		Wd	I	O	TH 2402
<i>Heliotropium indicum</i> L.	Hatishur	H	Fl, Wt	Me	Wd	I	C	TH 2233
<b>Lamiaceae</b>								
<i>Anisomeles indica</i> (L.) Kuntze	Gobura	S	Rs		Wd	I	C	TH 2735
<i>Leonurus sibiricus</i> L.	Raktodhrone	H	Fl		Wd	I	C	TH 2019
<i>Leucas lavandulifolia</i> Sm.	Shetodron	H	Fl	Ed, Me	Wd	I	C	TH 2074
<i>Ocimum tenuiflorum</i> L.	Kalotulsi	S		Me	Pt	I	C	TH 1909
<i>Pogostemon benghalensis</i> (Burm.f.) Kuntze	Pacholi	S	Rs	Me	Wd	I	O	TH 2143
<i>Salvia plebeia</i> R.Br.	Bhuitulsi	H	Fl, Rs	Me	Wd	I	C	TH 2174
<b>Verbenaceae</b>								
<i>Callicarpa longifolia</i> Lam.	Boro bormala	S	Hs	Me	Wd	I	R	TH 2427
<i>Clerodendrum indicum</i> (L.) Kuntze	Bamunhati	S	Fl, Rs	Me	Wd	I	O	TH 2802
<i>Clerodendrum infortunatum</i> L.	Bhant	S	Fl, Rs	Me	Wd	I	C	TH 2080
<i>Duranta erecta</i> L.	Kata mehedi	S		Or	Pt	E	O	TH 2536
<i>Gmelina arborea</i> Roxb. ex Sm.	Gamary	T	Rs	Ti, Me	Pt	I	O	TH 2772
<i>Lantana camara</i> L.	Putush	L	Rs	Me	Wd	E	O	TH 2737
<i>Lippia alba</i> (Mill.) N.E.Br. ex Britton & P.Wilson	Vui-okra	H	Rs, Wt		Wd	I	C	TH 2552
<i>Phyla nodiflora</i> (L.) Greene	Vuiokra	H	Fl	Me	Wd	I	C	TH 2310
<i>Premna bengalensis</i> C.B.Clarke	Dauli	S	Hs	Me	Pt	I	O	TH 2840
<i>Tectona grandis</i> L.f.	Segun	T	Hs	Ti, Me	Pt	E	O	TH 2587
<i>Vitex negundo</i> L.	Nishinda	S	Hs	Me	Pt	I	O	TH 2510
<b>Oleaceae</b>								
<i>Jasminum sambac</i> (L.) Aiton	Beli	L	Rs	Me	Wd	I	C	TH 2276
<b>Scrophulariaceae</b>								
<i>Bonnaya antipoda</i> (L.) Druce	Sada panighas	H	Cf, Wt		Wd	I	C	TH 2164
<i>Limnophila heterophylla</i> (Roxb.) Benth.	Patakutra	H	Aq		Wd	I	C	TH 2659
<i>Lindernia procumbens</i> (Krock.) Borbás	Bokpuspo	H	Cf, Fl, Wt		Wd	I	C	TH 2112
<i>Mecardonia procumbens</i> (Mill.) Small	Mikardan	H	Cf, Fl		Wd	E	C	TH 2055
<i>Mazus pumilus</i> (Burm.f.) Steenis	Tutra	H	Cf		Wd	I	C	TH 1932
<i>Scoparia dulcis</i> L.	Bandhoney	H	Fl, Rs	Me	Wd	I	C	TH 1840
<i>Torenia crustacea</i> (L.) Cham. & Schltdl.	Chapraghas	H	Fl, Rs		Wd	I	C	TH 2497
<i>Veronica anagallis-aquatica</i> L.	Paniveronti	H	Wt		Wd	I	O	TH 2185
<i>Yamazakia viscosa</i> (Hornem.) W.R.Barker, Y.S.Liang & Wannan	Atha chapra	H	Wt		Wd	I	O	TH 2439
<b>Acanthaceae</b>								
<i>Andrographis paniculata</i> (Burm.f.) Wall. ex Nees	Kalomegh	H	Hs	Me	Wd	I	O	TH 2758

Table 1 Contd.

