

Diversity of angiosperms in Nilachal Hills (Kamakhya Hills) in Kamrup district of Assam and their uses

A. Kar¹, N.K. Goswami and D. Saharia

The Energy and Resources Institute (TERI), North Eastern Regional Centre, Chachal, VIP Road, Hengrabari,
Guwahati-781 036, Assam, India

¹Corresponding author: E-mail: ashishvision10@rediffmail.com

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Abstract

The present investigation deals with the composition of angiospermic flora in the Nilachal hills, Assam. A total of 291 species under 243 genera and 89 families including trees (71), shrubs (30), herbs (122), climber (40), lianas (5), epiphytes (7), grasses (9), bamboo (3) and palms (4). Of these 228 species having miscellaneous uses and 63 species having medicinal uses were recognized.

Key words: Nilachal hills, Angiosperm diversity, Uses

INTRODUCTION

Assam has a geographical area of 78,433 sq km, lying between 24°44' N to 27°45' N latitude and 89°4' E and 96°02' E longitudes. The state is surrounded by hills and mountains on three sides, the north, the east and the south. To the west, it merges with the West Bengal and Bangladesh plains. The state has the Brahmaputra valley in the northern part bordering Arunachal Pradesh and the Barak valley in the southern part bordering Mizoram, Tripura and Meghalaya. A total of 4273 species comprising of 1448 genera, distributed in 272 families of vascular plants were recorded from Assam, which represents about 25.12 % of the total flora of India (17000 spp.) (Chowdhury 2005).

The noted Kamakhya temple is located on the top of Nilachal hill about five kms from Guwahati town on the bank of the river Brahmaputra (Anonymous 2009). The vegetation in the Nilachal hills is mainly deciduous type with occasional presence of evergreen trees. The forested vegetation is dominated by trees like *Lagerstroemia parviflora*, *Lannea coromandelica*, *Bombax ceiba*, *Terminalia bellerica*, *Cassia fistula* etc. In some pockets bamboo and *Schima wallichii* are also found. Among shrubs *Murraya koenigii*, *Murraya paniculata*, *Tabernaemontana divaricata* etc are common.

Several publications came out on plant diversity and medicinal plant of Kamrup district in last three decades, these include Barua (2001) on Orchid Flora of Kamrup District; Sharma & Sharma (2010) on ethnomedicines of Sonapur, Kamrup district; Das *et al* (2006) on medicinal plants of North-Kamrup district; Deka *et al* (1983) on some important Ayurvedic plants from Kamrup district; Kotoky & Das (2008) on medicinal plants used for liver diseases in some parts of Kamrup district; Kar & Borthakur (2007b) on Angiospermic flora of Gauhati University campus, and Kar *et al* (2008c) on Flora of Umananda Island of Brahmaputra River. Handique & Devi (2012) surveyed the family Commelinaceae in the Kamrup district. But, there is no report on plant diversity of Nilachal hills and so far no attempt has been made to explore the overall plant diversity of Nilachal hills (Kamakhya hills). Therefore, present study aims to find out the Angiospermic plant diversity of the Nilachal hills and their uses.

MATERIALS AND METHODS

The study area Nilachal hills are located in the Kamrup Metro district of Assam (Map 1) and the geographic area of the district is 127.84 sq km. The Nilachal hills lies between 26° 09' 55.32" N to 26° 09' 91.7" N latitude and 91° 41' 88.7" E and 91° 42' 94.7" E longitudes and the altitude ranging between 50.56 m and 387.18 m above mean sea level.

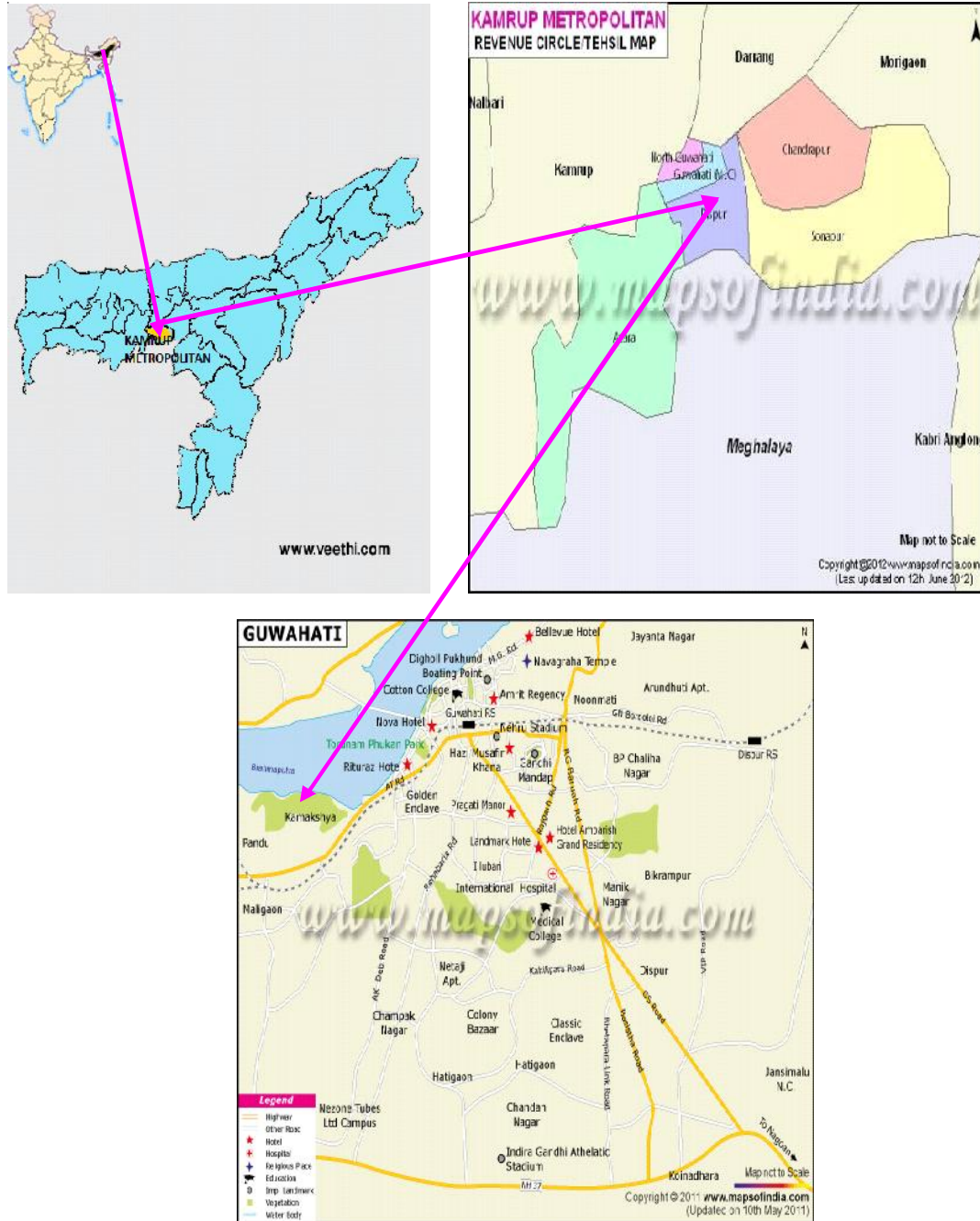
Detailed surveys for the angiospermic plants of Nilachal hills were conducted from February 2010 to July 2012 covering wild and planted species. The information regarding the usefulness of recorded plants were collected from different primary and secondary sources (Chowdhury 2005; Kar & Borthakur 2007a, 2007b, 2008a, 2008b; Kar *et al* 2007, 2008c, 2011a, 2011b, 2012; Bhutani 2009; Sarma & Bhattacharjee 2006). The collected specimens were processed into mounted herbarium specimen following standard herbarium techniques (Jain & Rao 1977). Author's full name of botanical names and identification of the specimens was made by comparing field descriptions and observations with the descriptions available in authentic literature (Kanjilal *et al* 1934 – 40; Bor 1940; Bennet 1986; Chowdhury 2005; Das 2012) confirmed by the standard. All the voucher specimens were deposited at the TERI for future reference.

