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RESEARCH ARTICLE

An Assessment of Angiosperm Diversity at Mahadebpur Upazila of Naogaon District, Bangladesh

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Abstract

An assessment of angiosperm diversity at Mahadebpur Upazila of Naogaon District, Bangladesh was carried out from December 2013 to June 2015. A total of 265 species belonging to 204 genera under 94 families were recorded. Magnoliopsida (Dicotyledones) is represented by 81 families, 175 genera and 232 species, whereas Liliopsida (Monocotyledones) by 13 families, 29 genera and 33 species. These comprise of 116 herbs, 48 shrubs, 30 climbers, 71 trees, belong to 94 families. Cucurbitaceae and Amaranthaceae are the largest family in Magnoliopsida represented by 13 species in each and in Liliopsida Poaceae is the largest family with 9 species. Acanthaceae, Amaranthaceae, Asteraceae, Apocynaceae, Brassicaceae, Caesalpiniaceae, Convolvulaceae, Cucurbitaceae, Euphorbiaceae, Fabaceae, Moraceae, Malvaceae, Mimosaceae, Myrtaceae, Polygonaceae, Poaceae, Rutaceae and Solanaceae are the dominant families with high species diversity. For each species botanical name, local name, habit, relative occurrence, phenology, plant population, voucher number and family were provided.

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INTRODUCTION

Angiosperms are as important to humans as they are to other animals. Angiosperms serve as the major source of food-either directly or indirectly through consumption by herbivores-and, as mentioned above, they are a primary source of consumer goods, such as building materials, textile fibres, spices, herbs, and pharmaceuticals.

Among the most important food plants on a global scale are cereals from the grass family (Poaceae); potatoes, tomatoes, eggplant, and red or chili peppers from the potato family (Solanaceae); legumes or beans (Fabaceae); pumpkins, melons, and gourds from the squash family (Cucurbitaceae); broccoli, cabbage, cauliflower, radish, and other vegetables from the mustard family (Brassicaceae, or Cruciferae); and almonds, apples, apricots, cherries, loquats, peaches, pears, raspberries, and strawberries from the rose family (Rosaceae). Members of many angiosperm families are used for food on a local level, such as ullucu (*Ullucus tuberosus*) in the Andes and cassava (*Manihot esculenta*) throughout the tropics. Tropical angiosperm trees are an important source of timber in the tropics and throughout the world (Purselove, 1968a, 1968b).

The importance of studying local floristic diversity has been realized and carried out in Bangladesh by Tutul et al (2010), Khan and Afza (1968), Khan and Banu (1972), Khan and Hassan (1984), Khan and Huq (2001), Moniruzzaman et al (2012), Rahman et al (2006), Rahman et al (2007a, 2007b, 2007c), Rahman et al (2008a, 2008b), Rahman et al (2011), Rahman (2013a, 2013b, 2013c, 2013d, 2013e, 2013f, 2013g), Rahman et al (2013),

Rahman and Akter (2013), Rahman and Khanom (2013), Rahman (2014), Rahman et al (2014a, 2014b, 2014c), Rahman and Debnath (2014a, 2014b), Rahman and Gulshana (2014), Rahman and Keya (2014a, 2014b), Rahman and Rahman (2014), Rahman and Rojonigondha (2014), Rahman and Parvin (2015), Rahman et al (2015a, 2015b, 2015c), Ara et al (2011, 2013), Rahman and Uddin (1997), Rahman and Alam (2013), Arefin et al (2011), Islam et al (2009), Khan and Huq (2001), Khan et al (1994), Rahman et al (2010, 2013), Rahman and Hassan (1995), Uddin and Hassan (2010, 2012), and Uddin et al (2013, 2014). The present study was made an inventory of the angiosperm diversity at Mahadebpur Upazila of Naogaon district, Bangladesh.

Materials and Methods

An assessment of angiosperm diversity at Mahadebpur Upazila of Naogaon District, Bangladesh was carried out from December 2013 to June 2015. A total of 265 species belonging to 204 genera under 94 families were collected and identified. A survey on the determination of the location of different species was made and a list was prepared to be acquainted with the plants available in the selected area. All the species were noted and time to time the areas were visited to see when they flowered. For the morphological study, different types of species were examined again and again in order to see if there was any variation or not. They were collected at flowering stages and herbarium specimens were prepared as vouchers. In this practice standard method was followed. In this regard different types of plant species were collected from different habitats. All the collected plant specimens were kept in the Herbarium, Department of Botany, and University of Rajshahi, Bangladesh.

The major collected materials were identified and described up to species with the help of Cronquist (1981), Hooker (1961), Prain (1963) and Kirtikar and Basu (1987), Ahmed et al (2008-2009) were consulted. For the current name and up-to-date nomenclature Huq (1986) and Pasha and Uddin (2013) were also consulted.

Results and Discussion

An assessment of Angiosperm diversity at Mahadebpur Upazila of Naogaon District, Bangladesh conducted during December 2013 to June 2015. A total of 265 species belonging to 204 genera under 94 families were recorded. Of these, Magnoliopsida (Dicotyledones) is represented by 232 species under 175 genera and 81 families while Liliopsida (Monocotyledones) is represented by 33 species under 29 genera and 13 families. Cucurbitaceae and Amaranthaceae are the largest family in Magnoliopsida represented by 13 species and, in Liliopsida; Poaceae is the largest family with 9 species. Habit analysis shows that herbs, shrubs, climbers and trees are represented by 116, 48, 30 and 71 species, respectively (**Table 1, 2**). Amaranthaceae, Asteraceae, Apocynaceae, Caesalpiniaceae, Convolvulaceae, Cucurbitaceae, Euphorbiaceae, Fabaceae, Moraceae, Malvaceae, Mimosaceae, Myrtaceae, Poaceae, Rutaceae and Solanaceae are the dominant families with high species diversity. For each species botanical name, local name, habit, plant population, phenology, status of occurrence voucher number and family were provided (**Table 1**). Of 265 species recorded here, herbs are represented by 116 (43.77%), trees by 71 (26.79%), shrubs by 48 (18.11%) and climber by 30 (11.32%) species. (**Table 3, Figure 1**).

Based on this study, a preliminary list of angiosperm diversity at Mahadebpur upazila of Naogaon district, Bangladesh conducted during December 2013 to June 2015. A total of 265 species belonging to 204 genera under 94 families were recorded. (**Table 1**). The collected information is comparable with the result of other studies in Bangladesh. A total of 243 species belonging to 195 genera under 95 families were recorded in Khagrachhari district (Islam et al, 2009). A total of 374 species belonging to 264 genera under 84 families were recorded in Lawachara National Park (Uddin and Hassan, 2010). A total of 153 species belonging to 120 genera under 52 families were recorded in Runctia Sal Forest (Tutul et al, 2010). A total of 245 species belonged to 183 genera and 72 families are documented in Habiganj district (Arefin et al, 2011). A total of 425 species belonging to 321 genera 108 families are recorded in Rajshahi district (Rahman, 2013d). A total of 302 species belonging to 243 genera 84 families are recorded in Bangladesh Police Academy, Rajshahi (Rahman et al, 2014b). No published information recorded on the diversity of angiosperm plant species at Mahadebpur upazila of Naogaon district, Bangladesh.

Distribution of angiosperm species in the families shows variation. The family Cucurbitaceae and Amaranthaceae are represented by 13 species. The family Solanaceae is represented by 12 species. Euphorbiaceae is represented by 11 species. Fabaceae is represented by 10 species. Asteraceae and Poaceae is represented by 9 species. Moraceae is represented by 8 species. Lamiaceae is represented by 7 species. Each of Apocynaceae, Verbenaceae and Euphorbiaceae is represented by 6 species. A single species in each was recorded by 48 families while two to five species in each was recorded by 34 families (**Table 1**).

According to the data obtained in result of quantitative analysis in the study area 265 plant species were recorded, out of them 116 plant species were herbs, 48 were shrubs, 30 were climbers and 71 were tree species belonging to 94 families (**Table 3**).

Distribution was measured only to indicate the status of occurrence of each species in this area and was based on eye estimation. A species which is distributed every where is called abundant (very common); when it is distributed at certain intervals is called frequent (common). Occurrence of species which is very few is called rare and distribution by one or two plants is called as very rare. Of 265 angiosperm plant species recorded here, very common are represented by 61 (23.01%), common by 116 (43.77%), rare by 77 (29.05%) and very rare by 11 (4.15%) plant species. (**Table 4, Figure 2**).

