

## ANGIOSPERMIC PLANT DIVERSITY OF SUBARNACHAR UPAZILA IN NOAKHALI, BANGLADESH

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### Abstract

The present study has been carried out for the inventory and documentation of the angiospermic plant diversity of Subarnachar Upazila under Noakhali district of Bangladesh. A total of 345 angiosperm species under 257 genera belonging to 87 families has been documented from the study area during March 2010 to October 2012. Of these, Magnoliopsida is represented by 208 genera and 283 species under 68 families, whereas Liliopsida is represented by 49 genera and 62 species under 19 families. In Magnoliopsida, Fabaceae appeared to be the largest family having with 23 species whereas in Liliopsida, Poaceae appeared to be the largest family having with 16 species. Habit analysis showed that herbs, shrubs, trees and climbers were represented by 174, 53, 96 and 22 species respectively. Maximum flowering and fruiting period were recorded in spring (28%) and minimum in summer (12%).

**Key words:** Angiospermic plant diversity, Subarnachar, Noakhali, Bangladesh

### Introduction

Bangladesh is a continuous landmass located at the southeast border of Indian subcontinent. Almost all the land mass is plain between a meter below the sea level of some inland basins and few small elevated strips of about 30 m high above the sea level. About 50% land is considered as flood level wetland during monsoon. Physiognomically the whole of the country is almost sloping down from north to south and intersected with several hundreds of rivers and canals. The land enjoys periodical monsoon under the Indo-Australian climatic province with more or less subtropical and tropical environment. It is endowed with rich flora covering almost every corner of the land. The major visible part of which is mostly flowering plants (Pasha and Uddin 2013).

Subarnachar is one of the traditional and promising upazila in Noakhali district of Bangladesh located at 22°38'-22°45' North and 91°20'-90°58' East. It is bounded by Companiganj and Noakhali Sadar upazila on the north, Hatiya island on the south, Sandwip island on the east and Ramgati upazila on the west (Fig. 1). It is the coastal char regions or newly developed land of Noakhali. The soil of this area is soft, saline and sandy (Mahmud 2007). Canals, ponds and agricultural lands or plain lands become dried in summer whereas most of the areas are flooded in monsoon. As a result, diversified plants including angiospermic plants are found in the area like other parts of the country.

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Assessment of angiospermic plant diversity in different areas of Bangladesh has been done by Khan *et al.* (1985), Huq (1988), Alam *et al.* (2006), Islam *et al.* (2009), Uddin and Hassan (2010), Arefin *et al.* (2011) and Rahman *et al.* (2012) respectively. But no such work has been carried out so far for Subarnachar. The present study aims to investigate and document the angiospermic plants of the area.

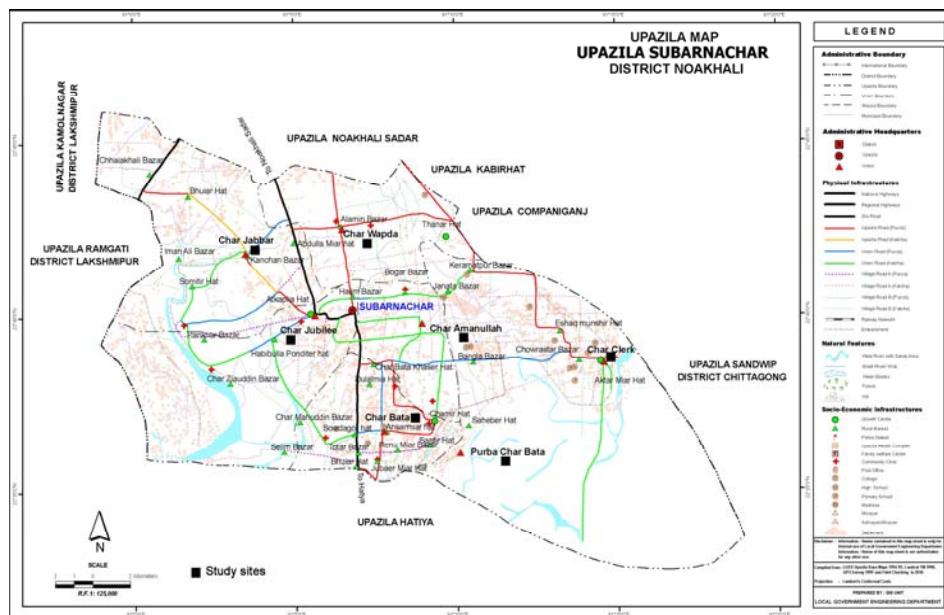


Fig. 1. Map of the study area.

## Materials and Methods

The plant specimens have been collected, identified and documented through repeated field trips during March 2010 to October 2012. Study sites have been selected randomly from all the union area. The fresh materials were collected during different seasons and were brought to the Chittagong University herbarium (CTGUH). Samplings have been made by selecting the seasons in winter, summer, spring and monsoon. Photographs have been taken wherever necessary with a digital camera. The collected plant specimen were dried by using plant press with newspaper, preparation of Herbarium sheet by mounting and labeling of specimen were made following standard herbarium technique. Voucher specimens were preserved, examined and studied carefully in the taxonomic laboratory of CTGUH. Collected specimens were confirmed by comparing with herbarium specimens at Chittagong University Herbarium (CTGUH), Bangladesh Forest Research Institute herbarium (BFRIH) and Bangladesh National Herbarium (BNH). In some cases, standard literatures, such as Hooker (1872-1897), Prain (1903), Siddiqui *et al.* (2007), Ahmed *et*

al. (2008-2009), Pasha and Uddin (2013) were consulted for identification purposes. On the other hand, world wide website, Catalogue of Life (2012) and The Plant List (2010) were considered for identification and recent nomenclature of some critical specimens.

### Results and Discussion

In the present study, a total of 345 angiosperm species under 257 genera belonging to 87 families has been documented from the study area. The genera under each family and the species under each genus with local name, habit character, flowering -fruiting time and economic uses are arranged alphabetically (Table 1). The recorded angiosperm species, genera and families are the representative of 6.98%, 15.30% and 39.76% of the total National Flora of Bangladesh respectively (Pasha and Uddin 2013). Magnoliopsida is represented by 68 families, 208 genera and 283 species, whereas Liliopsida is represented by 19 families, 49 genera and 62 species. Magnoliopsida is represented by 78.16% families and 80.93% genera whereas Liliopsida is represented by 21.84% and 19.07% respectively. The angiosperms genus per family, species per family and species per genus represents 2.95, 3.96 and 1.34 whereas in National Flora it is 7.60, 22.55 and 2.96 respectively (Pasha and Uddin 2013). The ratio of Dicotyledons and Monocotyledonous plants is 4.56:1, which did not support the National Flora (2.95:1). This also indicated that representatives of the Liliopsida are much less than the Magnoliopsida compared with the national record.

Ten dominant families with respect to number of species and genera were Fabaceae, Asteraceae, Poaceae, Solanaceae, Euphorbiaceae, Verbenaceae, Cucurbitaceae, Malvaceae, Lamiaceae and Mimosaceae (Fig. 2).

Table 1. List of angiospermic plants of Subarnachar.

Scientific name	Local name	Family	Habit	Flowering- fruiting	Economic uses
<b>Magnoliopsida (Dicots)</b>					
<i>Abelmoschus esculentus</i> (L.) Moench	Deros, Bhendi	Malvaceae	Herb	Jan-Dec	V
<i>Abelmoschus moschatus</i> Medik.	Bannoderos	Malvaceae	Herb	Jul-Dec	F
<i>Abutilon hirtum</i> (Lam.) Sweet	Jhumka	Malvaceae	Herb	Oct-Apr	F
<i>Abutilon indicum</i> (L.) Sweet	Jhumka	Malvaceae	Herb	Jul-Apr	F
<i>Acacia auriculiformis</i> Benth.	Akashi, Akashmoni	Mimosaceae	Tree	Jun-Feb	T
<i>Acacia mangium</i> Benth.	Akashi	Mimosaceae	Tree	May-Dec	T

Contd.