RESULTS AND DISCUSSION

A total number of 291 species covering 243 genera and 89 families (APPENDIX I) were recorded from the study area during the investigation. Out of the total species, dicotyledons comprises of 73 families, 198 genera and 239 species and monocotyledons comprises of 16 families, 45 genera and 52 species. For habit groups, there are trees (71), shrubs (30), herbs (122), climbers (40), lianas (5), epiphytes (7), grasses (9), bamboos (3) and palms (4). Among dicots Asteraceae is the most dominant family in the study area with recorded of 16 species, followed by Fabaceae (14 species), Euphorbiaceae (13 species), Solanaceae (11 species), Cucurbitaceae (10 species), etc. In Monocot Poaceae is the most dominant family with 18 species, followed by Araceae (7 species), Orchidaceae (5 species), Arecaceae (4 species), Commelinaceae (3 species) etc. *Solanum* and *Ficus* are the dominant genera, each representing 6 species followed by *Clerodendrum*, *Jasminum*, and *Cassia* each with 4 species, *Amaranthus*, *Citrus* and *Terminalia* each with 3 species among dicots and *Alocasia*, *Bambusa*, *Commelina*, *Oplismenus*, *Smilax* and *Vanda* are the dominant genera among monocot each represent with 2 species. With regard to uses of plant parts for various pur-

Table 1. Numerical summary of the uses of plant parts for different purposes as per secondary sources

Plant parts	Number of species used	Plant parts	Number of species used
Leaves	65	Nut	3
Seed	6	Culm	3
Root	9	Prickle	1
Stem	36	Bract	1
Flower	37	Branches	4
Corm	2	Rhizome	2
Shoot	29	Tuber	3
Petiole	1	Calyx	1
Fruit	34	Latex	2
Stem bark	9	Inflorescence	4
Whole plant	35	Karnel	1
Fruit & leaf	1	Panicle	1
		Stem & leaf	1



Map 1: Location map of study area

poses, leaf parts of 65 species are used followed by flower parts (37 species), stem part (36 species), whole plant (35 species) and fruits (34 species) (Table 1). As much as 228 species are recorded as useful for miscellaneous purposes under 31 categories and 63 species are used for medicinal purposes against 32 different ailments (Table 2).

Table 2. Uses of Angiosperm plants available in Nilachal hills

Scientific name [Family]; Exsiccate	Habit	Plant parts used	Use
<i>Abrus precatorius</i> Linnaeus [Fabaceae]; Kar-008	Climber	Seed	Beads
<i>Acacia auriculaeformis</i> A. Cunningham ex Bentham [Mimosaceae]; Kar-001	Tree	Leaf	Ornamental
<i>Acacia pennata</i> (Linnaeus) Willdenow [Mimosaceae]; Kar-019	Climber	Leaf	Vegetable [Kar 2009]
<i>Acalypha indica</i> Linnaeus [Euphorbiaceae]; Kar-012	Herb	Leaf	Ornamental
<i>Achyranthes aspera</i> Linnaeus [Amaranthaceae]; Kar-029	Herb	Root	Against poisonous insect bite [Bhutani 2008]
<i>Aegle marmelos</i> (Linnaeus) Correa [Rutaceae]; Kar-006	Tree	Fruit, leaf	Ritual
<i>Agave cantula</i> Roxburgh [Agavaceae]; Kar-025	Herb	Leaf	Ornamental
<i>Ageratum conyzoides</i> Linnaeus [Asteraceae]; Kar-075	Herb	Leaf	Fodder [Sarma & Bhattacharjya 2006]
<i>Albizia lebeck</i> (Linnaeus) Bentham [Mimosaceae]; Kar-246	Tree	Stem	Timber for furniture
<i>Albizia lucidor</i> (Steudel) I. Nielson ex H. Hara [Mimosaceae]; Kar-011	Tree	Stem	Timber for furniture
<i>Allamanda cathartica</i> Linnaeus [Apocynaceae]; Kar-229	Climber	Flower	Ornamental
<i>Alocasia macrorhiza</i> (Linnaeus) G. Don [Araceae]; Kar-017	Herb	Corm	Vegetable [Kar 2009]
<i>Alocasia odora</i> (Roxburgh) K. Koch [Araceae]; Kar-180	Herb	Petiole	Vegetable [Kar 2009]
<i>Aloe barbadensis</i> R.R. Mill [Liliaceae]; Kar-010	Herb	Leaf	Promote flow of urine [Bhutani 2008]
<i>Alstonia scholaris</i> (Linnaeus) R. Brown [Apocynaceae]; Kar-026	Tree	Stem bark	Malarial fever [Bhutani 2008]
<i>Alternanthera sessilis</i> R. Brown [Amaranthaceae]; Kar-028	Herb	Shoot	Vegetable [Kar 2009]
<i>Amaranthus gangeticus</i> Linnaeus [Amaranthaceae]; Kar-260	Herb	Stem	Vegetable [Kar 2009]
<i>Amaranthus spinosus</i> Linnaeus [Amaranthaceae]; Kar-055	Herb	Shoot	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Amaranthus viridis</i> Linnaeus [Amaranthaceae]; Kar-018	Herb	Shoot	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Ammannia multiflora</i> Roxburgh [Lythraceae]; Kar-002	Herb	Whole plant	Fodder [Sarma & Bhattacharjya 2006]
<i>Amorphophallus bulbifer</i> (Schott) Blume [Araceae]; Kar-287	Herb	Corm	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Ananas comosua</i> (Linnaeus) Merrill [Bromeliaceae]; Kar-232	Herb	Fruit	Edible
<i>Andrographis paniculata</i> (N.L. Burman) Wallich ex Nees [Acanthaceae]; Kar-004	Herb	Stem	Intestinal worm
<i>Anona reticulata</i> Linnaeus [Annonaceae]; Kar-039	Tree	Fruit	Edible
<i>Neolarkia chinensis</i> (Loureiro) Rehder [Rubiaceae]; Kar-057	Tree	Stem	Timber
<i>Areca catechu</i> Linnaeus [Arecaceae]; Kar-014	Palm	Nut	Nut as masticator
<i>Argyrea nervosa</i> (N.L. Burman) W. Bojer [Convolvulaceae]; Kar-015	Climber	Leaf	Vegetable [Kar 2009]
<i>Artocarpus lacucha</i> Buchanon.-Hamilton [Moraceae]; Kar-003	Tree	Stem bark	Masticator
<i>Artocarpus heterophylla</i>	Tree	Fruit	Edible

*Data recorded from primary sources

It is interesting to note that *Vitex peduncularis*, *Lagerstroemia parviflora* (wild population) and *Cestrum nocturnum* (garden plant) each with only single plant recorded from the whole study area. *Cassia siamea*, *Tectona grandis* among trees, *Holmskioldia sanguinea* among shrubs, *Cayratia trifolia* among lianas and *Chrysopogon aciculatus*, *Wedelia chinensis* among herbs those are very common in the study area. In the homestead area cucurbits were observed in isolated pockets. Earlier, different types of vegeta-