Scientific Name	Bangla Name	Habit	Habitat	Use	Status	Origin	Occur	RSE
<i>Ecbolium ligustrinum</i> (Vahl) Vollesen	Nam ecbol	H	Hs	Me	Wd	I	O	TH 2544
<i>Eranthemum pulchellum</i> Andrews	Shuk murali	H	Hs	Me	Pt	I	R	TH 2237
<i>Hygrophila auriculata</i> (Schumach.) Heine	Kulekhara	H	Wt	Me	Wd	I	C	TH 1986
<i>Hygrophila polysperma</i> (Roxb.) T.Anderson	Alai kalai	H	Wt		Wd	I	C	TH 2728
<i>Hygrophila ringens</i> (L.) R.Br. ex Spreng.	---	H	Wt		Wd	I	O	TH 2111
<i>Justicia adhatoda</i> L.	Basak	S	Hs	Me	Pt	I	C	TH 2208
<i>Justicia gendarussa</i> Burm.f.	Jagatmadan	S	Hs	Me	Pt	I	C	TH 1861
<i>Nelsonia canescens</i> (Lam.) Spreng.	Paramul	H	Rs		Wd	I	O	TH 2200
<i>Phaulopsis imbricata</i> (Forssk.) Sweet	Kantasi	H	Rs		Wd	I	O	TH 2876
<i>Ruellia prostrata</i> Poir.	Posta booti	H	Rs		Wd	I	C	TH 2156
<i>Ruellia simplex</i> C.Wright	---	H		Or	Pt	E	O	TH 1893
<i>Ruellia tuberosa</i> L.	Chotpoty	H	Fl, Rs		Wd	E	C	TH 2335
<i>Rungia pectinata</i> (L.) Nees	Pindi	H	Fl		Wd	E	C	TH 1891
<i>Strobilanthes hirta</i> (Vahl) Blume	Buripana	H	Fl		Wd	I	C	TH 2135
<b>Pedaliaceae</b>								
<i>Sesamum indicum</i> L.	Til	S		Oi, Me	Cl	I	C	TH 2308
<b>Bignoniaceae</b>								
<i>Oroxylum indicum</i> (L.) Kurz	Kanidingi	T	Hs	Ed, Me	Wd	I	R	TH 2741
<b>Lentibulariaceae</b>								
<i>Utricularia stellaris</i> L.f.	Patajangi	H	Aq		Wd	I	C	TH 2755
<b>Campanulaceae</b>								
<i>Campanula dimorphantha</i> Schweinf.	Ghanti	H	Rs		Wd	I	O	TH 1999
<i>Wahlenbergia marginata</i> (Thunb.) A.DC.	Nak-phul	H	Cf		Wd	I	C	TH 1998
<b>Rubiaceae</b>								
<i>Dentella repens</i> var. <i>serpyllifolia</i> (Wall. ex Craib) Verdc.	Sharpilbhuipat	H	Fl		Wd	I	C	TH 2446
<i>Meyna spinosa</i> Roxb. ex Link	Mainakanta	S, Ar	Rs	Ed	Wd	I	O	TH 2282
<i>Neolamarckia cadamba</i> (Roxb.) Bosser	Kadam	T	Rs	Me, Or	Pt	I	C	TH 2578
<i>Oldenlandia corymbosa</i> L.	Khet papra	H	Fl, Rs	Me	Wd	I	C	TH 2691
<i>Spermacoce articularis</i> L.f.	Atharogia	H	Rs		Wd	I	O	TH 2485
<b>Asteraceae</b>								
<i>Acmella ciliata</i> (Kunth) Cass.	---	H	Fl, Rs	Me	Wd	E	C	TH 1887
<i>Acmella radicans</i> (Jacq.) R.K.Jansen	---	H	Rs		Wd	E	O	TH 1876
<i>Acmella uliginosa</i> (Sw.) Cass.	Marhatitiga	H	Cf		Wd	E	O	TH 1874
<i>Ageratum conyzoides</i> L.	Ochunti	H	Fl	Me	Wd	E	C	TH 1902
<i>Blumea axillaris</i> (Lam.) DC.	Nilmoli	H	Fl, Rs		Wd	I	O	TH 2123
<i>Blumea lacera</i> (Burm.f.) DC.	Kukur shunga	H	Fl, Rs	Me	Wd	I	C	TH 1964
<i>Blumea sinuata</i> (Lour.) Merr.	---	H	Fl, Rs		Wd	I	C	TH 2060
<i>Caesulia axillaris</i> Roxb.	Fuilitagas	H	Cf		Wd	I	C	TH 2638