Scientific name	Local name	Family	Habit	Flowering- fruiting	Economic uses
<i>Acacia nilotica</i> (L.) Delile subsp. <i>indica</i> (Benth.) Brenan	Baul	Mimosaceae	Tree	May-Apr	T
<i>Acalypha wilkesiana</i> Mull.Arg.	Patabahar Kekanta,	Euphorbiaceae	Shrub	Dec-Jun	O
<i>Acanthus illicifolius</i> L.	Hargoza	Acanthaceae	Shrub	Mar-Jul	M
<i>Achyranthes aspera</i> L.	Withlangda, Apang	Amaranthaceae	Herb	Jan-Dec	M
<i>Aegle marmelos</i> (L.) Corr. Serr.	Bel	Rutaceae	Tree	Apr-Dec	Fr
<i>Aerva sanguinolenta</i> (L.) Blume	Raktahata	Amaranthaceae	Herb	Jan-Dec	M
<i>Aeschynomene indica</i> L	Bhatshola	Fabaceae	Shrub	Jul-Sep	Fr
<i>Ageratum conyzoides</i> (L.) L.	Fulkuri	Asteraceae	Herb	Nov-Jun	Fr
<i>Albizia odoratissima</i> (L.f.) Benth.	Jatkorai	Mimosaceae	Tree	May-Dec	T
<i>Albizia procera</i> (Roxb.) Benth.	Silkorai	Mimosaceae	Tree	May-Jan	T
<i>Albizia saman</i> (Jacq.) Merr.	Fulkorai	Mimosaceae	Tree	Apr-Oct	T
<i>Alstonia scholaris</i> (L.) R.Br.	Chatim	Apocynaceae	Tree	Nov-May	M
<i>Alternanthera philoxeroides</i> (Mart.) Griseb.	Molicha	Amaranthaceae	Herb	Mar-Jun	V
<i>Alternanthera sessilis</i> (L.) R.Br.ex DC.	Sachishak	Amaranthaceae	Herb	Jan-Dec	V
<i>Amaranthus spinosus</i> L.	Kantamairra	Amaranthaceae	Herb	Jan-Dec	M
<i>Amaranthus viridis</i> L.	Mairrashak	Amaranthaceae	Herb	Jul-Sep	V
<i>Annona reticulata</i> L.	Ata	Annonaceae	Tree	Oct-Jan	Fr
<i>Annona squamosa</i> L.	Sharifa	Annonaceae	Tree	Mar-Dec	Fr
<i>Aphanamixis polystachya</i> (Wall.) R.Parker	Royna	Meliaceae	Tree	Feb-May	M
<i>Arachis hypogaea</i> L.	Chinabadam	Fabaceae	Herb climb	Mar-Dec	Fr
<i>Argyreia nervosa</i> (Burm.f) Bojer	Guguli	Convolvulaceae	er	May-Dec	F
<i>Artocarpus heterophyllus</i> Lam.	Kathal	Moraceae	Tree	Feb-Jul	Fr, T
<i>Artocarpus lacucha</i> Buch.-Ham.	Batta	Moraceae	Tree	Apr-Jun	Fr, T
<i>Averrhoa bilimbi</i> L.	Bilimbi	Oxalidaceae	Tree	Oct-Feb	Fr

Contd.

Scientific name	Local name	Family	Habit	Flowering- fruiting	Economic uses
<i>Averrhoa carambola</i> L.	Kamranga	Oxalidaceae	Tree	Sep-Mar	Fr
<i>Azadirachta indica</i> A. Juss.	Nim	Meliaceae	Tree	Mar-Jul May-	M
<i>Bacopa monnieri</i> (L.) Pennell	Brammishak Holy, Puishak	Scrophulariaceae	Herb	Dec Nov-	M
<i>Basella rubra</i> L.	Puishak	Basellaceae	Herb	Mar May-	V
<i>Benincasa hispida</i> (Thunb.) Cogn.	Chalkumra	Cucurbitaceae	Herb	Nov	V
<i>Blumea lacera</i> (Burm.f.) DC.	Kormuta	Asteraceae	Herb	Nov-Jul	M
<i>Bombax ceiba</i> L.	Simul,Tula	Bombacaceae	Tree	Jan-Apr	M
<i>Bougainvillea glabra</i> Choisy	Baganbilas	Nyctaginaceae	Shrub	Jan-Dec	O
<i>Bougainvillea spectabilis</i> Willd.	Baganbilas	Nyctaginaceae	Shrub	Feb-Apr	O
<i>Brassica napus</i> L.	Sarisa	Brassicaceae	Herb	Mar-Jul	Os
<i>Brassica oleracea</i> L. var. <i>botrytis</i> L.	Phulkapi	Brassicaceae	Herb	Feb-Jun	V
<i>Brassica oleracea</i> var. <i>capitata</i> L.	Bandhakopi	Brassicaceae	Herb	Jan-May	V
<i>Butea monosperma</i> (Lam.) Taub.	Palash	Fabaceae	Tree	Feb-Apr	Fu
<i>Cajanus cajan</i> (L.) Millsp.	Arol	Fabaceae	Shrub	Dec-Apr	V
<i>Calophyllum inophyllum</i> L.	Hundal	Clusiaceae	Tree	Apr-Oct	T
<i>Calotropis gigantea</i> (L.) Ait.f.	Akkan, Akanda	Asclepiadaceae	Shrub	Jan-Dec	M
<i>Calotropis procera</i> (Aiton) Dryand.	Akkan	Asclepiadaceae	Shrub	May-Jul	M
<i>Capsicum annuum</i> L. var. <i>annuum</i>	Marich	Solanaceae	Herb	Jan-Dec	V
<i>Capsicum frutescens</i> L.	Marich	Solanaceae	Herb	Jan-Dec	V
<i>Carica papaya</i> L.	Pepe, kokia	Caricaceae	Shrub	Jan-Dec	V, Fr
<i>Carissa carandas</i> L.	Kormocha	Apocynaceae	Shrub	Mar-Nov	Fr
<i>Cassia fistula</i> L.	Sonamukhi	Caesalpiniaceae	Tree	Mar-Jun Nov-	T
<i>Casuarina equisetifolia</i> L.	Jhau, Popan	Casuarinaceae	Tree	Mar	T
<i>Catharanthus roseus</i> (L.) G.Don.	Nayantara	Apocynaceae	Herb	Jan-Dec	M
<i>Catunaregam spinosa</i> (Thunb.) Tirveng.	Monkanta	Rubiaceae	Shrub	Oct-Jan	Fr

Contd.

