

## A CHECKLIST OF THE VASCULAR PLANTS OF BANASKANTHA DISTRICT, GUJARAT, INDIA

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### ABSTRACT

The floristic survey of Banaskantha district resulted in collection of 812 species of flowering plants belonging to 442 genera under 116 families. Besides 5 species of pteridophytes were also collected. A checklist is presented along with a brief account on topography, climate, vegetation and floristic analysis.

**Keywords:** Bansakantha, Vascular Plants, Checklist.

### INTRODUCTION

Banaskantha district, situated in north - east of Gujarat State, lies between 23°35' and 24°34' north latitudes and 71°00' and 73°00' east longitudes, with administrative headquarter at Palanpur. The region is named after the west Banas river which runs through the valley between Mt. Abu and Aravalli range, entering into the plains of Gujarat in this region and flowing towards the Rann of Kachchh. It covers an area of 10,751 sq. km. The district shares its boundaries with part of Rajasthan desert in the North, Sabarkantha district in the East, Kachchh district in West and Patan and Mehsana districts in the South. Banaskantha district has 8 talukas, namely Palanpur, Deesa, Tharad, Vav, Radhanpur, Bhabhar, Deodar and Suigam. The famous Ambaji temple is in Ambaji town situated at the foot of Aravalli mountain near the mouth of Gabbar river, locally known as Saraswati river, and ancient Balaram temple near Chitasani railway station on the bank of river Balaram. Besides, the Kedarnath temple, which is located in the laps of Jessor Sloth bear Wildlife Sanctuary at high elevation, is also religiously equally important. The other known-religious place is Dhima which is c. 12km away from Vam. The district has maximum population of Gujarati Jats. A number of other clans are also found in district viz., Antal-Utpal, Atwal, Bhatti, Dal-Dhaludee, Punia, Rathor, Rawat, Sikarwar, Katariya, Mann, Mahla, Nauhar, Pallwal, Parinar. Tribal population is concentrated in mostly Ambaji and Amirgarh area.

### PHYSIOGRAPHY

**Soil :** North western part of the district is sandy which covers talukas like Vav, Tharad, Dhanera and some part of Diyodar. The western part of the district touches the Kachchh district. The soil is loamy-saline near Suigao. Southern part of district is formed with loamy soil at Bhabhar and some parts of Diyodar, Dassa, Palanpur, Vadgam and Dantiwada. Some parts of Shiori and Vadgam taluka falls under silt soil. The north eastern part of the district fall under gravel hilly soil with scattered hilly tract comprising taluka Amirgarh, Danta, Dhanera and Ambaji.

**Drainage :** There are a number of seasonal rivers in the district viz., Mah river, Banas and Sipu river having its own reservoirs (Dams) namely Sipu dam and Dantiwara dam with their canal system. This in turn plays an important role in maintaining the soil moisture content and micro climatic conditions for the growth of plants. Banas river flows from across the centre of the district. Some other rivers are Ladbi, Umar-dasi, Gabbar, Saraswati and river Balaram.

**Climate :** The Banaskantha district falls under the semi arid climatic region. The summer season starts from March and continues up to June. The temperature reaches upto 45.5°C during the month of June when days are hot and nights are pleasant. Sand storms and twisters are common. Pre-monsoon showers begin from the first week of July onwards, and in August monsoon gets fully settled here and continues till mid September. The average annual rainfall ranges from 600 to 750 mm. Winter season starts from November onwards and remains till February when minimum temperature falls upto 6.5°C and mean monthly temperature recorded was 18.5°C.

## VEGETATION

The forest cover of the district is 9558sq. km which is 8.56% of the geographical area and is characterized by dry deciduous to scrub forest types.

The Banaskantha district includes two important Wildlife Sanctuaries namely Jessore Sloth bear Wildlife Sanctuary and Balaran - Ambaji Wildlife Sanctuary. The former one is situated in Aravalli hills covering an area of 180.66 sq. km is considered as the most suitable habitat for Sloth bear. The important plant species of Jessore Sloth bear Wildlife Sanctuary are *Lannea coromandelica*, *Sterculia urens*, *Alangium salvifolium*, *Boswellia serrata*, *Anogeissus latifolia* and *Dendrocalamus strictus* at high elevation. Like Jessore sloth bear Wildlife Sanctuary, Balaran - Ambaji Wildlife Sanctuary forest is another important forest which is inhabited by the tribal population. Sanctuary has an area of c. 542.08 sq. km and forms the terrain of Aravalli ranges. The different habitats of Balaran - Ambaji Wildlife Sanctuary represent various type of forests, namely dry mixed deciduous forests, thorn forests, riverine forests, *Butea* forests intermixed with *Phoenix sylvestris*, *Ziziphus* scrubs, *Acacia tortalis* forests, *Acacia nilotica* forests, *Acacia catechu* forests, *Anogeissus* scrubs, *Acacia - Ziziphus* forests. Both the sanctuaries are rich in medicinal plant diversity. The common species are *Acacia nilotica* subsp. *indica*, *Aegle marmelos*, *Wrightia tinctoria*, *Boswellia serrata*, *Holoptelea integrifolia*, *Holarrhena pubescens*, *Millettia pinnata*, *Terminalia bellirica*, *Acacia tortilis*, etc.

Vegetation of Banaskantha district falls under the arid and semi - arid climatic zone. Two physiographic areas may be recognised in Banaskantha district.

**1. North-western semi arid desert :** North-western part of the Banaskantha district falls under desertic soil type and is adjoining to the Rajasthan desert in Tharad taluka. Annual rainfall is very low and temperature is variable. The vegetation is sparse, consisting mainly of stunted, thorny or prickly shrubs and perennial herbs capable of drought resistance. In such parts after monsoon a green-ground carpet can be seen. Mostly ephemerals come up, and complete their life cycle in few weeks or in a month. Vegetation can be categorised in following heads:

- (a) **Sand-dunes and interdunal areas :** Such types of habitat are common in the western part of the district. Sand dunes, stabilised and partially stabilized, are common in Dhanera and Tharad area. The common trees and shrubs found on stabilized and partially stabilised sand dunes are *Clerodendrum phlomides*, *Lycium barbarum* on some of the dunes, trees like *Acacia leucophloea*, *Acacia senegal*, *Prosopis cineraria*, *Salvadora oleoides*, *Tecomella undulata* are also common. The other plant inhabitants are *Aerva javanica*, *Crotalaria burhia*, *Farsetia stylosa*, *Tephrosia purpurea*, *Tephrosia strigosa*, *Tribulus terrestris*, etc. The common annual soil binders are *Aristida adscensionis*, *A. funiculata*, *Cenchrus biflorus*, *C. ciliaris*, *C. setigerus*, *Cymbopogon* sp., *Dactyloctenium aegyptium*, *D. scindicum*, *D. aristatum*, *Panicum antidotale*, *Sporobolus helvolus*, *Cyperus rotundus*, etc. generally found in sandy soil of Tharad and Dhanera area.

The interdunal vegetation is more luxuriant on account of availability of more moisture and low wind velocity. The common trees and shrubs are *Acacia senegal*, *Prosopis cineraria*, *Salvadora oleoides*, *S. persica*, *Tecomella undulata*, *Acacia jacquemontii*, *Calotropis procera*, *Capparis decidua*, *Ziziphus mauritiana*, etc. Besides this, plants which are found in the dunes also grow in interdunal areas. The unstabilised sand dunes, which are very low in height, are sparsely covered with plants like *Crotalaria burhia*, *Aerva javanica*, *Leptadenia pyrotechnica*, *Calotropis procera*, *Citrullus colocynthis*, etc.

- (b) **Sandy plains :** Most of the western part of the district is sandy plain particularly the areas under Deesa and Bhabhar talukas. The common trees and shrubs are: *Acacia leucophloea*, *A. senegal*, *Capparis decidua*, *Gymnosporia emarginata*, *Prosopis cineraria*, *Salvadora oleoides*, *S. persica* and *Tecomella undulata*. Some undershrubs and herbs like *Aerva javanica*, *Boerhavia repens* L. var. *diffusa*, *Convolvulus prostratus*, *Crotalaria burhia*, *Farsetia hamiltonii*, *Heliotropium strigosum*, *Indigofera cordifolia*, *Calotropis procera*, *Leptadenia pyrotechnica*, *Tephrosia*

*purpurea* and *Physalis minima* are also very common. The common climbers are *Coccinia grandis*, *Momordica dioica*, *Mukia maderaspatana*, *Cocculus hirsutus*, *Abrus precatorius*. *Aristida funiculata*, *Cenchrus biflorus*, *Dactyloctenium scindicum*, *Panicum antidotale*, etc. are also abundant as most of these plants possess well developed root system and miligate soil erosion.

- (c) **Gravelly plain :** Vegetation of such habitat is dominated by plant species like *Fagonia indica*, *Dactyloctenium aristatum*, *Indigofera linnaei*, *Leptadenia pyrotechnica*, *Blepharis maderaspatensis*, *Salvia santolinifolia*, *Dicoma tomentosa*, etc. Certain plants of gravelly plains are prostrate and star like with the branches remaining appressed to the ground i.e. *Euphorbia hirta*, *Indigofera cordifolia*, *I. hochstetteri*, *Mollugo nudicaulis*, *M. pentaphylla*, *Tribulus terrestris*, etc. The common trees and shrubs are *Capparis decidua*, *Prosopis cineraria*, *Gymnosporia emarginata*, *Calotropis procera*, etc. particularly in Dantiwada, Balaram - Ambaji, Hathidhara, Danta and Hadad areas.
- (d) **Saline tracts :** There are many saline tracts found near Suigao and area adjoining to Katchchh district. The common plants found here are *Tamarix* spp., *Prosopis juliflora*, *Cressa cretica*, *Portulaca oleracea*, *Sesuvium sesuvioides*, *Sueada fruticosa*, *S. nudiflora*, *Salvadora oleoides*, *Trianthema triquetra*, *Aeluropus lagopoides*, etc.

**2. Vegetation of Forest/Hilly region :** This types of vegetation is common in Jessore, Amirgarh, Hathidhara and Ambaji forests. The dominant tree species of this types of habitats are *Acacia catechu*, *Aegle marmelos*, *Anogeissus acuminata*, *A. latifolia*, *Butea monosperma*, *Bombax ceiba*, *Diospyros melanoxylon*, *Ficus racemosa*, *F. benghalensis*, *Lannea coromandelica*, *Pithecellobium dulce*, *Terminalia bellirica*, *Sterculia urens*, *Wrightia tinctoria*, *W. tomentosa*, *Boswellia serrata* and *Dendrocalamus strictus* which become most dominant species on the top of the hills of Hathidhara, Ambaji and Jessore forests.

In the middle layer of the hills, vegetation is of mixed type. The undergrowth, is represented by species like *Alangium salvifolium*, *Balanities aegyptiaca*, *Capparis sepiaria*, *Casearia tomentosa*, *Ceriscoides turgida*, *Mallotus philippensis*, *Grewia flavescens*, *Holarrhena pubescens*, *Helicteres isora*, *Ziziphus oenoplia*, etc. The common climbers and twiners associated with these plants are *Abrus precatorius*, *Asparagus racemosus*, *Dregea volubilis*, *Cissampelos pareira* var. *hirsuta*, *Cayratia trifolia*, *Dioscorea bulbifera* and *D. hispida*. The ground flora, which makes its appearance during monsoon, includes *Acanthospermum hispidum*, *Achyranthes aspera*, *Anisochilus carnosus*, *Impatiens balsamina*, *Barleria prionitis*, *Blepharis maderaspatensis*, *Enicostemma axillaris*, *Curcuma inodora*, *Dicliptera verticillata*, *Sida ovata*, etc. The common grasses and sedges intermingled with these herbaceous plants are *Apluda mutica*, *Dichanthium annulatum*, *Aristida funiculata*, *Cenchrus setigerus*, *Heteropogon contortus*, *Cynodon dactylon*, *Oropetium thomaeum* and species of *Arthroxon*, *Eragrostis*, *Digitaria*, *Brachiaria*, *Panicum*, *Setaria* and *Themeda*, etc. Sedges like *Cyperus tuberosus*, *C. rotundus*, *C. difformis* and *Fimbristylis bisumbellata*, etc. are very common in the forests of Jessore Sloth Bear Wildlife Sanctuary as well as in Balaram - Ambaji Wildlife Sanctuary.

**3. Scrub thorn forests :** This type of forests are found along village outskirts and ravines nallahs. The vegetation of such forests is very sparse and dominated by *Acacia catechu*, *A. senegal*, *A. leucopholea*, *A. nilotica* subsp. *indica*, *Aegle marmelos*, *Holoptelea integrifolia*, *Prosopis juliflora*, *Mimosa hamata*, *Ziziphus nummularia*, *Z. mauritiana*, *Phyllanthus reticulatus* and *Salvadora oleoides*. Certain localities of these forests are mixed with some typical dry deciduous species like *Aegle marmelos*, *Butea monosperma*, *Capparis decidua*, *Balanites aegyptiaca*, *Holarrhena pubescens*, *Ziziphus mauritiana* and *Senna auriculata*. The common climbers and twiners which form important components of such forests are *Mucuna pruriens*, *Abrus precatorius*, *Canavalia ensiformis*, *Cissampelos pariera* *hirsuta*, *Dioscorea hispida*, *Cardiospermum halicacabum*, etc. Common stem parasites encountered here are *Cuscuta chinensis*, *C. reflexa*, *C. hyalina*, *Dendrophthoe falcata*, *Viscum articulatum*, etc. which enrich the vegetation of such habitats. The ground flora is quite luxuriant during monsoon, while in summer and winter it is quite dry and barren and represented by herbaceous species like *Acanthospermum hispidum*, *Bidens biternata*, *Ruellia patula*, *Martynia annua*, *Pupalia lappacea*, *Solanum*

*virginianum*, *Tephrosia purpurea*, *Tribulus terrestris*, *Tridax procumbens*, *Boerhavia* and *Amaranthus* spp., etc. Among grasses, species of *Aristida*, *Bothriochloa*, *Heteropogon*, *Cynodon*, etc. are very common.

#### METHODOLOGY

To achieve the objectives of the present work, six intensive botanical explorations were conducted during 2002 to 2005 in different seasons so as to collect all species in flowering and fruiting state. The collected specimens were identified and deposited in the herbarium of the Botanical Survey of India, Arid Zone Regional Centre, Jodhpur (BSJO). Some of the plant species have been included based on available literature (Forest management plan), which are marked by an astrick (\*). Nomenclature of all taxa has been updated. Bentham & Hooker's system of classification (1862-83) has been followed for enumeration and documentation of plant wealth of Banaskantha district.

#### FLORISTIC ANALYSIS

The present work enumerates 812 vascular plants belonging to 442 genera under 116 families. It is interesting to note that Monochlamydeae is lowest among Dicotyledons. The biggest family of this group is Euphorbiaceae, represented by 15 genera and 37 species, while families Amaranthaceae and Moraceae stand on second and third places respectively. The monocot to dicot ratio for species is 1:3.7; for genera 1:3.9 while for family it is 1: 4.0. The ratio of total number of genera to species is 1:1.8, which is rather low in comparison to the corresponding ratio for whole of India which is estimated to be about 1:7, but it is more or less comparable to the Flora of Rajasthan 1:2.4 (Shetty & Singh, 1993) and for Gujarat State 1: 2.4 (Shah, 1978). Besides this, 5 species of Pteridophytes were also collected from the district.

#### ENUMERATION

#### PTERIDOPHYTES

##### ADIANTACEAE

#### ***Adiantum capillus-veneris* L.**

Hathidhara forest, S. L. Meena 18031; Balaram near temple, S. L. Meena 17993 (BSJO).

#### ***Adiantum philippense* L. [= *Adiantum lunulatum* Burm.f.]**

Kangura near Ambaji, S. L. Meena 18039 (BSJO).

##### MARSILEACEAE

#### ***Marsilea minuta* L.**

Gabbar river - Ambaji, S. L. Meena 17280, 18320 (BSJO).

##### PTERIDACEAE

#### ***Actiniopteris radiata* (Sw.) Link**

Jessore Wildlife Sanctuary, S. L. Meena 17837; Kangura near Ambaji on way to Balaram, S. L. Meena 18041 (BSJO).

##### THELYPTERIDACEAE

#### ***Ampelopteris prolifera* (Retz.) Copel.**

Balaram, S.L. Meena 17992 (BSJO).

##### ANGIOSPERMS

##### DICOTYLEDONS

##### ANNONACEAE

#### ***Annona squamosa* L.**

Koteshwar - Ambaji, R. S. Patel 2931 (SPU).

#### ***Miliusa tomentosa* (Roxb.) Finet & Gagnep.**

Harionz-Danta forests, S.L. Meena 17817; Jessore Wildlife Sanctuary, S.L. Meena 18212 (BSJO); Koteswar, R.S. Patel 2828 (SPU).

#### MENISPERMACEAE

**Cissampelos pareira** L. var. **hirsuta** (Buch.-Ham. ex DC.) Forman

Hathidhara forest, S.L. Meena 18028 (BSJO); Koteswar - Ambaji, R.S. Patel 2724 (SPU).

**Cocculus hirsutus** (L.) Theob.

Bagdari river near Balaram, S.L. Meena 17261; Manpuria - Jessore Wildlife Sanctuary, S.L. Meena 17948 (BSJO); Palanpur, V. Singh 5343 (BSJO); Dama near Sipu dam, S.K. Malhotra 8260 (BSJO).

**Cocculus pendulus** (J.R. Forst. & G. Forst.) Diels

Bhoral, S.L. Meena 17970; Sundha, S.L. Meena 18372 (BSJO).

**Tinospora glabra** (Burm.f.) Merr. [= *Tinospora cordifolia* (Willd.) Miers ex Hook. f. & Thomson]

Hathidhara forest, S.L. Meena 17807 (BSJO).

#### NELUMBONACEAE

\***Nelumbo nucifera** Gaertn.

Near Sipu dam.

#### PAPAVERACEAE

**Argemone mexicana** L.

Jessore Wildlife Sanctuary, S.L. Meena 20642; Sipu dam, S.L. Meena 20756; Ghanyara - Palanpur (BSJO), V. Singh 5403 (BSJO); Atal village, S.K. Malhotra 8103 (BSJO); near Kumbharia, R.S. Patel 2585 (SPU).

#### FUMARIACEAE

**Fumaria indica** (Haussk.) Pugsley

Hathidhara, S.L. Meena 18383 (BSJO).

#### BRASSICACEAE (CRUCIFERAE *nom. alt.*)

\***Brassica nigra** (L.) K. Koch

Balaram - Ambaji Wildlife Sanctuary and Jessore Wildlife Sanctuary.

\***Coronopus didymus** (L.) Sm.

Balaram - Ambaji Wildlife Sanctuary and Jessore Wildlife Sanctuary.

**Farsetia hamiltonii** Royle

Dudhwa near Tharad - Sanchor road, S.L. Meena 18289; Jaloya near Suigao, S.L. Meena 18348 (BSJO).

**Lepidium sativum** L.

Palanpur, V. Singh 5327 (BSJO).