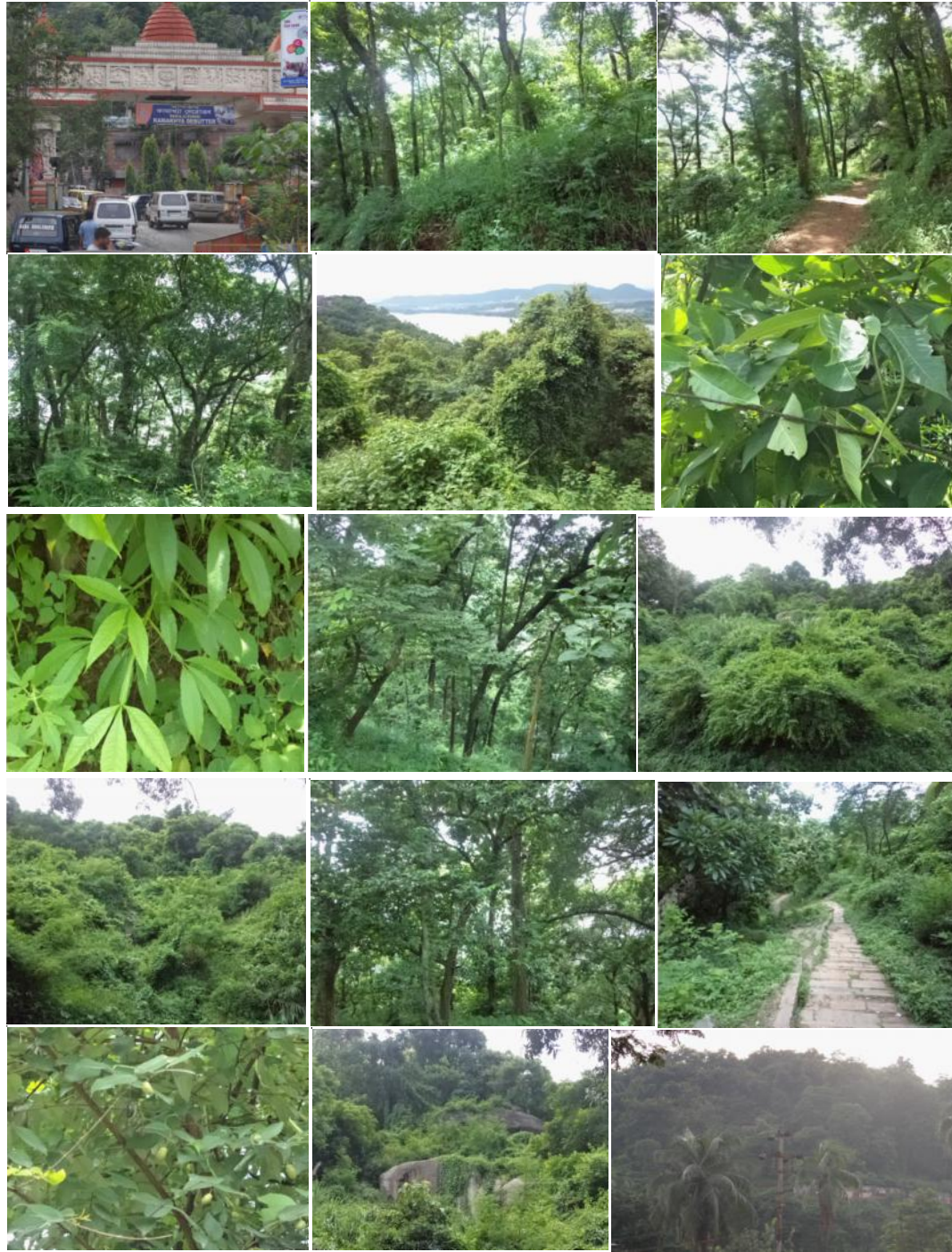


PLATE I. 1. Entrance gate to Nilachal hills; 2. Herbaceous plants in forest floor; 3. Forest road in Nilachal hills; 4. Mixed tree vegetation; 5. Lush green vegetation near bank of Brahmaputra; 6. *Holarrhena pubescens* with fruits; 7. *Vitex peduncularis* a rare medicinal plant; 8. *Cassia siamaea* forest; 9. *Holmskioldia sanguinea* forming mat; 10. Scrub vegetation; 11. *Tectona grandis* forest; 12. Historical road made by Narakasur in the Nilachal hills; 13. *Lagerostromia parviflora* a timber plant; 14. Big stone surfaces covered by climbers and grasses; 15. Encroachment area of the Nilachal hills

ble were cultivated by the inhabitants of the Nilachal hills but now-a-days, they are not doing it due to too much of monkey menace. *Tabernaemontana divaricata*, *Hibiscus rosasinensis* and *Jasminum spp.* are planted in some pockets as these flowers have a demand in Kamakhya temple and it is a source of livelihood for a section of people. The centre of Shakti culture is in danger due to illegal encroachments for settlements. Encroachment is a major problem in the area and almost from three directions the land area is being encroached leaving only the bank of Brahmaputra where vegetation is still intact. It may be stated that Nilachal hills harbour rich species diversity with various ritual, economical, and medicinal importance (Plate I; Figs. 1-15). As depletion of forest in other hills of Guwahati city is going on due to the extension of human settlement and, in that case, Nilachal hills can be a rich source of plant diversity for conservation from the scientific points of view. Therefore, the biodiversity of the important pilgrimage site in the World needs to be protected and a concerted effort from administration, scientist, local inhabitant, tourist and civil society is to be formulated.

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APPENDIX I

Angiosperm plant species of Nilachal hills along with their uses and useful parts

Scientific name [Family]; Exsiccate	Habit	Plant parts used	Use
<i>Abrus precatorius</i> Linnaeus [Fabaceae]; <i>Kar-008</i>	Climber	Seed	Beads
<i>Acacia auriculaeformis</i> A. Cunningham <i>ex</i> Bentham [Mimosaceae]; <i>Kar-001</i>	Tree	Leaf	Ornamental
<i>Acacia pennata</i> (Linnaeus) Willdenow [Mimosaceae]; <i>Kar-019</i>	Climber	Leaf	Vegetable [Kar 2009]
<i>Acalypha indica</i> Linnaeus [Euphorbiaceae]; <i>Kar-012</i>	Herb	Leaf	Ornamental

Scientific name [Family]; Exsiccate	Habit	Plant parts used	Use
<i>Achyranthes aspera</i> Linnaeus [Amaranthaceae]; Kar-029	Herb	Root	Against poisonous insect bite [Bhutani 2008]
<i>Aegle marmelos</i> (Linnaeus) Correa [Rutaceae]; Kar-006	Tree	Fruit, leaf	Ritual
<i>Agave cantula</i> Roxburgh [Agavaceae]; Kar-025	Herb	Leaf	Ornamental
<i>Ageratum conyzoides</i> Linnaeus [Asteraceae]; Kar-075	Herb	Leaf	Fodder [Sarma & Bhattacharjya 2006]
<i>Albizia lebbeck</i> (Linnaeus) Bentham [Mimosaceae]; Kar-246	Tree	Stem	Timber for furniture
<i>Albizia lucidor</i> (Steudel) I. Nielson ex H. Hara [Mimosaceae]; Kar-011	Tree	Stem	Timber for furniture
<i>Allamanda cathartica</i> Linnaeus [Apocynaceae]; Kar-229	Climber	Flower	Ornamental
<i>Alocasia macrorrhiza</i> (Linnaeus) G. Don [Araceae]; Kar-017	Herb	Corm	Vegetable [Kar 2009]
<i>Alocasia odora</i> (Roxburgh) K. Koch [Araceae]; Kar-180	Herb	Petiole	Vegetable [Kar 2009]
<i>Aloe barbadensis</i> R.R. Mill [Liliaceae]; Kar-010	Herb	Leaf	Promote flow of urine [Bhutani 2008]
<i>Alstonia scholaris</i> (Linnaeus) R. Brown [Apocynaceae]; Kar-026	Tree	Stem bark	Malarial fever [Bhutani 2008]
<i>Alternanthera sessilis</i> R. Brown [Amaranthaceae]; Kar-028	Herb	Shoot	Vegetable [Kar 2009]
<i>Amaranthus gangeticus</i> Linnaeus [Amaranthaceae]; Kar-260	Herb	Stem	Vegetable [Kar 2009]
<i>Amaranthus spinosus</i> Linnaeus [Amaranthaceae]; Kar-055	Herb	Shoot	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Amaranthus viridis</i> Linnaeus [Amaranthaceae]; Kar-018	Herb	Shoot	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Ammannia multiflora</i> Roxburgh [Lythraceae]; Kar-002	Herb	Whole plant	Fodder [Sarma & Bhattacharjya 2006]
<i>Amorphophallus bulbifer</i> (Schott) Blume [Araceae]; Kar-287	Herb	Corm	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Ananas comosua</i> (Linnaeus) Merrill [Bromeliaceae]; Kar-232	Herb	Fruit	Edible
<i>Andrographis paniculata</i> (N.L. Burman) Wallich ex Nees [Acanthaceae]; Kar-004	Herb	Stem	Intestinal worm
<i>Anona reticulata</i> Linnaeus [Annonaceae]; Kar-039	Tree	Fruit	Edible
<i>Neolarckia chinensis</i> (Loureiro) Rehder [Rubiaceae]; Kar-057	Tree	Stem	Timber
<i>Areca catechu</i> Linnaeus [Arecaceae]; Kar-014	Palm	Nut	Nut as masticator
<i>Argyrea nervosa</i> (N.L. Burman) W. Bojer [Convolvulaceae]; Kar-015	Climber	Leaf	Vegetable [Kar 2009]
<i>Artocarpus lacucha</i> Buchanon.-Hamilton [Moraceae]; Kar-003	Tree	Stem bark	Masticator
<i>Artocarpus heterophylla</i> Lamarck [Moraceae]; Kar-072	Tree	Fruit	Edible
<i>Arundo donax</i> Linnaeus var. <i>donax</i> [Poaceae]; Kar-038	Grass	Stem	Fencing [Chowdhury 2005]
<i>Averrhoa carambola</i> Linnaeus [Averrhoaceae]; Kar-48	Tree	Fruit	Edible
<i>Axonopus compressus</i> (Swingle) Beauverd [Poaceae]; Kar-121	Grass	Whole plant	Fodder [Sarma & Bhattacharjya 2006]