Scientific name	Local name	Family	Habit	Flowering- fruiting	Economic uses
<i>Celosia cristata</i> L.	Morogful	Amaranthaceae	Herb	Jan-Dec	O
<i>Centella asiatica</i> (L.) Urban	Adamkipata, Thankuni	Apiaceae	Herb	Mar-Dec	M
<i>Centrostachys aquatica</i> (Roxb.) Wall.	Thuas	Amaranthaceae	Herb	Jan-Dec	V
<i>Cestrum nocturnum</i> L.	Hasnahena	Solanaceae	Shrub	Jan-Dec	Fl
<i>Chenopodium album</i> L.	Battashak	Chenopodiaceae	Herb	Dec-Mar	V
<i>Chromolaena odorata</i> (L.) R.M.King & H.Rob.	Asamlata	Asteraceae	Herb	Nov-May	F
<i>Cinnamomum tamala</i> (Buch.-Ham.) Nees and Eberm.	Tejpata	Lauraceae	Tree	Feb-Oct	S
<i>Citrullus lanatus</i> (Thunb.) Matsumura & Nakai	Tarmuz	Cucurbitaceae	climb er	Mar-Sep	Fr
<i>Citrus aurantifolia</i> (Christm.) Swingle	Kagazi lebu	Rutaceae	Tree	Mar-Sep	Fr
<i>Citrus aurantium</i> L.	Kamala	Rutaceae	Tree	Sep-Jan	Fr
<i>Citrus limon</i> (L.) Burm.f.	Lebu	Rutaceae	Tree	Mar-Nov	Fr
<i>Citrus maxima</i> (Burm.f.) Merr.	Jambura Atha hururia	Rutaceae	Tree	Feb-Nov	Fr
<i>Cleome viscosa</i> L.		Capparaceae	Herb	Jan-Dec	F
<i>Clerodendrum indicum</i> (L.) Kuntze	Bamunhati	Verbenaceae	Shrub	Apr-Oct	F
<i>Clerodendrum inerme</i> (L.) Gaertn.	Bandulpata	Verbenaceae	Shrub	Jul-Nov	F
<i>Clerodendrum viscosum</i> Vent.	Bhat	Verbenaceae	Shrub	Jan-Jul	F
<i>Clitoria ternatea</i> L.	Aparajita	Fabaceae	Herb	Jun-Mar	Fl
<i>Coccinia grandis</i> (L.) Voigt	Telakucha	Cucurbitaceae	climb er	Mar-Dec	V
<i>Codiaeum variegatum</i> (L.) Rumph. ex A.Juss.	Patabahar	Euphorbiaceae	Shrub	Jan-Dec	O
<i>Coleus scutellarioides</i> (L.) Benth.	Patabahar	Lamiaceae	Herb	Mar-Sep	O
<i>Corchorus capsularis</i> L.	Pat	Tiliaceae	Herb	Jun-Nov	Fb
<i>Corchorus olitorius</i> L.	Tuchapat	Tiliaceae	Herb	Aug-Dec	Fb
<i>Coriandrum sativum</i> L.	Dhone	Apiaceae	Herb	Dec-Feb	S

Contd.

Scientific name	Local name	Family	Habit	Flowering- fruiting	Economic uses
<i>Crassocephalum crepidioides</i> (Benth.) S.Moore	Dubbecrepi	Asteraceae	Herb	Sep-May	F
<i>Crateva magna</i> (Lour.) DC.	Barun	Capparaceae	Tree	Jan-Sep May-	T
<i>Crotalaria pallida</i> Aiton	Junjuni	Fabaceae	Herb	Dec	F
<i>Croton bonplandianus</i> Baill.	Paglamarich	Euphorbiaceae	Herb	Apr-Sep	F
<i>Cucumis melo</i> L.	Bangi	Cucurbitaceae	Herb climb er	Mar-Oct	Fr
<i>Cucumis sativus</i> L.	Sasha	Cucurbitaceae		Apr-Oct	V
<i>Cucurbita maxima</i> Duchesne	Mistikumra Sunnalata, Sarnalata	Cucurbitaceae	Herb climb er	Mar-Oct Aug- Mar	V
<i>Cuscuta reflexa</i> Roxb.		Convolvulaceae			M
<i>Cyanthillium cinereum</i> (L.) H.Rob.	Sialimutra	Asteraceae	Herb	Jan-Dec	F
<i>Dahlia pinnata</i> Cav.	Dalia	Asteraceae	Herb	Jan-Mar	Fl
<i>Dalbergia sissoo</i> DC.	Sisoo	Fabaceae	Tree	Mar-Jun	T
<i>Datura metel</i> L.	Datura	Solanaceae	Herb	Jan-Dec May- Aug	M
<i>Daucas carota</i> L.	Gajor	Apiaceae	Herb		V
<i>Delonix regia</i> (Hook.) Raf.	Krisnachura	Caesalpiniaceae	Tree climb er	Apr-Sep	T
<i>Derris scandens</i> (Roxb.) Benth.	Kalla lata	Fabaceae	climb er	Jul-Dec	Fu
<i>Derris trifoliata</i> Lour.	Kalla lata	Fabaceae	climb er	Mar-Jun	Fu
<i>Desmodium triflorum</i> (L.) DC.	Kodaliya	Fabaceae	Herb	Jan-Dec	F
<i>Dillenia indica</i> L.	Chalta	Dilleniaceae	Tree	May-Feb Mar-	Fr, T
<i>Diospyros blancoi</i> A.DC.	Bilatigab	Ebenaceae	Tree	Aug	Fr, T
<i>Diospyros malabarica</i> (Desr.) Kostel.	Kassagab	Ebenaceae	Tree	May- Aug	Fr, T
<i>Duranta erecta</i> L.	Kantamehedi	Verbenaceae	Shrub	Jan-Dec	O
<i>Eclipta prostrata</i> (L.) L.	Kalakechha	Asteraceae	Herb	Jan-Dec	M
<i>Elaeocarpus floribundus</i> Blume	Jalpai	Elaeocarpaceae	Tree	Mar-Dec	Fr, T
<i>Emilia sonchifolia</i> (L.) DC. ex DC.	Sadimudi	Asteraceae	Herb	Jan-Dec	F
<i>Eryngium foetidum</i> L.	Bilati Dhone	Apiaceae	Herb	Apr-Jan	S

Contd.

Scientific name	Local name	Family	Habit	Flowering- fruiting	Economic uses
<i>Erythrina fusca</i> Lour.	Mandar	Fabaceae	Tree	Jan-Jun	Fu
<i>Erythrina variegata</i> L.	Mandar, Madar	Fabaceae	Tree	Feb-May	Fu
<i>Eucalyptus camaldulensis</i> Dehnh.	Eucalyptus	Myrtaceae	Tree	Jun-Dec	T
<i>Euphorbia nerifolia</i> L.	Kantamansa	Euphorbiaceae	Herb	Jun-Nov	O
<i>Euphorbia hirta</i> L.	Dudialata	Euphorbiaceae	Herb	Jan-Dec	F
<i>Excoecaria agallocha</i> L	Geowa	Euphorbiaceae	Tree	Mar-Jun	Fu
				May-	
<i>Ficus benghalensis</i> L.	Bat	Moraceae	Tree	Aug	F
<i>Ficus erecta</i> Thunb.	Ballagota	Moraceae	Shrub	Apr-Jul	V
<i>Ficus hispida</i> L.f.	Dumur	Moraceae	Tree	Apr-Sep	F
				Mar-	
<i>Ficus racemosa</i> L.	Jaggodumur	Moraceae	Tree	Nov	V
<i>Ficus religiosa</i> L.	Asath, Jil	Moraceae	Tree	Mar-Oct	F
<i>Garcinia cowa</i> Roxb. ex DC.	Kau	Clusiaceae	Tree	Feb-Aug	Fr
<i>Gardenia jesminoides</i> J.Ellis	Gondoraj	Rubiaceae	Shrub	Mar-Jul	Fl
<i>Glochidion multiloculare</i> (Rottler ex Willd.) Voigt	Koishtuma	Euphorbiaceae	Tree	Jul-Jan	Fu
<i>Gmelina arborea</i> Roxb.	Gamar	Verbenaceae	Tree	Feb-Jul	T
<i>Grangea maderaspatana</i> (L.) Poir.	Namuti	Asteraceae	Herb	Dec-May	F
<i>Helianthus annuus</i> L.	Surjamukhi	Asteraceae	Herb	Jan-Dec	Fl
<i>Heliotropium curassavicum</i> L.	Nona hatisuri	Boraginaceae	Herb	Mar-Dec	F
<i>Heliotropium indicum</i> L	Hatisur	Boraginaceae	Herb	Jan-Dec	F, M
<i>Hemigraphis hirta</i> (Vahl.) T.Anderson	Borati gas	Acanthaceae	Herb	Jan-Jul	F
<i>Hibiscus rosa-sinensis</i> I	Latkonjaba	Malvaceae	Shrub	Jan-Dec	Fl, M
<i>Hibiscus sabdariffa</i> L.	Mesoth	Malvaceae	Herb	Nov-Feb	V
<i>Hygrophila auriculata</i> (Schumach.) Heine	Alicha	Acanthaceae	Herb	Oct-Jan	M
<i>Hygrophila salicifolia</i> (Vahl) Nees	Bontil	Acanthaceae	Herb	Nov-	
<i>Hyptis brevipes</i> Poit.	Gol tokma	Lamiaceae	Herb	Mar	M
<i>Hyptis suaveolens</i> (L.) Poit.	Tokma	Lamiaceae	Herb	Nov-Jan	F
				Jan-Dec	M

Contd.