**Rorippa indica** (L.) Hiern

Ganodhara village near Sipu dam, S.K. Malhotra 8206 (BSJO).

#### CAPPARACEAE

**Cadaba fruticosa** (L.) Druce

Dabhi near Suigao, S.L. Meena 18357 (BSJO); Hadad road, R.S. Patel 3414 (SPU).

**Capparis decidua** (Forssk.) Edgew.

Sipu dam river area, S.L. Meena 17851 (BSJO); Nohargri village near Sipu dam, S.K. Malhotra 7493

(BSJO); Amirgarh, G.V. Gopal 2814 (SPU).

**Capparis oblongifolia** Forssk. [= *Maerua oblongifolia* (Forssk.) A. Rich.]

Jessore Wildlife Sanctuary, S.L. Meena 17907 (BSJO).

**Capparis sepiaria** L. var. **sepiaria**

Bhoral near Dhanera, S.L. Meena 17969; Bhaila near Ambaji, S.L. Meena 17270 (BSJO); Jagara, S. K. Patel 4640 (SPU).

**Capparis sepiaria** L. var. **vulgaris** Hook. f. & Thomson

Jessore Wildlife Sanctuary, S.L. Meena 18150, 18156 (BSJO).

\***Cleome chelidonii** L.f.

Jessore Wildlife Sanctuary.

**Cleome gynandra** L.

Hathidhara forest, S.L. Meena 17806; Dhuri (Palanpur - Danta road), S.L. Meena 18014; Amirgarh, S.L. Meena 20762; Deesa, S.L. Meena 18279 (BSJO); Balaram, G.V. Gopal 43 (SPU).

**Cleome monophylla** L.

Near Pansa river let, R.S. Patel 20169 (SPU).

**Cleome viscosa** L.

Jessore Wildlife Sanctuary, S.L. Meena 17881, 18137; Hathidhara forest, S.L. Meena 18386 (BSJO); Parian village near Sipu dam, S.K. Malhotra 7525 (BSJO).

**Crateva magna** (Lour.) DC. (= *Crateva nurvala* Buch. - Ham.)

Near Panssa, R.S. Patel 10065 (SPU).

**Maerua arenaria** Hook. f. & Thomson var. **scabra** Hook. f. & Thomson

Devpura - Sihori, S.L. Meena 18368 (BSJO).

#### VIOLACEAE

**Hybanthus enneaspermus** (L.) F. Muell.

Jessore Wildlife Sanctuary, S.L. Meena 18166 (BSJO); Sabalpani - Ambaji, R.S. Patel 2021 (SPU).

#### FLACOURTIACEAE

**Flacourtia indica** (Burm.f.) Merr.

Ambaji, A.R. Menon 1424; Balaram, R.S. Patel 2691; Jessore, S.K. Patel 4628 (SPU).

**Guidonia tomentosa** (Roxb.) Kuntz (= *Casearia tomentosa* Roxb.)

Balaram - Ambaji Wildlife Sanctuary, S.K. Patel 4616 (SPU).

#### POLYGALACEAE

**Polygala arvensis** Willd.

Amirgarh hills, S.L. Meena 18086 (BSJO); A.R. Menon 1094 (SPU).

**Polygala erioptera** DC.

Khara near Bhabhar, S.L. Meena 20701 (BSJO); near Shiri river, R.S. Patel 4326 (SPU).

**Polygala irregularis** Boiss.

Jessore Wildlife Sanctuary, S.L. Meena 17914 (BSJO).

\***Polygala persicariifolia** DC.

Jessore Wildlife Sanctuary.

## CARYOPHYLLACEAE

**Polycarpaea corymbosa** (L.) Lam.

Balaram, S.L. Meena 17983; Jessore Wildlife Sanctuary, S.L. Meena 18196 (BSJO).

**Spergula arvensis** L.

Rinchhdiya, R. S. Patel 2496 (SPU).

## PORTULACACEAE

**Portulaca oleracea** L.

Jessore Wildlife Sanctuary, S. L. Meena 17830; Bagdari river near Virampur - Balaram, S. L. Meena 17264 (BSJO).

**Portulaca quadrifida** L.

Gabbar river - Ambaji, S. L. Meena 20686 (BSJO).

## TAMARICACEAE

**Tamarix dioica** Roxb. ex Roth

Boru near Sihori, S. L. Meena 18360 (BSJO).

**Tamarix ericoides** Rottl. & Willd.

Balaram - Ambaji Wildlife Sanctuary.

**Tamarix passerinoides** Delile var. **macrocarpa** Ehrenb.

Suigao, S. L. Meena 17966 (BSJO).

## ELATINACEAE

**\*Bergia ammannioides** Roxb.

Jessore Wildlife Sanctuary.

**Bergia suffruticosa** (Delile) Fenzl

Gossan near Bhabhar, S. L. Meena 18324 (BSJO); Ambaji rivulets, R. S. Patel 2590 (SPU).

## MALVACEAE

**Abelmoschus manihot** (L.) Medik. subsp. **manihot**

Near Ranpur, R. S. Patel 2995 (SPU).

**Abelmoschus manihot** (L.) Medik. subsp. **tetraphyllus** (Roxb. ex Hornem.) Borss. Waalk. var. **pungens** (Roxb.) Hochr.

Hathidhara, S. L. Meena 18392; Balaram - Ambaji Wildlife Sanctuary, S. L. Meena 20810 (BSJO).

**Abutilon indicum** (L.) Sweet

Boru, S. L. Meena 18342; Hathidhara forest, S. L. Meena 17300; Yerda village near Sipu dam, S. K. Malhotra 8249; Koeschi, V. Singh 5302 (BSJO); Panssa rivulet; R. S. Patel 2592 (SPU).

**Abutilon pannosum** (Forst. f.) Schldtl.

Dhema - near Tharad, S. L. Meena 20719 (BSJO).

**Abutilon ramosum** (Cav.) Guill. & Perr.

Dantiwara forest, V. Singh 5379 (BSJO).

**Gossypium arboreum** L.

Jessore Wildlife Sanctuary, S. L. Meena 17955 (BSJO).

**Gossypium herbaceum** L.

Landhara near Sipu dam, S. K. Malhotra 8148 (BSJO).

**Hibiscus caesi** Garcke

Hathipagla near Ambaji, S. L. Meena 20828 (BSJO).

**Hibiscus lobatus** (Murray) Kuntze

Near Chikhla hills - Ambaji, R.S. Patel 2450 (SPU).

**Hibiscus micranthus** L.f. [= *Bombax micranthus* (L.f.) Riedl.]

Sundha near Balaram, S.L. Meena 18373 (BSJO); Doma village near Sipu dam, S.K. Malhotra 8254 (BSJO).

**Hibiscus sabdariffa** L.

Vikri near Hadad, S. L. Meena 20669 (BSJO); Ghonodhaia way near Sipu dam, S. K. Malhotra 8134 (BSJO).

**Hibiscus vitifolius** L. [= *Fioria vitifolius* (L.) Mattei]

Jessore Wildlife Sanctuary, S. L. Meena 18210 (BSJO).

**\*Kydia calycina** Roxb.

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

**Malvastrum coromandelianum** (L.) Garcke

Hathidhara forest, S. L. Meena 18241; near Chitrasani Railway crossing, S. L. Meena 20798 (BSJO).

**\*Pavonia arabica** Hochst. & Steud.

Balaram - Ambaji Wildlife Sanctuary.

**Pavonia zeylanica** (L.) Cav.

Khardia near Danta, S. L. Meena 18006 (BSJO); Dantiwara forest, V. Singh 5385; Mohadi way near Sipu dam, S. K. Malhotra 8193 (BSJO); Balaram, A. R. Menon 1163 (SPU).

**Sida acuta** Burm.f.

Chitrasani near Balaram, S. L. Meena 20798 (BSJO).

**Sida cordata** (Burm.f.) Borss. Waalk.

Jessore Wildlife Sanctuary, S. L. Meena 17888, 18224 (BSJO); Danta, V. Singh 5424 (BSJO); Balaram, A. R. Menon 1169; Gabbar road Ambaji, R. S. Patel 2598 (SPU).

**Sida cordifolia** L.

Amirgarh, S. L. Meena 20764; Atal village near Sipudam, S. K. Malhotra 8124 (BSJO); Ambaji, R. S. Patel 3598 (SPU).

**Sida mysorensis** Wight & Arn.

Trishula ghat, R. S. Patel 2078; Khermal, R. S. Patel 2467 (SPU).

**Sida ovata** Forssk.

Boru, S. L. Meena 18344 (BSJO); Therevada village near Sipu dam, S. K. Malhotra 8236 (BSJO);

Blaram, A. R. Menon 1165; Amirgarh, A. R. Menon 1945 (SPU).

**Sida spinosa** L.

Ambaji, A. R. Menon 1446 (SPU).

**\*Thespesia lampas** (Cav.) Dalzell

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

**Thespesia populnea** (L.) Sol. ex Correa.

Dolpura Hadad road, S. L. Meena 20679 (BSJO).

**Urena lobata L.**

On way to Panssa, R. S. Patel 2817 (SPU).

## BOMBACACEAE

**\*Adansonia digitata L.**

Jessore Wildlife Sanctuary.

**Bombax ceiba L.**

Near Shiri river, R. S. Patel 2745 (SPU).

## STERCULIACEAE

**\*Eriolaena stocksii** Hook. f. & Thomson ex Mast.

Danta forest, G. L. Shah 121 (SPU).

**Helicteres isora L.**

Jessore Wildlife Sanctuary, S. L. Meena 18211 (BSJO); Ambaji hills on way to Mt. Abu road, R. S. Patel 2783 (SPU).

**Melhania futteyporensis** Munro ex Mast. var. **futteyporensis**

Ambaji ghata - Hadad road, S. L. Meena 20675; Jessore Wildlife Sanctuary, S. L. Meena 18186 (BSJO).

**Melhania futteyporensis** Munro ex Mast. var. **major** (Blatt. & Hallb.) Santapau

Ambaji ghata on way to Hadad, S. L. Meena 20839 (BSJO).

**Melochia corchorifolia L.**

Kangura near Ambaji, S. L. Meena 20833 (BSJO); near Trishulia ghat, R. S. Patel 2818 (SPU).

**Sterculia urens** Roxb.

Hathidhara forest, S. L. Meena 18380 (BSJO); near Rinchhdiya Mahadev, R. S. Patel 2951 (SPU).

**Waltheria indica L.**

Jessore Wildlife Sanctuary, S. L. Meena 17939, 20624; Balaram temple, S. L. Meena 20812 (BSJO); Palanpur, V. Singh 5338 (BSJO); Ambaji, A. R. Menon 1410 (SPU).

## TILIACEAE

**Corchorus aestuans L.**

Jessore Wildlife Sanctuary, S. L. Meena 17909, 18138; Hathidhara forest, S. L. Meena 20804; Khara near Bhabhar, S. L. Meena 18199, 20695 (BSJO).

**Corchorus depressus** (L.) Stocks

Sipu dam, S. L. Meena 17973; Khara near Bhabhar, S. L. Meena 20700 (BSJO).

**Corchorus fascicularis** Lam.

Hathidhara forest, S. L. Meena 18391 (BSJO).

**Corchorus olitorius L.**

Ujjanwada, S. L. Meena 18335; Hathidhara, S. L. Meena 20805 (BSJO); Ambaji, R. S. Patel 10218 (SPU).

**Corchorus tridens L.**

Danta - Kheralu road, S. L. Meena 20818 (BSJO); Amirgarh, A. R. Menon 1926 (SPU).

**Corchorus trilocularis L.**

Amirgarh, A. R. Menon 1238 (SPU).

**Grewia damine** Gaertn.

Amirgarh hills, S. L. Meena 18100 (BSJO).

**Grewia flavescens** Juss.

Jessore Wildlife Sanctuary, S. L. Meena 17901; Amirgarh hills, S. L. Meena 18102 (BSJO).

**Grewia hirsuta** Vahl

Near Panssa forest, R. S. Patel 2694 (SPU).

**\*Grewia tenax** (Forssk.) Fiori

Jessore Wildlife Sanctuary.

**Grewia tiliifolia** Vahl

Pamodra near Danta, K. C. Patel 4364; Panssa village - Ambaji, R. S. Patel 2584 (SPU).

**Triumfetta bogotensis** DC. [= *Triumfetta pilosa* Roth]

Jessore Wildlife Sanctuary, S. L. Meena 18153; Hathidhara, S. L. Meena 18389 (BSJO).

**Triumfetta malabarica** J. König ex Rottb.

Jessore Wildlife Sanctuary, S. L. Meena 20625 (BSJO); near Ranpur, R. S. Patel 3561 (SPU).

**Triumfetta pentandra** A. Rich.

Sipu dam, S. L. Meena 20755 (BSJO).

**Triumfetta rhomboidea** Jacq.

Back side of Gabbar, R. S. Patel 2479 (SPU).

**Triumfetta rotundifolia** Lam.

Near Ranpur, R. S. Patel 3561 (SPU).

## LINACEAE

**Linum usitatissimum** L.

Therwada near Sipu dam, S. K. Malhotra 8232 (BSJO).

## MALPIGHIACEAE

**Aspidopterys cordata** (B. Heyne ex Wall.) A. Juss.

On the way, hills of Khawad (Danta), K. C. Patel 2383 (SPU).

## ZYGOPHYLLACEAE

**Fagonia indica** Burm. f.

Jaloya near Suigao, S. L. Meena 18345 (BSJO).

**Fagonia paulayena** J. Wagner & Vierb. [= *Fagonia schweinfurthii* (Hadidi) Nabil & Hadidi]

Bardia near Tharad, S. L. Meena 20718 (BSJO); Amirgarh, A. R. Menon 1965 (SPU).

**\*Peganum harmala** L. var. **stenophyllum** Boiss.

Balaram - Ambaji Wildlife Sanctuary.

**Tribulus terrestris** L.

Hathidhara forest, S. L. Meena 17803 (BSJO); Ghanodhara village near Sipu dam, S. K. Malhotra 8165 (BSJO); Balaram - Ambaji Wildlife Sanctuary, S. K. Patel 4658; Amirgarh, A. R. Menon 1238 (SPU).

## OXALIDACEAE

**Oxalis corniculata** L.

On way to Mader temple. R. S. Patel 2643 (SPU).

**Oxalis deppei** Lodd. ex Sweet

Suigao pond, S. L. Meena 20731 (BSJO).

## BALSAMINACEAE

**Impatiens balsamina** L. var. **coccinea** (Wall.) Hook.f.

Jessore Wildlife Sanctuary, S. L. Meena 18128 (BSJO); Ambaji, R. S. Patel 2001 (SPU).

## RUTACEAE

**Aegle marmelos** (L.) Correa

Jessore Wildlife Sanctuary, S. L. Meena 18219 (BSJO); Ambaji, G. V. Gopal 1656 (SPU).

**Limonia acidissima** L.

Harionz - Danta, S. L. Meena 17815; Kangura near Ambaji, S. L. Meena 18251 (BSJO); Ambaji, A. R. Menon 1842 (SPU).

**Naringi crenulata** (Roxb.) Nicolson

Koteshwar road, R. S. Patel 2474 (SPU).

## SIMAROUBACEAE

**Ailanthus excelsa** Roxb.

Kangura near Ambaji, S. L. Meena 20691 (BSJO); Ghanodhara village near Sipu dam, S. K. Malhotra 8205 (BSJO).

## BALANITACEAE

**Balanites aegyptiaca** (L.) Delile

Jajarva, S. K. Patel 4654; Balaram, A. R. Menon 1175; Amirgarh, A. R. Menon 1475 (SPU).

## BURSERACEAE

**Boswellia serrata** Roxb.

Jessore Wildlife Sanctuary, S. L. Meena 20628 (BSJO); on way to Balaram, R. S. Patel 2788 (SPU).

**\*Commiphora wightii** (Arn.) Bhandari

Balaram-Ambaji Wildlife Sanctuary and Jessore Wildlife Sanctuary.

## MELIACEAE

**Azadirachta indica** Juss.

Near Rabaran valo bhankhro, R. S. Patel 3567 (SPU).

**Melia azedarach** L.

Damarampura near Palanpur, S. L. Meena 17857; Deesa, S. L. Meena 18293 (BSJO); near Ranpur, R. S. Patel 25339 (SPU).

**Soymida febrifuga** (Roxb.) Juss.

On way to Ganodhara near Sipu dam, S. K. Malhotra 8128 (BSJO); Kuvasari, R. S. Patel 10335 (SPU).

## CELASTRACEAE

**Celastrus paniculatus** Willd.

Machhola, R. S. Patel 10345 (SPU).

**Gymnosporia emarginata** (Willd.) Thwaites [= *Maytenus emarginata* (Willd.) Ding Hou]

Khardia near Danta, S. L. Meena 18007; Danta - Ambaji road, S. L. Meena 20638 (BSJO); Palanpur, V. Singh 5344 (BSJO); Mohadi, S. K. Malhotra 8189 (BSJO); Balaram, A. R. Menon 1174 (SPU).

## RHAMNACEAE

**Ziziphus glabrata** B. Heyne ex Roth

Danta, G.L. Shah 155 (SPU).

**Ziziphus horrida** Roth

Ambaji, A. R. Menon 1409 (SPU).

**Ziziphus mauritiana** Lam.

Jessore Wildlife Sanctuary, S. L. Meena 17940; Amirgarh hills, S. L. Meena 18000; Balaram, S. L. Meena 17980 (BSJO).

**Ziziphus nummularia** (Burm. f.) Wight & Arn.

Jaloya near Suigao, S. L. Meena 18350; Bardia near Tharad, S. L. Meena 20716 (BSJO); Kotra village near Sipu dam, S. K. Malhotra 8212 (BSJO); Balaram, R. S. Patel 3448 (SPU).

**Ziziphus oenoplia** (L.) Mill.

Ambaji forest, S. L. Meena 20820; Danta, S. L. Meena 18264 (BSJO).

**Ziziphus xylopyra** (Retz.) Willd.

Amirgarh near Ghanga village, S. L. Meena 20780 (BSJO).

## VITACEAE

**Ampelocissus latifolia** (Roxb.) Planch.

Jessore Wildlife Sanctuary, S. L. Meena 17924, 18133 (BSJO), Ambaji - Jatvas, R. S. Patel 3473 (SPU).

**Cayratia trifolia** (L.) Domin

Jessore Wildlife Sanctuary, S. L. Meena 18129; Manpuria - Jessore Wildlife Sanctuary, S. L. Meena 18202; Pothanwada, S. L. Meena 20763 (BSJO); Ambaji, R. S. Patel 2608 (SPU).

**Cissus latifolia** Lam.

Jessore Wildlife Sanctuary, S. L. Meena 18133 (BSJO).

**Cissus quadrangularis** L.

Balundra - Jessore Wildlife Sanctuary, S. L. Meena 18069 (BSJO).

**\*Cissus repanda** (Wight & Arn.) Vahl

Jessore Wildlife Sanctuary.

## SAPINDACEAE

**Cardiospermum halicacabum** L.

Jessore Wildlife Sanctuary, S. L. Meena 17882, 17946; Amirgarh hills, S. L. Meena 18098 (BSJO).