Table 1 Contd.

Scientific Name	Bangla Name	Habit	Habitat	Use	Status	Origin	Occur	RSE
<i>Chromolaena odorata</i> (L.) R.M.King&H.Rob.	Assamlata	S	Rs	Me	Wd	E	C	TH 1880
<i>Cirsium arvense</i> (L.) Scop.	Shial kata	H	Rs		Wd	I	C	TH 2204
<i>Cyanthillium cinereum</i> (L.) H.Rob.	Kukshim	H	Rs	Me	Wd	I	C	TH 1884
<i>Eclipta prostrata</i> (L.) L.	Kesuti	H	Fl	Me	Wd	I	C	TH 1929
<i>Gamochaeta pensylvanica</i> (Willd.) Cabrera	Silvalomi	H	Fl		Wd	E	C	TH 2090
<i>Gnaphalium polycaulon</i> Pers.	Kulakolmi	H	Fl		Wd	I	C	TH 1931
<i>Grangea maderaspatana</i> (L.) Poir.	Nemuti	H	Cf, Rs	Me	Wd	I	C	TH 2025
<i>Ixeris polycephala</i> Cass.	Fala geris	H	Cf		Wd	I	C	TH 1924
<i>Lagascea mollis</i> Cav.	Reshmi pata	H	Rs		Wd	E	O	TH 2394
<i>Launaea aspleniifolia</i> (Willd.) Hook.f.	Tikadana	H	Fl		Wd	E	C	TH 2230
<i>Mikania micrantha</i> Kunth	Asamlata	L	Rs	Me	Wd	E	C	TH 1925
<i>Parthenium hysterophorus</i> L.	Gajargas	H	Fl, Rs		Wd	E	C	TH 1853
<i>Pseudoconyza viscosa</i> (Mill.) D'Arcy	Coniza	H	Fl, Rs		Wd	I	O	TH 2433
<i>Pseudognaphalium luteoalbum</i> (L.) Hilliard & B.L.Burt	Barakamra	H	Cf, Fl		Wd	I	C	TH 2065
<i>Saussurea lyrata</i> (Bunge) Franch.	Saussurea	H	Cf		Wd	I	C	TH 2013
<i>Sonchus asper</i> (L.) Hill	Sonpalong	H	Fl, Rs		Wd	I	C	TH 2120
<i>Sonchus wightianus</i> DC.	Ban palang	H	Rs	Me	Wd	I	O	TH 2184
<i>Sphagneticola trilobata</i> (L.) Pruski	Latadeiji	H	Fl	Or	Wd	E	O	TH 2262
<i>Synedrella nodiflora</i> (L.) Gaertn.	Relanodi	H	Fl, Rs	Me	Wd	E	C	TH 1895
<i>Tagetes erecta</i> L.	Gendaphul	H	Hs	Or, Me	Pt	E	C	TH 1851
<i>Tridax procumbens</i> L.	Tridhara	H	Fl, Rs	Me	Wd	I	C	TH 1955
<i>Xanthium strumarium</i> L.	Ghagra	S	Fl, Rs	Me	Wd	I	C	TH 2416
<i>Youngia japonica</i> (L.) DC.	Youngaful	H	Fl		Wd	I	C	TH 2001
<b>LILIOPSIDA</b>								
<b>Alismataceae</b>								
<i>Sagittaria guayanensis</i> Kunth	Kauathukri	H	Aq		Wd	I	C	TH 2653
<i>Sagittaria sagittifolia</i> L.	Chotokut	H	Aq		Wd	I	C	TH 2172
<b>Hydrocharitaceae</b>								
<i>Nechandra alternifolia</i> (Roxb. ex Wight) Thwaites	Rasna-zanji	H	Aq		Wd	I	O	TH 2681
<i>Otelia alismoides</i> (L.) Pers.	Panicola	H	Aq		Wd	I	C	TH 2690
<b>Potamogetonaceae</b>								
<i>Stuckenia pectinata</i> (L.) Börner	Sagu zhanchi	H	Aq		Wd	I	O	TH 2805
<b>Areceae</b>								
<i>Areca catechu</i> L.	Suoari	T	Hs	Ed, Me	Pt	E	C	TH 2799
<i>Borassus flabellifer</i> L.	Tal	T	Hs, Rs	Ed, Me	Wd	I	C	TH 2837
<i>Calamus tenuis</i> Roxb.	Bandribet	L	Hs	Ot	Wd	I	C	TH 2559
<i>Cocos nucifera</i> L.	Narikel	T	Hs	Ed, Me	Pt	E	C	TH 2804
<i>Phoenix sylvestris</i> (L.) Roxb.	Khajur	T	Hs, Rs	Ed, Me	Wd	I	C	TH 2841
<b>Pandanaceae</b>								
<i>Benstonea foetida</i> (Roxb.) Callm. & Buerki	Keyakata	T		Or	Pt	I	O	TH 2829