Scientific name [Family]; Exsiccate	Habit	Plant parts used	Use
<i>Azadirachta indica</i> A. Jussieu [Meliaceae]; <i>Kar-103</i>	Tree	Leaf	Skin diseases
<i>Bambusa bambos</i> (Linnaeus) Voss [Poaceae]; <i>Kar-052</i>	Bamboo	Culm	Construction purposes [Chowdhury 2005]
<i>Bambusa vulgaris</i> Schrader [Poaceae]; <i>Kar-050</i>	Bamboo	Culm	Construction purposes [Chowdhury 2005]
<i>Barleria cristata</i> Linnaeus [Acanthaceae]; <i>Kar-024</i>	Herb	Flower	Ornamental
<i>Basella alba</i> Linnaeus var. <i>rubra</i> (Linnaeus) Stewart [Basellaceae]; <i>Kar-63</i>	Climber	Stem & leaf	Vegetable [Kar 2009]
<i>Bauhinia acuminata</i> Linnaeus [Caesalpiniaceae]; <i>Kar-284</i>	Small tree	Flower	Ornamental
<i>Benincasa hispida</i> (C.P. Thunberg) C.A. Cogniaux [Cucurbitaceae]; <i>Kar-043</i>	Climber	Fruit	Vegetable [Kar 2009]
<i>Beta vulgaris</i> Linnaeus var. <i>orientalis</i> (Roth) Moquin [Chenopodiaceae]; <i>Kar-275</i>	Herb	Shoot	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Bidens biternata</i> (Loureiro) Merrill. & Sheriff [Asteraceae]; <i>Kar-214</i>	Herb	Shoot	Vegetable [Kar 2009]
<i>Biophytum sensitivum</i> (Linnaeus) var. <i>sensitivum</i> [Geraniaceae]; <i>Kar-215</i>	Herb	Leaf	Ornamental
<i>Blumea lacera</i> (N.L. Burman) DC. var. <i>lacera</i> [Asteraceae]; <i>Kar-47</i>	Herb	Leaf	Vegetable [Kar 2009]
<i>Boehmeria hamiltoniana</i> Weddell [Urticaceae]; <i>Kar-244</i>	Shrub	Leaf	Fodder [Sarma & Bhattacharjya 2006]
<i>Boerhavia diffusa</i> Linnaeus [Nyctaginaceae]; <i>Kar-288</i>	Herb	Shoot	Promote flow of urine [Bhutani 2008]
<i>Bombax ceiba</i> Linnaeus [Bombacaceae]; <i>Kar-042</i>	Tree	Prickle	Against pimples [Kar <i>et al</i> 2007]
<i>Borassus flabellifer</i> Linnaeus [Arecaceae]; <i>Kar-76</i>	Palm	Fruit	Edible
<i>Borreria articularis</i> F.N. Williams [Rubiaceae]; <i>Kar-046</i>	Herb	Shoot	Fodder [Sarma & Bhattacharjya 2006]
<i>Bougainvillea glabra</i> J.D. Choisy [Nyctaginaceae]; <i>Kar-054</i>	Linaes	Bract	Ornamental
<i>Brassica juncea</i> (Linnaeus) Czernjaev <i>ex</i> Palibin [Brassicaceae]; <i>Kar-204</i>	Herb	Leaf	Vegetable [Kar 2009]
<i>Butea monosperma</i> (Lamarck) P. Taubert [Fabaceae]; <i>Kar-051</i>	Tree	Flower	Ritual
<i>Butea superba</i> Roxburgh [Fabaceae]; <i>Kar-091</i>	Climber	Flower	Ornamental
<i>Caesalpinia bonduc</i> (Linnaeus) Roxburgh [Caesalpiniaceae]; <i>Kar-079</i>	Climber	Seed	Malarial fever [Kar & Borthakur 2008a]
<i>Caladium bicolor</i> (W. Aiton) Ventenat [Araceae]; <i>Kar-220</i>	Herb	Leaf	Ornamental
<i>Callicarpa arborea</i> Roxburgh [Verbenaceae]; <i>Kar-175</i>	Tree	Leaf	Wrapper for food fermentation [Chowdhury 2005]
<i>Calotropis gigantea</i> R. Brown [Asclepiadaceae]; <i>Kar-41</i>	Shrub	Leaf	Muscles pain [Kar <i>et al</i> 2007; Kar & Borthakur 2008a]
<i>Cannabis sativa</i> Linnaeus [Cannabaceae]; <i>Kar-73</i>	Shrub	Leaf	Ritual
<i>Capsicum frutescense</i> Linnaeus [Solanaceae]; <i>Kar-129</i>	Herb	Fruit	Spice
<i>Cardamine hirsuta</i> Linnaeus [Brassicaceae]; <i>Kar-174</i>	Herb	Shoot	Fodder [Sarma & Bhattacharjya 2006]

Scientific name [Family]; Exsiccate	Habit	Plant parts used	Use
<i>Cardiospermum halicacabum</i> Linnaeus [Sapindaceae]; Kar-35	Climber	Leaf	Earache [Bhutani 2008]
<i>Carica papaya</i> Linnaeus [Caricaceae]; Kar-290	Shrub	Seed	Against pinworm
<i>Caryota urens</i> Linnaeus [Arecaceae]; Kar-049	Palm	Nut	Masticator
<i>Cassia fistula</i> Linnaeus [Caesalpiniaceae]; Kar-230	Tree	Stem	Timber
<i>Cassia siamea</i> Lamarck [Caesalpiniaceae]; Kar-202	Tree	Branches	Shade tree [Chowdhury 2005]
<i>Cassia sophora</i> Linnaeus [Caesalpiniaceae]; Kar-027	Herb	Leaf	Fodder [Sarma & Bhattacharjya 2006]
<i>Cassia tora</i> Linnaeus [Caesalpiniaceae]; Kar-289	Herb	Leaf	Fever [Bhutani 2008]
<i>Catharanthus roseus</i> (Linnaeus) G. Don [Apocynaceae]; Kar-040	Herb	Leaf	Diabetes
<i>Cayratia trifolia</i> (Linnaeus) Domin var. <i>trifolia</i> [Vitaceae]; Kar-259	Lianes	Branches	Fodder [Sarma & Bhattacharjya 2006]
<i>Centella asiatica</i> (Linnaeus) Urban [Apiaceae]; Kar-231	Herb	Whole plant	Dysentery [Bhutani 2008; Kar & Borthakur 2008a]
<i>Cereus peruvians</i> P. Miller [Cactaceae]; Kar-162	Shrub	Stem	Ornamental
<i>Cestrum nocturnum</i> Linnaeus [Solanaceae]; Kar-060	Shrub	Flower	Ornamental
<i>Cinnamomum tamala</i> (Buchanan-Hamilton) Nees & Ebermaier [Lauraceae]; Kar-067	Tree	Leaf	Condiment
<i>Citrus aurantifolia</i> (C. Chirstensen) Swingle [Rutaceae]; Kar-022	Shrub	Fruit	Edible
<i>Citrus jambhiri</i> Lushington [Rutaceae]; Kar-069	Shrub	Fruit	Pickle [Kar et al 2011b]
<i>Citrus grandis</i> (Linnaeus) Osbeck [Rutaceae]; Kar-150	Tree	Fruit	Edible
<i>Chenopodium album</i> Linnaeus [Chenopodiaceae]; Kar-059	Herb	Shoot	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Chromolaena odorata</i> (Linnaeus) R. King & H. Robins [Asteraceae]; Kar-031	Herb	Leaf	Fodder [Sarma & Bhattacharjya 2006]
<i>Chrysopogon aciculatus</i> (Retzius) Trinius [Poaceae]; Kar-045	Grass	Leaf	Fodder [Sarma & Bhattacharjya 2006]
<i>Cleome gynandra</i> Linnaeus [Cleomaceae]; Kar-077	Herb	Leaf	Vegetable [Kar 2009]
<i>Cleome viscosa</i> Linnaeus [Cleomaceae]; Kar-270	Herb	Shoot	Fodder [Sarma & Bhattacharjya 2006]
<i>Clerodendrum colebrookianum</i> Walpers [Verbenaceae]; Kar-082	Shrub	Shoot	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Clerodendrum inerme</i> (Linnaeus) Gaertner [Verbenaceae]; Kar-274	Shrub	Whole plant	Hedge [Chowdhury 2005; Kar et al 2012]
<i>Clerodendrum serratum</i> (Linnaeus) Sprengel [Verbenaceae]; Kar – 217	Shrub	Flower	Vegetable [Kar 2009]
<i>Clerodendrum viscosum</i> Ventenat [Verbenaceae]; Kar-071	Herb	Leaf	Against stomach pain [Kar et al 2012]
<i>Clitoria ternatea</i> Linnaeus [Fabaceae]; Kar-096	Climber	Stem	Ritual
<i>Coccinia grandis</i> (Linnaeus) J. Voigt [Cucurbitaceae]; Kar-068	Climber	Fruit	Vegetable [Kar 2009]
<i>Cocos nucifera</i> Linnaeus [Arecaceae]; Kar-061	Palm	Nut	Edible