A total of 265 species belonging to 204 genera under 94 families were recorded. Of the total number of species, *Abelmoschus esculentus*, *Acacia auriculiformis*, *Ageratum conyzoides*, *Alternanthera sessilis*, *Alternanthera philoxeroides*, *Amaranthus spinosus*, *Amaranthus tricolor*, *Amaranthus viridis*, *Areca catechu*, *Argemone mexicana*, *Artocarpus heterophyllus*, *Azadirachta indica*, *Bambusa tulda*, *Basella alba*, *Bryophyllum pinnatum*, *Calotropis procera*, *Carrica papaya*, *Catharanthus roseus*, *Centella asiatica*, *Chenopodium ambrosioides*, *Citrus aurantifolia*, *Clerodendrum viscosum*, *Coccinia grandis*, *Cocos nucifera*, *Colocasia esculenta*, *Commelina benghalensis*, *Coriandrum sativum*, *Croton bonplandianum*, *Cynodon dactylon*, *Dendrophloe falcata*, *Dopatrium junceum*, *Eucalyptus citrodora*, *Euphorbia hirta*, *Ficus hispida*, *Fumaria indica*, *Heliotropium indicum*, *Hibiscus rosa-sinensis*, *Isachne globosa*, *Lagenaria sicararia*, *Lawsonia inermis*, *Leucas aspera*, *Leucas lavandulifolia*, *Lycopersicon esculentum*, *Mangifera indica*, *Mimosa pudica*, *Monochoria hastata*, *Musa sapientum*, *Parthenium hysterophorus*, *Pepromia pellucida*, *Phoenix sylvestris*, *Phyllanthus reticulatus*, *Persicaria hydropiper*, *Persicaria orientalis*, *Psidium guajava*, *Rosa centifolia*, *Scorparia dulcis*, *Sesbania canabina*, *Solanum nigrum*, *Spilanthes calva*, *Stephania japonica*, *Syzygium cumini*, *Trapa bispinosa*, *Xanthium indicum*, *Zizyphus mauritiana* were recorded as abundant (very common); *Abroma augusta*, *Acacia nilotica*, *Achras zapota*, *Aegle marmelos*, *Aerva sanguinolenta*, *Albizia procera*, *Achyranthes aspera*, *Allium cepa*, *Allium sativum*, *Aloe vera*, *Alstonia scholaris*, *Amaranthus dubius*, *Ananas sativus*, *Andrographis paniculata*, *Anthocephalus chinensis*, *Aphanamixis polystachya*, *Averrhoa carambola*, *Baccaurea ramiflora*, *Benincasa hispida*, *Bombax ceiba*, *Borassus flabellifer*, *Brassica napus*, *Brassica oleracea var. botrytis*, *Brassica oleracea var. capitata*, *Cajanus cajan*, *Capsicum frutescens*, *Canna indica*, *Senna alata*, *Cassia fistula*, *Senna sophera*, *Cestrum nocturnum*, *Chrozophora rotleri*, *Citrus grandis*, *Clerodendrum inerme*, *Commelina longifolia*, *Corchorus capsularis*, *Cucurbita maxima*, *Curcuma longa*, *Cuscuta reflexa*, *Cyanotis axillaris*, *Cyperus tegetiformis*, *Dalbergia sissoo*, *Delonix regia*, *Diospyros malabarica*, *Duranta repens*, *Eclipta alba*, *Euphorbia thymifolia*, *Elaeocarpus robustus*, *Epipremnum aureum*, *Ficus benghalensis*, *Ficus religiosa*, *Gardenia jasminoides*, *Glinus oppositifolius*, *Gossypium herbaceum*, *Hibiscus mutabilis*, *Herpestis chamaedroides*, *Hydrolea zeylanica*, *Imperata cylindrica*, *Ipomoea alba*, *Ipomoea aquatica*, *Ipomoea batatas*, *Ipomoea fistulosa*, *Ipomoea quamocli*, *Ixora coccinia*, *Justicia gendarusa*, *Kalanchoe blossfeldiana*, *Lablab purpureus*, *Lagerstroemia speciosa*, *Lanea coromandelica*, *Lemna perpusila*, *Leucas cephalotes*, *Limonia acidissima*, *Litchi chinensis*, *Ludwigia adscendens*, *Manikara achras*, *Microcos paniculata*, *Michelia champaca*, *Mimusops elengi*, *Mirabilis jalapa*, *Moringa oleifera*, *Nelumbo nucifera*, *Nicotiana plumbaginifolia*, *Nyctanthes arbor-tristis*, *Nymphaea nouchali*, *Nymphoides indicum*, *Ocimum americanum*, *Oryza sativa*, *Oxalis corniculata*, *Physalis minima*, *Phyllanthus urinaria*, *Polyalthia longifolia*, *Portulaca oleracea*, *Pouzolzia zeylanica*, *Polycarpon prostratum*, *Punica granatum*, *Raphanus sativus*, *Saccharum officinarum*, *Saccharum spontaneum*, *Senna tora*, *Sesamum indicum*, *Sida cordifolia*, *Solanum ferox*, *Solanum melongena*, *Solanum surattense*, *Solanum tuberosum*, *Spondius pinnata*, *Swietenia mahagoni*, *Syzygium jambos*, *Syzygium samarangense*, *Tabernaemontana divaricata*, *Tagetes erecta*, *Tagetes patula*, *Tamarindus indica*, *Terminalia arjuna*, *Terminalia chebula*, *Trichosanthes arguina*, *Typhonium trilobatum*, *Vitis trifolia* as frequent (common); *Amaranthus lividus*, *Annona squamosa*, *Arachis hypogea*, *Ardisia paniculata*, *Artocarpus lacucha*, *Asparagus*

racemosus, Barringtonia acutangula, Bergia ammannioides, Bougainvillea spectabilis, Cannabis sativa, Calotropis gigantea, Carissa carandas, Celosia cristata, Chenopodium album, Chrysanthamum coronarium, Cinnamomum tamala, Cleome viscosa, Clitoria tarnetea, Coix lacryma, Cucumis melo, Cucumis sativus, Cyathula capitata, Cyanotis cristata, Datura metel, Dendrophoe falcate, Drosera burmannii, Digeria arvensis, Exacum pedunculatum, Euphorbia pulcherrima, Ficus racemosa, Gmelina arborea, Helianthus annuus, Impatiens balsamina, Jasminum grandiflorum, Jatropha gossypifolia, Jatropha integerrima, Justicia adhatoda, Kalanchoe lacinata, Kyllinga monocephala, Leucas lavandulifolia, Litsea monopetala, Luffa acutangula, Luffa cylindrica, Mentha arvensis, Messua nagassarium, Momordica charantia, Momordica cochinchinensis, Morinda citrifolia, Morus nigra, Mukia maderaspatana, Murraya paniculata, Nerium indicum, Ocimum sanctum, Passiflora edulis, Piper betle, Pisonia aculeata, Persicaria barbatum, Polygonum plebejum, Pyrus communis, Ranunculus scleratus, Ricinus communis, Spathodea campanulata, Spondius purpurea, Streblus asper, Tabebuia aurea, Tabernaemontana coronaria, Tectona grandis, Terminalia catappa, Vandellia multiflora, Vigna sinensis, Vitex negundo, Vitis vinifera, Zea mays, Zingiber officinale were recorded as rare and *Alternanthera paronychioides, Cinnamomum verum, Dillenia indica, Diospyros montana, Diospyros philippensis, Erythrina variegata, Leonuros sibiricus, Solanum torvum, Trichosanthes dioica, Vigna mungo* were recorded as very rare species in the study area (**Table 4**).