Table 1 Contd.

Scientific Name	Bangla Name	Habit	Habitat	Use	Status	Origin	Occur	RSE
<b>Araceae</b>								
<i>Alocasia formicata</i> (Kunth) Schott	Salukachu	H	Fl, Hs		Wd	I	C	TH 2711
<i>Alocasia macrorrhizos</i> (L.) G.Don	Mankachu	H	Hs	Ed, Me	Wd	I	C	TH 2621
<i>Colocasia esculenta</i> (L.) Schott	Mmukhi kochu	H	Fl	Ed, Me	Wd	I	C	TH 2593
<i>Lasia spinosa</i> (L.) Thwaites	Katakachu	H	Rs		Wd	I	O	TH 2406
<i>Pistia stratiotes</i> L.	Topa pana	H	Aq		Wd	I	C	TH 2442
<i>Leucocasia gigantea</i> (Blume) Schott	Salad-kachu	H	Fl, Hs	Ed	Wd	I	C	TH 2646
<i>Typhonium flagelliforme</i> (G.Lodd.) Blume	Gechu	H	Wt		Wd	I	O	TH 2726
<i>Typhonium trilobatum</i> (L.) Schott	Ghechu	H	Fl	Ed	Wd	I	C	TH 2324
<b>Commelinaceae</b>								
<i>Commelina benghalensis</i> L.	Kanchira	H	Fl	Me	Wd	I	C	TH 2461
<i>Commelina diffusa</i> Burm.f.	Manaina	H	Fl		Wd	I	C	TH 2464
<i>Commelina longifolia</i> Lam.	Pani kanchira	H	Wt		Wd	I	O	TH 2779
<i>Commelina paludosa</i> Blume	Jota kanchira	H	Fl	Me	Wd	I	C	TH 1958
<i>Cyanotis axillaris</i> (L.) D.Don ex Sweet	Axinot	H	Cf		Wd	I	C	TH 2685
<i>Murdannia nudiflora</i> (L.) Brenan	Kanduli	H	Wt		Wd	I	O	TH 2586
<b>Cyperaceae</b>								
<i>Bolboschoenus maritimus</i> (L.) Palla	Balbobin	H	Wt		Wd	I	O	TH 2177
<i>Cyperus brevifolius</i> (Rottb.) Hassk.	Shabuj nirbisa	G	Fl, Rs		Wd	I	C	TH 2419
<i>Cyperus difformis</i> L.	Behuaghasi	G	Wt		Wd	I	C	TH 2107