Scientific name	Local name	Family	Habit	Flowering- fruiting	Economic uses
<i>Ipomoea aquatica</i> Forssk.	Kalmi	Convolvulaceae	climber	Jan-Dec	V
<i>Ipomoea batatas</i> (L.) Poir	Sagarna alu	Convolvulaceae	Herb	Dec-May	V
<i>Ipomoea fistulosa</i> Mart. ex Choisy	Dulkolmi	Convolvulaceae	Shrub climber	Feb-Apr	H
<i>Ipomoea quamoclit</i> L.	Gateful	Convolvulaceae	climber	Jul-Sep	O
<i>Ixora coccinea</i> L.	Rangon	Rubiaceae	Shrub	Jan-Dec	O
<i>Jasminum sambac</i> (L.) Aiton	Belly	Oleaceae	Shrub	Mar-Jul	Fl
<i>Justicia gendarussa</i> Burm.f.	Jagatmadan	Acanthaceae	Shrub	Dec-May	M
<i>kalanchoe pinnata</i> (Lam.) Pers.	Pathorkuchi	Crassulaceae	Shrub	Dec-Apr	M
<i>Lablab purpureus</i> (L.) Sweet	Shim	Fabaceae	Herb	Nov-Mar	V
<i>Lagenaria siceraria</i> (Molina) Standl.	Kadhu	Cucurbitaceae	Climber	Jan-Dec	V
<i>Lannea coromandelica</i> (Houtt.) Merr.	Badi	Anacardiaceae	Tree	Feb-Jun	Fu
<i>Lantana camara</i> L.	Lantana	Verbenaceae	Shrub	Jan-Dec	Fu
<i>Laportea interrupta</i> (L.) Chew	Cutra	Urticaceae	Herb	Aug-Nov	F
<i>Lathyrus sativus</i> L.	Khesari	Fabaceae	Herb	Feb-Sep	V
<i>Launaea asplenifolia</i> (Willd.) Hook.f.	Tikadana	Asteraceae	Herb	Jan-Aug	F
<i>Lawsonia inermis</i> L.	Methi	Lythraceae	Shrub	Jun-Dec	M
<i>Leea indica</i> Merr.	Murka	Leeaceae	Shrub	Jul-Jan	M
<i>Lens culinaris</i> Medik.	Masur	Fabaceae	Herb	Dec-Mar	V
<i>Leonurus sibiricus</i> L.	Rakta dron	Lamiaceae	Herb	Jan-Dec	F
<i>Lepisanthes rubiginosa</i> (Roxb.) Leenah.	Aul	Sapindaceae	Tree	Nov-May	T
<i>Leucaena leucocephala</i> (Lam.) de Wit.	Ipil	Mimosaceae	Tree	Mar-Nov	T, F
<i>Leucas aspera</i> (Roth) Spreng.	Shetodron	Lamiaceae	Herb	Jan-Dec	F
<i>Lindernia antipoda</i> (L.) Alston	Zai gas	Scrophulariaceae	Herb	Jan-Dec	F
<i>Linum usitatissimum</i> L.	Tisi	Linaceae	Herb	Feb-Jun	Os

Contd.

Scientific name	Local name	Family	Habit	Flowering- fruiting	Economic uses
<i>Lippia alba</i> (P.Mill.) N.E.Br. ex Britt.& Wilson	Shunk	Verbenaceae	Shrub	Jan-Dec	F
<i>Litchi chinensis</i> Sonn.	Lichu	Sapindaceae	Tree	Apr-Jun	Fr
<i>Litsea monopetala</i> (Roxb.) Pers.	Meda	Lauraceae	Tree	Mar-Nov	M, Fu
<i>Ludwigia adscendens</i> (L.) Hara	Otthuas	Onagraceae	Herb	Mar-Dec	F
<i>Ludwigia hyssopifolia</i> (G.Don) Exell.	Panilong	Onagraceae	Herb climber	Jan-Dec	F
<i>Luffa cylindrica</i> (L.) M.Roemer	Dundul	Cucurbitaceae	Tree	Jun-Dec	V
<i>Malus domestica</i> Borkh.	Apple	Rosaceae	Tree	Aug-Oct	Fr
<i>Malvaviscus arboreus</i> Dill. ex Cav.	Marich jaba	Malvaceae	Shrub	Nov-Jan	O
<i>Mangifera indica</i> L.	Aam	Anacardiaceae	Tree	Jan-Jun	T, Fr
<i>Melia azederach</i> L.	Ghora nim	Meliaceae	Tree	Mar-Feb	T
<i>Melilotus albus</i> Medik.	Sada methi	Fabaceae	Herb	Feb-Apr	F
<i>Mentha arvensis</i> L.	Pudina	Lamiaceae	Herb	Not rec	M
<i>Mentha viridis</i> L.	Pudina	Lamiaceae	Herb	Not rec	M
<i>Meyna spinosa</i> Roxb. ex Link	Marbel	Rubiaceae	Tree climber	Feb-Jun	Fr
<i>Mikania micrantha</i> Kunth	Hakistani lata	Asteraceae	Tree climber	Oct-Feb	F
<i>Mimosa himalayna</i> Gamble	Boro	Mimosaceae	Shrub	Jul-Feb	M
<i>Mimosa pudica</i> L.	Sarmida	Mimosaceae	Herb	Sep-Dec	M
<i>Mimusops elengi</i> L.	Sarmida	Mimosaceae	Tree	Mar-Jun	T
<i>Momordica charantia</i> L. var. <i>charantia</i>	Bakul	Sapotaceae	Tree climber	May-Oct	V
<i>Momordica cochinchinensis</i> (Lour.) Sprengel	Titkorola	Cucurbitaceae	climber	Jul-Nov	V
<i>Morinda citrifolia</i> L.	Akri	Cucurbitaceae	Tree	May-Nov	Fu
<i>Moringa oleifera</i> Lam.	Rangkathal	Rubiaceae	Tree	Oct-Mar	V,M
<i>Murraya paniculata</i> (L.) Jack	Sajina	Moringaceae	Tree	Mar-Jan	Fl
<i>Nelsonia canescens</i> (Lam.) Spreng.	Kamini	Rutaceae	Tree	Oct-Feb	F
	Paramul	Acanthaceae	Herb		

Contd.