In the study area 185 plant species are planted and 80 species are wild, i.e. *Abelmoschus esculentus, Abroma augusta, Acacia auriculiformis, Achras zapota, Aegle marmelos, Albiziaprocera, Allium cepa, Allium sativum, Aloe vera, Alstonia scholaris, Amaranthus dubius, Amaranthus tricolor, Ananas sativus, Annona squamosa, Anthocephalus chinensis, Aphanamixis polystachya, Arachis hypogea, Areca catechu, Artocarpus heterophyllus, Artocarpus lacucha, Averrhoa carambola, Azadirachta indica, Baccaurea ramiflora, Barringtonia acutangula, Bambusa tulda, Basella alba, Benincasa hispida, Bombax ceiba, Borassus flabellifer, Brassica napus, Brassica oleracea Var .botrytis, Brassica oleracea Var .capitata, Cannabis sativa, Cajanus cajan, Capsicum frutescens, Carissa carandas, Carrica papaya, Catharanthus roseus, Celosia cristata, Cestrum nocturnum, Chrysanthamum coronarium, Cinnamomum tamala, Cinnamomum verum, Citrus aurantifolia, Citrus grandis, Cocos nucifera, Colocasia esculenta, Corchorus capsularis, Coriandrum sativum, Cucumis melo, Cucumis sativus, Cucurbita maxima, Curcuma longa, Cynodon dactylon, Dalbergia sissoo, Delonix regia, Dillenia indica, Diospyros malabarica, Diospyros philippensis, Duranta repens, Elaeocarpus robustus, Eucalyptus citrodora, Ficus benghalensis, Ficus racemosa, Ficus religiosa, Gardenia jasminoides, Gmelina arborea, Gossypium herbaceum, Helianthus anuus, Hibiscus mutabilis, Hibiscus rosa-sinensis, Impatiens balsamina, Ipomoea aquatica, Ipomoea batatus, Ixora coccinia, Jatropha integerrima, Justicia gendarusa, Kalanchoe blossfeldiana, Lablab purpureus, Lagenaria sicaria, Lagerstroemia speciosa, Lannea coromandelica, Lawsonia inermis, Limonia acidissima, Litchi chinensis, Litsea monopetala, Luffa acutangula, Luffa cylindrica, Lycopersicon esculentum, Manikara achras, Mangifera indica, Mentha arvensis, Michelia champaca, Mimusops elengi, Mirabilis jalapa, Momordica charantia, Momordica cochinchinensis, Moringa oleifera, Morus nigra, Murraya paniculata, Musa sapientum, Nelumbo nucifera, Nerium indicum, Nyctanthes arbor-tristis, Nymphaea nouchali, Ocimum sanctum, Oryza sativa, Phoenix sylvestris, Piper betel, Polyalthia longifolia, Psidium guajava, Punica granatum, Pyrus communis, Raphanus sativus, Rosa centifolia, Saccharum officinarum, Saccharum spontaneum, Sesamum indicum, Sesbania canabina, Solanum melongena, Solanum tuberosum, Spondius pinnata, Spondius purpurea, Swietenia mahagoni, Syzygium cumini, Syzygium jambos, Syzygium samarangense, Tabernaemontana coronaria, Tabernaemontana divaricata, Tagetes erecta, Tagetes patula, Tamarindus indica, Tectona grandis, Terminalia arjuna, Terminalia catappa, Terminalia chebula, Trichosanthes arguina, Trichosanthes dioica, Typhonium trilobatum, Vigna mungo, Vigna sinensis, Vitis vinifera, Zea mays, Zingiber officinale, Zizyphus mauritiana* were recorded as planted and *Acacia nilotica, Achyranthes aspera, Aerva sanguinolenta, Ageratum conyzoides, Alternanthera philoxeroides, Alternanthera paronychioides, Alternanthera sessilis, Amaranthus lividus, Amaranthus spinosus, Amaranthus viridis, Andrographis paniculata, Ardisia paniculata, Argemone mexicana, Asparagus racemosus, Bergia ammannioides, Biophytum sensitivum, Bougainvillea spectabilis, Bryophyllum pinnatum, Canna indica, Calotropis gigantea, Calotropis procera, Senna alata, Cassia fistula, Senna sophera, Centella asiatica, Chenopodium album, Chenopodium ambrosioides, Chrozophora rotleri, Cleome viscosa, Clerodendrum inerme, Clerodendrum viscosum, Clitoriatarnetea, Coccinia grandis, Coix lacryma, Commelina benghalensis, Commelina longifolia, Croton bonplandianus, Cuscuta reflexa, Cyanotis axillaris, Cyanotis cristata, Cyathula capitata, Cyperus tegetiformis, Datura metel, Dendrophoe falcata, Digeria arvensis, Diospyros montana, Dopatrium junceum, Drosera burmannii, Eclipta alba, Epipremnum aureum, Erythrina variegata, Euphorbia hirta, Euphorbia thymifolia, Euphorbia pulcherrima, Exacum pedunculatum, Ficus hispida, Fumaria indica, Glinus oppositifolius, Heliotropium indicum, Herpestis chamaedroides, Hydrolea zeylanica, Imperata cylindrica, Ipomoea alba, Ipomoea fistulosa, Ipomoea quamocli, Isachne globosa, Jasminum grandiflorum, Jatropha gossypifolia, Justicia adhatoda, Kalanchoe lacinata,*

Kyllinga monocephala, Lemna perpusila, Leonuros sibiricus, Leucas aspera, Leucas cephalotes, Leucas lavandulifolia, Ludwigia adscendens, Mesua nagassarium, Microcos paniculata, Mimosa pudica, Monochoria hastata, Morinda citrifolia, Mukia maderaspatana, Nicotiana plumbaginifolia, Nymphoides indicum, Ocimum americanum, Oxalis corniculata, Parthenium hysterophorus, Passiflora edulis, Pepromia pellucida, Phyllanthus reticulatus, Phyllanthus urinaria, Physalis minima, Pisonia aculeata, Persicaria barbatum, Persicaria hydropiper, Polycarpon prostratum, Persicaria orientale, Polygonum plebejum, Portulaca oleracea, Pouzolzia zeylanica, Ranunculus scleratus, Ricinus communis, Scorparia dulcis, Senna sophora, Sida cordifolia, Solanum ferox, Solanum nigrum, Solanum surattense, Solanum torvum, Spathodea campanulata, Spilanthes calva, Stephania japonica, Streblus asper, Tabebuia aurea, Trapa bispinosa, Vandelia multiflora, Vitex negundo, Vitis trifolia, Xanthium indicum were recorded as wild (**Table 5**).

Table 1: Showing the families of the plant species recorded

| SL. No. | Family | No. of the Herb species | No. of the Shrub species | No. of the Climber species | No. of the Tree species |
|---------|-----------------|-------------------------|--------------------------|----------------------------|-------------------------|
| 1 | Acanthaceae | 1 | 2 | - | - |
| 2 | Aloeaceae | 1 | - | - | - |
| 3 | Amaranthaceae | 12 | 1 | - | - |
| 4 | Anacardiaceae | - | - | - | 4 |
| 5 | Annonaceae | - | - | - | 2 |
| 6 | Apiaceae | 2 | - | - | - |
| 7 | Apocynaceae | 2 | 3 | - | 1 |
| 8 | Araceae | 2 | - | 1 | - |
| 9 | Araliaceae | - | - | - | 1 |
| 10 | Arecaceae | - | - | - | 4 |
| 11 | Asclepiadaceae | - | 2 | - | - |
| 12 | Asteraceae | 8 | 1 | - | - |
| 13 | Balsaminaceae | 1 | - | - | - |
| 14 | Basellaceae | - | - | 1 | - |
| 15 | Bignoniaceae | - | - | - | 2 |
| 16 | Bombaceae | - | - | - | 1 |
| 17 | Boraginaceae | 1 | - | - | - |
| 18 | Brassicaceae | 4 | - | - | - |
| 19 | Bromeliaceae | 1 | - | - | - |
| 20 | Caesalpiniaceae | - | 2 | - | 3 |
| 21 | Cannabinaceae | 1 | - | - | - |
| 22 | Cannaceae | 1 | - | - | - |

| | | | | | |
|----|-----------------|---|---|----|---|
| 23 | Capparaceae | 1 | - | - | - |
| 24 | Caricaceae | - | - | - | 1 |
| 25 | Caryophyllaceae | 1 | - | - | - |
| 26 | Chenopodiaceae | 2 | - | - | - |
| 27 | Clusiaceae | - | - | - | 1 |
| 28 | Combretaceae | - | - | - | 3 |
| 29 | Commelinaceae | 4 | - | - | - |
| 30 | Convolvulaceae | 1 | - | 4 | - |
| 31 | Crassulaceae | 3 | - | - | - |
| 32 | Cucurbitaceae | - | - | 13 | - |
| 33 | Cuscutaceae | - | - | 1 | - |
| 34 | Cyperaceae | 2 | - | - | - |
| 35 | Dilleniaceae | - | - | - | 1 |
| 36 | Droseraceae | 1 | - | - | - |
| 37 | Ebenaceae | - | - | - | 3 |
| 38 | Elaeocarpaceae | - | - | - | 1 |
| 39 | Elatinaceae | 1 | - | - | - |
| 40 | Euphorbiaceae | 5 | 5 | - | 1 |
| 41 | Fabaceae | 4 | 3 | 2 | 1 |
| 42 | Fumariaceae | 1 | - | - | - |
| 43 | Gentianaceae | 1 | - | - | - |
| 44 | Hydrophyllaceae | 1 | - | - | - |
| 45 | Lamiaceae | 7 | - | - | - |
| 46 | Lauraceae | - | 1 | - | 2 |
| 47 | Lecythidaceae | 1 | - | - | 1 |
| 48 | Lemnaceae | 1 | - | - | - |
| 49 | Liliaceae | 2 | - | 1 | - |
| 50 | Loranthaceae | 1 | - | - | - |