Scientific name [Family]; Exsiccate	Habit	Plant parts used	Use
<i>Codiaeum variegatum</i> (Linnaeus) Blume [Euphorbiaceae]; <i>Kar-110</i>	Shrub	Leaf	Ornamental
<i>Coix lacryma-jobi</i> Linnaeus [Poaceae]; <i>Kar-086</i>	Grass	Fruits	Making beads
<i>Colocasia esculenta</i> (Linnaeus) Schott [Araceae]; <i>Kar-278</i>	Herb	Leaf	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Commelina benghalensis</i> Linnaeus [Commelinaceae]; <i>Kar-145</i>	Herb	Stem	Contraceptive
<i>Commelina diffusa</i> N.L. Burman [Commelinaceae]; <i>Kar-70</i>	Herb	Shoot	Fodder [Sarma & Bhattacharjya 2006]
<i>Coriandrum sativum</i> Linnaeus [Apiaceae]; <i>Kar-65</i>	Herb	Leaf	Condiment
<i>Costus speciosus</i> (Koenig) Smith [Costaceae]; <i>Kar-093</i>	Herb	Rhizome	Jaundice
<i>Crinum asiaticum</i> Linnaeus [Amaryllidaceae]; <i>Kar-095</i>	Herb	Tuber	Muscles pain [Kar & Borthakur 2008a]
<i>Croton caudatus</i> Geiseler var. <i>caudatus</i> [Euphorbiaceae]; <i>Kar-100</i>	Shrub	Branches	Pesticides
<i>Croton jofra</i> Roxburgh [Euphorbiaceae]; <i>Kar-87</i>	Tree	Stem bark	Stomach pain [Bhutani 2008]
<i>Cucurbita maxima</i> Duchartre [Cucurbitaceae]; <i>Kar-206</i>	Climber	Fruit	Vegetable [Kar 2009]
<i>Curcuma angustifolia</i> Roxburgh [Zingiberaceae]; <i>Kar-036</i>	Herb	Rhizome	Bronchitis [Kar & Borthakur 2008a; Bhutani 2008]
<i>Cuscuta reflexa</i> Roxburgh [Convolvulaceae]; <i>Kar-104</i>	Climber	Stem	Jaundice
<i>Cymbidium aloifolium</i> (Linnaeus) Swingle [Orchidaceae]; <i>Kar-225</i>	Epiphytic	Flower	Ornamental
<i>Cynodon dactylon</i> (Linnaeus) Persoon [Poaceae]; <i>Kar-058</i>	Herb	Whole plant	Ritual
<i>Cynoglossum lanceolatum</i> Forsskal [Boraginaceae]; <i>Kar-279</i>	Herb	Whole plant	Fodder [Sarma & Bhattacharjya 2006]
<i>Cyperus rotundus</i> Linnaeus [Cyperaceae]; <i>Kar-108</i>	Herb	Root	Cough [Bhutani 2008]
<i>Dactyloctenium aegyptium</i> (Linnaeus) Willdenow [Poaceae]; <i>Kar-111</i>	Grass	Whole plant	Fodder [Sarma & Bhattacharjya 2006]
<i>Dalbergia sisso</i> Roxburgh ex de Candolle [Fabaceae]; <i>Kar-92</i>	Tree	Stem	Timber
<i>Dalhousiea bracteata</i> Graham ex Roxburgh [Fabaceae]; <i>Kar-123</i>	Climber	Leaf	Plate
<i>Datura metel</i> Linnaeus [Solanaceae]; <i>Kar-120</i>	Herb	Flower	Ritual
<i>Delonix regia</i> (Bojer) Rafinesque [Caesalpinaceae]; <i>Kar-137</i>	Tree	Flower	Ornamental
<i>Dendrobium aphyllum</i> (Roxburgh) Fischer [Orchidaceae]; <i>Kar-112</i>	Epiphytic	Flower	Ornamental
<i>Derris indica</i> (Lamarck) S.S.R. Benntet [Fabaceae]; <i>Kar-128</i>	Tree	Seed	Biofuels
<i>Desmodium caudatum</i> (C.P. Thunberg) DC. [Fabaceae]; <i>Kar-090</i>	Herb	Root	Piles [Bhutani, 2008]
<i>Dillenia indica</i> Linnaeus [Dilleniaceae]; <i>Kar-084</i>	Tree	Calyx	Edible
<i>Dioscorea esculenta</i> I.H. Burkill [Dioscoreaceae]; <i>Kar-283</i>	Climber	Tuber	Tuber as vegetable [Kar 2009]

Scientific name [Family]; Exsiccate	Habit	Plant parts used	Use
<i>Diospyros variegata</i> W.S. Kurz [Ebenaceae]; Kar-138	Tree	Leaf	Ornamental
<i>Dischidia benghalensis</i> Colebrook [Asclepiadaceae]; Kar-268	Climber	Stem	Ornamental
<i>Drymaria diandra</i> Blume [Caryophyllaceae]; Kar-114	Herb	Whole plant	Vegetable [Kar 2009]
<i>Duabanga grandiflora</i> (Roxburgh ex A.P.de Candolle) Walpers [Sonneratiaceae]; Kar-106	Tree	Stem	Timber
<i>Duranta repens</i> Linnaeus [Verbenaceae]; Kar-127	Herb	Leaf	Ornamental
<i>Echinochloa colonum</i> (Linnaeus) Link [Poaceae]; Kar-099	Grass	Leaf	Fodder [Sarma & Bhattacharjya 2006]
<i>Eclipta prostrata</i> (Linnaeus) Linnaeus [Asteraceae]; Kar-131	Herb	Leaf	Black dye [Kar & Borthakur 2008b]
<i>Ecobolium viride</i> (Forsk.) Alston [Acanthaceae]; Kar-107	Herb	Flower	Ornamental
<i>Phyllanthus emblica</i> Linnaeus [Phyllanthaceae]; Kar-261	Tree	Fruit	Gastritis
<i>Epemeridi indicus</i> (Linnaeus) Rothm [Lamiaceae]; Kar-122	Herb	Shoot	Fodder [Sarma & Bhattacharjya 2006]
<i>Eryngium foetidum</i> Linnaeus [Apiaceae]; Kar-116	Herb	Leaf	Condiment
<i>Erythrina stricta</i> Roxburgh [Fabaceae]; Kar-118	Tree	Stem	Biofencing [Chowdhury 2005]
<i>Eucalyptus maculata</i> Hooker [Myrtaceae]; Kar-105	Tree	Whole plant	Ornamental
<i>Euphorbia hirta</i> Linnaeus [Euphorbiaceae]; Kar-33	Herb	Latex	Eczema
<i>Evolvulus nummularis</i> (L.) Linnaeus [Convolvulaceae]; Kar-177	Herb	Whole plant	Vegetable [Kar 2009]
<i>Ficus benghalensis</i> Linnaeus [Moraceae]; Kar-148	Tree	Whole plant	Ritual
<i>Ficus benjamina</i> Linnaeus [Moraceae]; Kar-94	Tree	Whole plant	Ornamental
<i>Ficus elastica</i> Roxburgh [Moraceae]; Kar-193	Tree	Leaf	Ritual
<i>Ficus hispida</i> M.Vahl [Moraceae] ; Kar154	Tree	Leaf	Vegetable [Kar 2009]
<i>Ficus pumila</i> Linnaeus [Moraceae]; Kar-158	Climber	Whole plant	Ornamental
<i>Ficus religiosa</i> Linnaeus. [Moraceae]; Kar-152	Tree	Leaf	Ritual
<i>Flemingia macrophylla</i> (Willdenow) D. Prain ex Merrill [Fabaceae]; Kar-266	Herb	Leaf	Fodder [Sarma & Bhattacharjya 2006]
<i>Gardenia angusta</i> (Linnaeus) Merrill [Rubiaceae]; Kar-125	Herb	Flower	Ornamental
<i>Garuga pinnata</i> Roxburgh [Bursereaceae]; Kar-23	Tree	Stem	Timber
<i>Globba racemosa</i> J.E. Smith [Zingiberaceae]; Kar-181	Herb	Flower	Ornamental
<i>Gloriosa superba</i> Linnaeus [Liliaceae]; Kar-81	Shrub	Flower	Ornamental
<i>Glycosmis arborea</i> (Roxburgh) Correa [Rutaceae]; Kar-115	Herb	Stem	Gum infection [Chowdhury 2005]