Scientific name	Local name	Family	Habit	Flowering- fruiting	Economic uses
<i>Neolamarckia cadamba</i> (Roxb.)					
Bosser	Kadam	Rubiaceae	Tree	Jul-Nov	T
<i>Nerium oleander</i> L.	Raktakarobi	Apocynaceae	Shrub	Jan-Jul	Fl
<i>Nyctanthes arbor-tristis</i> L.	Seuli	Verbenaceae	Tree	Aug-Jan	O
<i>Nymphaea amazonum</i> Mart. & Zucc.	Halud Hapla	Nymphaeaceae	Herb	Apr-Aug	V
<i>Nymphaea nouchali</i> Burm.f.	Nil hapla	Nymphaeaceae	Herb	Jun-Oct	V
<i>Nymphaea rubra</i> Roxb.ex Andrews	Lal hapla	Nymphaeaceae	Herb	Aug-Jan	V
<i>Nymphoides hydrophylla</i> (Lour.) Kuntze	Kachuti	Menyanthaceae	Herb	Oct-Feb	F
<i>Nymphoides indica</i> (L.) Kuntze	Kachuti	Menyanthaceae	Herb	Oct-Feb	F
<i>Ocimum americanum</i> L.	Banno tulsi	Lamiaceae	Herb	Jun-Feb	M
<i>Ocimum basilicum</i> L.	Tulsi	Lamiaceae	Herb	Oct-Mar	M
<i>Ocimum tenuiflorum</i> L.	Tulsi	Lamiaceae	Herb	Jan-Dec	M
<i>Oenanthe javanica</i> (Blume) DC.	Pan tulsi	Apiaceae	Herb	Jun-Sep	F
<i>Oldenlandia corymbosa</i> L.	Dima shak	Rubiaceae	Herb	Jan-Dec	V
<i>Opuntia elatior</i> P. Mill.	Fonimonsha	Cactaceae	Shrub	Dec-Mar	O
<i>Oroxylum indicum</i> (L.) Kurz	Thona	Bignoniaceae	Tree	Jun-Mar	M, Fu
<i>Oxalis corniculata</i> L.	Amrul	Oxalidaceae	Herb	Sep-May	F
<i>Pedilanthus tithymaloides</i> (L.) Poit.	Patabahar	Euphorbiaceae	Herb	Mar-Jun	O
<i>Peperomia pellucida</i> (L.) Kunth	Luchipata	Piperaceae	Herb	Jul-Sep	F
<i>Persicaria hydropiper</i> (L.) Spach	Lalbiskatali	Polygonaceae	Herb	Aug-Apr Mar-	Fu
<i>Persicaria orientalis</i> (L.) Spach	Biskatali	Polygonaceae	Herb	Aug	Fu
<i>Petunia hybrida</i> Hort. ex Vilm.	Petunia	Solanaceae	Herb	Feb-Apr	Fl
<i>Phyla nodiflora</i> (L.) Greene	Khai	Verbenaceae	Herb	Jan-Dec	F
<i>Phyllanthus acidus</i> (L.) Skeels	Horoli	Euphorbiaceae	Tree	Mar-Jun	Fr
<i>Phyllanthus emblica</i> L.	Amloki	Euphorbiaceae	Tree	Mar-Sep	M, Fr

Contd.

Scientific name	Local name	Family	Habit	Flowering- fruiting	Economic uses
<i>Phyllanthus niruri</i> L.	Vuiamla	Euphorbiaceae	Herb	Aug-Oct	F
<i>Phyllanthus reticulatus</i> Poir.	Cirkuti	Euphorbiaceae	Shrub	Mar-Oct	F
<i>Phyllanthus sikkimensis</i> Mull.Arg.	Sikimamla	Euphorbiaceae	Tree	Feb-Oct	F, Fu
<i>Physalis minima</i> L.	Futka bion	Solanaceae	Herb climb er	Jan-Dec	F
<i>Piper betle</i> L.	Pan	Piperaceae	climb er	Dec-May	C,M
<i>Piper peepuloides</i> Roxb.	Pipul	Piperaceae	climb er	Jul-Dec	M
<i>Pisum sativum</i> L.	Motorsuti	Fabaceae	Herb	Nov-Mar	V
<i>Pithecellobium dulce</i> (Roxb.) Benth.	Natai	Mimosaceae	Tree	Jan-Jul	T
<i>Pluchea indica</i> (L.) Less.	Mundorokha	Asteraceae	Shrub	Nov-May	F
<i>Polyalthia longifolia</i> (Sonn.) Thwaites	Debdaru	Annonaceae	Tree	Mar-Oct	T
<i>Pongamia pinnata</i> (L.) Pierre	Kenga	Fabaceae	Tree	Mar-Jul	Fu
<i>Portulaca grandiflora</i> Hook.	Noitaful	Portulacaceae	Herb	Mar-Aug	Fl
<i>Portulaca olearacea</i> L.	Nunashak	Portulacaceae	Herb	May-Aug	F
<i>Premna esculenta</i> Roxb.	Tatui	Verbenaceae	Tree	Apr-Sep	Fu
<i>Psidium guajava</i> L.	Peyara	Myrtaceae	Tree	Jan-Dec	Fr
<i>Psophocarpus tetragonolobus</i> (L.) DC.	Kamranga chai	Fabaceae	Herb	Dec-Mar	V
<i>Punica granatum</i> L.	Dalim	Punicaceae	Tree	Jan-Dec	Fr
<i>Raphanus sativus</i> L.	Mula	Brassicaceae	Herb	Jan-May	V
<i>Rauvolfia serpentina</i> (L.) Benth. ex Kurz	Sarpogonda	Apocynaceae	Shrub	Apr-Oct	M
<i>Ricinus communis</i> L.	Veron	Euphorbiaceae	Shrub	Jan-Dec	M
<i>Rorippa indica</i> (L.) Hiern	Banna horra	Brassicaceae	Herb	Apr-Jan	F
<i>Rosa centifolia</i> L.	Golap	Rosaceae	Shrub	May-Jul	Fl
<i>Ruellia tuberosa</i> L.	Alughanti	Acanthaceae	Herb	Jan-Dec	F
<i>Rumex maritimus</i> L.	Datipalong	Polygonaceae	Herb	Jan-May	F
<i>Rumex vesicarius</i> L.	Chuai	Polygonaceae	Herb	Dec-Mar	V
<i>Rungia pectinata</i> (L.) Nees	Pindi	Acanthaceae	Herb	Nov-May	F
<i>Salvia splendens</i>	Salvia	Lamiaceae	Herb	Jan-Dec	O

Contd.

Scientific name	Local name	Family	Habit	Flowering- fruiting	Economic uses
Sellow ex Roemer & Schult.					
<i>Santalum album</i> L.	Chandan	Santalaceae	Tree	Not rec	T
<i>Scoparia dulcis</i> L.	Bondhone	Scrophulariaceae	Herb	Jan-Dec	M
<i>Senna alata</i> (L.) Roxb.	Dadmardon	Caesalpiniaceae	Shrub	Sep-Jan	M
<i>Sesamum indicum</i> L.	Til	Pedaliaceae	Herb	Feb-Oct	Os
<i>Sesbania sesban</i> (L.) Merr.	Hola	Fabaceae	Tree	Apr-Jul	F
<i>Sida acuta</i> Burm.f.	Kureta	Malvaceae	Herb	Sep-May	F
<i>Sida cordata</i> (Burm.f.) Waalkes	Pitberal	Malvaceae	Herb	Jan-Dec	F
<i>Sida rhombifolia</i> L.	Kureta	Malvaceae	Shrub	Jul-Dec	F
<i>Solanum lycopersicum</i> L.	Tomato	Solanaceae	Herb	Dec-Feb	V
<i>Solanum melongena</i> L.	Begun	Solanaceae	Herb	Oct-Mar	V
<i>Solanum myriacanthum</i> Dunal	Tikbion	Solanaceae	Shrub	Jan-Dec	V
<i>Solanum nigrum</i> L.	Putibegun	Solanaceae	Herb	Jan-Dec	F
<i>Solanum sisymbriifolium</i> Lam.	Kantabegun	Solanaceae	Shrub	Jan-Dec	H
<i>Solanum torvum</i> Sw.	Titbion	Solanaceae	Shrub	Jan-Dec	V
<i>Solanum tuberosum</i> L.	Goal Alu	Solanaceae	Herb	Jan-Mar	V
<i>Solanum violaceum</i> Ortega	Titbion	Solanaceae	Shrub	Jan-Dec	V
<i>Solanum virginianum</i> L.	Bannabion	Solanaceae	Herb	Jun-Aug	V
<i>Sonneratia apetala</i> Buch.-Ham.	Kerpa	Sonneratiaceae	Tree	Apr-Dec	Fu
<i>Spermacoce latifolia</i> Aubl.	Ghuijil	Rubiaceae	Herb	Dec-Apr	F
<i>Sphenoclea zeylanica</i> Gaertn.	Morichalata	Sphenocleaceae	Herb	Apr-Nov	F
<i>Spilanthes acmella</i> (L.) L.	Mariccha	Asteraceae	Herb	Jan-Dec	M
<i>Spinacia oleracea</i> L.	Palongshak	Chenopodiaceae	Herb	Jan-Dec	V
<i>Spondias pinnata</i> (L.f.) Kurz	Amra	Anacardiaceae	Tree climb	Feb-Aug	Fr
<i>Stephania japonica</i> (Thunb.) Miers	Musarralata	Menispermaceae	er	Jan-Dec	M
<i>Sterculia foetida</i> L.	Keron	Sterculiaceae	Tree	Feb-Aug	Fr, T