| | | | | | |
|----|----------------|---|---|---|---|
| 51 | Lythraceae | - | 1 | - | 1 |
| 52 | Magnoliaceae | - | - | - | 1 |
| 53 | Malvaceae | 2 | 2 | - | 1 |
| 54 | Meliaceae | - | - | - | 3 |
| 55 | Menispermaceae | - | - | 1 | - |
| 56 | Menyanthaceae | 1 | - | - | - |
| 57 | Mimosaceae | 1 | - | - | 3 |
| 58 | Molluginaceae | 1 | - | - | - |
| 59 | Moraceae | - | 1 | - | 7 |
| 60 | Moringaceae | - | - | - | 1 |
| 61 | Musaceae | - | 1 | - | - |
| 62 | Myrtaceae | - | - | - | 5 |
| 63 | Nelumbonaceae | 1 | - | - | - |
| 64 | Nyctaginaceae | 1 | - | 2 | - |
| 65 | Nymphaeaceae | 1 | - | - | - |
| 66 | Oleaceae | - | 1 | - | 1 |
| 67 | Onagraceae | 1 | - | - | - |
| 68 | Oxalidaceae | 2 | - | - | 1 |
| 69 | Papaveraceae | 1 | - | - | - |
| 70 | Passifloraceae | - | - | 1 | - |
| 71 | Pedaliaceae | 1 | - | - | - |
| 72 | Piperaceae | 1 | - | 1 | - |
| 73 | Plantaginaceae | 1 | - | - | - |
| 74 | Poaceae | 4 | 5 | - | - |
| 75 | Polygonaceae | 4 | - | - | - |
| 76 | Pontederiaceae | 1 | - | - | - |
| 77 | Portulacaceae | 1 | - | - | - |
| 78 | Punicaceae | - | - | - | 1 |
| 79 | Ranunculaceae | 1 | - | - | - |
| 80 | Rhamnaceae | - | - | - | 1 |
| 81 | Rosaceae | - | 2 | - | - |

| | | | | | |
|----|------------------|-----|----|----|----|
| 82 | Rubiaceae | - | 3 | - | 1 |
| 83 | Rutaceae | - | 1 | - | 4 |
| 84 | Sapindaceae | - | - | - | 1 |
| 85 | Sapotaceae | - | - | - | 3 |
| 86 | Scrophulariaceae | 3 | - | - | - |
| 87 | Solanaceae | 6 | 6 | - | - |
| 88 | Sterculiaceae | - | - | - | 1 |
| 89 | Tiliaceae | - | 2 | - | - |
| 90 | Trapaceae | 1 | - | - | - |
| 91 | Urticaceae | 1 | - | - | - |
| 92 | Verbenaceae | 1 | 3 | - | 2 |
| 93 | Vitaceae | - | - | 2 | - |
| 94 | Zingiberaceae | 2 | - | - | - |
| | Total | 116 | 48 | 30 | 71 |

Table 2. Assessment of Angiosperm Taxa at the Mahadebpur upazila of Naogaon District, Bangladesh

| SL No. | Botanical Name | Local Name | Family | Habit* | Relative occurrence** | Plant Population *** | Phenology # | Voucher No. |
|--------|-------------------------------------|-------------|---------------|--------|-----------------------|----------------------|-------------|-------------|
| 1 | <i>Abelmoschus esculentus</i> | Dherosh | Malvaceae | H | P | VC | Feb-Aug | S. 12 |
| 2 | <i>Abroma augusta</i> | Ulat kambal | Sterculiaceae | T | P | CN | Jun-Dec | S. 85 |
| 3 | <i>Acacia auriculiformis</i> | Akashmoni | Fabaceae | T | P | VC | TY | S. 157 |
| 4 | <i>Acacia nilotica</i> | Babla | Mimosaceae | T | W | C | May-Dec | S. 98 |
| 5 | <i>Achras zapota</i> | Shofeda | Sapotaceae | T | P | CN | TY | S. 4 |
| 6 | <i>Achyranthes aspera</i> | Apang | Amaranthaceae | H | W | C | April-Nov | S. 212 |
| 7 | <i>Aegle marmelos</i> | Bel | Rutaceae | T | P | CN | Apr-Dec | S. 17 |
| 8 | <i>Aerva sanguinolenta</i> | Nuriya | Amaranthaceae | H | W | C | Dec-Apr | S. 205 |
| 9 | <i>Ageratum conyzoides</i> | Vutraj | Asteraceae | H | W | VC | TY | S. 83 |
| 10 | <i>Albizia procera</i> | Korhigas | Mimosaceae | T | P | CN | May-Jan | S. 166 |
| 11 | <i>Allium cepa</i> | Piyaj | Liliaceae | H | P | CN | Feb-Jun | S. 200 |
| 12 | <i>Allium sativum</i> | Rosun | Liliaceae | H | P | CN | Feb-Apr | S. 148 |
| 13 | <i>Aloe vera</i> | Gritakumari | Aloeaceae | H | P | C | Jan-Dec | S. 262 |
| 14 | <i>Alstonia scholaris</i> | Chatim | Apocynaceae | T | P | CN | Nov-May | S. 159 |
| 15 | <i>Alternanthera paronychioides</i> | Lineclock | Amaranthaceae | H | W | VR | Jan-May | S. 181 |

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|----|------------------------------------|-------------|---------------|---|---|----|----------|--------|
| 16 | <i>Alternanthera philoxeroides</i> | Malancho | Amaranthaceae | H | W | VC | Feb-Apr | S. 202 |
| 17 | <i>Alternanthera sessilis</i> | Chanshi | Amaranthaceae | H | W | VC | TY | S. 193 |
| 18 | <i>Amaranthus dubius</i> | Daata | Amaranthaceae | S | P | CN | Feb-Oct | S. 77 |
| 19 | <i>Amaranthus lividus</i> | Chaulai | Amaranthaceae | H | W | R | Aug-Jan | S. 202 |
| 20 | <i>Amaranthus spinosus</i> | Kanta natey | Amaranthaceae | H | W | VC | TY | S. 201 |
| 21 | <i>Amaranthus tricolor</i> | Lalshak | Amaranthaceae | H | P | VC | TY | S. 65 |
| 22 | <i>Amaranthus viridis</i> | Gaikhura | Amaranthaceae | H | W | VC | TY | S. 32 |
| 23 | <i>Andrographis paniculata</i> | Kalmegh | Acanthaceae | H | W | C | Jan-Apr | S. 245 |
| 24 | <i>Ananas sativus</i> | Anaras | Bromeliaceae | H | P | C | Jan-Dec | S. 258 |
| 25 | <i>Annona squamosa</i> | Aata | Annonaceae | T | P | R | Mar-Dec | S. 34 |
| 26 | <i>Anthocephalus chinensis</i> | Kodom | Rubiaceae | T | P | CN | July-Nov | S. 42 |
| 27 | <i>Aphanamixis polystachya</i> | Pitraaj | Meliaceae | T | P | CN | Feb-May | S. 37 |
| 28 | <i>Arachis hypogea</i> | Chinabadam | Fabaceae | H | P | R | Mar-Dec | S. 189 |
| 29 | <i>Ardisia paniculata</i> | Aam change | Araliaceae | T | W | R | Apr-Jul | S. 214 |
| 30 | <i>Areca catechu</i> | Shupari | Arecaceae | T | P | VC | TY | S. 118 |
| 31 | <i>Argemone mexicana</i> | Sheyalkata | Papaveraceae | H | W | VC | Feb-Jun | S. 109 |
| 32 | <i>Artocarpus heterophyllus</i> | Kathal | Moraceae | T | P | VC | Mar-Jul | S. 25 |
| 33 | <i>Artocarpus lacucha</i> | Deu | Moraceae | T | P | R | Apr-Jun | S. 16 |
| 34 | <i>Asparagus racemosus</i> | Shotomuli | Liliaceae | C | W | R | Nov-Mar | S. 145 |
| 35 | <i>Averrhoa carambola</i> | Kamranga | Oxalidaceae | T | P | CN | Sep-Mar | S. 1 |
| 36 | <i>Azadirachta indica</i> | Nim | Meliaceae | T | P | VC | Mar-Jul | S. 19 |
| 37 | <i>Baccaurea ramiflora</i> | Notkot | Euphorbiaceae | T | P | CN | Jun-Sep | S. 8 |
| 38 | <i>Bambusa arundinacea</i> | Bash | Poaceae | S | P | VC | TY | S. 125 |
| 39 | <i>Barringtonia acutangula</i> | Hijal | Lecythidaceae | T | P | R | May-Aug | S. 234 |
| 40 | <i>Basella alba</i> | Puishak | Basellaceae | C | P | VC | Nov-Mar | S. 146 |
| 41 | <i>Benincasa hispida</i> | Chalkumra | Cucurbitaceae | C | P | CN | May-Nov | S. 69 |
| 42 | <i>Bergia ammannioides</i> | Not known | Elatinaceae | H | W | R | Jul-Oct | S. 219 |
| 43 | <i>Biophytum sensitivum</i> | Jhalai | Oxalidaceae | H | W | R | Jan-Sep | S. 208 |
| 44 | <i>Bombax ceiba</i> | Shimul | Bombaceae | T | P | CN | Jan-Apr | S. 61 |
| 45 | <i>Borassus flabellifer</i> | Taal | Arecaceae | T | P | CN | Jun-Aug | S. 33 |
| 46 | <i>Bougainvillea spectabilis</i> | Baganbilash | Nyctaginaceae | C | W | R | TY | S. 172 |