<i>Cyperus iria</i> L.	Iri ghasi	G	Cf, Wt		Wd	I	C	TH 2404
<i>Cyperus mindorensis</i> (Steud.) Huygh	Subasi nirbisa	G	Fl, Rs		Wd	I	C	TH 2328
<i>Cyperus rotundus</i> L.	Mutha	G	Cf	Me	Wd	I	C	TH 2297
<i>Fimbristylis dipsacea</i> (Rottb.) C.B.Clarke	Dipsa fimbry	G	Fl, Wt		Wd	I	O	TH 2436
<i>Schoenoplectiella articulata</i> (L.) Lye	Chechra	H	Fl, Wt		Wd	I	C	TH 2695
<i>Schoenoplectiella juncooides</i> (Roxb.) Lye	Chechri	H	Cf, Wt		Wd	I	O	TH 2202
<b>Poaceae</b>								
<i>Apluda mutica</i> L.	Matika	G	Rs		Wd	I	O	TH 2620
<i>Bambusa balcooa</i> Roxb.	Borakbash	Ba	Hs	Bm	Wd	I	C	TH 2555
<i>Bambusa tulda</i> Roxb.	Tollabash	Ba	Hs	Bm	Wd	I	C	TH 2563
<i>Cenchrus purpureus</i> (Schumach.) Morrone	Napier gas	G	Fl, Rs	Fo	Cl	E	C	TH 1890
<i>Cynodon dactylon</i> (L.) Pers.	Durbaghass	G	Rs	Me	Wd	I	C	TH 2349
<i>Dactyloctenium aegyptium</i> (L.) Willd.	Makra	G	Fl, Rs	Me	Wd	I	C	TH 2459
<i>Dichanthium annulatum</i> (Forssk.) Stapf	Loari	G	Rs		Wd	I	C	TH 1855
<i>Digitaria setigera</i> Roth	Shetighas	G	Cf		Wd	I	C	TH 2298
<i>Echinochloa crusgalli</i> (L.) P.Beauv.	Bara shama gash	G	Cf, Wt		Wd	I	C	TH 2132
<i>Eragrostis tenella</i> (L.) P.Beauv. ex Roem. & Schult.	Koni ghas	G	Rs		Wd	I	C	TH 2300
<i>Imperata cylindrica</i> (L.) Raeusch.	Ulukhor	G	Fl		Wd	I	C	TH 2484
<i>Leptochloa chinensis</i> (L.) Nees	---	G	Cf, Wt		Wd	I	C	TH 2097

Table 1 Contd.