Contd.

Scientific name	Local name	Family	Habit	Flowering- fruiting	Economic uses
<i>Streblus asper</i> Lour.	Horma	Moraceae	Tree	Feb-Jun	Fu
<i>Swietenia mahagoni</i> (L.) Jacq.	Mehagoni	Meliaceae	Tree	Apr-Nov	T
<i>Synedrella nodiflora</i> (L.) Gaertn.	Relanodi	Asteraceae	Herb	Jan-Dec	F
<i>Syzygium cumini</i> (L.) Skeels	Butigajam	Myrtaceae	Tree	Mar-Jun	Fr
<i>Syzygium fruticosum</i> (Roxb.) DC.	Kawyagajam	Myrtaceae	Tree	Mar-Jul	Fr
<i>Syzygium jambos</i> (L.) Alston	Golapjam	Myrtaceae	Tree	Mar-Jun	Fr
<i>Syzygium samarangense</i> (Blume) Merr. & L.M.Perry	Jamrul	Myrtaceae	Tree	Mar-Jul	Fr
<i>Tabernaemontana divericata</i> (L.) R.Br. ex Roemer & Schult.	Tagar	Apocynaceae	Shrub	May-Jan	Fl
<i>Tagetes erecta</i> L.	Haludghenda	Asteraceae	Herb	Jan-Mar	Fl
<i>Tagetes patula</i> L.	Lalghenda	Asteraceae	Herb	Nov-Mar	Fl
<i>Tamarindus indica</i> L.	Tetul	Caesalpiniaceae	Tree	Apr-Dec	Fr, T
<i>Tamarix indica</i> Willd.	Nona jau	Tamaricaceae	Tree	Jan-Dec	Fu
<i>Tectona grandis</i> L.f.	Segun	Verbenaceae	Tree	Jul-Nov	T
<i>Terminalia arjuna</i> (Roxb. ex DC.) Wight & Arn.	Arjun	Combretaceae	Tree	Apr-Oct	T,M
<i>Terminalia bellirica</i> (Gaertn.) Roxb.	Bahera	Combretaceae	Tree	Mar-Nov	T,M
<i>Terminalia catappa</i> L.	Katbadam	Combretaceae	Tree	Mar-Dec	T
<i>Thespisia populnea</i> (L.) Soland. ex Correa	Balai	Malvaceae	Tree	Aug-Jan	Fu
<i>Thevetia peruviana</i> (Pers.) K.Schum.	Gatika	Apocynaceae	Tree	Jan-Dec	O
<i>Tinospora cordifolia</i> (Willd.) Miers	Gulanch	Menispermaceae	climb er	Jan-Oct	M
<i>Trichosanthes anguina</i> L.	Cicinda	Cucurbitaceae	climb er	Apr-Aug	V
<i>Trichosanthes dioica</i> Roxb.	Patal	Cucurbitaceae	climb er	Apr-Sep	V
<i>Urena lobata</i> L.	Jangligagra	Malvaceae	Shrub	Aug-Oct	F
<i>Vigna mungo</i> (L.) Hepper	Maskolai	Fabaceae	Herb	Nov-Jan	V

Contd.

Scientific name	Local name	Family	Habit	Flowering- fruiting	Economic uses
<i>Vigna radiata</i> (L.) R.Wilczek					
	Mug	Fabaceae	Herb	Feb-Apr	V
<i>Vigna unguiculata</i> (L.) Walp.					
	Barboti	Fabaceae	Herb	Jan-Dec	V
<i>Vitex negundo</i> L.					
	Nishinda	Verbenaceae	Shrub	Apr-Feb	M
<i>Vitex trifolia</i> L.					
	Nilnishinda	Verbenaceae	Shrub	Feb-Mar	M
<i>Wedelia chinensis</i> (Osbeck) Merr.					
	Vimraj	Asteraceae	Herb	Feb-Aug	M, F
<i>Xanthium indicum</i> J.Konig. ex Roxb.					
	Gagra	Asteraceae	Herb	Jan-Dec	F
<i>Ziziphus mauritiana</i> Lam.					
	Barai	Rhamnaceae	Tree	Sep-Mar	Fr, Fu
<b>Liliopsida (Monocots)</b>					
<i>Acampe praemorsa</i> (Roxb.) Blatt. &					
	McCann	Orchidaceae	Herb	Aug-Sep	M
<i>Aerides odorata</i> Lour.					
	Rasna	Orchidaceae	Herb	May-Jun	M
<i>Allium cepa</i> L.					
	Piaj	Liliaceae	Herb	Feb-Jun	S
<i>Allium sativum</i> L.					
	Rashun	Liliaceae	Herb	Feb-Apr	S
<i>Alocasia macrorrhizos</i> (L.) G. Don					
	Mankachu	Araceae	Herb	Jul-Oct	V
<i>Alocasia odora</i> (Lindl.) K.Koch					
	Hatal kachu	Araceae	Herb	Jan-Dec	V
<i>Aloe vera</i> (L.) Burm.f.					
	Gritakumari	Liliaceae	Herb	Sep-Dec	M
<i>Alpinia nigra</i> (Gaertn.) B.L.Burtt					
	Tara	Zingiberaceae	Shrub	May-Dec	V,M
<i>Amorphophallus paeoniifolius</i> (Dennst.) Nicolson					
	Olkachu	Araceae	Herb	May-Nov	V
<i>Amorphophalus bulbifer</i> (Roxb.) Blume					
	Jangleol	Araceae	Herb	May-Oct	V
<i>Ananus comosus</i> (L.) Merr.					
	Anaros	Bromeliaceae	Herb	Feb-Jul	Fr
<i>Areca catechu</i> L.					
	Supari	Areceaceae	Tree	Jan-Dec	Fr
<i>Bambusa balcooa</i> Roxb.					
	Bora bans	Poaceae	Tree	Mar-Sep	F,Fu
<i>Bambusa jaintiana</i> R.B. Mazumdar					
	Chikon bans	Poaceae	Tree	Mar-Feb	F,Fu
<i>Bambusa vulgaris</i> Schrad.					
	Bangla bans	Poaceae	Tree	May	F,Fu
<i>Borassus flabellifer</i> L.					
	Tal	Areceaceae	Tree	Jan-Oct	Fr

Contd.