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|----|--|--------------------|-----------------|---|---|----|----------|--------|
| 47 | <i>Brassica napus</i> | Sorisha | Brassicaceae | H | P | CN | Mar-Jul | S. 152 |
| 48 | <i>Brassica oleracea</i> Var. <i>botrydis</i> | Fulkopy | Brassicaceae | H | P | CN | Feb-June | S. 197 |
| 49 | <i>Brassica oleracea</i> Var. <i>capitata</i> | Patacopy | Brassicaceae | H | P | CN | Dec-Mar | S. 199 |
| 50 | <i>Bryophyllum</i> <i>pinnatum</i> | Pathorkuchi | Crassulaceae | H | W | VC | TY | S. 5 |
| 51 | <i>Cajanus cajan</i> | Arhor daal | Fabaceae | S | P | CN | Dec-Apr | S. 196 |
| 52 | <i>Calotropis</i> <i>gigantea</i> | Swetakond | Asclepiadeaceae | S | W | R | TY | S. 217 |
| 53 | <i>Calotropis procera</i> | Akondo | Asclepiadaceae | S | W | CN | SS | S. 142 |
| 54 | <i>Canna indica</i> | Kolaboti | Cannaceae | H | W | C | Jan-De | S. 255 |
| 55 | <i>Cannabis sativa</i> | Ganja | Cannabinaceae | H | P | R | Jan-Apr | S. 199 |
| 56 | <i>Capsicum</i> <i>frutescens</i> | Morich | Solanaceae | H | P | CN | TY | S. 71 |
| 57 | <i>Carissa carandas</i> | Koromcha | Apocynaceae | S | P | R | Mar-Jun | S. 3 |
| 58 | <i>Carrica papaya</i> | Pepe | Caricaceae | T | P | VC | TY | S. 27 |
| 59 | <i>Senna alata</i> | Dadmadan | Caesalpiniaceae | S | W | C | Dec-Mar | S. 226 |
| 60 | <i>Cassia fistula</i> | Badarlathi | Caesalpiniaceae | T | W | C | Apr-Aug | S. 235 |
| 61 | <i>Senna sophora</i> | Kalkashunda | Caesalpiniaceae | S | W | C | Dec-Mar | S. 223 |
| 62 | <i>Catharanthus</i> <i>roseus</i> | Noyontara | Apocynaceae | H | P | VC | TY | S. 20 |
| 63 | <i>Celosia cristata</i> | Morogful | Amaranthaceae | H | P | R | TY | S. 101 |
| 64 | <i>Centella asiatica</i> | Thankuni | Apiaceae | H | W | VC | TY | S. 114 |
| 65 | <i>Cestrum</i> <i>nocturnum</i> | Hasnahena | Solanaceae | S | P | CN | TY | S. 43 |
| 66 | <i>Chenopodium</i> <i>album</i> | Botua | Chenopodiaceae | H | W | R | Dec-Mar | S. 79 |
| 67 | <i>Chenopodium</i> <i>ambrosioides</i> | Chondonbita | Chenopodiaceae | H | W | VC | Mar-Jun | S. 102 |
| 68 | <i>Chrozophora</i> <i>rotleri</i> | Khudi okra | Euphorbiaceae | H | W | C | Mar-Apr | S. 211 |
| 69 | <i>Chrysanthemum</i> <i>coronarum</i> | Chandromolli ka | Asteraceae | S | P | R | Dec-Mar | S. 170 |
| 70 | <i>Cinnamomum</i> <i>tamala</i> | Tejpata | Lauraceae | T | P | R | Feb-Oct | S. 140 |
| 71 | <i>Cinnamomum</i> <i>verum</i> | Darchini | Lauraceae | T | P | VR | Jan-Mar | S. 165 |
| 72 | <i>Citrus aurantifolia</i> | Lebu | Rutaceae | T | P | VC | Mar-Sep | S. 28 |
| 73 | <i>Citrus grandis</i> | Jambura | Rutaceae | T | P | CN | Feb-Nov | S. 7 |
| 74 | <i>Cleome viscosa</i> | Hurhure | Capparaceae | H | W | R | TY | S. 124 |
| 75 | <i>Clerodendrum</i> <i>inerve</i> | Bamunhati | Verbenaceae | H | W | CN | NK | S. 187 |
| 76 | <i>Clerodendrum</i> <i>viscosum</i> | Vet | Verbenaceae | S | W | VC | Jan-July | S. 63 |
| 77 | <i>Clitoria ternetea</i> | Oporajita | Fabaceae | H | W | R | Jun-Mar | S. 171 |
| 78 | <i>Coccinia grandis</i> | Telakucha | Cucurbitaceae | C | W | VC | Mar-Dec | S. 97 |
| 79 | <i>Cocos nucifera</i> | Daab | Arecaceae | T | P | VC | Mar-Jul | S. 117 |
| 80 | <i>Coix lacryma</i> | Kuch | Poaceae | S | W | R | May-Aug | S. 111 |
| 81 | <i>Colocasia</i> <i>esculenta</i> | Kochu | Araceae | H | P | VC | TY | S. 87 |

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|-----|-------------------------------|---------------|------------------|---|---|----|---------|--------|
| 82 | <i>Commelina benghalensis</i> | Kanshira | Commelinaceae | H | W | VC | Apr-Nov | S. 134 |
| 83 | <i>Commelina longifolia</i> | Pani-kanchira | Commelinaceae | H | W | C | Sep-Apr | S. 244 |
| 84 | <i>Corchorus capsularis</i> | Pat | Tiliaceae | S | P | CN | Mar-Aug | S. 57 |
| 85 | <i>Coriandrum sativum</i> | Dhonepata | Apiaceae | H | P | VC | Dec-Feb | S. 194 |
| 86 | <i>Croton bonplandianum</i> | Croton | Euphorbiaceae | H | W | VC | TY | S. 31 |
| 87 | <i>Cucumis melo</i> | Bangi | Cucurbitaceae | C | P | R | Mar-Oct | S. 9 |
| 88 | <i>Cucumis sativus</i> | Sosha | Cucurbitaceae | C | P | R | Apr-Oct | S. 81 |
| 89 | <i>Cucurbita maxima</i> | Mishtikumra | Cucurbitaceae | C | P | CN | Mar-Oct | S. 72 |
| 90 | <i>Curcuma longa</i> | Holud | Zingiberaceae | H | P | CN | Mar-Feb | S. 46 |
| 91 | <i>Cuscuta reflexa</i> | Shornolota | Cuscutaceae | C | W | CN | Au-Mar | S. 139 |
| 92 | <i>Cyanotis axillaris</i> | Not known | Commelinaceae | H | W | CN | Jan-Mar | S. 245 |
| 93 | <i>Cyanotis cristata</i> | Dam | Commelinaceae | H | W | R | Jan-Mar | S. 242 |
| 94 | <i>Cyathula capitata</i> | Not known | Amaranthaceae | H | W | R | Nov-Feb | S. 204 |
| 95 | <i>Cynodon dactylon</i> | Durba | Poaceae | H | P | VC | TY | S. 119 |
| 96 | <i>Cyperus tegetiformis</i> | Gola-methi | Cyperaceae | H | W | CN | Oct-Nov | S. 248 |
| 97 | <i>Dalbergia sissoo</i> | Sishu | Fabaceae | T | P | C | Mar-Jun | S. 106 |
| 98 | <i>Datura metel</i> | Dhutura | Solanaceae | S | W | R | Jan-Dec | S. 147 |
| 99 | <i>Delonix regia</i> | Krishnochura | Caesalpiniaceae | T | P | CN | Apr-Sep | S. 91 |
| 100 | <i>Dendrophoe falcate</i> | Loranthus | Loranthaceae | H | W | R | Jan-Oct | S. 229 |
| 101 | <i>Digeria arvensis</i> | Gungatiya | Amaranthaceae | H | W | R | Feb-Jun | S. 210 |
| 102 | <i>Dillenia indica</i> | Chalta | Dilleniaceae | T | P | VR | May-Feb | S. 167 |
| 103 | <i>Diospyros malabarica</i> | Gaab | Ebenaceae | T | P | C | May-Aug | S. 99 |
| 104 | <i>Diospyros montana</i> | Tamal | Ebenaceae | T | W | VR | Mar-Jun | S. 237 |
| 105 | <i>Diospyros philippensis</i> | Bilati gab | Ebenaceae | T | P | VR | Jun-Nov | S. 238 |
| 106 | <i>Dopatrium junceum</i> | Not known | Scrophulariaceae | H | W | VC | Dec-Feb | S. 236 |
| 107 | <i>Drosera burmannii</i> | Surgasishir | Droseraceae | H | W | R | Jan-Feb | S. 232 |
| 108 | <i>Duranta repens</i> | Duranta | Verbenaceae | S | P | CN | TY | S. 130 |
| 109 | <i>Eclipta alba</i> | Kalokesh | Asteraceae | H | W | CN | TY | S. 55 |
| 110 | <i>Elaeocarpus robustus</i> | Jolpai | Elaeocarpaceae | T | P | CN | Mar-Dec | S. 13 |
| 111 | <i>Epipremnum aureum</i> | Moneyplant | Araceae | C | W | CN | TY | S. 105 |
| 112 | <i>Erythrina variegata</i> | Mother | Fabaceae | S | W | VR | Feb-May | S. 133 |
| 113 | <i>Eucalyptus citrodora</i> | Ukaliptas | Myrtaceae | T | P | VC | TY | S. 126 |
| 114 | <i>Euphorbia hirta</i> | Dudhiya | Euphorbiaceae | H | W | VC | TY | S. 47 |
| 115 | <i>Euphorbia</i> | Lalpata | Euphorbiaceae | S | W | R | Dec-Mar | S. 51 |