**Sapindus trifoliatu**s L. [= *Sapindus emarginatus* Vahl]

Danta, V. Singh 5430 (BSJO).

**Sapindus laurifolius** Vahl

Dhuri (Palanpur - Danta road), S. L. Meena 20694; Kangura forest near Ambaji, S. L. Meena 20834 (BSJO); Ambaji, A. R. Menon 1376; Ranpur hills Ambaji, R. S. Patel 3497 (SPU).

**Schleichera oleosa** (Lour.) Merr.

Balaram, S. L. Meena 20816 (BSJO).

## ANACARDIACEAE

**Anacardium occidentale** L.

Danta, S. L. Meena 20659 (BSJO).

\***Buchanania cochinchinensis** (Lour.) M. R. Almeida

Balaam - Ambaji Wildlife Sanctuary.

**Lannea coromandelica** (Houtt.) Merr.

Jessore Wildlife Sanctuary, S. L. Meena 17828, Balaram, S.L. Meena 17852 (BSJO); near Hadad, R.S. Patel 2640; Ambaji, R. S. Patel 2558 (SPU).

**Mangifera indica** L.

Jessore Wildlife Sanctuary, S. L. Meena 18400 (BSJO); Rinchhadi near Ambaji, R. S. Patel 2789 (SPU).

MORINGACEAE

**Moringa concanensis** Nimmo ex Dalzell. & A. Gibson

Danta, V. Singh 5414 (BSJO); near Panssa, R. S. Patel 10171 (SPU).

\***Moringa oleifera** Lam.

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

LEGUMINOSAE : PAPILIONOIDEAE

**Abrus precatorius** L.

Jessore Wildlife Sanctuary, S. L. Meena 18215; Khardia, S. L. Meena 18010 (BSJO).

**Aeschynomene indica** L.

Kangura - Ambrapani near Ambaji, S. L. Meena 18040; Jessore Wildlife Sanctuary, S. L. Meena 20793; Suigao, S. L. Meena 20729 (BSJO).

**Alysicarpus hamosus** Edgew.

Koteswar, R. S. Patel 2419 (SPU).

**Alysicarpus longifolius** (Spreng.) Wight & Arn.

Amirgarh, A. R. Menon 1975 (SPU).

**Alysicarpus monilifer** (L.) DC.

Habatpur, S. L. Meena 18397 (BSJO); Ambaji, R. S. Patel 2469 (SPU).

**Alysicarpus vaginalis** (L.) DC.

Jessore Wildlife Sanctuary, S. L. Meena 17878 (BSJO); Kumbhariya-Ambaji, R. S. Patel 10026 (SPU).

**Butea monosperma** (Lam.) Taub.

Ambaji - Danta road, S. L. Meena 20647 (BSJO); Balli village near Sipu dam, S. K. Malhotra 8169 (BSJO); Amirgarh, A. R. Menon 1084; Ambaji near Panssa, R. S. Patel 2647 (SPU).

**Butea superba** Roxb.

Kedarnath - Jessore Wildlife Sanctuary, S. K. Patel 4617 (SPU).

**Cajanus cajan** (L.) Millsp.

Khara - Jessore Wildlife Sanctuary, S. L. Meena 20608; Avada village, S.L. Meena 17935, 17937; (BSJO).

**Cajanus scarabaeoides** (L.) Thouare

Ambaji, A. R. Menon 1414 (SPU).

**Canavalia africana** Dunn

Manpuria - Jessore Wildlife Sanctuary, S. L. Meena 17952 (BSJO).

**Canavalia ensiformis** (L.) DC.

Avada village near Jessore Wildlife Sanctuary, S.L. Meena 17937 (BSJO); Ambaji, A.R. Menon 1458 (SPU).

**Canavalia rosea (Sw.) DC.** [= *Canavalia maritima* (Aubl.) Thouare]

Ambaji, A.R. Menon 1458 (SPU).

**Clitoria annua J. Grahara** [= *Clitoria biflora* Dalzell]

Rinchhidiya village, R. S. Patel 2968 (SPU).

**Clitoria ternatea L.**

Chandisar, S. L. Meena 18398 (BSJO); Matasur bhankharo near Ambaji, R. S. Patel 10333 (SPU).

**Crotalaria burhia Benth.**

Gangasagar area near Balaram, S. L. Meena 17997; Peluta (Tharad - Sanchor road), S. L. Meena 18283; Goth, S. L. Meena 17809 (BSJO); Palanpur, V. Singh 5310 (BSJO); Jajara, S. K. Patel 4638; Balaram, A. R. Menon 1848 (SPU).

**Crotalaria hebecarpa (DC.) Rudd**

Masali near Ambaji, S. L. Meena 18353; Ambaji forest, S. L. Meena 20843 (BSJO); Ambaji, R. S. Patel 10149; Amirgarh, A. R. Menon 1929 (SPU).

**Crotalaria hirsuta Willd.**

Jessore Wildlife Sanctuary, S. L. Meena 18179 (BSJO); near Panssa, R. S. Patel 2597 (SPU).

**Crotalaria linifolia L.f.**

Dhava vali vav - Ambaji, M. J. Kothari 50; near Panssa, R. S. Patel 2898 (SPU).

**Crotalaria medicaginea Lam.**

Jessore Wildlife Sanctuary, S. L. Meena 17912; Hathidhara forest, S. L. Meena 17298 (BSJO).

**Crotalaria retusa L.**

Ambaji, R. S. Patel 10326 (SPU).

**\*Cullen corylifolium (L.) Medik.** [= *Psoralea corylifolia* L.]

Balaram - Ambaji Wildlife Sanctuary.

**Cullen plicatum (Delile) C. H. Stirt.** [= *Psoralea plicata* Delile]

Ujjanwada near Bhabhar, S. L. Meena 20739 (BSJO).

**Dalbergia lanceolaria L.f.**

Surilo bhankhro, R. S. Patel 10199 (SPU).

**\*Dalbergia latifolia Roxb.**

Balaram - Ambaji Wildlife Sanctuary.

**Dalbergia paniculata Roxb.**

Ambaji, R. S. Patel 10139 (SPU).

**Dalbergia sissoo DC.**

Dairy near Iqbalgarh, S. L. Meena 18071; Ambaji, S. L. Meena 18272; Rampura - Palanpur, S. L. Meena 20815 (BSJO).

**Desmodium gangeticum (L.) DC.**

Jessore Wildlife Sanctuary, S. L. Meena 20791 (BSJO); back side of Gabbar, R. S. Patel 2428 (SPU).

**Desmodium neomexicanum A. Gray**

Near Trishula Devi - Ambaji, R. S. Patel 2584; Koteswar near Ambaji, M. J. Kothari 443 (SPU).

**Desmodium procumbens** (Mill.) Hutch.

Hathidhara forest, S. L. Meena 18243; Jessore Wildlife Sanctuary, S. L. Meena 20623 (BSJO).

**\*Desmodiastrum ramosam** (Benth.) A. Pramanik & Thoth. var. *rotundifolium* (Baker) A. Pramanik & Thoth.  
[=*Desmodium ritchiei* Sanjappa]

Balaram - Ambaji Wildlife Sanctuary.

**\*Desmodium triflorum** (L.) DC.

Jessore Wildlife Sanctuary.

**Erythrina suberosa** Roxb.

Virampur, R. S. Patel 3411 (SPU).

**Indigofera cordifolia** Roth

Jessore Wildlife Sanctuary, S. L. Meena 18182; Ajvada near Amirgarh, S. L. Meena 18286; Amirgarh hills, S. L. Meena 18089; Hathidhara forest, S. L. Meena 18237 (BSJO).

**\*Indigofera glandulosa** Wendl.

Balaram - Ambaji Wildlife Sanctuary.

**\*Indigofera astragalina** DC.

Balaram, S. L. Meena 17985 (BSJO).

**\*Indigofera hochstetteri** Baker

Balaram - Ambaji Wildlife Sanctuary.

**Indigofera linifolia** (L. f.) Retz.

Deesa, S. L. Meena 18278 (BSJO).

**Indigofera linnaei** Ali

Ajanvada near Sanchor, S. L. Meena 18284; Khara near Bhabhar, S. L. Meena 20708 (BSJO); near Trishula ghat - Ambaji, R. S. Patel 2942 (SPU).

**Indigofera oblongifolia** Forssk.

Jessore Wildlife Sanctuary, S. L. Meena 18297; Balundra - Jessore Wildlife Sanctuary, S. L. Meena 20633; Ujjanwada near Bhabhar, S. L. Meena 20738 (BSJO); near Hathipagla - Ambaji, R. S. Patel 10092; Amirgarh, A. R. Menon 1786; Balaram, G. L. Shah 732 (SPU).

**\*Indigofera karnatakana** Sanjappa

Balaram - Ambaji Wildlife Sanctuary.

**Indigofera tinctoria** L.

Manpuria - Jessore Wildlife Sanctuary, S. L. Meena 17945; Dabhi near Suigao, S. L. Meena 18358 (BSJO); Miravas, R. S. Patel 10034 (SPU).

**\*Indigofera trita** L. f.

Jessore Wildlife Sanctuary, S. L. Meena 17875, 18135, 18180 (BSJO); Begadiya near Ambaji, R. S. Patel 2988 (SPU).

**\*Lathyrus aphaca** L.

Balaram - Ambaji Wildlife Sanctuary.

**\*Lathyrus sativus** L.

Balaram - Ambaji Wildlife Sanctuary.

**\**Medicago laciniata* (L.) Mill.**

Balaram - Ambaji Wildlife Sanctuary.

***Melilotus albus* Medik.**

Balaram, G. V. Gopal 931 (SPU).

***Melilotus indicus* (L.) All.**

Balaram, G. L. Shah 510; Rinchhadi near Ambaji, R. S. Patel 2552 (SPU).

***Millettia pinnata* (L.) Panigrahi [= *Pongamia pinnata* (L.) Pierre]**

Bagdari river near Balaram, S. L. Meena 17258 (BSJO); Ambaji, A. R. Menon 1395; Koteswar near Ambaji, R. S. Patel 2519 (SPU).

***Mucuna pruriens* (L.) DC.**

Badargarh near Amirgarh, S. L. Meena 18003; Palanpur, V. Singh 5350 (BSJO); Sanoli near Ambaji, R. S. Patel 3509 (SPU).

***Ougeinia oogeinensis* (Roxb.) Hochr.**

Matasur bhanharo - Ambaji, R. S. Patel 10098 (SPU).

**\**Pseudarthria viscida* (L.) Wight & Arn.**

Balaram - Ambaji Wildlife Sanctuary.

**\**Pueraria tuberosa* (Willd.) DC.**

Balaram - Ambaji Wildlife Sanctuary.

**\**Rhynchosia bracteata* Baker**

Balaram - Ambaji Wildlife Sanctuary.

***Rhynchosia capitata* (Roth) DC.**

Balundra - Jessore Wildlife Sanctuary, S. L. Meena 20630 (BSJO); Ganapipadi, R. S. Patel 10334 (SPU).

***Rhynchosia minima* (L.) DC.**

Jessore Wildlife Sanctuary, S. L. Meena 17927, 18197 (BSJO); Bhadarpur, V. Singh 5350 (BSJO); Ambaji, A. R. Menon 14087 (SPU).

***Sesbania bispinosa* (Jacq.) W. Wight**

Ambaji, M. J. Kothari 382 (SPU).

***Sesbania sesban* (L.) Merr.**

Kanodar near Palanpur, V. Singh 5431 (BSJO).

**\**Smitha conferta* Sm.**

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

**\**Smitha sensitiva* Aiton**

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

**\**Taverniera cuneifolia* (Roth) Arn.**

Jessore Wildlife Sanctuary.

***Tephrosia apollinea* (Delile) Link**

Ambaji, S. L. Meena 20819 (BSJO).

**\**Tephrosia coccinia* Wall.**

Balaram - Ambaji Wildlife Sanctuary.

**Tephrosia falciformis** Ramasw.

Tharad - Sanchor road, S. L. Meena 20746 (BSJO).

**Tephrosia pumila** (Lam.) Pers.

Hathidhara, S. L. Meena 18239; Amirgarh hills, S. L. Meena 18101 (BSJO).

**Tephrosia purpurea** (L.) Pers.

Kangura - Umbarpani near Ambaji, S. L. Meena 18043; Jessore Wildlife Sanctuary, S. L. Meena 18176, 18187; Tharad, S. L. Meena 18282, 20710; Mespura near Bhabhar, S. L. Meena 18339; Suigao, S. L. Meena 20722 (BSJO).

**Tephrosia purpurea** (L.) Pers. subsp. **leptostachya** (DC.) Brummitt [= *Tephrosia leptostachya* DC.]

Tharad, S. L. Meena 17860 (BSJO).

**Tephrosia strigosa** (Dalzell) Santapau & Maheshw.

Jessore Wildlife Sanctuary, S. L. Meena 17904; Amirgarh hills, S. L. Meena 18113; Bagri near Tharad, S. L. Meena 20747 (BSJO).

**Tephrosia subtriflora** Baker

Jessore Wildlife Sanctuary, S. L. Meena 18173 (BSJO).

**Tephrosia uniflora** Pers. subsp. **petrosa** (Blatt. & Hallb.) J. B. Gillett & Ali

Amirgarh hills, S. L. Meena 20779 (BSJO).

**Tephrosia villosa** (L.) Pers.

Jessore Wildlife Sanctuary, S. L. Meena 17906, 18181; Khardia, S. L. Meena 18011; Tharad, S. L. Meena 18280; Amirgarh hills, S. L. Meena 18107 (BSJO).

**Teramnus labialis** (L. f.) Spreng.

Jessore Wildlife Sanctuary, S. L. Meena 20782, 20792 (BSJO); Nalnadi near Ambaji, R. S. Patel 3515; Amirgarh, A. R. Menon 1968 (SPU).

**Trigonella occulta** Ser.

Ujjanwada (Bhabhar - Radhanpur road), S. L. Meena 18307 (BSJO).

**Vigna angularis** (Willd.) Ohwi & H. Ohashi

Ruppur village near Ambaji, R. S. Patel 3481 (SPU).

**Vigna trilobata** (L.) Verdc.

Panssa near Ambaji, R. S. Patel 2063 (SPU).

**Vigna umbellata** (Thunb.) Ohwi & H. Ohashi

Hathidhara, S. L. Meena 18027; Jessore Wildlife Sanctuary, S. L. Meena 18206; Amirgarh, S. L. Meena 20766 (BSJO).

**Vigna unguiculata** (L.) Walp. subsp. **cylindrica** (L.) Verdc.

Ambaji, M. J. Kothari 399 (SPU).

**Zornia gibbosa** Span

Jessore Wildlife Sanctuary, S. L. Meena 17913, 18184; Amirgarh hills, S. L. Meena 18088 (BSJO); Amirgarh, A. R. Menon 1974 (SPU).

## LEGUMINOSAE : CAESALPINIOIDEAE

**\*Bauhinia malabarica** Roxb. [= *Pilostigma malabarica* (Roxb.) Benth.]

Jessore and Balaram - Ambaji Wildlife Sanctuary.

**\*Bauhinia purpurea L.**

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

**Bauhinia racemosa Lam.**

Virampur, S. L. Meena 17290 (BSJO).

**Bauhinia variegata L.**

Dantiwara, S. L. Meena 17844 (BSJO).

**Caesalpinia bonduc (L.) Roxb.**

Balaram, S. L. Meena 18249; Hasanpur near Hathidhara, S. L. Meena 18395 (BSJO).

**Cassia fistula L.**

Jessore Wildlife Sanctuary, S. L. Meena 17824; Kangura near Ambaji, S. L. Meena 18246 (BSJO); Ambaji, A. R. Menon 1432, 1436 (SPU).

**Cassia roxburghii DC.**

Manpuria - Jessore Wildlife Sanctuary, S. L. Meena 17954 (BSJO).

**Chamaecrista absus (L.) H.S. Irwin & Barneby**

Ambaji, R. S. Patel 10198 (SPU).

**\*Chamaecrista pumila (Lam.) V. Singh**

Jessore Wildlife Sanctuary.

**Delonix elata (L.) Gamble**

Soneth - Dudosan road, S. L. Meena 18356 (BSJO); Jagal village near Sipu dam, S. K. Malhotra 8210 (BSJO).

**Delonix regia (Hook.) Raf.**

Kanpuria, S. L. Meena 17268 (BSJO); Amirgarh, A. R. Menon 1104 (SPU).

**Parkinsonia aculeata L.**

Balaram, G. V. Gopal 974 (SPU).

**Peltophorum pterocarpum (DC.) K. Heyne**

Hadad, S. L. Meena 18270 (BSJO).

**Senna alata (L.) Roxb.**

Poathanwada, S. L. Meena 20761 (BSJO).

**Senna alexandrina Mill.**

Deodar near Tharad, S. L. Meena 20711 (BSJO).

**Senna auriculata (L.) Roxb.**

Pindagadha - Deema near Ambaji, S. L. Meena 17294 (BSJO); Jajarva, S. K. Patel 4644; Balaram, S. K. Patel 1156 (SPU).

**Senna occidentalis (L.) Link**

Dairy near Iqbalgarh, S. L. Meena 18070; Jessore Wildlife Sanctuary, S. L. Meena 20626 (BSJO); Panssa near Ambaji, R. S. Patel 10001 (SPU).

**Senna italica Mill.**

Tharad, S. L. Meena 17858; Mespura near Bhabhar, S. L. Meena 18338 (BSJO).

\***Senna siamea** (Lam.) H.S. Irwin & Barneby

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

**Senna tora** (L.) Roxb.

Ambaji, S. L. Meena 20821 (BSJO).

**Tamarindus indica** L.

Jessore Wildlife Sanctuary, S. L. Meena 18008 (BSJO).

LEGUMINOSAE : MIMOSOIDEAE

**Acacia auriculiformis** Benth.

Ambaji opp. Forest bungalow near mines, S. L. Meena 18274 (BSJO).

**Acacia catechu** (L.f.) Willd.

Chapri nala near Ambaji, S. L. Meena 20801; Jessore Wildlife Sanctuary, S. L. Meena 17892; Balaram, S. L. Meena 17224 (BSJO).

**Acacia chundra** (Rottl.) Willd.

Gabbar nursery area near Ambaji, S. L. Meena 18046 (BSJO).

**Acacia farnesiana** (L.) Willd.

Panssa near Ambaji, R. S. Patel 10268 (SPU).

**Acacia jacquemontii** Benth.

Soneth - Dedosan road, S. L. Meena 18355 (BSJO); Jajara, S. K. Patel 4649 (SPU).

**Acacia leucophloea** (Roxb.) Willd.

Damarampura near Palanpur, S. L. Meena 17856; Manpuria - Jessore Wildlife Sanctuary, S. L. Meena 17949; Gabbar river - Ambaji, S. L. Meena 18254 (BSJO).

**Acacia nilotica** (L.) Delile. subsp. **indica** (Benth.) Brenan

Dhanera - Pothanwada, S. L. Meena 20748 (BSJO); Balaram, A. R. Menon 1178; Amirgarh, A. R. Menon 1180, 1470 (SPU).