Scientific name [Family]; Exsiccate	Habit	Plant parts used	Use
<i>Gmelina arborea</i> Roxburgh [Verbenaceae]; <i>Kar-133</i>	Tree	Stem	Timber
<i>Gravelia robusta</i> A. Cunningham ex R. Brown [Proteaceae]; <i>Kar-132</i>	Tree	Whole plant	Ornamental
<i>Gymnopetalum cochinchinensis</i> (Loureiro) W.S.Kurz [Cucurbitaceae]; <i>Kar-66</i>	Herb	Fruit	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Gynura bicolor</i> (Roxburgh ex Willdenow) de Candolle [Asteraceae]; <i>Kar-147</i>	Herb	Leaf	Fodder [Sarma & Bhattacharjya 2006]
<i>Hedyotis corymbosa</i> (Linnaeus) Lamarck [Rubiaceae]; <i>Kar-139</i>	Herb	Whole plant	Intestinal worm
<i>Hedyotis scandens</i> Roxburgh ex D. Don [Rubiaceae]; <i>Kar-37</i>	Herb	Whole plant	Intestinal worm
<i>Heliconia caribaea</i> Lamarck [Heliconiaceae]; <i>Kar-113</i>	Shrub	Flower	Ornamental
<i>Heliotropium indicum</i> Linnaeus [Boraginaceae]; <i>Kar-124</i>	Herb	Root	Fever [Chowdhury 2005]
<i>Hibiscus mutabilis</i> Linnaeus [Malvaceae]; <i>Kar-184</i>	Shrub	Flower	Ritual
<i>Hibiscus rosa-sinensis</i> Linnaeus [Malvaceae]; <i>Kar-277</i>	Shrub	Flower	Ritual
<i>Hollarrhena pubescens</i> (Buchanon-Hamilton) Wallich [Apocynaceae]; <i>Kar-163</i>	Tree	Stem bark	Dysentery [Bhutani 2008]
<i>Holmoskioldia sanguinea</i> Retzius [Verbenaceae]; <i>Kar-140</i>	Lianes	Flower	Ornamental
<i>Hoya parasitica</i> Wallich ex Traill [Asclepiadaceae]; <i>Kar-102</i>	Epiphytic	Leaf	Ornamental
<i>Hydrocotyle sibthorpioides</i> Lamarck [Apiaceae]; <i>Kar-188</i>	Herb	Whole plant	Dysentery [Bhutani 2008]
<i>Imperata cylindrica</i> (Linnaeus) Beauverd [Poaceae]; <i>Kar-173</i>	Grass	Stem	Thatch [Sarma & Bhattacharjya 2006]
<i>Impatiens balsamina</i> Linnaeus [Balsaminaceae]; <i>Kar-166</i>	Herb	Flower	Ornamental
<i>Impatiens tripetala</i> de Candolle [Balsaminaceae]; <i>Kar-149</i>	Herb	Stem	Conjunctivitis [Bhutani 2008]
<i>Ipomoea batatas</i> (Linnaeus) Lamarck [Convolvulaceae]; <i>Kar-151</i>	Climber	Tuber	Vegetable [Kar 2009]
<i>Ipomoea quamoclit</i> Linnaeus [Convolvulaceae]; <i>Kar-170</i>	Climber	Whole plant	Ornamental
<i>Ixora coccinea</i> Linnaeus [Rubiaceae]; <i>Kar-141</i>	Herb	Flower	Ornamental
<i>Jatropha curcus</i> Linnaeus [Euphorbiaceae]; <i>Kar-144</i>	Tree	Latex	Blood dysentery [Bhutani 2008]
<i>Jasminum coarctatum</i> Roxburgh [Oleaceae]; <i>Kar-146</i>	Climber	Flower	Ornamental
<i>Jasminum laurifolium</i> Roxburgh var. <i>laurifolium</i> [Oleaceae]; <i>Kar-157</i>	Climber	Flower	Ornamental
<i>Jasminum multiflorum</i> (N.L.Burman f.) Andrews [Oleaceae]; <i>Kar-161</i>	Climber	Flower	Ornamental
<i>Jasminum sambac</i> (Linnaeus) Aiton [Oleaceae]; <i>Kar-119</i>	Herb	Flower	Ornamental
<i>Justicia adhatoda</i> Linnaeus [Acanthaceae]; <i>Kar-182</i>	Shrub	Leaf	Cough [Bhutani 2008]
<i>Justicia gendarussa</i> Linnaeus f. [Acanthaceae]; <i>Kar-143</i>	Herb	Leaf	Muscles pain [Bhutani 2008]

Scientific name [Family]; Exsiccate	Habit	Plant parts used	Use
<i>Kalanchoe pinnata</i> (Roxburgh) Persoon [Crassulaceae]; <i>Kar-167</i>	Herb	Leaf	Kidney stone [Chowdhury 2005]
<i>Lagerostromia parviflora</i> Roxburgh [Lythraceae]; <i>Kar-168</i>	Tree	Stem	Timber
<i>Lagerostromia reginae</i> Roxburgh [Lythraceae]; <i>Kar-164</i>	Tree	Stem	Timber
<i>Lannea coromandelica</i> (Houttuyn) Merrill [Anacardiaceae]; <i>Kar-155</i>	Tree	Stem	Timber
<i>Lantana camara</i> Linnaeus [Verbenaceae]; <i>Kar-130</i>	Herb	Leaf	Dog bite
<i>Lawsonia inermis</i> Linnaeus [Lythraceae]; <i>Kar-98</i>	Small tree	Leaf	Dye [Kar & Borthakur 2008b]
<i>Leea indica</i> (N.L. Burman) Merrill [Leeaceae]; <i>Kar-34</i>	Shrub	Stem bark	Stop bleeding
<i>Leucas plukentii</i> (Roth) Sprengel [Lamiaceae]; <i>Kar-212</i>	Herb	Shoot	Vegetable [Kar 2009]
<i>Lindernia crustacean</i> (Linnaeus) F. Mueller [Scrophulariaceae]; <i>Kar-160</i>	Herb	Whole plant	Fodder [Sarma & Bhattacharjya 2006]
<i>Ludwigia octovalvis</i> (N. Jacquin) Raven [Onagraceae]; <i>Kar-169</i>	Herb	Shoot	Fodder [Sarma & Bhattacharjya 2006]
<i>Luffa acutangula</i> (Linnaeus) Roxburgh [Cucurbitaceae]; <i>Kar-200</i>	Climber	Fruit	Vegetable [Kar 2009]
<i>Luffa aegyptica</i> P. Miller [Cucurbitaceae]; <i>Kar-221</i>	Climber	Fruit	Vegetable [Kar 2009]
<i>Mallotus philippensis</i> (Lamarck) Mueller [Euphorbiaceae]; <i>Kar-064</i>	Tree	Fruit	Red dye [Kar & Borthakur 2008b]
<i>Mangifera indica</i> Linnaeus [Anacardiaceae]; <i>Kar-249</i>	Tree	Fruit	Edible
<i>Manihot esculenta</i> Crantz [Euphorbiaceae]; <i>Kar-089</i>	Shrub	Root	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Mazus pumilus</i> (N.L. Burman) van Steenis [Scrophulariaceae]; <i>Kar-178</i>	Herb	Whole plant	Fodder [Sarma & Bhattacharjya 2006]
<i>Melastoma malabathricum</i> Linnaeus [Melastomataceae]; <i>Kar-186</i>	Herb	Fruit	Dye [Kar & Borthakur 2008b]
<i>Melia azedarach</i> Linnaeus [Meliaceae]; <i>Kar-216</i>	Tree	Stem	Timber
<i>Mentha arvensis</i> Linnaeus [Lamiaceae]; <i>Kar-171</i>	Herb	Leaf	Gastritis
<i>Merremia vitifolia</i> (N.L. Burman) Hallier f. [Convolvulaceae]; <i>Kar-062</i>	Climber	Shoot	Fodder [Sarma & Bhattacharjya 2006]
<i>Michelia champaca</i> Linnaeus [Magnoliaceae]; <i>Kar-176</i>	Tree	Stem	Timber
<i>Millettia pachycarpa</i> Benthham [Fabaceae]; <i>Kar-172</i>	Lianes	Stem bark	Fish stupefying
<i>Mimosa pudica</i> Linnaeus [Mimosaceae]; <i>Kar-203</i>	Herb	Root	Male fertility [Bhutani 2008]
<i>Mimosa rubicaulis</i> Lamarck. ssp. <i>himalayana</i> (Gamble) Ohashi [Mimosaceae]; <i>Kar-205</i>	Herb	Whole plant	Weed [Sarma & Bhattacharjya 2006]
<i>Mimusops elengi</i> Roxburgh [Sapotaceae]; <i>Kar-134</i>	Tree	Stem bark	Gum infection [Bhutani 2008]
<i>Mirabilis jalapa</i> Linnaeus [Nyctaginaceae]; <i>Kar-198</i>	Herb	Flower	Ornamental
<i>Mollugo pentaphylla</i> Linnaeus [Molluginaceae]; <i>Kar-189</i>	Herb	Whole plant	Vegetable [Kar 2009]
<i>Momordica mixta</i> Roxburgh [Cucurbitaceae]; <i>Kar-194</i>	Climber	Fruit	Vegetable [Kar 2009]