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|-----|--------------------------------|-----------------|------------------|---|---|----|---------|--------|
| | <i>pulcherrima</i> | | | | | | | |
| 116 | <i>Euphorbia thymifolia</i> | Dudiya | Euphorbiaceae | H | W | CN | Feb-Apr | S. 221 |
| 117 | <i>Exacum pedunculatum</i> | Not known | Gentianaceae | H | W | CN | Feb-Apr | S. 263 |
| 118 | <i>Ficus benghalensis</i> | Bot gas | Moraceae | T | P | CN | May-Aug | S. 92 |
| 119 | <i>Ficus hispida</i> | Khoksha dumur | Moraceae | S | W | VC | Apr-Sep | S. 48 |
| 120 | <i>Ficus racemosa</i> | Dumur | Moraceae | T | P | R | Apr-Sep | S. 36 |
| 121 | <i>Ficus religiosa</i> | Pakur | Moraceae | T | P | CN | Jul-Nov | S. 90 |
| 122 | <i>Fumaria indica</i> | Papra | Fumariaceae | H | W | VC | Apr-Jun | S. 198 |
| 123 | <i>Gardenia jasminoides</i> | Gondhoraj | Rubiaceae | S | P | CN | Mar-Jul | S. 175 |
| 124 | <i>Glinus oppositifolius</i> | Gima shak | Molluginaceae | H | W | CN | TY | S. 116 |
| 125 | <i>Gmelina arborea</i> | Gamar | Verbenaceae | T | P | R | Feb-Jul | S. 44 |
| 126 | <i>Gossypium herbaceum</i> | Karpas | Malvaceae | T | P | CN | Feb-Jun | S. 227 |
| 127 | <i>Helianthus annuus</i> | Surjomukhi | Asteraceae | H | P | R | TY | S. 154 |
| 128 | <i>Heliotropium indicum</i> | Hatishur | Boraginaceae | H | W | VC | TY | S. 30 |
| 129 | <i>Herpestis chamaedroides</i> | Baby jump-up | Scrophulariaceae | H | W | CN | Mar-May | S. 238 |
| 130 | <i>Hibiscus mutabilis</i> | Sthalpadma | Malvaceae | S | P | N | TY | S. 224 |
| 131 | <i>Hibiscus rosa-sinensis</i> | Joba | Malvaceae | S | P | VC | Jan-Dec | S. 18 |
| 132 | <i>Hydrolea zeylanica</i> | Kasschra | Hydrophyllaceae | H | W | C | Dec-Jan | S. 228 |
| 133 | <i>Impatiens balsamina</i> | Dopati | Balsaminaceae | H | P | R | Mar-Oct | S. 176 |
| 134 | <i>Imperata cylindrica</i> | Ullu | Poaceae | H | W | CN | TY | S. 185 |
| 135 | <i>Ipomoea alba</i> | Dudh kolmi | Convolvulaceae | C | W | CN | TY | S. 186 |
| 136 | <i>Ipomoea aquatica</i> | Kalmishak | Convolvulaceae | C | P | CN | Jan-Dec | S. 66 |
| 137 | <i>Ipomoea batatas</i> | Mistialu | Convolvulaceae | C | P | CN | TY | S. 143 |
| 138 | <i>Ipomoea fistulosa</i> | Dholkalmi | Convolvulaceae | H | W | CN | Jan-Dec | S. 195 |
| 139 | <i>Ipomoea quamoclit</i> | Gateful | Convolvulaceae | C | P | CN | Jun-Sep | S. 144 |
| 140 | <i>Isachne globosa</i> | Jhirjhiri ghash | Poaceae | H | W | VC | TY | S. 128 |
| 141 | <i>Ixora coccinia</i> | Rongon | Rubiaceae | S | P | CN | TY | S. 162 |
| 142 | <i>Jasminum grandiflorum</i> | Kathmoni | Oleaceae | S | W | R | Jun-Nov | S. 60 |
| 143 | <i>Jatropha gossypifolia</i> | Lalkundu | Euphorbiaceae | S | W | R | Apr-Aug | S. 138 |
| 144 | <i>Jatropha integerrima</i> | Dottokia | Euphorbiaceae | S | P | R | Apr-Aug | S. 179 |
| 145 | <i>Justicia adhatoda</i> | Basok | Acanthaceae | S | W | R | TY | S. 135 |
| 146 | <i>Justicia gendarusa</i> | Jogotmodon | Acanthaceae | S | P | CN | Dec-May | S. 52 |
| 147 | <i>Kalanchoe blossfeldiana</i> | Lal pathorkuchi | Crassulaceae | H | P | CN | Dec-Apr | S. 207 |
| 148 | <i>Kalanchoe</i> | Himsagar | Crassulaceae | H | W | R | Jan-Jun | S. 210 |

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|-----|----------------------------------|--------------|----------------|---|---|----|----------|--------|
| | <i>lacinata</i> | | | | | | | |
| 149 | <i>Kyllinga monocephala</i> | Nirbishi | Cyperaceae | H | W | R | Feb-Apr | S. 247 |
| 150 | <i>Lablab purpureus</i> | Shim | Fabaceae | C | P | CN | Nov-Mar | S. 86 |
| 151 | <i>Lagenaria siceraria</i> | Lau | Cucurbitaceae | C | P | VC | Feb-May | S. 68 |
| 152 | <i>Lagerstroemia speciosa</i> | Jarul | Lythraceae | T | P | CN | Apr-Aug | S. 123 |
| 153 | <i>Lannea coromandelica</i> | Jiga | Anacardiaceae | T | P | CN | Apr-Dec | S. 21 |
| 154 | <i>Lawsonia inermis</i> | Mehedi | Lythraceae | S | P | VC | Jun-Dec | S. 156 |
| 155 | <i>Leonurus sibiricus</i> | Roktadron | Lamiaceae | H | W | VR | TY | S. 94 |
| 156 | <i>Leucas aspera</i> | Setodron | Lamiaceae | H | W | VC | TY | S. 53 |
| 157 | <i>Leucas cephalotes</i> | Baro-halkusa | Lamiaceae | H | W | CN | Dec-Jan | S. 246 |
| 158 | <i>Leucas lavandulifolia</i> | Danda-kolos | Lamiaceae | H | W | R | Mar-Oct | S. 240 |
| 159 | <i>Lemna perpusila</i> | Khudi pana | Lemnaceae | H | W | CN | Jul-Dec | S. 251 |
| 160 | <i>Limonia acidissima</i> | Kodbel | Rutaceae | T | P | CN | Feb-Dec | S. 40 |
| 161 | <i>Litchi chinensis</i> | Lichu | Sapindaceae | T | P | CN | Apr-Jun | S. 23 |
| 162 | <i>Litsea monopetalata</i> | Pepulte | Lauraceae | S | P | R | Mar-Nov | S. 58 |
| 163 | <i>Ludwigia adscendens</i> | Kesordam | Onagraceae | H | W | CN | Jan-Dec | S. 233 |
| 164 | <i>Luffa acutangula</i> | Jhinga | Cucurbitaceae | C | P | R | Apr-Oct | S. 74 |
| 165 | <i>Luffa cylindrica</i> | Kodor | Cucurbitaceae | C | P | R | Jun-Nov | S. 203 |
| 166 | <i>Lycopersicon esculentum</i> | Tometo | Solanaceae | H | P | VC | Mar-Dec | S. 112 |
| 167 | <i>Mangifera indica</i> | Aam | Anacardiaceae | T | P | VC | Jan-Jun | S. 6 |
| 168 | <i>Manikara achras</i> | Sofeda | Sapotaceae | T | P | CN | TY | S. 207 |
| 169 | <i>Mentha arvensis</i> | Pudina pata | Lamiaceae | H | P | R | July-Sep | S. 144 |
| 170 | <i>Mesua nagassarium</i> | Nageshawar | Clusiaceae | T | W | R | Feb-May | S. 220 |
| 171 | <i>Michelia champaca</i> | Champa | Magnoliaceae | T | P | CN | Mar-Jun | S. 231 |
| 172 | <i>Microcos paniculata</i> | Pisla | Tiliaceae | S | W | CN | Jan-Dec | S. 222 |
| 173 | <i>Mimosa pudica</i> | Lojjaboti | Mimosaceae | H | W | VC | Sep-Dec | S. 107 |
| 174 | <i>Mimusops elengi</i> | Bokul | Sapotaceae | T | P | CN | Mar-Jun | S. 24 |
| 175 | <i>Mirabilis jalapa</i> | Sondhamaloti | Nyctaginaceae | H | P | CN | Mar-Nov | S. 95 |
| 176 | <i>Momordica charantia</i> | Korolla | Cucurbitaceae | C | P | R | May-Oct | S. 70 |
| 177 | <i>Momordica cochinchinensis</i> | Kakrol | Cucurbitaceae | C | P | R | July-Nov | S. 141 |
| 178 | <i>Monochoria hastata</i> | Barunkha | Pontederiaceae | H | W | VC | TY | S. 82 |
| 179 | <i>Morinda citrifolia</i> | Bazrachand | Rubiaceae | S | W | R | May-Nov | S. 59 |
| 180 | <i>Moringa oleifera</i> | Sojna | Moringaceae | T | P | CN | Jan-Aug | S. 29 |
| 181 | <i>Morus indica</i> | Tut | Moraceae | T | P | R | May-Jul | S. 98 |
| 182 | <i>Mukia maderaspatana</i> | Makal | Cucurbitaceae | C | W | R | Jun-Nov | S. 190 |