**Acacia pennata** (L.) Willd.

Hathidhara forest, S. L. Meena 18029, 18229; Jessore Wildlife Sanctuary, S. L. Meena 18222, 20790 (BSJO).

**Acacia senegal** (L.) Willd.

Gangasagar - Amirgarh hills, S. L. Meena 17998; Manpuria - Jessore Wildlife Sanctuary, S. L. Meena 18193; Iqbalgarh near Banas river, S. L. Meena 20802 (BSJO).

**Acacia tortilis** (Forssk.) Hayne

Dantiwara dam, S. L. Meena 17847 (BSJO); Raheniyo bhankharo on slopes, R. S. Patel 2416 (SPU).

**Albizia lebbeck** (L.) Benth.

Vadaval, S. L. Meena 20753 (BSJO).

**Albizia odoratissima** (L.f.) Benth.

Gabbar, R. S. Patel 10079 (SPU).

**Albizia procera** (Roxb.) Benth.

Hadad, R. S. Patel 10081 (SPU).

**Dichrostachya cinerea** (L.) Wight & Arn.

Bhaila, S. L. Meena 17269; Jessore Wildlife Sanctuary, S. L. Meena 17893 (BSJO); Ambaji, A. R. Menon 1423; Amirgarh, A. R. Menon 1105, 1434 (SPU).

**Lysiloma latisiliqua** (L.) Benth. [= *Leucaena latisiliqua* (L.) Gillis & Stearn]

Sherpur - Palanpur road, S. L. Meena 17990 (BSJO); Hadad, R. S. Patel 10114 (SPU).

**Mimosa hamata** Willd.

Manpuria - Jessore Wildlife Sanctuary, S. L. Meena 17947, 18191 (BSJO).

**Mimosa pudica** L.

Chandisar, S. L. Meena 18054 (BSJO).

**Pithecellobium dulce** (Roxb.) Benth.

Jessore Wildlife Sanctuary, S. L. Meena 20636 (BSJO); Ambaji, A. R. Menon 1396 (SPU).

**Prosopis cineraria** (L.) Druce

Mohadi village, S. K. Malhotra 8185; Dantiwara forest, V. Singh 5371 (BSJO); Chotta Bamodra near Ambaji, R. S. Patel 3471 (SPU).

**Prosopis juliflora** (Sw.) DC.

Hadad, R. S. Patel 10229 (SPU).

## ROSACEAE

**Potentilla supina** L.

Jessore Wildlife Sanctuary, S. L. Meena 20631 (BSJO).

## COMBRETACEAE

**Anogeissus acuminata** (Roxb. ex DC.) Guill. & Perr.

Jessore Wildlife Sanctuary, S. L. Meena 17873; Amirgarh hills, S. L. Meena 18104; Gabbar river-Ambaji, S. L. Meena 20837 (BSJO).

**Anogeissus latifolia** (Roxb. ex DC.) Wall. ex Bedd.

Ghanga near Amirgarh, S. L. Meena 20777 (BSJO); Balaram, G. V. Gopal 2041 (SPU).

**Anogeissus sericea** Brandis var. **sericea**

Jessore Wildlife Sanctuary, S. L. Meena 20609 (BSJO).

**Anogeissus sericea** Brandis var. **nummularia** King ex Duthie

Balaram, S. L. Meena 17292 (BSJO).

**Terminalia bellirica** (Gaertn.) Roxb.

Ambaji, A. R. Menon 1439 (SPU).

**Terminalia chebula** Retz.

Jessore Wildlife Sanctuary, S. L. Meena 18214 (BSJO).

**Terminalia cuneata** Roth

Balaram temple, S. L. Meena 17994 (BSJO); G. L. Shah 15131 (SPU).

**Terminalia elliptica** Willd.

Balaram, S. L. Meena 17852 (BSJO); Kedarnath - Jessore Wildlife Sanctuary, S. K. Patel 4623 (SPU); Matasur bhankhro, R. S. Patel 10016 (SPU).

## MYRTACEAE

**Eucalyptus camaldulensis** Dehnh.

Urodara near Danta, S. L. Meena 18269 (BSJO).

**Syzygium cumini** (L.) Skeels

Chivari near Danta, S. L. Meena 20657 (BSJO).

**Syzygium jambos** (L.) Alston

Jessore Wildlife Sanctuary, S. L. Meena 17826 (BSJO).

**Syzygium salicifolium** (Wight) J. Graham [= *Syzygium heyneanum* (Duthie) Gamble]

Near Gannapipadi village near Ambaji, R. S. Patel 2503 (SPU).

## LYTHRACEAE

**Ammannia baccifera** L.

Chichodra, S. L. Meena 18319; Gabbar river area - Ambaji, S. L. Meena 20652 (BSJO); Ambaji, A. R. Menon 1397; Balaram, G. V. Gopal 1002, 1085 (SPU).

**Ammannia multiflora** Roxb.

Menagar bhankhro - Ambaji, R. S. Patel 10222 (SPU).

**Lawsonia inermis** L.

Balaram, S. L. Meena 17853; Manpuria - Jessore Wildlife Sanctuary, S. L. Meena 17951 (BSJO).

**Rotala serpyllifolia** (Roth) Bremek.

Jorapura - Hadad road, S. L. Meena 20677 (BSJO).

**Woodfordia fruticosa** (L.) Kurz

Balaram, G. V. Gopal 468 (SPU).

## ONAGRACEAE

**Ludwigia hyssopifolia** (G. Don) Exell

Jessore Wildlife Sanctuary, S. L. Meena 18177 (BSJO).

**Ludwigia octovalvis** (Jacq.) P. H. Raven [= *Ludwigia octovalvis* (Jacq.) P. H. Raven subsp. *sessiliflora* (Michx.) P. H. Raven]

Near Hadad, R. S. Patel 10152 (SPU).

**Ludwigia perennis** L.

Manpuria - Jessore Wildlife Sanctuary, S. L. Meena 18204; Ambaji on way to Danta road, S. L. Meena 20649 (BSJO).

**Ludwigia prostrata** Roxb.

Gabbar river near Ambaji, S. L. Meena 18047; Dantiwara dam, S. L. Meena 20604 (BSJO).

## TRAPACEAE

**Trapa natans** L. var. **bispinosa** (Roxb.) Makino

Ghanga near Amirgarh, S. L. Meena 20784 (BSJO).

## PASSIFLORACEAE

**\*Passiflora edulis** Sims

Balaram - Ambaji Wildlife Sanctuary.

## CUCURBITACEAE

**Citrullus colocynthis** (L.) Schrad.

Ranwas, S. L. Meena 18396 (BSJO); Palanpur, V. Singh 5329 (BSJO); Advan bhankhro, R. S. Patel 3533 (SPU).

**Citrullus lanatus** (Thunb.) Matsum. & Nakai

Karagari near Hathidhara, S. L. Meena 18375 (BSJO).

**Coccinia grandis** (L.) Voigt

Dhanda, S. L. Meena 17814; Dantiwara, S. L. Meena 17839; Ghodha, S. L. Meena 17820; Mota cabra, S. L. Meena 17956; Dabhi near Suigao, S. L. Meena 18057; Danta, S. L. Meena 18257; Fathegarh near Sihori, S. L. Meena 18369 (BSJO).

**Ctenolepis cerasiformis** (Stocks) C. B. Clarke

Jessore Wildlife Sanctuary, S. L. Meena 18165 (BSJO), Amirgarh, A. R. Menon 1953 (SPU).

**Ctenolepis garcinii** (L.) C. B. Clarke

Jessore Wildlife Sanctuary, S. L. Meena 17991 (BSJO); Atal village near Sipu dam, S. K. Malhotra 8113 (BSJO); Koteswar near Ambaji, R. S. Patel 2996 (SPU).

**Cucumis melo** L.

Hathidhara forest, S. L. Meena 18233, 18388 (BSJO).

**Cucumis prophetarum** L.

Jessore Wildlife Sanctuary, S. L. Meena 18203 (BSJO); Jajara, S. K. Patel 4646 (SPU).

**\*Cucumis sativus** L. [*Cucumis setosus* Cogn.]

Balaram - Ambaji Wildlife Sanctuary.

**Cucurbita maxima** Duchesne.

Gabbar - road side, R. S. Patel 3523 (SPU).

**Dactyliandra welwitschii** Hook. f.

Deema near Deesa, S. L. Meena 18296 (BSJO).

**Diplocyclos palmatus** (L.) Jeffrey

Hathidhara forest, S. L. Meena 20807 (BSJO).

**Luffa acutangula** (L.) Roxb. [= *Luffa acutangula* (L.) Roxb. var. *amara* C. B. Clarke]

Tharad, S. L. Meena 17959; Danta, S. L. Meena 18263; Amirgarh hills, S. L. Meena 18097; Gabbar nursery area Ambaji, S. L. Meena 20829 (BSJO).

**Luffa cylindrica** (L.) M. Roem.

Ambaji, R. S. Patel 10208 (SPU).

**Luffa echinata** Roxb.

Ambaji Wildlife Sanctuary, S. L. Meena 20778 (BSJO).

**Momordica balsamina** L.

Pindagadha, S. L. Meena 17293; Jessore Wildlife Sanctuary, S. L. Meena 17848; Dairy near Iqbalgarh, S. L. Meena 18073; Dantiwara, S. L. Meena 17848; Hathidhara, S. L. Meena 18236 (BSJO).

**Momordica charantia** L.

Gabbar near Ambaji, R. S. Patel 2012 (SPU).

**Momordica dioica** Roxb. ex Willd.

Surana near Sihori - Bhabhar, S. L. Meena 20743 ; Deodar near Tharad, S. L. Meena 20712; Taroda near Dhanera, S. L. Meena 20752 ; Amirgarh, S. L. Meena 18075 (BSJO).

**Mukia maderaspatana** (L.) M. Roem.

Manpur - Bhabhar, S. L. Meena 18302 (BSJO).

**Trichosanthes cucumerina** L.

Manpuria, S. L. Meena 17950; Amirgarh hills, S. L. Meena 18095; Jessore Wildlife Sanctuary, S. L. Meena 18218 (BSJO).

**Trichosanthes tricuspidata** Lour.

Amirgarh, S. L. Meena 20783 (BSJO).

## CACTACEAE

**\*Opuntia elatior** Mill.

Balaram - Ambaji Wildlife Sanctuary.

## AIZOACEAE (FICOIDEAE)

**Sesuvium portulacastrum** (L.) L.

Suigao, S. L. Meena 17965 (BSJO).

**Sesuvium sesuvioides** (Fenzl.) Verdc.

Deodar near Tharad, S. L. Meena 20713 (BSJO).

**Trianthema portulacastrum** L.

Tatoda on way to Dhanera, S. L. Meena 20750 (BSJO).

**\*Zaleya decandra** (L.) Burm. f.

Balaram - Ambaji Wildlife Sanctuary.

**Zaleya pentandra** (L.) C. Jeffrey

Fathegarh, S. L. Meena 18370 (BSJO).

## MOLLUGINACEAE

**Glinus lotoides** L.

Roita near Bhabhar - Radhanpur road, S. L. Meena 18327 (BSJO); Ghanyara near Palanpur, V. Singh 5404 (BSJO); Amirgarh, A. R. Menon 1088; Kedarnath - Jessore, S. K. Patel 4630 (SPU).

**Mollugo cerviana** (L.) Ser.

Chandisar, S. L. Meena 18055 (BSJO); Palanpur, V. Singh 5333 (BSJO); Panssa near Ambaji, R. S. Patel 2922 (SPU).

**Mollugo pentaphylla** L.

Ruppura, R. S. Patel 3453 (SPU).

**Mollugo nudicaulis** Lam.

Jessore Wildlife Sanctuary, S. L. Meena 17932 (BSJO); Palanpur, V. Singh 5330 (BSJO).

**Mollugo stricta** L.

Jessore Wildlife Sanctuary, S. L. Meena 18151 (BSJO).

APIACEAE (UMBELLIFERAE *nom. alt.*)**Pimpinella heyneana** (DC.) Kurz

Panssa near Ambaji, R. S. Patel 10291 (SPU).

## ALANGIACEAE

**Alangium salvifolium** (L.f.) Wangerin

Hathidhara forest, S. L. Meena 18025; Jessore Wildlife Sanctuary, S. L. Meena 17271 (BSJO).

## RUBIACEAE

**Catunaregam spinosa** (Thunb.) Tirveng.

Ambaji, R. S. Patel 2969 (SPU).

**Ceriscoides turgida** (Roxb.) Tirveng

Jessore Wildlife Sanctuary, S. L. Meena 20635 (BSJO).

**Dentella repens** (L.) J. R. Forst. & G. Forst.

Koteshwar near river, R. S. Patel 10364 (SPU).

**Haldina cordifolia** (Roxb.) Ridsdale

Jessore Wildlife Sanctuary, S. L. Meena 17825; Chivari near Ambaji, S. L. Meena 20655 (BSJO); Ambaji, A. R. Menon 1383 (SPU).

**Hymenodictyon orixense** (Roxb.) Mabb.

Hathidhara forest, S. L. Meena 18027 (BSJO).

\***Ixora brachiata** Roxb.

Balaram - Ambaji Wildlife Sanctuary.

**Ixora pavetta** Andr.

Jessore Wildlife Sanctuary, S. K. Patel 4619 (SPU).

\***Meyna laxiflora** Robyns

Balaram - Ambaji Wildlife Sanctuary.

**Mitragyna parviflora** (Roxb.) Korth.

Jessore Wildlife Sanctuary, S. L. Meena 17930, 20620, 20622 (BSJO); Ambaji, R. S. Patel 3406 (SPU).

**Morinda pubescens** Sm.

Near Kuvarsi nursery - Ambaji, R. S. Patel 10379 (SPU).

**Neanotis foetida** (Hook. f.) W. H. Lewis

Ambaji on way to Hadad, R. S. Patel 10012 (SPU).

**Neanotis montholonii** (Hook. f.) W. H. Lewis

Hathidhara forest, S. L. Meena 18235 (BSJO).

**Oldenlandia corymbosa** L. [= *Hedyotis corymbosa* (L.) Lam.]

Menagar - Koteshwar, R. S. Patel 2667 (SPU).

**Oldenlandia herbacea** L. [= *Hedyotis herbacea* (L.) Roxb.]

Jessore Wildlife Sanctuary, S. L. Meena 18123 (BSJO).

**Oldenlandia umbellata** L. [= *Hedyotis puberula* (G. Don.) Arn.]

Ujjanwada near Bhabhar, S. L. Meena 20741 (BSJO).

**Spermacoce articularis** L.f.

Jessore Wildlife Sanctuary, S. L. Meena 18287; Ghanga near Amirgarh, S. L. Meena 20770; Khumbasan, S. L. Meena 18374 (BSJO); Amirgarh, A. R. Menon 1419, 1442 (SPU).

**Spermacoce pusilla** Wall.

Hathidhara, S. L. Meena 18235; Ghangha near Amirgarh, S. L. Meena 18078; Amirgarh hills, S. L. Meena 20774 (BSJO); Amirgarh, A. R. Menon 1942 (SPU).

**Spermadietyon suaveolens** Roxb.

Jessore Wildlife Sanctuary, S. L. Meena 18209 (BSJO); Hadad, R. S. Patel 10014 (SPU).

ASTERACEAE (COMPOSITAE *nom.alt.*)

**Acanthospermum hispidum** DC.

Jessore Wildlife Sanctuary, S. L. Meena 17911; Amirgarh hills, S. L. Meena 18081 (BSJO); Ambaji, A. R. Menon 1392 (SPU).

**Ageratum conyzoides** (L.) L.

Jessore Wildlife Sanctuary, S. L. Meena 18228; Ambaji forest on way to Danta road, S. L. Meena 20648 (BSJO); Ambaji, A. R. Menon 1378 (SPU).

**Artemisia nilagirica** (C. B. Clarke) Pamp.

Ambaji, S. L. Meena 20822 (BSJO).

**Bidens biternata** (Lour.) Merr. & Sherff.

Hathidhara forest, S. L. Meena 18030; Amirgarh hills, S. L. Meena 18080 (BSJO).

**Blainvillea acmella** (L.) Philipson

Amirgarh hills, S. L. Meena 18118 (BSJO).

**Blumea axillaris** (D. Don) Merr. [= *Blumea mollis* (D. Don) Merr.]

Nana bamodra near Ambaji, R. S. Patel 10399 (SPU).

**Blumea obliqua** (L.) Druce

Deema near Deesa, S. L. Meena 18295; Jaloya near Suiguo, S. L. Meena 18349; Ujjanwada near Bhabhar, S. L. Meena 18332 (BSJO).

**Conyza canadensis** (L.) Cornquist [= *Erigeron canadensis* L.]

Hathidhara forest, S. L. Meena 17297 (BSJO).

**Conyza stricta** Willd.

Near Gabbar, R. S. Patel 3465 (SPU).

**Cyanthillium cinerarium** (L.) H. Rob. [= *Vernonia cinerea* (L.) Less.]

Gabbar nursery area - Ambaji, S. L. Meena 17281; Jessore Wildlife Sanctuary, S. L. Meena 18162; Manpur near Bhabhar, S. L. Meena 18303 (BSJO); Amirgarh, A. R. Menon 1236 (SPU).

**Cyathocline purpurea** (Buch.-Ham. ex D. Don) Kuntze

Jessore Wildlife Sanctuary, S. L. Meena 17929 (BSJO); Danta, V. Singh 5420 (BSJO); Balaram, G. V. Gopal 872; Ambaji, A. R. Menon 1377 (SPU).

**Echinops echinatus** Roxb.

Ambaji, S. L. Meena 20692 (BSJO); Ambaji, A. R. Menon 1390 (SPU).

**Eclipta prostrata** (L.) L.

Virampur, S. L. Meena 17266; Khara near Bhabhar, S. L. Meena 20697 (BSJO); Balaram, A. R. Menon 1149; Ambaji, A. R. Menon 1394 (SPU).

**Emilia sonchifolia** (L.) DC.

Jessore Wildlife Sanctuary, S. L. Meena 18226 (BSJO); Panssa riverlets Ambaji, R. S. Patel 2404 (SPU).

**Glossocardia bosvallea** (L. f.) DC. ex DC.

Amirgarh, S. L. Meena 18091 (BSJO); Amirgarh, A. R. Menon 1956 (SPU).

**Gnaphalium polycaulon** Pers.

Jessore Wildlife Sanctuary, S. L. Meena 17977 (BSJO); Ambaji, R. S. Patel 10284 (SPU).

\***Goniocaulon indicum** (Klein ex Willd.) C. B. Clarke

Balaram - Ambaji Wildlife Sanctuary.

**Grangea maderaspatana** (L.) Desf.

Jessore Wildlife Sanctuary, S. L. Meena 17831; Dantiwada dam, S. L. Meena 20601 (BSJO).

\***Lagascea mollis** Cav.

Balaram - Ambaji Wildlife Sanctuary.

**Laggera aurita** (L. f.) Benth. ex C. B. Clarke

Ambaji, A. R. Menon 1405 (SPU).