Scientific name	Local name	Family	Habit	Flowering- fruiting	Economic uses
<i>Bothriochola pertusa</i> (L.) A.Camus	Goradubla	Poaceae	Herb	Aug-Feb	F
<i>Calamus latifolius</i> Roxb.	Kerat Bet	Arecaceae	Shrub	Nov-Jun	Fr, Fn
<i>Calamus viminalis</i> Willd.	Bet	Arecaceae	Shrub	Jan-Dec	Fr, Fn
<i>Canna indica</i> L.	Kalabati	Cannaceae	Herb	Apr-Nov	O
<i>Cheilocostus speciosus</i> (J.Konig) C.Specht	Kew shak	Costaceae	Herb	Sep-Dec	V
<i>Chrysopogon aciculatus</i> (Retz.) Trin.	Bait	Poaceae	Herb	Jan-Dec	F
<i>Cocos nucifera</i> L.	Narkel	Arecaceae	Tree	Mar-Jul	Fr
<i>Coix lacryma-jobi</i> L.	Sada Hongais	Poaceae	Herb	Aug-Mar	M
<i>Colocasia esculenta</i> (L.) Schott.	Kachu	Araceae	Herb	May-Oct	V
<i>Commelina benghalensis</i> L.	Kanaialata	Commelinaceae	Herb	Feb-Dec	M,F
<i>Commelina paludosa</i> Blume	Kanaialata Goron,Golras un	Commelinaceae	Herb	Oct-Mar Mar-Aug	M,F
<i>Crinum asiaticum</i> L.		Liliaceae	Herb		
<i>Curcuma aeruginosa</i> Roxb.	Banna halud	Zingiberaceae	Herb	May	S
<i>Curcuma longa</i> L.	Halud	Zingiberaceae	Herb	Aug-Oct	S
<i>Cymbopogon citratus</i> (DC.) Stapf	Aghnighas	Poaceae	Herb	Jul-Sep	F
<i>Cynodon dactylon</i> (L.) Pers.	Dublakher	Poaceae	Herb	Jul-Dec	F
<i>Cyperus cuspidatus</i> Kunth	Sagarmukhi methi	Cyperaceae	Herb	Aug-Nov	F
<i>Cyperus imbricatus</i> Retz.	Burethi Pasham kathai	Cyperaceae	Herb	Jun-Nov	F
<i>Cyperus pilosus</i> Vahl		Cyperaceae	Herb	Jan-Dec	F
<i>Cyperus rotundus</i> L.	Kaiabeda	Cyperaceae	Herb climb	May-Sep	F
<i>Dioscorea alata</i> L.	Bangalu	Dioscoreaceae	climber	Oct-Dec	V
<i>Eichhornia crassipes</i> (Mart.) Solms	Kachuripana	Pontederiaceae	Herb climber	Jan-Dec	F
<i>Epipremnum aureum</i> (Linden & Andre)	Money plant	Araceae	climber	Not rec	O

Contd.

Scientific name	Local name	Family	Habit	Flowering- fruiting	Economic uses
<b>G.S.Bunting</b>					
<i>Homalomena aromatica</i> (Spreng.) Schott	Kachu	Araceae	Herb	Jun-Sep	V
<i>Imperata cylindrica</i> (L.) Raeusch. var. <i>cylindrica</i>	Chon	Poaceae	Herb	Oct-Jan	F
<i>Lasia spinosa</i> (L.) Thwaites	Bonhadda	Araceae	Herb	Jan-Nov	V
<i>Lemna perpusilla</i> Torr.	Guri fena	Lemnaceae	Herb	Not rec	F
<i>Monochoria hastata</i> (L.) Solms.	Fena	Pontederiaceae	Herb	Jan-Dec	F
<i>Musa acuminata</i> Colla	Kola	Musaceae	Herb	Jun-Sep	Fr
<i>Musa paradisiaca</i> L.	Anajikola	Musaceae	Herb	Jan-Dec	Fr
<i>Oryza sativa</i> L.	Dhan	Poaceae	Herb	Sep-Jun	Co
<i>Pandanus amaryllifolius</i> Roxb.	Polao pata	Pandanaceae	Shrub	Not rec	V
<i>Panicum miliaceum</i> L.	Kaindan	Poaceae	Herb	Mar-Sep	Co
<i>Phoenix sylvestris</i> (L.) Blume	Khejur	Arecaceae	Tree	Dec-Jul	Fr
<i>Pistia stratiotes</i> L.	Futihena	Araceae	Herb	Oct-Mar	F
<i>Polianthes tuberosa</i> L.	Rajanigonda	Aloeaceae	Herb	Jul-Sep	Fl
<i>Porteresia coarctata</i> (Roxb.) Takeoka	Uridan	Poaceae	Herb	Sep-Mar	F
<i>Rhynchosystis retusa</i> (L.) Blume.	Rasna	Orchidaceae	Herb	May-Jul	M
<i>Saccharum officinarum</i> L.	Kuyar	Poaceae	Herb	Aug-Oct	C
<i>Saccharum spontaneum</i> L.	Kasful,Kaiccha	Poaceae	Herb	Jan-Dec	F
<i>Schumannianthus dichotomus</i> (Roxb.) Gagnep.	Sitol pati	Marantaceae	Shrub	Dec-Mar	H
<i>Spirodela polyrhiza</i>	Fena	Lemnaceae	Herb	Not rec	F

Scientific name (L.) Schleid.	Local name	Family	Habit	Flowering- fruiting	Economic uses
<i>Typha elephantina</i> Roxb.	Daripata	Typhaceae	Herb	Mar-May	Th
<i>Zea mays</i> L.	Bhutta	Poaceae	Herb	Apr-Aug	Co
<i>Zingiber officinale</i> Roscoe	Ada	Zingiberaceae	Herb	Sep-Nov	S
<i>Zoysia matrella</i> (L.) Merr.	Latakher	Poaceae	Herb	Mar-Sep	F

Legend: Jan-January, Feb- February, Mar-March, Apr-April, Jun-June, Jul-July, Aug-August, Sep-September, Oct-October, Nov-November, Dec-December, Not rec=Not recorded, V-vegetables, M-Medicinal, T-Timber, Fr-Fruit, F-Fodder, O-Ornamental, Os-Oil seed, Fl-Flowering, Fu-Fuel, S-Spices, F-Fibre yielding, H-Hedge, C-Chewing, Fn-Furniture, Co-Corn, Th-Thatching.

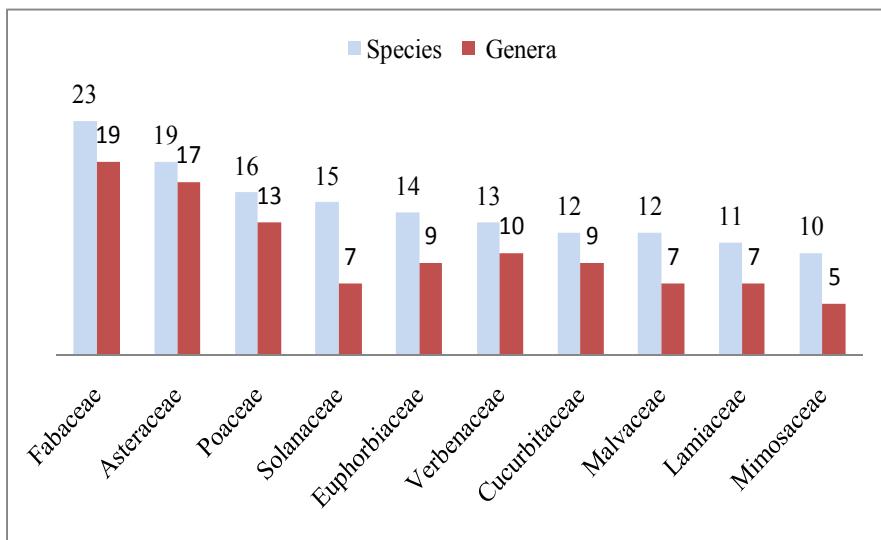


Fig. 2. Ten dominant angiosperm plant families of Subarnachar.