Scientific Name	Bangla Name	Habit	Habitat	Use	Status	Origin	Occur	RSE
<i>Oplismenus burmanni</i> (Retz.) P.Beauv.	Jabri durba	G	Hs, Rs		Wd	I	C	TH 2626
<i>Oplismenus compositus</i> (L.) P.Beauv.	Gohur durba	G	Hs		Wd	I	C	TH 2696
<i>Oryza sativa</i> L. (TH 2724)	Dhan	G		Ed, Me	Cl	I	C	
<i>Saccharum officinarum</i> L.	Akh	G		Me	Cl	E	C	TH 1960
<i>Saccharum spontaneum</i> L.	Kash	G	Fl	Me	Wd	I	C	TH 2640
<i>Setaria flavida</i> (Retz.) Veldkamp	Bolaymandi ghas	G	Rs		Wd	I	C	TH 2375
<i>Setaria pumila</i> (Poir.) Roem. & Schult.	Haludkawn	G	Fl		Wd	I	C	TH 2126
<i>Sorghum bicolor</i> (L.) Moench	Deodhan	G			Cl	E	O	TH 2256
<i>Triticum aestivum</i> L.	Gom	G		Ed	Cl	I	C	TH 2042
<i>Urochloa reptans</i> (L.) Stapf	Peraghas	G	Rs		Wd	I	C	TH 2303
<b>Musaceae</b>								
<i>Musa × paradisiaca</i> L.	Kola	H	Hs	Ed, Me	Cl	I	C	TH 2099
<b>Zingiberaceae</b>								
<i>Alpinia nigra</i> (Gaertn.) Burt	Jongliada	H	Hs	Me	Wd	I	O	TH 2816
<b>Costaceae</b>								
<i>Hellenia speciosa</i> (J.Koenig) S.R.Dutta	Kew mul	H	Hs	Me	Wd	I	C	TH 2551
<b>Pontederiaceae</b>								
<i>Pontederia crassipes</i> Mart.	Kochuripana	H	Aq		Wd	E	C	TH 2219
<i>Pontederia hastata</i> L.	Bara nukha	H	Aq		Wd	I	C	TH 2602
<b>Liliaceae</b>								
<i>Allium cepa</i> L.	Piaj	H		Ed, Me	Cl	E	C	TH 1959
<i>Allium sativum</i> L.	Rosun	H		Ed, Me	Cl	E	C	TH 2086
<i>Curculigo latifolia</i> Dryand. ex W.T.Aiton	Talmule	H		Me	Cl	I	O	TH 2831
<b>Dioscoreaceae</b>								
<i>Dioscorea alata</i> L.	Chupri alu	V	Hs	Ed	Cl	I	C	TH 2616
<i>Dioscorea pentaphylla</i> L.	Suar alu	V,Ar	Hs	Ed	Wd	I	O	TH 2759
<b>Orchidaceae</b>								
<i>Vanda tessellata</i> (Roxb.) Hook. ex G. Don	Tessi rasna	H	Ep	Or, Me	Wd	I	C	TH 2600

**Habit:** Armed= Ar, Bamboo= Ba, Grass=G, Herb=H, Liana=L, Scandent=Sc, Shrub=S, Tree=T and Vine=V; **Habitat:** Aquatic=Aq, Epiphyte= Ep, Crop field=Cf, Fallow land= Fl, Homestead= Hs, Road/Railway side= Rs, Timber= Ti and Wetland= Wt; **Use:** Building materials= Bm, Dye= Dy, Edible= Ed, Fiber= Fi, Fodder= Fo, Medicinal= Me, Oil= Oi, Ornamental= Or, Other use = Ot and Spice = Sp; **Status:** Cultivated= Cl, Planted=Pt and Wild=Wd; **Occurrence:** Common=C, Occasionally=O and Rare=R and **RSE:** TH= Tarikul Hasan.

such as oil, spices, fiber, forage, natural dye, building materials *etc.* In Bangladesh, plant immigration is a common scenario since long. Most of the plant introduced by settler, invaders or traders (Dutta *et al.*, 2015). In this study, a total of 93 species were found as exotic species in the study area which was one fourth (24.67%) of the total collection. Among them, 49 were herbs, 16 were shrubs, 20 were trees and 8 were climbers. Regarding status of exotic species, 13 species were cultivated, 33 species were planted and 48 species were found wild. It is alarming that out of 48 exotic wild species, 35 species are spreading fast and are being a common species. Further research is needed to assess their impact on native species. Total 37 exotic species have medicinal potential for different ailments and 44 were useful to the householders.