\***Launaea intybacea** (Jacq.) Beauverd

Balaram - Ambaji Wildlife Sanctuary.

**Launaea procumbens** (Roxb.) Ramayya & Rajagopal

Masali near Bhabhar, S. L. Meena 18347; Sipu dam, S. L. Meena 17975 (BSJO); Ambaji, A. R. Menon 1379 (SPU).

**Oligochaeta ramosa** (Roxb.) Wagenitz

Dantiwara, S. L. Meena 17846; Rohita, S. L. Meena 18326 (BSJO).

**Parthenium hysterophorus** L.

Balaram, S. L. Meena 17982 (BSJO).

**Pentanema indicum** (L.) Ling

Jessore Wildlife Sanctuary, S. L. Meena 20637; Ambaji ghata on way to Hadad, S. L. Meena 20673 (BSJO); Trishula ghat - Ambaji, R. S. Patel 10180 (SPU).

\***Phyllocephalum anthelminticum** (L.) S. R. Paul & S. L. Kapoor [= *Vernonia anthelmintica* (L.) Willd.]

Balaram - Ambaji Wildlife Sanctuary.

\***Pluchea lanceolata** (DC.) C. B. Clarke

Balaram - Ambaji Wildlife Sanctuary.

**Pulicaria angustifolia** DC.

Sherpur, S. L. Meena 17987 (BSJO).

**Pulicaria undulata** (L.) C. A. Mey [= *Pulicaria crispa* (Forssk.) Sch. Bip]

Buretha near Bhabhar, S. L. Meena 18331 (BSJO).

**Sclerocarpus africanus** Jacq. ex Murray

Amirgarh hills, S. L. Meena 18103 (BSJO).

**Sonchus asper** (L.) Garsault

Adaxan bhankhro - Ambaji, R. S. Patel 3475 (SPU).

**Sphaeranthus indicus** L.

Jessore Wildlife Sanctuary, S. L. Meena 17829; Rohita near Bhabhar, S. L. Meena 18328 (BSJO).

**\*Tricholepis glaberrima** DC.

Balaram - Ambaji Wildlife Sanctuary.

**Tricholepis radicans** (Roxb.) DC.

Near Kumbhariya - Ambaji, R. S. Patel 10093 (SPU).

**Tridax procumbens** L.

Amirgarh hills, S. L. Meena 18079 (BSJO).

**Verbesina encelioides** (Cav.) Benth. & Hook.f. ex A. Gray

Dairy near Iqbalgarh, S. L. Meena 18068 (BSJO).

**Xanthium strumarium** L. [= *Xanthium indicum* J. König ex Roxb.]

Jessore Wildlife Sanctuary, S. L. Meena 17890 (BSJO); Gabbar near Ambaji, R. S. Patel 2942 (SPU).

## PLUMBAGINACEAE

**Dyerophytum indicum** (Gibbs ex Wight) Kuntze

Gabbar river - Ambaji, S. L. Meena 18045; Jessore Wildlife Sanctuary, S. L. Meena 20617 (BSJO).

**Plumbago zeylanica** L.

Jessore Wildlife Sanctuary, S. L. Meena 17894, 18227; Dhuri near Danta, S. L. Meena 20693 (BSJO); Rinchhadi near Ambaji, R. S. Patel 2579 (SPU).

## PRIMULACEAE

**Anagalis arvensis** L.

Jessore Wildlife Sanctuary, S. L. Meena 20615 (BSJO); Ambaji, A. R. Menon 1422 (SPU).

## SAPOTACEAE

**Madhuca longifolia** (J. König ex L.) J. F. Macbr. var. **latifolia** (Roxb.) A. Chev. [= *Madhuca indica* J. F. Gmel.]

Balundra - Jessore Wildlife Sanctuary, S. L. Meena 20634 (BSJO); Rinchhadi near Ambaji, R. S. Patel 2683 (SPU).

**Manilkara hexandra** (Roxb.) Dubard

Mahamadpur near Palanpur, S. L. Meena 18013; Danta, S. L. Meena 20660 (BSJO); Amirgarh, A. R. Menon 1917; Rinchhadi near Ambaji, R. S. Patel 2547 (SPU).

## EBENACEAE

**Diospyros melanoxylon** Roxb.

Jessore Wildlife Sanctuary, S. L. Meena 17827, 17899; Hathipagla forest near Ambaji, S. L. Meena 20825 (BSJO).

**Diospyros montana** Roxb. [= *Diospyros cordifolia* Roxb.]

Danta forest, G. L. Shah, 409 (SPU).

## OLEACEAE

**Jasminum multiflorum** (Burm.f.) Andrews

Ghanga near Amirgarh hills, S. L. Meena 20769 (BSJO).

**Nyctanthes arbor-tristis** L.

Gabbar nursery near Ambaji, S. L. Meena 18255; Jessore Wildlife Sanctuary, S. L. Meena 18171; Amirgarh, S. L. Meena 20771 (BSJO); Ambaji, A. R. Menon 1426 (SPU).

**\*Schrebera swietenoides** Roxb.

Danta forest range.

## SALVADORACEAE

**Salvadora oleoides** Decne.

Dantiwara, S. L. Meena 17842 (BSJO).

**Salvadora persica** L.

Dantiwara, S. L. Meena 17840; Palan on way to Manpur - Bhabhar road, S. L. Meena 18306 (BSJO).

## APOCYNACEAE

**Carissa spinarum** L. [= *Carissa congesta* Wight]

Harionz - Danta forests, S. L. Meena 17816 (BSJO).

**Catharanthus pusillus** (Murray) G. Don

Jessore Wildlife Sanctuary, S. L. Meena 18198; Hathidhara forest, S. L. Meena 20808 (BSJO); Amirgarh, A. R. Menon 1958; Ambaji, A. R. Menon 1402, 1412 (SPU).

**Holarrhena pubescens** (Buch.-Ham.) Wall. ex G. Don

Jessore Wildlife Sanctuary, S. L. Meena 17921 (BSJO); Balaram, A. R. Menon 1456 (SPU).

**Wrightia arborea** (Dennst.) Mabb.

Kangura near Ambaji Wildlife Sanctuary, S. L. Meena 17272 (BSJO).

**Wrightia tinctoria** (Roxb.) R. Br.

Jessore Wildlife Sanctuary, S. K. Patel 4622 (SPU).

**Tabernaemontana divaricata** (L.) R. Br.

Ambaji, A. R. Menon 1417 (SPU).

## ASCLEPIADACEAE

\***Calotropis gigantea** (L.) R. Br.

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

**Calotropis procera** (Aiton) R. Br. [= *Calotropis procera* (Aiton) R.Br. subsp. *hamiltonii* (Wight) Ali]

Ambaji, S. L. Meena 18245 (BSJO).

\***Cosmostigma racemosum** (Roxb.) Wight

Balaram - Ambaji Wildlife Sanctuary.

**Dregea volubilis** (L.f.) Benth. ex Hook.f. [= *Wattakaka volubilis* (L.f.) Stapf]

Jessore Wildlife Sanctuary, S. L. Meena 18201 (BSJO).

**Holostemma ada-kodien** Schult. [= *Holostemma annulare* (Roth.) K. Schum.]

Ambaji on way to Panssa village, R. S. Patel 2580 (SPU).

**Leptadenia pyrotechnica** (Forssk.) Decne.

Goth, S. L. Meena 17810 (BSJO); on way to Virampur, S. K. Patel 4639 (SPU).

\***Leptadenia reticulata** (Retz.) Wight & Arn.

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

**Oxystelma esculentum** (L. f.) Sm.

Jessore Wildlife Sanctuary, S. L. Meena 18159, 20794 (BSJO).

**Pentatropis nivalis** (F. Gmel.) D. V. Field & J. R. I. Wood

Amirgarh, A. R. Menon 1947 (SPU).

**Pergularia daemia** (Forssk.) Choiv.

Jessore Wildlife Sanctuary, S. L. Meena 17922 (BSJO).

**Sarcostemma viminale** (L.) R. Br.

Hathidhara forest, S. L. Meena 18381 (BSJO).

**Telosma cordata** (Burm. f.) Merr.

Jessore Wildlife Sanctuary, S. L. Meena 18207 (BSJO).

**Tylophora dalzellii** Hook. f.

Balaram, S. L. Meena 20813 (BSJO).

## PERIPLOCACEAE

**\*Cryptolepis buchananii** Roem. & Schult.

Jessore Wildlife Sanctuary.

**\*Cryptostegia grandiflora** R. Br.

Balaram - Ambaji Wildlife Sanctuary

**\*Hemidesmus indicus** (L.) W.T. Aiton

Jessore Wildlife Sanctuary.

## LOGANIACEAE

**\*Mitreola petiolata** (J. F. Gmel.) Torr. & A. Gray

Balaram - Ambaji Wildlife Sanctuary.

## GENTIANACEAE

**\*Canscora diffusa** (Vahl) R. Br.

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

**Enicostema axillare** (Poir. ex Lam.) A. Raynal

Jessore Wildlife Sanctuary, S. L. Meena 17923; Amirgarh hills, S. L. Meena 18087; Hathidhara forest, S. L. Meena 20809 (BSJO).

**\*Exacum pedunculatum** L.

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

**\*Hoppea dichotoma** Willd.

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

## BORAGINACEAE

**Coldenia procumbens** L.

Jessore Wildlife Sanctuary near dam, S. L. Meena 17833 (BSJO).

**Heliotropium bacciferum** Forssk.

Balaram - Ambaji Wildlife Sanctuary.

**Heliotropium calcareum** Stocks

Chitrasani near Balaram. G. V. Gopal 1003, 2022 (SPU).

**Heliotropium indicum** L.

Ambaji, S. L. Meena 20654 (BSJO).

**Heliotropium marifolium** J. König ex Retz.

Ujjanwara near Bhabhar, S. L. Meena 20737 (BSJO).

**Heliotropium marifolium** J. Konig ex Retz. var. **wallichii** C. B. Clarke

Khara near Bhabhar, S. L. Meena 20706 (BSJO); Panchasar village, R.P. Pandey 11450 (BSJO).

**Heliotropium ovalifolium** Forssk.

Rinchhadi pond near Ambaji, R. S. Patel 2722 (SPU).

**Heliotropium strigosum** Willd. [= *Heliotropium strigosum* Willd. subsp. **brevifolium** (Wall.) Kazmi]

Chandisar on way to Dantiwara, S.L. Meena 18058; Jessore Wildlife Sanctuary, S.L. Meena 18122 ; Deesa, S. L. Meena 18292 (BSJO).

**Heliotropium supinum** L.

Gosan Bhabhar - Radhanpur road, S.L. Meena 18323 (BSJO); Kumbariya near Ambaji, R.S. Patel 2712 (SPU).

**Heliotropium zeylanicum** (Burm.f.) Lam. [= *Heliotropium subulatum* (Hochst. ex DC.) Vatke]

Jessore Wildlife Sanctuary, S.L. Meena 18178 (BSJO); Amirgarh, A.R. Menon 1962; Rinchhdi, R.S. Patel 2871 (SPU).

**Sericostoma pauciflorum** Stocks

Rampura - Palanpur, S.L. Meena 20814 (BSJO).

**Trichodesma indica** (L.) Lehm. var. **indicum**

Balaram - Ambaji Wildlife Sanctuary.

**Trichodesma indica** (L.) R. Br. var. **amplexicaule** (Roth) T. Cooke

Amirgarh, S. L. Meena 18112, 20759 (BSJO); Amirgarh, A. R. Menon 1963 (SPU).

**Trichodesma zeylanica** (Burm. f.) Lehm.

Balaram - Ambaji Wildlife Sanctuary.

#### EHRETIACEAE

**Cordia dichotoma** G. Forst.

Bagdari river near Balaram, S.L. Meena 17263 (BSJO); Amirgarh, A.R. Menon 1101 (SPU).

**Cordia sinensis** Lam. [= *Cordia gharaf* (Forssk.) Ehrenb ex Asch.]

Dantiwara, S.L. Meena 17845; Boru near Bhabhar, S.L. Meena 18359 (BSJO).

\***Ehretia laevis** Roxb. [= *Ehretia aspera* Willd. var. **obtusifolia** (Hochst ex DC.) Parmar]

Jessore Wildlife Sanctuary, S.L. Meena 17823 (BSJO); Amaba ghata - Balaram - Ambaji Wildlife Sanctuary.

#### CONVOLVULACEAE

**Argyreia nervosa** (Burm. f.) Bojer

Hathidhara forest, S.L. Meena 17295 (BSJO).

**Convolvulus deserti** Hochst. & Steud. ex Steud.

Ujjanwada, S.L. Meena 18334; Tharad, S.L. Meena 17859 (BSJO).

**Convolvulus prostratus** Forssk.

Amirgarh, A.R. Menon 1951 (SPU).

**Cressa cretica** L.

Suigao, S.L. Meena 17963, 18341, 20724 (BSJO).

**Evolvulus alsinoides** (L.) L.

Jessore Wildlife Sanctuary, S.L. Meena 17874, 18120; Dudhwa near Tharad - Sanchor road, S.L. Meena 18288; Vikri near Hadad, S.L. Meena 20666 (BSJO).

**\*Hewittia malabarica** (L.) Suresh

Balaram - Ambaji Wildlife Sanctuary.

**Ipomoea aquatica** Forssk.

Ujjanwada, S.L. Meena 20733 (BSJO).

**\*Ipomoea arachnosperma** Welw.

Balaram - Ambaji Wildlife Sanctuary.

**Ipomoea batatas** (L.) Poir.

Balaram, G. V. Gopal 2012 (SPU).

**Ipomoea biflora** (L.) Pers. [= *Ipomoea sinensis* (Desr.) Choisy]

Avada village near Jessore Wildlife Sanctuary, S.L. Meena 17942 (BSJO).

**Ipomoea cairica** (L.) Sw.

Sharepur, S.L. Meena 17865, 17989; Khardia near Danta, S.L. Meena (BSJO).

**Ipomoea coptica** (L.) Roth ex Roem. & Schult.

Surana near Sihori, S.L. Meena 20744 (BSJO).

**\*Ipomoea fistulosa** Mart. ex Choisy [= *Ipomoea carnea* Jacq. subsp. *fistulosa* (Mart. ex Choisy) D. A. Austin]

Balaram - Ambaji Wildlife Sanctuary.

**\*Ipomoea nil** (L.) Roth

Balaram - Ambaji Wildlife Sanctuary.

**Ipomoea obscura** (L.) Ker. Gawl.

Gabbar nursery near Ambaji, S.L. Meena 17287; Manpur near Bhabhar, S.L. Meena 18301; Jessore Wildlife Sanctuary, S.L. Meena 18155 (BSJO).

**Ipomoea pes-caprae** Roth

Chandisar on way to Dantiwara road, S.L. Meena 18053 (BSJO).

**\*Ipomoea pes-tigridis** L.

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

**Ipomoea sindica** Stapf

Jessore Wildlife Sanctuary, S.L. Meena 17900, 18187, 18149 (BSJO).

**\*Ipomoea turbinata** Lag.

Balaram - Ambaji Wildlife Sanctuary.

**Merremia aegyptia** (L.) Urban

Tharad, S.L. Meena 17957; Jessore Wildlife Sanctuary, S.L. Meena 17925 (BSJO).

**Merremia gangetica** Cufod.

Amirgarh, A.R. Menon 1243 (SPU).

**Merremia tridentata** (L.) Hallier f. [= *Xenostegia tridentata* (L.) D. F. Austin & Staples]

Jessore Wildlife Sanctuary, S.L. Meena 18194, 20629 (BSJO).

**Operculina turpethum** (L.) Silva Manso

Hathidhara forest, S.L. Meena 18390 (BSJO).

**Rivea hypocrateriformis** Choisy

Deodhar near Tharad, S.L. Meena 20715 (BSJO).

**Rivea ornata** Choisy

Godha, S.L. Meena 17821; Jessore Wildlife Sanctuary, S.L. Meena 18136 (BSJO).

**\*Stictocardia tilifolia** (Desr.) Hallier f. [= *Ipomoea campanulata* L.]

Balaram - Ambaji Wildlife Sanctuary.

## CUSCUTACEAE

**Cuscuta chinensis** Lam.

Godha near Palanpur, S.L. Meena 17822 (BSJO); near Virampur, S.K. Patal 4641 (SPU).

**Cuscuta hyalina** Roth

Dhandha, S.L. Meena 17811; Boru, S.L. Meena 18352 (BSJO).

**Cuscuta reflexa** Roxb.

Iqbalgarh area, S.L. Meena 17838 (BSJO).

## SOLANACEAE

**Cestrum diurnum** L.

Jessore Wildlife Sanctuary, S.L. Meena 20627 (BSJO).

**Datura ferox** L.

Ambaji forest, S.L. Meena 18261 (BSJO).

**Datura inoxia** Mill.

Hathidhara forest, S.L. Meena 18230 (BSJO).

**Datura metel** L. [= *Datura fastuosa* L.]

Palanpur, S.L. Meena 18273; Rampura, S.L. Meena 18394 (BSJO).

**Lycium barbarum** L.

Masali near Suigao, S.L. Meena 18351 (BSJO).

**Physalis angulata** L. [= *Physalis minima* L.]

Jessore Wildlife Sanctuary, S.L. Meena 17928; Hathidhara, S.L. Meena 18387 (BSJO); Ambaji, A.R. Menon 1406 (SPU).

**Physalis peruviana** L.

Amirgarh hills, S.L. Meena 18093, 18337 (BSJO).

**Physalis pruinosa** L. [= *Physalis maxima* Mill.]

Ambaji, S.L. Meena 18262 (BSJO).

**Solanum albicaule** Kotschy ex Dunal

Rohita near Bhabhar - Radhanpur road, S.L. Meena 18337 (BSJO).

**Solanum americanum** Mill. [= *Solanum nigrum* L.]

Ambaji ghata - Hadad road, S.L. Meena 20670; Nava - Kharia near Sihori, S.L. Meena 18364 (BSJO).

**Solanum anguivi** Lam.

Rabaran balo bhankhro - Ambaji, R.S. Patel 3430 (SPU).

**Solanum incanum** L.

Balaram, S.L. Meena 17291, 17986; Hathidhara forest, S.L. Meena 18234 (BSJO); Ambaji, A.R. Menon 1415; Amirgarh, A.R. Menon 1973 (SPU).

**Solanum virginianum** L.

Gabbar river near Ambaji, S.L. Meena 17284 (BSJO).

**Withania somnifera** (L.) Dunal

Hathidhara forest, S.L. Meena 17801 (BSJO).

## SCROPHULARIACEAE

**Bacopa floribunda** (R. Br.) Wettst.

Balaram river side, G.V. Gopal 1013 (SPU).

**Bacopa monnieri** (L.) Wettst.

Suigao pond, S.L. Meena 20727 (BSJO); Balaram, A.R. Menon 1148 (SPU).

**Kickxia ramosissima** (Wall.) Janchen

Jessore Wildlife Sanctuary, S.L. Meena 18158 (BSJO); Ambaji, R.S. Patel 2714; Kumbharia, R.S. Patel 2709 (SPU).