In Magnoliopsida, Fabaceae appears to be the largest family having with 23 species and 19 genera whereas, in Liliopsida, Poaceae appears to be the largest family having with 16 species and 13 genera. But, Poaceae is the largest and Fabaceae is the second largest family in the National Flora. Five angiosperm families (Poaceae, Fabaceae, Asteraceae, Euphorbiaceae, Lamiaceae) of the area showed similarly largest among the ten dominant families as of Bangladesh Flora also. Ten dominant families (11.49% of total) are holding about 40.08% of the total genera and 42.03% of the total species in Subarnachar. 33 plant families represented by single genus and single species.

It is evident that *Solanum* is the largest genus containing 9 species followed by *Ficus* (5 sp.), *Phyllanthus* (5 sp.), *Cyperus* (4 sp.), *Citrus* (4sp.), *Ipomoea* (4 sp.), *Syzygium* (4 sp.), *Albizia* (3 sp.), *Chenopodium* (3 sp.) and *Sida* (3 sp.) (Table 2). But in Bangladesh Flora, it is *Ficus* (61 sp.), *Cyperus* (51 sp.), *Dendrobium* (43 sp.), *Syzygium* (36 sp.), *Fimbristylis* (34 sp.), *Ipomoea* (34 sp.), *Crotalaria* (28 sp.), *Euphorbia* (25 sp.), *Dalbergia* (24 sp.) and *Strobilanthes* (24 sp.) respectively (Pasha and Uddin 2013).

Table 2. List of ten dominant Genera of Subarnachar and National Flora.

Subarnachar		National Flora	
Genera	No. of species	Genera	No. of species
<i>Solanum</i>	9	<i>Ficus</i>	61
<i>Ficus</i>	5	<i>Cyperus</i>	51
<i>Phyllanthus</i>	5	<i>Dendrobium</i>	43
<i>Cyperus</i>	4	<i>Syzygium</i>	36
<i>Citrus</i>	4	<i>Fimbristylis</i>	34
<i>Ipomoea</i>	4	<i>Ipomoea</i>	34
<i>Syzygium</i>	4	<i>Crotalaria</i>	28
<i>Albizia</i>	3	<i>Euphorbia</i>	25
<i>Chenopodium</i>	3	<i>Dalbergia</i>	24
<i>Sida</i>	3	<i>Strobilanthes</i>	24

Among the angiosperms, herbs represented by 174 species, shrubs by 53, trees by 96 and climbers by 22 species respectively. The habit diversity shows that herbaceous plants are dominating over trees, shrubs and climbers (Fig. 3).

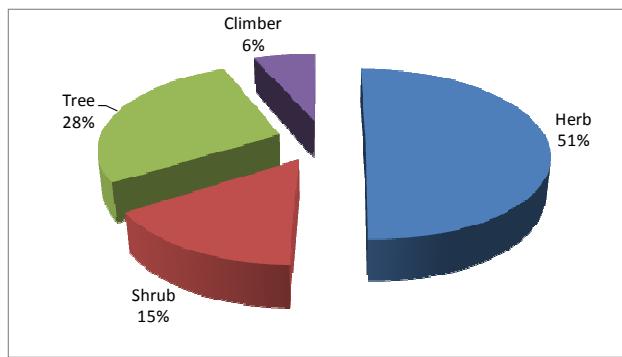


Fig. 3. Habit diversity of angiosperm plants of Subarnachar.

The plant diversity of the island is represented by 94% terrestrial, 5% aquatic and 1% epiphytic species. Major aquatic vegetation of the area represented by *Centrostachys aquatica*, *Eichhornia speciosa*, *Hygrophila auriculata*, *Lemna perpusilla*, *Monochoria*

*hastata*, *Pistia stratiotes*, *Sphenocephala zeylanica* and *Spirodela polyrhiza* respectively. *Acampe papillosa* and *Rhynchostylis retusa* are the common epiphytic orchid plant of the island. *Porteresia coarctata*, *Heliotropium curassavicum* and *Zoysia matrella* are commonly grow in the char land. The angiospermic plants which found naturally or growing wild are represented by 48% species and the cultivated or planted are 52%. The diversity of cultivated species is higher than the wild one. Phenology or flowering and fruiting period varied from species to species. Spring represents highest (28%) and summer represents lowest (12%) number of flowering-fruiting occurred in angiosperms (Fig. 4).

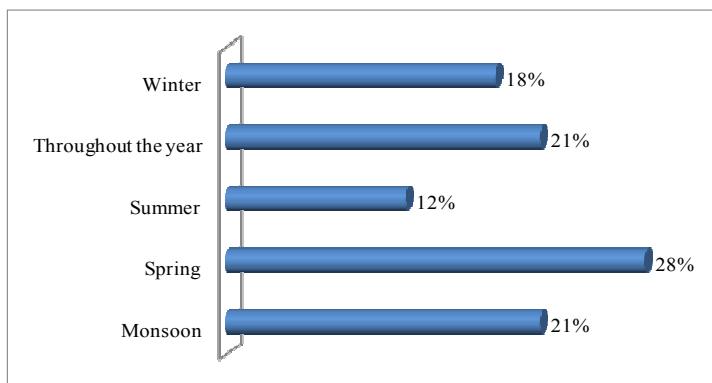


Fig. 4. Phenology of angiosperm species in the study area.

The homestead cultivated plants are the dominant floristic composition of the area. The trees which are most common and occupied the major canopy of the area are *Albizia odoratissima*, *Albizia saman*, *Artocarpus heterophyllus*, *Cocos nucifera*, *Litsea monopetala*, *Mangifera indica*, *Phoenix sylvestris*, *Pongamia pinnata*, *Syzygium cumini*, *Thespesia populnea* and *Terminalia catappa*. On the basis of abundance, the main characteristics plants of the area are *Pithecellobium dulce*, *Derris trifoliata*, *Stephania japonica*, *Ipomoea fistulosa* and *Acacia nilotica*. Dominant herbaceous plants of the area are *Cynodon dactylon*, *Oenanthe javanica*, *Phyla nodiflora* and *Scoparia dulcis* respectively. Most commonly cultivated crops are *Arachis hypogaea*, *Citrullus lanatus*, *Solanum tuberosum*, *Solanum melongena*, *Solanum lycopersicum*, *Oryza sativa*, *Piper betle*, *Cucurbita maxima*, *Ipomoea batatas* and *Lathyrus sativus*.

The plant diversity of southern parts of Subarnachar is dominated by mangrove plants like *Acanthus illicifolius*, *Excoecaria agallocha*, *Sonneratia apetala*, *Derris scandens* and *Tamarix indica*. Mangrove plantation started during 1967-68 in newly developed land of southern parts- Charbata and Char Alauddin (Mahmud 2007). Major part of the mangrove is destroying by anthropological activities, only few parts are appeared at the present time. Social forestry programme was done by Noakhali forest department from 1981-82 through which *Phyllanthus emblica*, *Dalbergia sissoo*, *Casuarina equisetifolia*, *Acacia auriculiformis*, *Azadirachta indica* and *Acacia mangium* etc. were planted

(Mahmud 2007). The area is heavily populated and by diverse activities they control the vegetation in general. The characteristics vegetation is evergreen in nature. Few plants like *Terminalia* spp, *Albizia* spp, *Zizyphus mauritiana*, *Erythrina fusca*, *Bombax ceiba*, *Cassia fistula* and *Crateva magna* which are deciduous, sometimes alter the evergreen nature of the area.

People depend much for their livelihood on the cultivated plants around the homestead area for the high population density in the area. They always clear the lands for the cash crops cultivation. These activities enhanced the degradation of plant diversity in the area. Grazing by domestic animals also alter the vegetation. Destruction of homestead vegetation, agricultural extension, introduction of exotic species and drought are the main threats to the flora of the area. It is very essential to document the angiosperm plant species before their disappearing and to recommend a suitable conservation strategy to conserve the phytodiversity of the area.

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