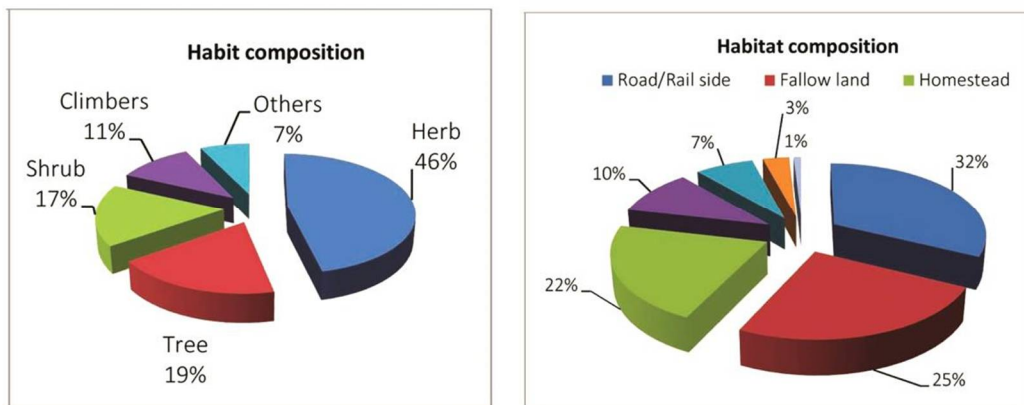


Fig. 2. Habit and habitat composition

### ***Conservation significance of local plant species***

Throughout the study on the basis of field observation of richness and their population size, eight species were found as rare or species of conservation concern for this area such as *Artocarpus lacucha* Buch.-Han.; *Bridelia stipularis* (L.) Blume; *Callicarpa longifolia* Lam.; *Eranthemum pulchellum* Andrews; *Oroxylum indicum* (L.) Kurz; *Potentilla supina* L.; *Sterculia foetida* L. and *Terminalia arjuna* (Roxb. ex DC.) Wight & Arn. Except *Bridelia stipularis* (L.) Blume and *Sterculia foetida* L. all species have medicinal potentiality. *Potentilla supina* L. is recollected after 118 years from this area (Hasan and Uddin, 2022). Rare species need to be specially cared and regularly monitored.

### ***Identified threats to local plant diversity***

On the basis of field observations and personal interviews as well as group discussions, the present study identified some threats on plant biodiversity of this area. In this regard, main threats are of two types. One is expansion of arable land and the other is the digging of ponds in low land for pisciculture. As a results of which fallow land as well as wet land is decreasing and demolish terrestrial, aquatic or sub-aquatic species. Another major threats were availability of the substitutes of natural product like plastic product, pharmaceutical product, synthetic dye *etc.* Other threats were lack of awareness among the residents about plants, use of unnecessary agrochemicals specially herbicides and pesticides, changes of cropping pattern, random collection of medicinal plants, filling the low lands, clearing the brushwood, unplanned construction activities and change of climates.

Based on this present assessment and information gathered from informal discussion with the resident, some recommendation provided for judicious attention. First of all, infrequent and endangered plant should be considered for '*in-situ*' and '*ex-situ*' conservation. Secondly, local small nurseries or garden should be developed to grow the population of native rare species, wildlife-supporting species and medicinal plant species as well as infrequent species. Last but not least, awareness should be built up among the local people to save threatened and valuable plant species and their habitat.

### **Conclusion**

This study indicates that Bagatipara Upazila is rich in Angiospermic species. Though some species are found to be exotic, fortunately most of the species are indigenous and important sources for medicine and food. Some threats have been identified and some locally rare species



were found in this area. Therefore, some steps should be taken immediately, such as raising awareness among the residents about the importance of indigenous plant species; preserving plant diversity through various activities like construction, cultivation, and plantation; sustainable use and conservation of rare and medicinal plants, and protecting against habitat destruction.

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