**Limnophila indica** (L.) Druce

Kangura - Umbarpani near Ambaji, S.L. Meena 18038, 20645; Gabbar river - Ambaji, S.L. Meena 18052 (BSJO); on way to Mahadev temple - Ambaji, R.S. Patel 2748; Ambaji, A.R. Menon 1384 (SPU).

**Lindenbergia indica** Vatke

Jessore Wildlife Sanctuary, S.L. Meena 20640; Ambaji ghata on way to Hadad, S.L. Meena 20787 (BSJO).

**Lindernia ciliata** (Colsm.) Pennell

Jessore Wildlife Sanctuary, S.L. Meena 18142 (BSJO).

**Lindernia crustacea** (L.) F. Muell.

Jessore Wildlife Sanctuary, S.L. Meena 18140 (BSJO).

**Lindernia parviflora** (Roxb.) Haines

Jessore Wildlife Sanctuary, S.L. Meena 20613 (BSJO).

**Striga angustifolia** (D. Don) Saldanha

Jessore Wildlife Sanctuary, S.L. Meena 18124, 20796 (BSJO).

**\* Striga gesnerioides** (Willd.) Vatke

Balaram - Ambaji Wildlife Sanctuary.

**Verbascum chinense** (L.) Santapau

Ambaji ghata - on way to Hadad road, S. L. Meena 20671; Jessore Wildlife Sanctuary, S. L. Meena 17879; Amirgarh hills, S. L. Meena 18111 (BSJO).

## OROBANCHACEAE

**Cistanche tubulosa** (Schrenk) Wight

Boru near Suigao, S. L. Meena 18363 (BSJO).

**\*Orbanche aegyptiaca Pers.**

Balaram - Ambaji Wildlife Sanctuary.

GESNERIACEAE

**Didymocarpus pygmaeus C. B. Clarke**

Amirgarh hills, S. L. Meena 18105 (BSJO).

BIGNONIACEAE

**\*Fernandoa adenophylla (Wall. ex G. Don) Steenis**

Balaram - Ambaji Wildlife Sanctuary.

**Kigelia africana (Lam.) Benth.**

Dhanpur near Amirgarh, S. L. Meena 20785 (BSJO).

**\*Oroxylon indicum (L.) Kurz.**

In Danta forest range.

**Tecomella undulata (Sm.) Seem.**

Bhoral, S. L. Meena 17971 (BSJO); Balaram, G. V. Gopal 1009; Ambaji, R. S. Patel 10110 (SPU).

PEDALIACEAE

**Pedaliium murex L.**

Deesa, S. L. Meena 18277 (BSJO), Ruppura, R. S. Patel 10225 (SPU).

MARTYNIACEAE

**Martynia annua L.**

Jessore Wildlife Sanctuary, S. L. Meena 18127 (BSJO).

ACANTHACEAE

**Andrographis echioides (L.) Nees [=Indoneesiella echioides (L.) Sreem.]**

Jessore Wildlife Sanctuary, S. L. Meena 17883, 18160 (BSJO), Amirgarh, A. R. Menon 1240 (SPU).

**Barleria cristata L.**

Gabbar near Ambaji, R. S. Patel 2086 (SPU).

**Barleria prattensis Santapau**

Koteswar near Ambaji, R. S. Patel 2887 (SPU).

**Barleria prionitis L.**

Jessore Wildlife Sanctuary, S. L. Meena 17898 (BSJO); Balaram, A. R. Menon 1161 (SPU).

**Barleria prionitis L. subsp. prionitis var. diacantha Blatt. & Hallb.**

Jessore Wildlife Sanctuary, S. L. Meena 18185; Ghanga - Amirgarh hills, S. L. Meena 20765 (BSJO).

**Blepharis integrifolia (L.f.) E. Mey ex Schinz [=Blepharis repens (Vahl) Roth]**

Ambaji, A. R. Menon 1435 (SPU).

**Blepharis maderaspatensis (L.) B. Heyne ex Roth**

Hathidhara forest, S. L. Meena 18019; Dhuri on way to Danta, S. L. Meena 18017; Tatoda near Bhabhar, S. L. Meena 20749 (BSJO); Danta, V. Singh 5426 (BSJO).

**\*Blepharis scindica Stocks ex T. Anderson [=Blepharis linariifolia Pers.]**

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

**Dicliptera leonotis** Dalzell. ex C. B. Clarke

Bhabhar, S. L. Meena 18305 (BSJO).

**Dicliptera paniculata** (Forssk.) I. Darbysch. [= *Peristrophe paniculata* (Forssk.) Brummitt]

Jessore Wildlife Sanctuary, S. L. Meena 17895 (BSJO); Balaram - Virampur, S. K. Patel 4643 (SPU).

**Dicliptera verticillata** (Forssk.) C. Chr.

Dantiwara forest, V. Singh 5377 (BSJO); Ambaji, A. R. Menon 1400 (SPU).

**Dyschoriste dalzellii** (T. Anderson ex Bedd.) Kuntze

Amirgarh, A. R. Menon 1457 (SPU).

**Elytraria acaulis** (L. f.) Lindau

Jessore Wildlife Sanctuary, S. L. Meena 17877; Balaram, S. L. Meena 17995 (BSJO).

**\*Eranthemum purpurascens** Nees

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

**\*Haplanthodes neilgherrensis** (Wight) R. B. Majumdar

Balaram - Ambaji Wildlife Sanctuary.

**Haplanthodes verticillatus** (Roxb.) R. B. Majumdar

Jessore Wildlife Sanctuary, S. L. Meena 20612 (BSJO); Ambaji - Balaram road, R. S. Patel 2976 (SPU).

**Hemigraphis laticarpa** (B. Hcyne ex Roth) Nees

Jessore Wildlife Sanctuary, S. L. Meena 17896, 20614; Hathidhara forest, S. L. Meena 18018 (BSJO); Ambaji near Trishula ghat, R. S. Patel 1018 - A (SPU).

**Hygrophila schullii** (Buch. - Ham.) M. R. & S. M. Almeida

Near Sabarmati river on way to Khedbrahma, S. L. Meena 20674 (BSJO).

**Hygrophila serpyllum** (Nees) T. Anderson

Hathidhara forest, S. L. Meena 18382 (BSJO).

**Justicia adhatoda** L.

Hasanpur near Hathidhara, S. L. Meena 18376 (BSJO); Balaram, A. R. Menon 1170 (SPU).

**Justicia diffusa** Willd. [= *Rostellularia diffusa* (Willd.) Nees]

Jessore Wildlife Sanctuary, S. L. Meena 17886 (BSJO); Gabbar near Ambaji, R. S. Patel 2884 (SPU).

**Justicia heterocarpa** T. Anderson

Khara near Bhabhar, S. L. Meena 20699 (BSJO).

**Justicia japonica** Thunb. [= *Rostellularia japonica* (Thunb.) J. L. Ellis]

Ambaji near Trishulia ghat, R. S. Patel 3313 (SPU).

**Justicia procumbens** L. [= *Rostellularia procumbens* (L.) Nees]

Jessore Wildlife Sanctuary, S. L. Meena 20616 (BSJO).

**Justicia quinqueangularis** J. König ex Roxb. [= *Rostellularia quinqueangularis* (J. König ex Roxb.) Nees]

Amirgarh hills near Ghanga village, S. L. Meena 20768 (BSJO).

**Lepidagathis cristata** Willd.

Ambaji, R. S. Patel 10126 (SPU).

**Lepidagathis lutea** Dalzell

Ambaji ghata on way to Hadad, S. L. Meena 20840 (BSJO).

**Lepidagathis trinervis** Nees

Danta, S.L. Meena 17818 (BSJO); Ambaji, R.S. Patel 10086 (SPU).

**Neuracanthus sphaerostachyus** (Nees) Dalzell

Danta on way to Hadad, S.L. Meena 18271; Kangura - Umbrapani village near Ambaji, S.L. Meena 18042 (BSJO).

**Ruellia patula** Jacq. [= *Dipteracanthus patulus* (Jacq.) Nees]

Jessore Wildlife Sanctuary, S.L. Meena 17872; Ambaji ghata on way to Hadad, S.L. Meena 20841 (BSJO).

**Ruellia patula** Jacq. var. **alba** Saxton [= *Dipteracanthus patulus* (Jacq.) Nees var. **alba** (Saxton) Bhandari]

Jessore Wildlife Sanctuary, S.L. Meena 20803 (BSJO).

**Ruellia prostrata** Poir. [= *Dipteracanthus prostratus* (Poir.) Nees]

Hathidhara forest, S.L. Meena 18020 (BSJO).

**\*Ruellia tuberosa** L.

Balaram - Ambaji Wildlife Sanctuary.

**\*Rungia parviflora** (Retz.) Nees

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

**Rungia pectinata** (L.) Nees

Jessore Wildlife Sanctuary, S.L. Meena 17885 (BSJO); on way to Visnagar, R.S. Patel 2831 (SPU).

**\*Rungia repens** (L.) Nees

Balaram - Ambaji Wildlife Sanctuary.

**Strobilanthes ixiocephala** Benth. [= *Thelepaepale ixiocephala* (Benth.) Bremek.]

Ambaji, A.R. Menon 1454 (SPU).

## VERBENACEAE

**Clerodendrum phlomidis** L.f. [= *Clerodendrum multiflorum* (Burm.f.) Kuntze]

Dhanda, S.L. Meena 17812 (BSJO); Amirgarh, A.R. Menon 6099; Kidiman kodi river bank, R.S. Patel 10102 (SPU).

**Clerodendrum splendens** G. Don

Balaram, G.V. Gopal 823 (SPU).

**Duranta erecta** L.

Vashi near Danta, K.C. Patel 4329 (SPU).

**Gmelina arborea** Roxb.

Ambaji, R.S. Patel 10115; Pataliya, K.C. Patel 10507 (SPU).

**Lantana camara** L.

Khiwad near Danta, K.C. Patel 2378 (SPU).

**Lantana rigosa** Thunb. [= *Lantana salviifolia* Jacq.]

Ambaji forest, S.L. Meena 20824 (BSJO).

**Phyla nodiflora** (L.) Greene

Virampur, S.L. Meena 17265; Sipu river, S.L. Meena 17850 (BSJO); Ambaji near Gabbar, R.S. Patel 10043 (SPU).

**Tectona grandis** L. f.

Kangura near Ambaji, S.L. Meena 18253 (BSJO); Ambaji, R.S. Patel 10216; Balaram, G.V. Gopal 4069 (SPU).

**Vitex negundo** L.

Dhandha, S.L. Meena 17813; Chivari (Ambaji - Danta road), S.L. Meena 17999; Ambaji Wildlife Sanctuary on way to Danta, S.L. Meena 20656 (BSJO); Koteswar - Ambaji, R.S. Patel 2734 (SPU).

**Vitex trifolia** L.

Ambaji forest - Danta road, S.L. Meena 20846 (BSJO).

LAMIACEAE (LABIATAE *nom. alt.*)

**Anisochilus carnosus** (L. f.) Wall.

Hathidhara, S.L. Meena 18023 (BSJO).

**Anisomeles indica** (L.) Kuntze

Avada village near Jessore Wildlife Sanctuary, S.L. Meena 17934; Hathidhara forest, S.L. Meena 17296 (BSJO); Balaram, A.R. Menon 1167; Ambaji, A.R. Menon 1411 (SPU).

**Basilicum polystachyon** (L.) Moench

Manpur near Bhabhar, S.L. Meena 18304 (BSJO).

**Hyptis suaveolens** (L.) Poit.

Gabbar nursery area near Ambaji, S.L. Meena 18044; Ambaji on way to Danta road, S.L. Meena 20650 (BSJO).

**Leucas aspera** (Willd.) Link

Hathidhara forest, S.L. Meena 18385 (BSJO); Balaram, V. Singh 5586; Amirgarh, A.R. Menon 1096; Ambaji, A.R. Menon 1440 (BSJO).

**Leucas biflora** (Vahl) R. Br. ex Sm.

Near Shiri river, R.S. Patel 10315 (SPU).

**Leucas caphalotes** (Roth) Spreng.

Kangura - Ambrapani near Ambaji, S.L. Meena 18036; Amirgarh hills, S.L. Meena 18076; Hathidhara forest, S.L. Meena 20806 (BSJO).

**Leucas martinicensis** (Jacq.) R. Br.

Ambaji, A.R. Menon 1441 (SPU).

**Leucas urticifolia** (Vahl) R.Br. ex Sm.

Vashi near Danta, K.C. Patel 10656; near Trishula devi - Ambaji, R.S. Patel 2604 (SPU).

**Leucas zeylanica** (L.) W.T. Aiton

Harionz hills near Danta, K.C. Patel 2368 (SPU).

**Nepeta hindostana** (B. Heyne ex Roth) Haines

Ambaji onway to Khedbrahma, R.S. Patel 2593 (SPU).

**Ocimum americanum** L.

Jessore Wildlife Sanctuary, S.L. Meena 17891, 17926; Amirgarh hills, S.L. Meena 18077 (BSJO).

**Ocimum basilicum** L.

Jessore Wildlife Sanctuary, S.L. Meena 18200 (BSJO).

**Ocimum gratissimum L.**

Balaram, S.L. Meena 20610 (BSJO).

**Ocimum tenuiflorum L.**

Jessore Wildlife Sanctuary, S.L. Meena 17910 (BSJO); Harionz near Danta, K.C. Patel 2359 (SPU).

**Plectranthus mollis** (Aiton) Spreng.

Ambaji, S.L. Meena 20823 (BSJO).

**Salvia santolinifolia** Boiss.

Banas river bed near Balundra, S.L. Meena 18001; Jessore Wildlife Sanctuary, S.L. Meena 18167 ; Dantiwara dam, S.L. Meena 20602 (BSJO).

## NYCTAGINACEAE

**Boerhavia diandra** L.

Suigao, S.L. Meena 20723 (BSJO).

**Boerhavia diffusa** L. [= *Boerhavia repens* L. var. **diffusa** (L.) Hook.f.]

Chandisar, S.L. Meena 18056; Kangura near Ambaji, S.L. Meena 18250 (BSJO); Jajara near Ambaji, S.K. Patel 4656 (SPU).

**Boerhavia erecta** L.

Dhuri near Danta, S.L. Meena 18015 (BSJO).

**Boerhavia procumbens** Banks ex Roxb.

Jessore Wildlife Sanctuary, S.L. Meena 18119 (BSJO).

**Boerhavia repens** L.

Jessore Wildlife Sanctuary, S.L. Meena 18190 (BSJO).

**Commicarpus chinensis** (L.) Heimerl

Ambaji, A.R. Menon 1158 (SPU).

**Commicarpus verticillatus** (Poir.) Standl.

Chandisar, S.L. Meena 18399; Balaram temple, S.L. Meena 17984, 20786 (BSJO).

**Mirabilis jalapa** L.

Hathidhara forest, S.L. Meena 18240 (BSJO).

## ILLECEBRACEAE

**Cometes surattensis** Burm.f. [= *Cometes surattensis* Burm. var. *ambajiensis* Bedi and Madala]

Old mines site - Ambaji, J.S. Bedi 10079 (BARO).

## AMARANTHACEAE

**Achyranthes aspera** L.

Ambaji on way towards Mt. Abu road, R.S. Patel 10187 (SPU).

\***Achyranthes porphyristachya** Wall. ex Moq. [= *Achyranthes aspera* L. var. *porphyristachya* (Wall. ex Moq.) Hook.f.] Balaram - Ambaji Wildlife Sanctuary.

**Aerva javanica** (Burm. f.) Juss. ex Schult. var. **javanica**

Jessore Wildlife Sanctuary, S.L. Meena 17920; Ujjanwada, S.L. Meena 18308 (BSJO); Balaram, A.R. Menon 1154 (SPU).

**Aerva javanica** (Burm. f.) Juss. ex Schult. var. **bovei** Webb.

Dantiwara, S.L. Meena 17843 (BSJO).

**Aerva lanata** (L.) Juss.

Amirgarh, S.L. Meena 20772 (BSJO).

**Aerva sanguinolenta** (L.) Blume

Ambaji Ghata, S.L. Meena 20672; Hathidhara forest, S.L. Meena 18377; Jessore Wildlife Sanctuary, S.L. Meena 17897 (BSJO); Balaram, S.K. Patel 4640; G.V. Gopal 967 (SPU).

**Alternanthera sessilis** (L.) R. Br. ex DC.

Chichodra, S.L. Meena 18322 (BSJO).

**Amaranthus lividus** L.

Gabbar nursery area Ambaji, S.L. Meena 17283 (BSJO).

**Amaranthus spinosus** L.

Hathidhara forest, S.L. Meena 17802; Dhankwadi near Bhabhar, S.L. Meena 18393 (BSJO).

**Amaranthus tricolor** L.

Tharad, S.L. Meena 18315 (BSJO); Pethapur near Ambaji, R.S. Patel 10725 (SPU).

**Amaranthus viridis** L.

Dudosar, S.L. Meena 17958; Badargarh, S.L. Meena 18346 (BSJO); Balaram, G.V. Gopal 1052 (SPU).

**Celosia argentea** L.

Tharad, S.L. Meena 17861; Badargarh near Ambaji, S.L. Meena 18004 (BSJO).

**Digera muricata** (L.) Mart.

Jessore Wildlife Sanctuary, S.L. Meena 17863; Hathidhara forest, S.L. Meena 18195, 18384 (BSJO); Amirgarh, A.R. Menon 1235; Balaram, G. V. Gopal 816 (SPU).

**Gomphrena serrata** L.

Ambaji Wildlife Sanctuary, S.L. Meena 20651 (BSJO).

**Nothosaerva brachiata** (L.) Wight

Mahuda near Ambaji, S.L. Meena 20682; Rohita, S.L. Meena 18329; Jessore Wildlife Sanctuary, S.L. Meena 17976 (BSJO).

**Pupalia lappacea** (L.) Juss. var. **lappacea** [= *Pupalia lappacea* (L.) Juss. var. **velutina** (Moq.) Hook.f.]

Jessore Wildlife Sanctuary, S.L. Meena 17876, 18163, 18183 (BSJO); Balaram, A.R. Menon 1155; Amirgarh, A.R. Menon 1090; Jajara, S.K. Patel 4648 (SPU).

#### CHENOPODIACEAE

**Chenopodium album** L.

Balaram, A.R. Menon 1150; Ambaji near rivulets on way towards Mt. Abu road, R.S. Patel 3449 (SPU).

**Chenopodium murale** L.

Balaram, G.V. Gopal 838 (SPU).

**Suaeda fruticosa** (L.) Forssk. J.F. Gmel.

Suigao, S.L. Meena 17960 (BSJO).

**Suaeda maritime** (L.) Dumort. [= *Suaeda nudiflora* (Willd.) Moq.]

Suigao, S.L. Meena 17961 (BSJO).

## BASELLACEAE

**Basella rubra** L.

Dairy near Iqbalgarh, S.L. Meena 18072 (BSJO).

## POLYGONACEAE

**Persicaria barbata** (L.) H. Hara

Deesa, S.L. Meena 17279; Gabbar river - Ambaji, S.L. Meena 20685 (BSJO).