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|-----|----------------------------------|------------------|-----------------|---|---|----|----------|--------|
| 183 | <i>Murraya paniculata</i> | Kamini | Rutaceae | S | P | R | Mar-Jan | S. 49 |
| 184 | <i>Musa sapientum</i> | Kola | Musaceae | S | P | VC | TY | S. 26 |
| 185 | <i>Nelumbo nucifera</i> | Padma | Nelumbonaceae | H | P | CN | Jul-Oct | S. 201 |
| 186 | <i>Nerium indicum</i> | Kobori | Apocynaceae | H | P | R | Jan-Jul | S. 178 |
| 187 | <i>Nicotiana plumbaginifolia</i> | Bontamak | Solanaceae | H | W | CN | Mar-Dec | S. 93 |
| 188 | <i>Nyctanthes arbor-tristis</i> | Shefali | Oleaceae | S | P | CN | Nov-Feb | S. 180 |
| 189 | <i>Nymphaea nouchali</i> | Shapla | Nymphaeaceae | H | P | CN | Jun-Oct | S. 150 |
| 190 | <i>Nymphoides indicum</i> | Panchuli | Menyanthaceae | H | W | CN | Apr-Oct | S. 226 |
| 191 | <i>Ocimum americanum</i> | Rama-tulsi | Lamiaceae | H | W | CN | Oct-Feb | S. 240 |
| 192 | <i>Ocimum sanctum</i> | Tulshi | Lamiaceae | H | P | R | Jun-Feb | S. 108 |
| 193 | <i>Oryza sativa</i> | Dhan gas | Poaceae | H | P | CN | Jul-Oct | S. 78 |
| 194 | <i>Oxalis corniculata</i> | Amrul | Oxalidaceae | H | W | CN | Sep-May | S. 115 |
| 195 | <i>Parthenium hysterophorus</i> | Parthenium | Asteraceae | H | W | VC | TY | S. 88 |
| 196 | <i>Passiflora edulis</i> | Nilmonilata | Passifloraceae | C | W | R | Mar-Jul | S. 197 |
| 197 | <i>Pepromia pellucida</i> | Pepromia | Piperaceae | H | W | VC | TY | S. 263 |
| 198 | <i>Phoenix sylvestris</i> | Khejur | Arecaceae | T | P | VC | Dec-July | S. 64 |
| 199 | <i>Phyllanthus reticulatus</i> | Chitki | Euphorbiaceae | S | W | VC | Mar-Oct | S. 224 |
| 200 | <i>Phyllanthus urinaria</i> | Hazar mani | Euphorbiaceae | H | W | CN | Feb-Mar | S. 55 |
| 201 | <i>Physalis minima</i> | Kopalfotka | Solanaceae | H | W | CN | WS | S. 132 |
| 202 | <i>Piper betel</i> | Paan | Piperaceae | C | P | R | Dec-May | S. 51 |
| 203 | <i>Pisonia aculeata</i> | Baghachra | Nyctaginaceae | C | W | R | TY | S. 49 |
| 204 | <i>Polyalthia longifolia</i> | Debdaru | Annonaceae | T | P | CN | Mar Oct | S. 164 |
| 205 | <i>Polycarpon prostratum</i> | Ghima | Caryophyllaceae | H | W | CN | Dec-Feb | S. 213 |
| 206 | <i>Persicaria barbatum</i> | Bekh-unjubaz | Polygonaceae | H | W | R | Jul-Nov | S. 215 |
| 207 | <i>Persicaria hydropiper</i> | Boro pani morich | Polygonaceae | H | W | VC | TY | S. 67 |
| 208 | <i>Persicaria orientale</i> | Panimorich | Polygonaceae | H | W | VC | TY | S. 89 |
| 209 | <i>Polygonum plebejum</i> | Raniphul | Polygonaceae | H | W | R | Mar-Apr | S. 216 |
| 210 | <i>Portulaca oleracea</i> | Nunia shak | Portulacaceae | H | W | CN | May-Aug | S. 153 |
| 211 | <i>Pouzolzia zeylanica</i> | Not known | Urticaceae | H | W | CN | May-Oct | S. 200 |
| 212 | <i>Psidium guajava</i> | Peyara | Myrtaceae | T | P | VC | SRS | S. 10 |
| 213 | <i>Punica granatum</i> | Dalim | Punicaceae | T | P | CN | Jan-Dec | S. 14 |
| 214 | <i>Pyrus communis</i> | Nashpati | Rosaceae | S | P | R | Jul-Sep | S. 77 |
| 215 | <i>Ranunculus</i> | Polic | Ranunculaceae | H | W | R | Jan-May | S. 197 |

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|-----|-----------------------------------|----------------|-----------------|---|---|----|----------|--------|
| | <i>scleratus</i> | | | | | | | |
| 216 | <i>Raphanus sativus</i> | Mulashak | Brassicaceae | H | P | CN | Jan-May | S. 195 |
| 217 | <i>Ricinus communis</i> | Bherenda | Euphorbiaceae | S | W | R | TY | S. 230 |
| 218 | <i>Rosa centifolia</i> | Golap | Rosaceae | S | P | VC | May-Jul | S. 127 |
| 219 | <i>Saccharum officinarum</i> | Aakh | Poaceae | S | P | CN | TY | S. 110 |
| 220 | <i>Saccharum spontaneum</i> | Kash | Poaceae | S | P | CN | Jun-Aug | S. 168 |
| 221 | <i>Scorparia dulcis</i> | Bondone | Plantaginaceae | H | W | VC | TY | S. 56 |
| 222 | <i>Senna sophera</i> | Kolkasunda | Fabaceae | H | W | CN | Apr-Aug | S. 184 |
| 223 | <i>Sesamum indicum</i> | Til | Pedaliaceae | H | P | CN | Feb-Oct | S. 158 |
| 224 | <i>Sesbania canabina</i> | Dhonche | Fabaceae | S | P | VC | Mar-Aug | S. 113 |
| 225 | <i>Sida cordifolia</i> | Berela | Malvaceae | H | W | CN | Sep-Dec | S. 183 |
| 226 | <i>Solanum ferox</i> | Ram begun | Solanaceae | S | W | CN | Dec-Feb | S. 218 |
| 227 | <i>Solanum melongena</i> | Begun | Solanaceae | S | P | CN | Oct-Mar | S. 76 |
| 228 | <i>Solanum nigrum</i> | Titbegun | Solanaceae | S | W | VC | Jan-Dec | S. 45 |
| 229 | <i>Solanum surattense</i> | Kantakari | Solanaceae | H | W | VC | Oct-Feb | S. 225 |
| 230 | <i>Solanum torvum</i> | Garakada | Solanaceae | S | W | VR | Jan-Dec | S. 62 |
| 231 | <i>Solanum tuberosum</i> | Gol alu | Solanaceae | H | P | CN | Oct-Feb | S. 103 |
| 232 | <i>Spathodea campanulata</i> | Krisno naoka | Bignoniaceae | T | W | R | Feb-Apr | S. 243 |
| 233 | <i>Spilanthes calva</i> | Unknown | Asteraceae | H | W | VC | TY | S. 54 |
| 234 | <i>Spondius pinnata</i> | Aamra | Anacardiaceae | T | P | CN | Feb-Aug | S. 15 |
| 235 | <i>Spondius purpurea</i> | Bilati aamra | Anacardiaceae | T | P | R | Mar-Oct | S. 131 |
| 236 | <i>Stephania japonica</i> | Akunondo | Menispermaceae | C | W | VC | Jan-Dec | S. 104 |
| 237 | <i>Streblus asper</i> | Shewra | Moraceae | T | W | R | Feb-Jun | S. 160 |
| 238 | <i>Swietenia mahagoni</i> | Mehogoni | Meliaceae | T | P | CN | Apr-Nov | S. 39 |
| 239 | <i>Syzygium cumini</i> | Jam | Myrtaceae | T | P | VC | Mar-Jun | S. 11 |
| 240 | <i>Syzygium jambos</i> | Golapjam | Myrtaceae | T | P | CN | Mar-Jun | S. 38 |
| 241 | <i>Syzygium samarangense</i> | Jamrul | Myrtaceae | T | P | CN | Feb-May | S. 35 |
| 242 | <i>Tabebuia aurea</i> | Not known | Bignoniaceae | T | W | R | Jun-Jul | S. 248 |
| 243 | <i>Tabernaemontana coronaria</i> | Togor varigate | Apocynaceae | S | P | R | Apr-Jan | S. 50 |
| 244 | <i>Tabernaemontana divaricate</i> | Togor | Apocynaceae | S | P | CN | May-Jan | S. 192 |
| 245 | <i>Tagetes erecta</i> | Poragada | Asteraceae | H | P | CN | WS | S. 252 |
| 246 | <i>Tagetes patula</i> | Gada | Asteraceae | H | P | CN | WS | S. 129 |
| 247 | <i>Tamarindus indica</i> | Tetul | Caesalpiniaceae | T | P | CN | Jun-Jul | S. 161 |
| 248 | <i>Tectona grandis</i> | Shegun | Verbenaceae | T | P | R | June-Sep | S. 41 |
| 249 | <i>Terminalia arjuna</i> | Arjun | Combretaceae | T | P | CN | Apr-Oct | S. 2 |
| 250 | <i>Terminalia catappa</i> | Kathbadam | Combretaceae | T | P | R | Mar-Dec | S. 91 |
| 251 | <i>Terminalia chebula</i> | Haritaki | Combretaceae | T | P | CN | Apr-Nov | S. 239 |