Scientific name [Family]; Exsiccate	Habit	Plant parts used	Use
<i>Moringa oleifera</i> Lamarck [Moringaceae]; Kar-195	Tree	Fruit	Vegetable [Kar 2009]
<i>Mucuna pruriens</i> (Linnaeus) DC. [Fabaceae]; Kar-78	Climber	Root	Health tonic [Bhutani 2008]
<i>Mukia maderaspatana</i> (Linnaeus) M.J. Roemer [Cucurbitaceae]; Kar-85	Climber	Fruit	Edible
<i>Murraya koenigii</i> (Linnaeus) Sprengel [Rutaceae]; Kar-185	Shrub	Leaf	Gastritis
<i>Murraya paniculata</i> (Linnaeus) Jack [Rutaceae]; Kar-74	Shrub	Whole plant	Ornamental
<i>Musa balbisiana</i> Colla [Musaceae]; Kar-263	Herb	Inflorescence	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Natsiatum herpeticum</i> Buchanon - Hamilton ex G.A.W. Arnott [Icacinaceae]; Kar-191	Climber	Leaf	Vegetable [Kar 2009]
<i>Nicotiana plumbaginifolia</i> D. Viviani [Solanaceae]; Kar-135	Herb	Leaf	Fodder [Sarma & Bhattacharjya 2006]
<i>Nyctanthes arbortristis</i> Linnaeus [Verbenaceae]; Kar-201	Tree	Flower	Ornamental
<i>Ocimum tenuiflorum</i> Linnaeus [Lamiaceae]; Kar-192	Herb	Leaf	Ritual
<i>Oplismenus burmannii</i> (Retzius) Beauverd [Poaceae]; Kar-117	Herb	Leaf	Fodder [Sarma & Bhattacharjya 2006]
<i>Oplismenus compositus</i> (Linnaeus) Beauverd [Poaceae]; Kar-30	Herb	Leaf	Fodder [Sarma & Bhattacharjya 2006]
<i>Oroxylum indicum</i> (Linnaeus) Ventenat [Bignoniaceae]; Kar-223	Tree	Flower	Intestinal worm
<i>Oxalis corniculata</i> Linnaeus [Oxalidaceae]; Kar-213	Herb	Whole plant	Vegetable [Kar 2009]
<i>Oxalis debilis</i> Kunth var. <i>corymbosa</i> (DC.) Lourteig [Oxalidaceae]; Kar-199	Herb	Whole plant	Vegetable [Kar 2009]
<i>Paederia cruddasiana</i> D. Prain [Rubiaceae]; Kar-280	Climber	Shoot	Fodder [Sarma & Bhattacharjya 2006]
<i>Paederia foetida</i> Linnaeus [Rubiaceae]; Kar-209	Climber	Leaf	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Panicum repens</i> Linnaeus [Poaceae]; Kar-187	Grass	Whole plant	Fodder [Sarma & Bhattacharjya 2006]
<i>Parthenium hysterophorus</i> Linnaeus [Asteraceae]; Kar-196	Herb	Whole plant	Weed [Sarma & Bhattacharjya 2006]
<i>Passiflora foetida</i> Linnaeus [Passifloraceae]; Kar-262	Climber	Flower	Ornamental
<i>Peperomoea pelucida</i> (Linnaeus) Humboldt, Bonpland & Kunth [Piperaceae]; Kar-44	Herb	Shoot	Vegetable [Kar 2009]
<i>Physalis minima</i> Linnaeus [Solanaceae]; Kar-219	Herb	Shoot	Vegetable [Kar 2009]
<i>Piper betle</i> Linnaeus [Piperaceae]; Kar-207	Climber	Leaf	Masticator
<i>Plumeria alba</i> Linnaeus [Apocynaceae]; Kar-227	Tree	Leaf	Ornamental
<i>Polyalthia longifolia</i> (Sonnerat) Thawaites [Annonaceae]; Kar-237	Tree	Whole plant	Ornamental
<i>Polygonum barbatum</i> Linnaeus var. <i>barbatum</i> [Polygonaceae]; Kar-208	Herb	Shoot	Fodder [Sarma & Bhattacharjya 2006]
<i>Portulaca oleracea</i> Linnaeus [Portulacaceae]; Kar-228	Herb	Shoot	Vegetable [Kar 2009]