**Persicaria glabra** (Willd.) M. Gomez

Balaram temple, S.L. Meena 18033; Jessore Wildlife Sanctuary, S.L. Meena 18164 (BSJO).

**Polygonum effusum** Meisn. [= *Polygonum plebeium* R. Br. var. *effusum* (Meisn.) Hook.f.]

Jessore Wildlife Sanctuary, S.L. Meena 20618 (BSJO).

**Polygonum plebeium** R. Br. var. **plebeium**

Jessore Wildlife Sanctuary, S.L. Meena 17835 (BSJO); near Panssa village - Ambaji, R.S. Patel 2824 (SPU).

**Polygonum plebeium** R. Br. var. **indica** (Heyne) Hook.f.

Ujjanwada, S.L. Meena 18309 (BSJO).

**Polygonum plebeium** R. Br. var. **micranthema** Hook.f.

Ujjanwada near Bhabhar, S.L. Meena 20734 (BSJO).

## ARISTOLOCHIACEAE

**Aristolochia bracteolata** Lam.

Dantiwada dam, S.L. Meena 18062 (BSJO); Amirgarh, A.R. Menon 1966 (SPU).

## LORANTHACEAE

**Dendrophthoe falcata** (L. f.) Ettingsh. [= *Dendrophthoe falcata* (L.f.) Ettingsh. var. *pubescens* (Hook.f.) Santapau & Herb. ex Shah]

Balaram, S.L. Meena 17855, 17996; Danta - Palanpur road, S.L. Meena 18266 (BSJO).

**Viscum angulatum** B. Heyne ex DC.

Jessore Wildlife Sanctuary, S.L. Meena 18217 (BSJO).

\***Viscum articulatum** Burm.f.

Balaram - Ambaji Wildlife Sanctuary.

## EUPHORBIACEAE

**Acalypha ciliata** Forssk.

Amirgarh hills, S.L. Meena 18082 (BSJO).

**Acalypha indica** L.

Sharepur, S.L. Meena 17864 (BSJO).

**Acalypha lanceolata** Willd.

Near Ravaran valo bhankhro - Ambaji, R.S. Patel 10235 (SPU).

**Acalypha malabarica** Mull.-Arg.

Palanpur, S.L. Meena 20611 (BSJO).

**Baliospermum solenifolium** (Burm.) Suresh [= *Baliospermum montanum* (Willd.) Mull.-Arg.]

Near Ranpur - Ambaji, R.S. Patel 10151 (SPU).

**Breynia retusa** (Dennst.) A. Juss.

Hathidhara, S.L. Meena 18378 (BSJO).

**Bridelia retusa** (L.) Spreng.

Chandisar - Dantiwara road, S.L. Meena 18060; Hathidhara forest, S.L. Meena 18378 (BSJO); near Panssa riverlet - Ambaji, R.S. Patel 2768 (SPU).

**Chrozophora plicata** (Vahl) A. Juss. ex Spreng. [= *Chrozophora prostata* Dalzell var. *parvifolia* (Klotzsch ex Schweinf.) N.P. Balakr.]

Ujjanwada pond near Bhabhar, S.L. Meena 20732 (BSJO).

**Chrozophora rottleri** (Gieserer) A. Juss. ex Spreng.

Ujjanwada, S.L. Meena 18336 (BSJO); Ambaji, A.R. Menon 1375 (SPU).

**Chrozophora tinctoria** (L.) A. Juss. [= *Chrozophora hierosolymitana* Spreng.]

Chichodra, S.L. Meena 18321 (BSJO).

**Croton bonplandianum** Baill.

Sundha, S.L. Meena 18371 (BSJO); Ambaji, R.S. Patel 3470 (SPU).

**Euphorbia caducifolia** Haines

Bardia near Bhabhar, S.L. Meena 20717 (BSJO).

**\*Euphorbia chamaesyce** L.

Balaram - Ambaji Wildlife Sanctuary.

**Euphorbia clarkeana** Hook. f.

Chichora (Bhabhar - Radhanpur road), S.L. Meena 18311 (BSJO).

**Euphorbia dracunculoides** Lam.

Nava - Kharia (Sihori), S.L. Meena 18366 (BSJO).

**Euphorbia heterophylla** L. [= *Euphorbia geniculata* Ortega]

Avada village near Jessore Wildlife Sanctuary, S.L. Meena 17936 (BSJO); near Rinchhadi village - Ambaji, R.S. Patel 2943 (SPU).

**Euphorbia heyneana** Spreng.

Jessore Wildlife Sanctuary, S.L. Meena 18205 (BSJO).

**Euphorbia hirta** L.

Jessore Wildlife Sanctuary, S.L. Meena 18175; Amirgarh hills, S.L. Meena 18083 (BSJO).

**Euphorbia indica** Lam.

Sharepur, S.L. Meena 17869; Jessore Wildlife Sanctuary, S.L. Meena 20795 (BSJO).

**Euphorbia pulcherrima** Willd. ex Klotzsch

Megwas near Hadad, S.L. Meena 20680 (BSJO).

**Euphorbia thymifolia** L.

Ambaji nava Bamodara, R.S. Patel 10386; Kedarnath - Jessore Wildlife Sanctuary, S.K. Patel 4627 (SPU).

**Euphorbia tirucalli** L.

Sharepur, S.L. Meena 17988; Virampur, S.L. Meena 18248 (BSJO).

**Flueggea leucopyrus** Willd. [= *Securinega leucopyrus* (Willd.) Mull.-Arg.]

Amirgarh, A.R. Menon 1106 (SPU).

**Jatropha curcas** L.

Padlia near Ambaji, S.L. Meena 17273 (BSJO).

**Jatropha gossypifolia** L.

Balaram, S.L. Meena 18275 (BSJO).

**Mallotus philippensis** (Lam.) Mull.-Arg.

Hathidhara forest, S.L. Meena 18279 (BSJO); Balaram, G. V. Gopal 1061; A.R. Menon 1449 (SPU).

**Micrococca mercurialis** (L.) Benth.

Khara near Bhabhar, S.L. Meena 20698 (BSJO).

**Phyllanthus amarus** Schum. & Thonn.

Hathidhara forest, S.L. Meena 17299; Jessore Wildlife Sanctuary, S.L. Meena 17915 (BSJO).

**Phyllanthus debilis** Klein ex Willd.

Ranpur hills near Ambaji, R.S. Patel 2803 (SPU).

**Phyllanthus emblica** L.

Manpuria near Jessore Wildlife Sanctuary, S.L. Meena 17944 (BSJO).

**Phyllanthus fraternus** Webster

Jessore Wildlife Sanctuary, S.L. Meena 18134 (BSJO); Amirgarh, A.R. Menon 1241; Hathipagla near Ambaji, R.S. Patel 1036 (SPU).

**Phyllanthus maderaspatensis** L.

Amirgarh, S.L. Meena 20757 (BSJO); Amirgarh, A.R. Menon 1934 (SPU).

**Phyllanthus reticulatus** Poir.

Bagdari river near Balaram, S.L. Meena 17260; Kangura near Ambaji, S.L. Meena 18247; Nava-Kharia near Sihori, S.L. Meena 18365 (BSJO); Panssa village near Ambaji, R.S. Patel 2583 (SPU).

**Phyllanthus virgatus** Forst. f.

Ambaji ghata on way to Hadad, S. L. Meena 18268; Vikri near Hadad, S. L. Meena 20668 (BSJO).

**Ricinus communis** L.

Avada village near Jessore Wildlife Sanctuary, S.L. Meena 17941 (BSJO); Ambaji, A.R. Menon 1386 (SPU).

**Securinega virosa** (Roxb. ex Willd.) Baillon

Gabbar nursery near Ambaji, S.L. Meena 17285 (BSJO); Gabbar, R.S. Patel 2654 (SPU).

**Tragia hildebrandtii** Mull. Arg.

Amirgarh, A.R. Menon 1955 (SPU).

#### U I . M A C E A E

**Holoptelea integrifolia** Planch.

Jessore Wildlife Sanctuary, S.L. Meena 17836 (BSJO); Koteswar road Ambaji, R.S. Patel 2728 (SPU).

#### U R T I C A C E A E

**Gynostegia pentandra** (Roxb.) Miq. [= *Pouzolzia pentandra* (Roxb.) Benn.]

Hathidhara forest, S.L. Meena 18242 (BSJO).

**Laportea interrupta** (L.) Chew

Hathidhara forest, S.L. Meena 18242 (BSJO).

**\*Pouzolzia zeylanica** (L.) Benn. & R. Br.

Balaram - Ambaji Wildlife Sanctuary.

## MORACEAE

**Ficus amplissima** Sm.

Nana Bamodra, R.S. Patel 3563 (SPU).

**Ficus arnottiana** (Miq.) Miq.

Ambaji, R.S. Patel 3534 (SPU).

**Ficus benghalensis** L.

Virampur, S.L. Meena 17289; Chivari near Danta, S.L. Meena 20658; Amirgarh, S.L. Meena, 20781 (BSJO).

**\*Ficus carica** L.

Danta forest.

**Ficus hispida** L. f.

Bagdari river near Balaram, S.L. Meena 17262 (BSJO).

**Ficus racemosa** L.

Chapri nala near Ambaji, S.L. Meena 17276; Gabbar nursery near Ambaji, S.L. Meena 20687 (BSJO).

**\*Ficus religiosa** L.

Danta forest and Jessore Wildlife Sanctuary.

**\*Ficus tsjahela** Burm.f.

Balaram - Ambaji Wildlife Sanctuary.

**Ficus virens** Aiton

Virampur, S.L. Meena 17267 (BSJO).

**Morus alba** L. [= *Morus indica* L.]

Khardia near Danta, S.L. Meena 18009; Sharepur, S.L. Meena 17866, 17868 (BSJO).

## CASUARINACEAE

**Casuarina equisetifolia** L.

Jessore Wildlife Sanctuary, S.L. Meena 17916 (BSJO).

## CERATOPHYLLACEAE

**\*Ceratophyllum demersum** L.

Balaram - Ambaji Wildlife Sanctuary.

## GNETACEAE

**Ephedra foliata** Boiss. ex C.A. Mey. [= *Ephedra ciliata* Fisch. & C.A. Mey.]

Tatoda on way to Dhanera, S.L. Meena 20751 (BSJO).

## MONOCOTYLEDONS

## HYDROCHARITACEAE

**Hydrilla verticillata** (L. f.) Royle

Dantiwara dam, S.L. Meena 18064 (BSJO).

**Nechamandra alternifolia** (Roxb. ex Wight) Thwaites [= *Lagarosiphon alternifolia* (Roxb.) Druce]  
Suigao pond, S.L. Meena 20728 (BSJO).

**Ottelia alismoides** (L.) Pers.

Vandvera (Danta), K.C. Patel 10597 (SPU).

**Vallisneria densiserrulata** (Makino) Makino [= *Vallisneria spiralis* L. var. **densiserrulata** Makino]  
Jessore Wildlife Sanctuary, S.L. Meena 20632; Dantiwara dam, S.L. Meena 18065 (BSJO).

#### ORCHIDACEAE

\***Nervilia plicata** (Andrews) Schltr.

Balaram - Ambaji Wildlife Sanctuary.

#### ZINGIBERACEAE

**Curcuma decipiens** Dalzell

Hathidhara forest, S.L. Meena 18232 (BSJO).

**Curcuma inodora** Blatt.

Khaiwad (Danta), K.C. Patel 10576 (SPU).

#### AMARYLLIDACEAE

**Crinum latifolium** L.

Kangura forest near Ambaji, S.L. Meena 20836 (BSJO).

#### AGAVACEAE

\***Agave americana** L.

Danta forest and Balaram - Ambaji Wildlife Sanctuary.

**Agave cantula** Roxb.

Balaram, S.L. Meena 17854 (BSJO).

#### DIOSCOREACEAE

**Dioscorea bulbifera** L.

Jessore Wildlife Sanctuary, S.L. Meena 18222 (BSJO).

**Dioscorea hispida** Dennst.

Jessore Wildlife Sanctuary, S.L. Meena 18213 (BSJO).

**Dioscorea pentaphylla** L.

Vedveree (Danta), K.C. Patel 10632 (SPU).

#### ALOACEAE

\***Aloe vera** (L.) Burm.f.

Danta forest.

#### ANTHERICACEAE

**Chlorophytum borivillianum** Santapau & R.R. Fern.

Hill near Buzdo (Danta), K.C. Patel 2128 (SPU).

**Chlorophytum tuberosum** (Roxb.) Baker

Amirgarh hills near Ghanga village, S.L. Meena 20782 (BSJO); Danta, K.C. Patel 2128 (SPU).

## ASPARAGACEAE

**Asparagus asiaticus** L.

Chouhan garh near Jessore, S.L. Meena 18192 (BSJO).

**Asparagus gonoclados** Baker

Balaram, G.V. Gopal 1401 (SPU).

**Asparagus racemosus** Willd.

Khara near Bhabhar, S.L. Meena 20702 (BSJO); Danta, K.C. Patel 4083 (SPU).

## ASPHODELACEAE

**Asphodelus tenuifolius** Cav.

Nava-Kharia near Sihori, S.L. Meena 18367 (BSJO); Ambaji, A.R. Menon 1846 (SPU).

## COLCHICACEAE

**Gloriosa superba** L.

Amirgarh hills, S.L. Meena 18094 (BSJO).

## HYACINTHACEAE

**Drimia indica** (Roxb.) Jessop

Amirgarh hills, S.L. Meena 18116 (BSJO); Jessore Wildlife Sanctuary, S.K. Patel 4644 (SPU).

## PONTEDERIACEAE

**Monochoria vaginalis** (Burm.f.) C. Persl

Ujjanwada near Bhabhar, S.L. Meena 20740 (BSJO).

## COMMELINACEAE

**Commelina albescens** Hassk.

Vikri near Hadad, S.L. Meena 20661; Jessore Wildlife Sanctuary, S.L. Meena 18172; Danta, S.L. Meena 18259; Hathidhara forest, S.L. Meena 18238 (BSJO).

\***Commelina benghalensis** L.

Danta forest.

\***Commelina diffusa** Burm.f.

Danta forest.

**Commelina erecta** L.

Amirgarh hills, S.L. Meena 18096 (BSJO).

**Commelina forsskalii** Vahl

Manpuria near Jessore Wildlife Sanctuary, S.L. Meena 17953 (BSJO).

\***Commelina hasskarlii** C.B. Clarke

Danta forest.

**Commelina paludosa** Blume

Amirgarh hills, S.L. Meena 18115 (BSJO).

\***Cyanotis axillaris** (L.) D. Don ex Sweet [= *Tonningia axillaris* (L.) Kuntze]

Danta forest.

**Cyanotis cristata** (L.) D. Don

Hathidhara forest, S.L. Meena 18021 (BSJO).

\***Cyanotis fasciculata** (B. Heyne ex Roth) Schult & Schult.f.

Danta forest.

**Murdannia nudiflora** (L.) Brenan

Jessore Wildlife Sanctuary, S.L. Meena 18132, 18143, 20788; Kangura near Ambaji, S.L. Meena 18037; Avada village near Jessore Wildlife Sanctuary, S.L. Meena 17933 (BSJO).

ARECACEAE (PALMAE *nom. alt.*)

**Phoenix sylvestris** (L.) Roxb.

Balaram, G.V. Gopal 737; Ambaji, A.R. Menon 1443 (SPU).

TYPHACEAE

**Typha domingensis** Pers. [= *Typha angustata* Borry & Chaub.]

Jessore Wildlife Sanctuary, S.L. Meena 18168; Sipu dam, S.L. Meena 20754 (BSJO); Balaram, G.V. Gopal 951 (SPU).

ARACEAE

**Amorphophallus margaritiferum** (Roxb.) Kunth [= *Plesmonium margaritiferum* (Roxb.) Schott]

Hathidhara forest, S.L. Meena 18231 (BSJO).

ALISMACEAE

**Limnophyton obtusifolium** (L.) Miq.

Dantiwara dam, S.L. Meena 29607 (BSJO).

POTAMOGETONACEAE

**Potamogeton crispus** L.

Jorapura near Hadad, S.L. Meena 20678 (BSJO).

**Stuckenia pectinatus** (L.) Borner [= *Potamogeton pectinatus* L.]

Dantiwara forest, S.L. Meena 18066 (BSJO).

HYDROCHARITACEAE

\***Najas marina** L.

Jessore Wildlife Sanctuary.

\***Najas minor** All.

Jessore Wildlife Sanctuary.

**Najas welwitschii** Rendle

Karanpur ponds, S.L. Meena 20639 (BSJO).

ERIOCAULACEAE

\***Eriocaulon heterolepis** Steud. [= *Eriocaulon diana* Fyson]

Jessore Wildlife Sanctuary.

\***Eriocaulon truncatum** Buch.-Ham. ex Mart.

Jessore Wildlife Sanctuary.

\***Eriocaulon sollyanum** Royle

Jessore Wildlife Sanctuary.

## CYPERACEAE

**Bolboschoenus maritimus** (L.) Palla subsp. *affinis* (Roth) T. Koyama [= *Scirpus affinis* Roth]

Dantiwara dam, S.L. Meena 18063 (BSJO).

**Bulbostylis barbata** (Rottb.) C.B. Clarke

Jessore Wildlife Sanctuary, S.L. Meena 18126 (BSJO).

**Cyperus alulatus** J. Kern

Jessore Wildlife Sanctuary, S.L. Meena 20799 (BSJO).

**Cyperus bulbosus** Vahl

Panssa riverlet - Ambaji, R.S. Patel 2892 (SPU).

**Cyperus compressus** L.

Hathidhara forest, S.L. Meena 18224, 18244; Ambaji on way to Danta, S.L. Meena 20646 (BSJO).

**Cyperus difformis** L.

Chapri nala near Ambaji, S.L. Meena 17275; Dantiwara dam, S.L. Meena 20605; Jessore Wildlife Sanctuary, S.L. Meena 18169, 20641; Vikri near Hadad, S.L. Meena 20662; Gabbar nursery Ambaji, S.L. Meena 20688 (BSJO).

**Cyperus exaltatus** Retz.

Sonali river bank, R.S. Patel 3536 (SPU).

**Cyperus iria** L.

Vikri near Hadad, S.L. Meena 20665; Jessore Wildlife Sanctuary, S.L. Meena 20800 (BSJO).

**Cyperus laevigatus** L.

Balaram, A.R. Menon 1851 (SPU).

**Cyperus meeboldii** Kuk.

Jessore Wildlife Sanctuary, S.L. Meena 18144 (BSJO).

**Cyperus michelianus** (L.) Delile [= *Scirpus michelianus* L.]

Jessore Wildlife Sanctuary, S.L. Meena 17832; Sharepur, S.L. Meena 17979 (BSJO).

**Cyperus michelianus** (L.) Delile subsp. **pygmaeus** (Rottb.) Asch. & Graebn. [= *Cyperus pygmaeus* Rottb.]

Chichodra near Bhabhar, S.L. Meena 18316 (BSJO).

**Cyperus niveus** Retz.

Kangura near Ambaji, S.L. Meena 20831 (BSJO).