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|-----|------------------------------|-----------|------------------|---|---|----|---------|--------|
| 252 | <i>Trapa bispinosa</i> | Panifol | Trapaceae | H | W | VC | RS | S. 137 |
| 253 | <i>Trichosanthes arguina</i> | Dudhkushi | Cucurbitaceae | C | P | CN | Apr-Aug | S. 202 |
| 254 | <i>Trichosanthes dioica</i> | Potol | Cucurbitaceae | C | P | VR | Apr-Sep | S. 73 |
| 255 | <i>Typhonium trilobatum</i> | Ol kochu | Araceae | H | P | CN | May-Nov | S. 96 |
| 256 | <i>Vandelia multiflora</i> | Not known | Scrophulariaceae | H | W | CN | Mar-May | S. 238 |
| 257 | <i>Vigna mungo</i> | Mashkalai | Fabaceae | H | P | VR | Nov-Jan | S. 198 |
| 258 | <i>Vigna sinensis</i> | Borboti | Fabaceae | C | P | R | Apr-Jul | S. 75 |
| 259 | <i>Vitex negundo</i> | Nisinda | Verbenaceae | S | W | R | May-Sep | S. 100 |
| 260 | <i>Vitis trifolia</i> | Bon angur | Vitaceae | C | W | CN | May-Dec | S. 182 |
| 261 | <i>Vitis vinifera</i> | Aangur | Vitaceae | C | P | R | May-Dec | S. 173 |
| 262 | <i>Xanthium indicum</i> | Hagra | Asteraceae | H | W | VC | TY | S. 84 |
| 263 | <i>Zea mays</i> | Vutta | Poaceae | S | P | R | Mar-Jul | S. 80 |
| 264 | <i>Zingiber officinale</i> | Ada | Zingiberaceae | H | P | R | Mar-Feb | S. 120 |
| 265 | <i>Zizyphus mauritiana</i> | Boroi | Rhamnaceae | T | P | VC | Sep-Mar | S. 22 |

H=Herb, S=Shrub, T=Tree, C=Climber, P=Planted, W=Wild, VC=Very Common, CN=Common, R=Rare, VR=Very rare, Jan=January, Feb=February, Mar=March, Apr=April, Jun=June, Jul=July, Aug=August, Sep=September, Oct=October, Nov=November, Dec=December, NK=Not know, RS=Rainy Season, SRS=Summer & Rainy Season, SS=Summer Season, TY=Throughout the year, WS=Winter season.

Table 3. Analysis of data based on habit showed the Angiosperm Flora in the study area

| SL. No. | Habit | No. of Species | Percentage | Total no. of Species |
|---------|---------|----------------|------------|----------------------|
| 1 | Herb | 116 | 43.77% | 265 |
| 2 | Shrub | 48 | 18.11% | |
| 3 | Climber | 30 | 11.32% | |
| 4 | Tree | 71 | 26.79% | |

Table 4. Analysis of data based on plant population showed the Angiosperm Flora in the study area

| SL. No. | Plant Population | No. of Species | Percentage | Total no. of Species |
|---------|------------------|----------------|------------|----------------------|
| 1 | Very common | 61 | 23.01% | 265 |
| 2 | Common | 116 | 43.77% | |
| 3 | Rare | 77 | 29.05% | |
| 4 | Very rare | 11 | 4.15% | |

Table 5. Analysis of data based on Relative occurrence showed the Angiosperm flora in the study area

| SL. No. | Relative occurrence | No. of Species | Percentage | Total Species |
|---------|---------------------|----------------|------------|---------------|
| 1 | Planted | 185 | 69.81% | 265 |
| 2 | Willd | 80 | 30.19% | |

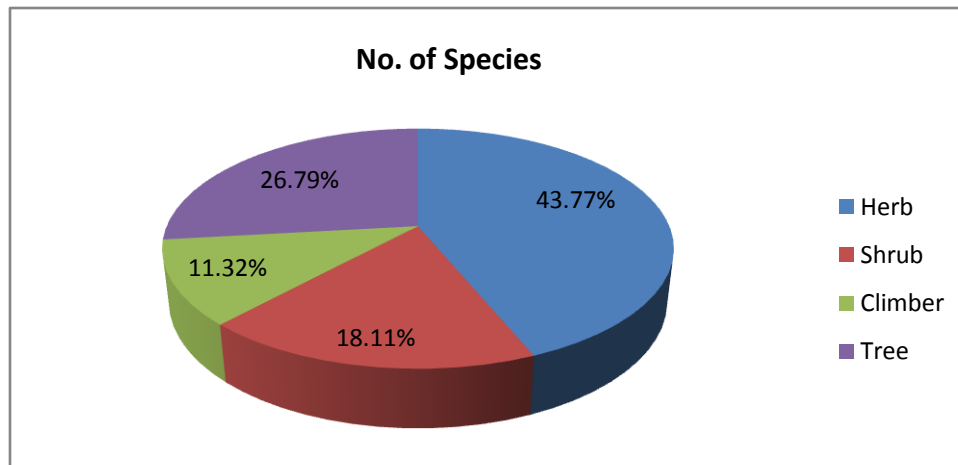


Figure 1: Habit diversity of the recorded species

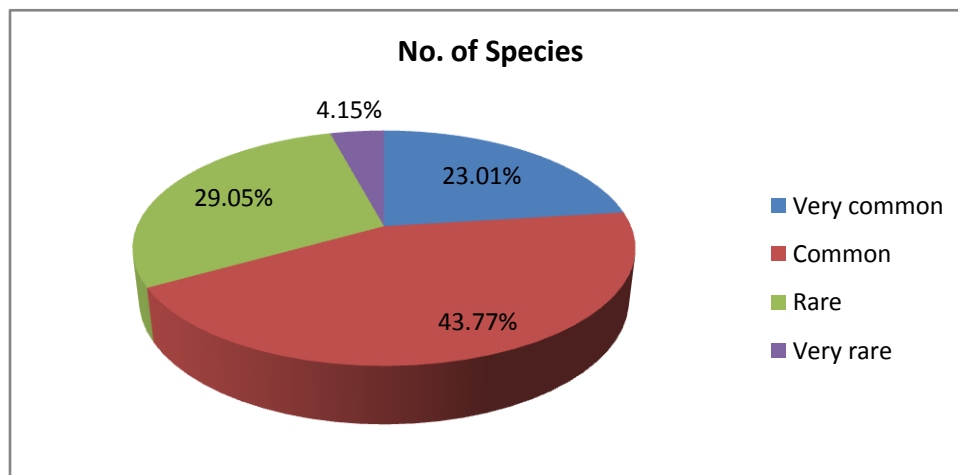


Figure 2: Percentage (%) of status of occurrence

Conclusion

Though the study area has a moderately rich resource of angiosperm flora, it witnesses some threats which might cause this resource to extinct. Observations and group discussion with local people during field works resulted in identifying some major threats which include urbanization, modern agriculture, and lack of awareness, exotic plantation and river erosion. Therefore, efforts should be undertaken to safeguard the plants through ex situ and in situ approaches, public awareness should be built up, and protection of habitats of should be ensured.

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