Scientific name [Family]; Exsiccate	Habit	Plant parts used	Use
<i>Portulaca quadrifolia</i> Linnaeus [Portulacaceae]; Kar-83	Herb	Shoot	Vegetable [Kar 2009]
<i>Pouzolzia zeylanica</i> (Linnaeus) S.S.R. Bennet & Brown [Urticaceae]; Kar-32	Herb	Leaf	Cuts & infection [Bhutani 2008]
<i>Psidium guajava</i> Linnaeus [Myrtaceae]; Kar-190	Tree	Fruit	Edible
<i>Punica granatum</i> Linnaeus [Punicaceae]; Kar-239	Tree	Fruit	Edible
<i>Putranjiva roxburghii</i> Wallich [Euphorbiaceae]; Kar-16	Tree	Whole plant	Ornamental
<i>Quisqualis indica</i> Linnaeus [Combretaceae]; Kar-218	Climber	Flower	Ornamental
<i>Raphidophora decursiva</i> (Roxburgh) Schott [Araceae]; Kar – 256	Climber	Whole plant	Ornamental
<i>Rhynchosyilis retusa</i> (Linnaeus) Blume [Orchidaceae]; Kar-53	Epiphytic	Inflorescence	Cultural significance
<i>Ricinus communis</i> Linnaeus [Euphorbiaceae]; Kar-126	Shrub	Leaf	Silk worm host plant
<i>Rosa alba</i> Linnaeus [Rosaceae]; Kar-9	Shrub	Flower	Ornamental
<i>Saccharum officinarum</i> Linnaeus [Poaceae]; Kar-13	Shrub	Stem	Edible
<i>Sansevieria roxburghiana</i> Linnaeus [Agavaceae]; Kar-222	Herb	Whole plant	Ornamental
<i>Sapium baccatum</i> Roxburgh [Euphorbiaceae]; Kar-67	Tree	Stem	Timber
<i>Saraca asoca</i> (Roxburgh) W.J. de Wilde [Caesalpiniaceae]; Kar-109	Tree	Stem bark	Irregular menstrual cycle [Bhutani 2008]
<i>Schizostachyum polymorphum</i> (Munro) Majumdar [Poaceae]; Kar-255	Bamboo	Culm	Making basket and mat
<i>Sclerostachya fusca</i> (Roxburgh) A. Camus [Poaceae]; Kar-257	Grass	Stem	Thatch [Sarma & Bhattacharjya 2006]
<i>Scoparia dulcis</i> Linnaeus [Scrophulariaceae]; Kar-243	Herb	Leaf	Cough [Bhutani 2008]
<i>Schima wallichii</i> (DC.) Kuntze [Theaceae]; Kar-159	Tree	Stem	Timber
<i>Sesamum orientale</i> Linnaeus [Pedaliaceae]; Kar-236	Herb	Seed	Ritual
<i>Setaria pumila</i> (Poir) M.J. Roemer & F. Schultes [Poaceae]; Kar-183	Grass	Whole plant	Fodder [Sarma & Bhattacharjya 2006]
<i>Sida acuta</i> N.L. Burman [Malvaceae]; Kar-247	Herb	Branches	Broom
<i>Sida rhombifolia</i> Linnaeus ssp. <i>retusa</i> (Linnaeus) Borssum [Malvaceae]; Kar-242	Herb	Leaf	Promote flow of urine [Bhutani 2008]
<i>Siegesbeckia orientalis</i> Linnaeus [Asteraceae]; Kar-20	Herb	Shoot	Fodder [Sarma & Bhattacharjya 2006]
<i>Smilax glabra</i> Roxburgh [Smilacaceae]; Kar-210	Climber	Shoot	Vegetable [Kar 2009]
<i>Smilax perfoliata</i> Loureiro [Smilacaceae]; Kar-80	Climber	Shoot	Vegetable [Kar 2009]
<i>Spilanthes clava</i> DC. [Asteraceae]; Kar-251	Herb	Inflorescence	Gum infection [Kar et al 2011a]
<i>Spilanthes paniculata</i> DC. [Asteraceae]; Kar-241	Herb	Shoot	Health tonic [Kar et al 2011a]
<i>Solanum anguivi</i> Lamarck [Solanaceae]; Kar-245	Herb	Fruit	Vegetable [Kar 2009; Kar & Borthakur 2007a]

Scientific name [Family]; Exsiccate	Habit	Plant parts used	Use
<i>Solanum erianthum</i> D. Don [Solanaceae]; Kar-224	Shrub	Stem	Jaundice
<i>Solanum melonjena</i> Linnaeus [Solanaceae]; Kar-197	Herb	Fruit	Vegetable [Kar 2009]
<i>Solanum nigrum</i> Linnaeus [Solanaceae]; Kar-273	Herb	Shoot	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Solanum torvum</i> Swingle [Solanaceae]; Kar-235	Shrub	Fruit	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Solanum viarum</i> Dunal [Solanaceae]; Kar-291	Herb	Fruit	Teeth ache [Bhutani 2008]
<i>Sonchus brachyotus</i> DC. [Asteraceae]; Kar-282	Herb	Shoot	Vegetable [Kar, 2009]
<i>Spondias pinnata</i> (Linnaeus f.) W.S. Kurz [Anacardiaceae]; Kar-240	Tree	Fruit	Pickle [Kar & Borthakur 2007a; Kar <i>et al</i> 2011b]
<i>Stachytarpheta jamaicensis</i> (Linnaeus) M. Vahl [Verbenaceae]; Kar-233	Herb	Inflorescence	Ornamental
<i>Stephania japonica</i> (Thunberg) Miers [Menispermaceae]; Kar-248	Climber	Root	Cattle muscles infection [Chowdhury 2005]
<i>Stellaria media</i> (Linnaeus) Villars [Caryophyllaceae]; Kar-286	Herb	Whole plant	Vegetable [Kar 2009]
<i>Sterculia villosa</i> Roxburgh [Sterculiaceae]; Kar-234	Tree	Stem	Fibre
<i>Syzygium cumini</i> (Linnaeus) Skeels [Myrtaceae]; Kar-21	Tree	Seed	Against diabetes
<i>Tabernaemontana divaricata</i> (Linnaeus) R. Brown [Apocynaceae]; Kar-142	Shrub	Flower	Ritual
<i>Tagetes erecta</i> Linnaeus [Asteraceae]; Kar-265	Herb	Flower	Ornamental
<i>Tamarindus indica</i> Linnaeus [Caesalpiniaceae]; Kar-272	Tree	Fruit	Chutney [Kar 2009]
<i>Tectona grandis</i> Linnaeus [Verbenaceae]; Kar-253	Tree	Stem	Timber
<i>Terminalia bellerica</i> (Gaertner) Roxburgh [Combretaceae]; Kar-258	Tree	Kernel	Gastritis
<i>Terminalia chebula</i> Retzius [Combretaceae]; Kar-33	Tree	Fruit	Gastritis
<i>Terminalia cuneata</i> Roth [Combretaceae]; Kar-88	Tree	Stem bark	Cardiac tonic
<i>Thevetia peruviana</i> (Persoon) Merrill [Apocynaceae]; Kar-211	Tree	Flower	Ornamental
<i>Thunbergia grandiflora</i> (Rottlboell) Roxburgh [Thunbergiaceae]; Kar-250	Climber	Stem	Rope
<i>Thysanolaena maxima</i> Roxburgh [Poaceae]; Kar-281	Shrub	Panicle	Broom
<i>Tinospora cordifolia</i> (Willdenow) Miers <i>ex</i> Hooker <i>f.</i> & Thomson [Menispermaceae]; Kar-264	Climber	Stem	Typhoid [Bhutani 2008]
<i>Toona ciliata</i> M.J. Roemer [Meliaceae]; Kar-136	Tree	Stem	Timber
<i>Tradescantia pallida</i> (Rose) D.R. Hunt [Commelinaceae]; Kar-267	Herb	Whole plant	Ornamental
<i>Trewa nudiflora</i> Linnaeus [Euphorbiaceae]; Kar-276	Tree	Stem	Timber
<i>Trichosanthes bracteata</i> (Lamarck) Voigt [Cucurbitaceae]; Kar-153	Climber	Root	Fever [Bhutani 2008]
<i>Tridax procumbens</i> Linnaeus [Asteraceae]; Kar-271	Herb	Whole plant	Fodder [Sarma & Bhattacharjya 2006]

Scientific name [Family]; Exsiccate	Habit	Plant parts used	Use
<i>Typhonium trilobatum</i> (Linnaeus) Schott [Araceae]; <i>Kar-156</i>	Herb	Leaf	Vegetable [Kar 2009; Kar & Borthakur 2007a]
<i>Urena lobata</i> Linnaeus [Malvaceae]; <i>Kar-238</i>	Herb	Leaf	Diarrhoea [Bhutani 2008]
<i>Vanda teres</i> Roxburgh [Orchidaceae]; <i>Kar-254</i>	Epiphytic	Flower	Ornamental
<i>Vanda testacea</i> (Lindley) Reichenbach f. [Orchidaceae]; <i>Kar-226</i>	Epiphytic	Flower	Ornamental
<i>Vitex negundo</i> Linnaeus [Verbenaceae]; <i>Kar-252</i>	Shrub	Leaf	Intestinal worm
<i>Vitex peduncularis</i> Wallich ex Schauer [Verbenaceae]; <i>Kar-179</i>	Tree	Leaf	Malarial fever [Bhutani 2008]
<i>Vernonia cinerea</i> (Linnaeus) Lessing [Asteraceae]; <i>Kar-56</i>	Herb	Leaf	Conjunctivitis
<i>Wedelia chinensis</i> (Osbeck) Merrill [Asteraceae]; <i>Kar-7</i>	Herb	Leaf	Black dye [Kar & Borthakur 2008b]
<i>Xanthium strumarium</i> Linnaeus [Asteraceae]; <i>Kar-5</i>	Herb	Shoot	Vegetable [Kar 2009]
<i>Zehneria indica</i> (Loureiro) M. Keraudren -Aymonin [Cucurbitaceae]; <i>Kar-285</i>	Climber	Fruit	Vegetable [Kar 2009]
<i>Zephyranthes carinata</i> Herbert [Amaryllidaceae]; <i>Kar-101</i>	Herb	Flower	Ornamental
<i>Zizyphus mauritiana</i> Lamarck [Rhamnaceae]; <i>Kar-269</i>	Tree	Fruit	Pickle [Kar 2009]