**Cyperus nutans** Vahl var. **nutans**

Amirgarh, S.L. Meena 20767 (BSJO).

**Cyperus nutans** Vahl var. **eleusinoides** (Kunth) Haines

Gabbar area - Ambaji, S.L. Meena 18048 (BSJO); Balaram, A.R. Menon 181 (SPU).

**Cyperus pangorei** Rottb.

Jessore Wildlife Sanctuary, S.L. Meena 17905; Chichodra near Bhabhar, S.L. Meena 18318 (BSJO); Parevanu pani bhankhro, R.S. Patel 10075 (SPU).

**Cyperus rotundus** L.

Dudhwa, S.L. Meena 18290; Jessore Wildlife Sanctuary, S.L. Meena 18161; Suigao, S.L. Meena 20725 (BSJO).

**Cyperus squarrosus** L. [= *Mariscus squarrosus* (L.) C.B. Clarke]

Jessore Wildlife Sanctuary, S.L. Meena 18121, 18130; Gabbar river near Ambaji, S.L. Meena 20838 (BSJO).

**Cyperus tuberosus** Rottb. [= *Cyperus rotundus* L. subsp. **tuberosus** (Rottb.) Kuk.]

Jessore Wildlife Sanctuary, S.L. Meena 17918; Mool sagar, S.L. Meena 17242 (BSJO).

**Eleocharis atropurpurea** (Retz.) J. Presl & C. Presl

Ambaji gahata - Hadad road, S.L. Meena 20676; Surana near Sihori, S.L. Meena 20742 (BSJO); Balaram, A.R. Menon 1852 (SPU).

**Eleocharis dulcis** (Burm. f.) Trin. ex Hensch.

Suigao, S.L. Meena 1796; Boru near Bhabhar, S.L. Meena 18361 (BSJO); near Shiri river, R.S. Patel 10303 (SPU).

**Fimbristylis aestivalis** Vahl

On way to Panssa - Ambaji, R.S. Patel 2843 (SPU).

**Fimbristylis bisumbellata** (Forssk.) Bubani

Bagdari river near Balaram, S.L. Meena 17259; Jessore Wildlife Sanctuary, S.L. Meena 20621 (BSJO); Balaram, A.R. Menon 1852 (SPU).

**Fimbristylis cymosa** R. Br.

Vikri near Hadad, S.L. Meena 20664 (BSJO).

**Fimbristylis dichotoma** (L.) Vahl

Gabbar nursery - Ambaji, S.L. Meena 17278; Sipu dam, S.L. Meena 17978; Kangora near Ambaji, S.L. Meena 20830 (BSJO).

**Fimbristylis dipsacea** (Rottb.) C.B. Clarke

Jessore Wildlife Sanctuary, S.L. Meena 18074 (BSJO).

**Fimbristylis merrillii** J. Kern

Jessore Wildlife Sanctuary, S.L. Meena 18170 (BSJO).

**Fimbristylis microcarya** F. Muell.

Near Ravaran valo bhankhro, R.S. Patel 3593 (SPU).

**Fimbristylis quinquangularis** (Vahl) Kunth

Jessore Wildlife Sanctuary, S.L. Meena 18152, 20619 (BSJO).

**Fimbristylis sieberiana** Kunth

Gabbar area - Ambaji, S.L. Meena 17282 (BSJO).

**Fimbristylis squarrosa** Vahl

Jessore Wildlife Sanctuary, S.L. Meena 17849 (BSJO).

**Fuirena ciliaris** (L.) Roxb.

Vikri near Hadad, S.L. Meena 20663 (BSJO).

**Kyllinga bulbosa** P. Beauv.

Amirgarh hills, S.L. Meena 18099 (BSJO).

**Lipocarpa squarrosa** (L.) Goetgh. [= *Riklliella squarrosa* (L.) J. Raynal]

Gabbar area - Ambaji, S.L. Meena 20689 (BSJO).

**Pycreus flavidus** (Retz.) T. Koyama

Balaram, S.L. Meena 18034; Gabbar river - Ambaji, S.L. Meena 17277 (BSJO).

**Schoenoplectiella lateriflora** (J.F. Gmel.) Lye

Chichodra near Bhabhar, S.L. Meena 18317 (BSJO).

**Schoenoplectus mucronatus** (L.) Palla

Kesharpura - Ambaji, S.L. Meena 20681 (BSJO).

POACEAE (GRAMINEAE *nom. alt.*)

**Acrachne racemosa** (Heyne ex Roth) Ohwi

Hathidhara forest, S.L. Meena 17805; Amirgarh hills, S.L. Meena 18110; Jessore Wildlife Sanctuary, S.L. Meena 18225 (BSJO); Amirgarh hills, A.R. Menon 1520 (SPU).

**Aeluropus lagopoides** (L.) Thwaites

Suigao, S.L. Meena 17962; Masali near Ambaji, S.L. Meena 18343; Boru near Suigao, S.L. Meena 18362 (BSJO).

**Alloteropsis cimicina** (L.) Stapf

Jessore Wildlife Sanctuary, S.L. Meena 18144, 18189; Amirgarh hills, S.L. Meena 20773, 18114 (BSJO).

**Apluda mutica** L.

Jessore Wildlife Sanctuary, S.L. Meena 17908, 18145 (BSJO); Ambaji, A.R. Menon 1529 (SPU).

**\*Aristida adscensionis** L. [= *Aristida adscensionis* L. var. *pumila* (Decne.) Coss. & Durieu]

Jessore Wildlife Sanctuary, S.L. Meena 17884 (BSJO).

**Aristida funiculata** Trin. & Rupr.

Ambaji, S.L. Meena 18276; Jessore Wildlife Sanctuary, S.L. Meena 18146 (BSJO).

**Arthraxon lancifolius** (Trin.) Hochst.

Danta - Hadad road, S.L. Meena 18258 (BSJO).

**\*Arundinella pumila** (Hochst.) Steud.

Jessore Wildlife Sanctuary and Balaram- Ambaji Wildlife Sanctuary.

**Arundo donax** L.

Gabbar river - Ambaji, S.L. Meena 18051; Jessore Wildlife Sanctuary, S.L. Meena 17972 (BSJO).

**Bambusa bambos** (L.) Voss [= *Bambusa arundinacea* Willd.]

Ambaji, A.R. Menon 1504 (SPU).

**\*Bothriochloa pertusa** (L.) A. Camus [= *Dichanthium pertusum* (L.) Clayton]

Balaram- Ambaji Wildlife Sanctuary.

**Brachiaria deflexa** (Schumach.) C. E. Hubb. ex Robyns

Jessore Wildlife Sanctuary, S.L. Meena 18139, 18148 (BSJO).

**Brachiaria ramosa** (L.) Stapf

Jessore Wildlife Sanctuary, S.L. Meena 18171 (BSJO); Amirgarh. A.R. Menon 1545 (SPU).

**Brachiaria reptans** (L.) G.A. Gardner & C.E. Hubb.

Deema near Tharad, S.L. Meena 20721 (BSJO).

**Cenchrus biflorus** Roxb.

Amirgarh, A.R. Menon 1542 (SPU).

**Cenchrus ciliaris L.**

Jessore Wildlife Sanctuary, S.L. Meena 17974, 18174 (BSJO); Balaram, A.R. Menon 1518 (SPU).

**Cenchrus setigerus Vahl**

Dantiwara dam, S.L. Meena 17841; Jessore Wildlife Sanctuary, S.L. Meena 18220; Deema near Deesa, S.L. Meena 18294 (BSJO); Amirgarh, A.R. Menon 1516; Balaram, G. V. Gopal 2035 (SPU).

**Chloris barbata Sw.**

Tharad, S.L. Meena 17862; Bav near Deesa, S.L. Meena 18299 (BSJO).

**Chloris montana Roxb.**

Amirgarh hills, S.L. Meena 18106 (BSJO).

**Chloris virgata Sw.**

Sebolpani near Ambaji, R.S. Patel 10035 (SPU).

**\*Coix lacryma-jobi L.**

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

**Crypsis schoenoides (L.) Lam.**

Ujjanwada near Bhabhar, S.L. Meena 18325 (BSJO).

**\*Cymbopogon martini (Roxb.) W. Watson**

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

**Cynodon dactylon (L.) Pers.**

Jessore Wildlife Sanctuary, S.L. Meena 17919; Buretha near Bhabhar, S.L. Meena 18330; Ujjanwada near Bhabhar, S.L. Meena 20735 (BSJO).

**Dactyloctenium aegyptium (L.) Willd.**

Hathidhara, S.L. Meena 17808; Ujjanwada, S.L. Meena 20736 (BSJO).

**Dactyloctenium aristatum Link**

Jessore Wildlife Sanctuary, S.L. Meena 18141; Suigao, S.L. Meena 20726; Ujjanwada, S.L. Meena 20736 (BSJO).

**Dactyloctenium scindicum Boiss.**

Deodhar, S.L. Meena 20714 (BSJO).

**Dendrocalamus strictus (Roxb.) Nees**

Balaram, S.L. Meena 17981, 20643 (BSJO); Jessore Wild life Sanctuary, S.K. Patel 4618 (SPU).

**Desmostachya bipinnata (L.) Stapf**

Badargarh near Amirgarh, S.L. Meena 18005; Godha near Palanpur, S.L. Meena 17819 (BSJO).

**Dichanthium annulatum (Forssk.) Stapf**

Ujjanwada near Bhabhar, S.L. Meena 18333; Deema near Tharad, S.L. Meena 20720 (BSJO).

**Dichanthium caricosum (L.) A. Camus**

Gabbar river - Ambaji, S.L. Meena 20683 (BSJO).

**Dichanthium foveolatum (Delile) Roberty**

Amirgarh hills, S.L. Meena 18002 (BSJO).

**\*Digitaria abludens (Roem. & Schult.) Veldkamp**

Balaram- Ambaji Wildlife Sanctuary.

***Digitaria ciliaris* (Retz.) Koeler**

Gabbar river - Ambaji, S.L. Meena 17288 (BSJO).

**\**Dimeria ornithopoda* Trin.**

Jessore Wildlife Sanctuary and Balaram- Ambaji Wildlife Sanctuary.

**\**Dinebra retroflexa* (Vahl) Panz.**

Jessore Wildlife Sanctuary and Balaram- Ambaji Wildlife Sanctuary.

***Echinochloa colona* (L.) Link**

Sharepur, S.L. Meena 17867; Kangura - Umbarpani near Ambaji, S.L. Meena 18035; Suigao, S.L. Meena 20730 (BSJO).

***Echinochloa frumentacea* Link**

Jessore Wildlife Sanctuary, S.L. Meena 18150; Hathidhara forest, S.L. Meena 20811 (BSJO).

***Eleusine indica* (L.) Gaertn.**

Hathidhara, S.L. Meena 17804, 17805 (BSJO).

Amirgarh hills, S.L. Meena 18109 (BSJO).

***Melanocenchris jacquemontii* Taub. & Spach.**

Balaram, A.R. Menon 2316 (SPU).

***Melinis repens* (Willd.) Zizka [= *Rhynchelytrum repens* (Willd.) C. E. Hubb.]**

Kangura near Ambaji, S.L. Meena 20835 (BSJO).

***Oplismenus burmannii* (Retz.) P. Beauv.**

Jessore Wildlife Sanctuary, S.L. Meena 17880 (BSJO).

***Oplismenus compositus* (L.) P. Beauv.**

Jessore Wildlife Sanctuary, S.L. Meena 17889 (BSJO).

***Oropetium thomaeum* (L. f.) Trin.**

Amirgarh hills, S.L. Meena 18108; Vikri near Hadad, S.L. Meena 20667 (BSJO).

***Panicum antidotale* Retz.**

Chandisar, S.L. Meena 18061; Masali near Suigao, S.L. Meena 18354; Bav near Deesa, S.L. Meena 18300 (BSJO).

***Panicum maximum* Jacq.**

Manpuria near Jessore Wildlife Sanctuary, S.L. Meena 18208; Jessore Wildlife Sanctuary, S.L. Meena 18131 (BSJO).

***Panicum curviflorum* Hornem. [= *Panicum trypheron* Schult.]**

Nanamosar near Tharad, S.L. Meena 18291 (BSJO).

**\**Paspalidium flavidum* (Retz.) A. Camus**

Jessore Wildlife Sanctuary and Balaram - Ambaji Wildlife Sanctuary.

***Paspalidium geminatum* (Forssk.) Stapf**

Gabbar river - Ambaji, S.L. Meena 17286; Kangura near Ambaji, S.L. Meena 20644 (BSJO).

***Paspalum distichum* L. [= *Paspalum paspalodes* (Michx.) Scribn.]**

Gabbar river - Ambaji, S.L. Meena 18049 (BSJO).

***Pennisetum polystachium* (L.) Schult. [= *Pennisetum setosum* (Sw.) Rich.]**

Avada village near Jessore Wildlife Sanctuary, S.L. Meena 17938 (BSJO).

**Perotis hordeiformis** Nees ex Hook. & Arn.

Amirgarh, S.L. Meena 20760 (BSJO).

**Perotis indica** (L.) Kuntze

Jessore Wildlife Sanctuary, S.L. Meena 18154 (BSJO).

**Phragmites australis** (Cav.) Trin. ex Steud.

Gabbar area - Ambaji, S.L. Meena 20684; Ambaji, S.L. Meena 20832 (BSJO).

**Saccharum bengalense** Retz.

Dhuri on way to Palanpur-Danta, S.L. Meena 18016 (BSJO); Chagan - Balaram, G.V. Gopal 2061 (SPU).

**Saccharum spontaneum** L.

Gabbar river - Ambaji, S.L. Meena 18050; Jessore Wildlife Sanctuary, S.L. Meena 20797 (BSJO).

**Setaria intermedia** Roem. & Schult.

Jessore Wildlife Sanctuary, S.L. Meena 18223; Jessore Wildlife Sanctuary, S.L. Meena 17943; Chota - Pipu dam, S.L. Meena 18256; Khara near Bhabhar, S.L. Meena 20705 (BSJO).

**Setaria italica** (L.) P. Beauv.

Jessore Wildlife Sanctuary, S.L. Meena 18221 (BSJO).

**Setaria verticillata** (L.) P. Beauv.

Jessore Wildlife Sanctuary, S.L. Meena 17902; Hathidhara forest, S.L. Meena 18022; Tharad, S.L. Meena 20709 (BSJO); Amirgarh, A.R. Menon 1543 (SPU).

**\*Spodiopogon rhizophorus** (Steud.) Pil.

Jessore Wildlife Sanctuary and Balaram- Ambaji Wildlife Sanctuary.

**Sporobolus coromandelianus** (Retz.) Kunth

Danta, S.L. Meena 18260; Suigao, S.L. Meena 17967 (BSJO).

**Sporobolus helvolus** (Trin.) T. Durand & Schinz

Dantiwara, S.L. Meena 18067; Surana near Sihori - Deodar, S.L. Meena 20745 (BSJO).

**Sporobolus ioclados** (Nees ex Trin.) Nees

Mespura near Bhabhar, S.L. Meena 18340; Suigao, S.L. Meena 17964 (BSJO).

**Tetrapogon tenellus** (Roxb.) Chiov.

Amirgarh hills, S.L. Meena 18090; Khara near Bhabhar, S.L. Meena 20704 (BSJO).

**Themeda cymbaria** Hack.

Hadad, R.S. Patel 5714 (SPU).

**Themeda triandra** Forssk.

Ambaji near Hathipagla area, S.L. Meena 20827 (BSJO).

**Tragus mongolorum Ohwi** [= *Tragus roxburghii* Panigrahi]

Amirgarh hills, S.L. Meena 18084; Khara near Bhabhar, S.L. Meena 20703 (BSJO).

**Tripogon jacquemontii** Stapf

Amirgarh hills, S.L. Meena 18092 (BSJO).

**Urochloa setigera** (Retz.) Stapf [= *Brachiaria setigera* (Retz.) C. E. Hubb.]

Jessore Wildlife Sanctuary, S.L. Meena 18220 (BSJO).

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## REFERENCES

- ANONYMOUS, 2009. India State of Forest Report 2009. FSI, Dehradun.
- BENTHAM, G. AND J. D. HOOKER 1862-83. *Genera Plantarum*, Vol. 1-3. London.
- BHARATHI, S. G. 1959. A brief account of the flora of Vishnagar, North Gujarat and its environs. *J. Bombay Nat. Hist. Soc.* 56: 588-610.
- CHAMPION, H. G. AND S. K. SETH 1968. *A revised survey of the forest types of India*. Manager of publications, Delhi – 6. FSI 2001. *State of forest Report-2001*. Forest Survey of India (FSI).
- MEENA, S. L. 2004. Some new plants to the flora of Gujarat, India - I. *J. Econ. Taxon. Bot.* 28 (2): 387-388.
- MEENA, S. L. 2004a. Two new species of *Fimbristylis* (Cyperaceae) for Gujarat, India. *J. Econ. Taxon. Bot.* 28 (2) : 389-391.
- MEENA, S. L. 2005. Some new plants to the Flora of Gujarat, India – II. *J. Econ. Taxon. Bot.* 29 (2): 375-377.
- MEENA, S. L. 2007. Some new plants to the Flora of Gujarat, India – III. *J. Econ. Tax. Bot.* 31 (2): 466-469.
- MEENA, S. L. 2008. Ethnobotany of Banaskantha District, Gujarat State. *J. Econ. Taxon. Bot.* 32 (1) : 113-127.
- PATEL, K.C. 2002. *Floristics and Ethnobotanical Studies of Danta Forest of North Gujarat*. Ph. D. thesis, Sardar Patel University, Vallabh Vidhyanagar (Gujarat).
- PATEL, N. K. 2001. *Study of Angiospermic Plants with relation to Phytosociological and Ethnobotanical Study of Danta Taluka (Banaskantha dist.)*. Ph.D. thesis, North Gujarat University, Patan (Gujarat).
- PATEL, R. S. 2002. *Floristics and ethnobotanical studies of Ambaji Forest of north Gujarat*. Ph. D. thesis, Sardar Patel Univesity, Vallabh Vidhyanagar (Gujarat).
- RAGHAVAN, R. S., B. M. WADHWA, M. Y. ANSARI ROLLA, AND S. RAO 1981. A checklist of the plants of Gujarat. *Rec. Bot. Surv. India* 21 (2): 1-127.
- SAXTON, W. T. 1922. Additional notes on plants of northern Gujarat. *Rec. Bot. Surv. India* 9 (3): 251-226.
- SAXTON, W. T. AND L. G. SEDGWICK 1918. Plants of north Gujarat. *Rec. Bot. Surv. India* 6 : 207-323.
- SHAH, G. L. 1978. *Flora of Gujarat State*, Part I & II. Sardar Patel University, Vallabh Vidhyanagar (Gujarat).
- SHETTY, B.V. AND V. SINGH 1993. *Flora of Rajasthan*, Vols. 1-3. BSI; Calcutta.
- YOGI, D. V. 1970. A contribution to the flora of North Gujarat. Ph. D. Thesis, Sardar Patel Univesity, Vallabh Vidhyanagar (Gujarat).

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