



R. R. Lalan College

## 7.1.5 Green campus at glance

College has its own mechanism to develop and maintain green and ecofriendly environment in the campus. Also, the college vision to fulfill its social responsibility by boosting greenery in the campus and ethical environment. The college has mobilized following activities for the same;

**Biodiversity surveys:**

The botany and Zoology department of the college plays active role in documenting the floral and faunal diversity of the campus. The department with the help of students has created a data bank of number of plants, birds and butterflies in the college campus. So far, the college has documented more following biodiversity;

**Plantation activities:**

The college IQAC and policy has a vision to increase the greenery and preserve the eco friendly environment in the campus. The college has organized frequent plantation activities and green drives. These are celebrated on the occasion of Guru prunima, NCC activity and by alumni association. The college offers the space for the community to have plantation which fulfils community responsibility.

Sr.No.	Group	No. of species documented
1	<b>No. of Plant species recorded</b>	<b>56 species , 724 number of trees</b> (in progress)
2.	No. of herbs and other flora	>100 (expected ,work in progress)
2	Birds	~35
3	Reptiles & Amphibians	10
4	Mammals	4
5	Butterflies	~20



Latitude: 23.238107  
Longitude: 69.658218  
Elevation: 108.75±3 m  
Accuracy: 3.0 m  
Time: 06-24-2021 10:38  
Note: alumni plantationsx

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Latitude: 23.238068  
Longitude: 69.659609  
Altitude: 57.86±3 m  
Accuracy: 17.4 m  
Time: 08-12-2021 10:13  
Note: gardening



Latitude: 23.236222  
Longitude: 69.660567  
Elevation: 109.18±3 m  
Accuracy: 3.0 m  
Time: 08-15-2021 09:58  
Notes:



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Latitude: 23.23807  
Longitude: 69.659071  
Elevation: 108.08±3 m  
Accuracy: 35.8 m  
Time: 08-19-2021 10:40  
Note: 5

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Green aereana in Admin block



Staff quarters (Aerial view)



Aerial view of Botanical garden



**Botanical garden with water recharge unit**

# Less carbon footprints

- Nearly 60 % of our student travel from rural areas ranging from 15-60 kms . **Thus 60% of them use public transport**
- 50% of the staff reside in staff quarters within the campus.
- No plastic policy framed for restriction of plastic use
- Promotion of recycling and Reuse
- Digital promotion to reduce paper waste. We use online exam thus saving nearly 1.5 lakh paper sheets per year of exam.

### 7.1.6 Environment Audit

College has ongoing process of Environment Audit externally with the help of Botany and Zoology department.

We have completed floral and faunal audit and the process is slowed down due to COVID-19. The environment audit process with external agency is ongoing.

The is also been taken agenda in IQAC.







**Green & Environment Audit Report  
With Action Plan  
for  
SHRI RAMJI RAVJI LALAN COLLEGE  
GOVERNMENT COLLEGE—BHUJ**



***Prepared by***

Universal Consultancy, Vadodara

GUJ/VDD/17959 dated 17-10-2007

IGBC-AP, GRIHA-PATRON, IGBC-FELLOW

MIE, Member-INTACH, Member-IGBC.

# Vegetation of Shri R. R. Lalan College Part 1

## TREES & SHRUBS



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## About Shree Ramji Ravji Lalan College

(Est: 20 June, 1953)

### OUR VISION

Making education an acculturating force in local, regional and national contexts.

### OUR MISSION


Refining sensitivities and perception that contribute to national cohesion, scientific temper, independence of mind and spirit- thus furthering the goals of socialism, secularism and democracy enshrined in our constitution.

## About Botany (Plant Science) Department

Botany, also called plant science, plant biology or phytology, is the science of plant life and a branch of biology. Botany is the scientific study of plants, its growth, reproduction, evolution, and adaptation, as well as the use of plants for food, fiber, and ornamental purposes including studies of algae, fungi, lichens, mosses, ferns, conifers and flowering plants.

**Scope:** Teaching & Higher Education, Forest department, Agriculture sector, Govt. & Private sectors, Individual Research, Research Centres (Forest Survey of India, GEER Foundation, Botanical Survey of India, etc.)

### Facilities

- Departmental Library
  - Individual laboratories for each semester
  - Laboratories equipped with modern instruments.
  - ICT enabled class rooms
  - Common college library with adequate number of books
- 



## From the Principal's Desk

Shree R.R.Lalan College is the first and largest institute of Kutch district offering higher education in the discipline of Humanity and Science, affiliated with KSKV Kachchh University. The main objective of this institute is to provide excellent academic and holistic development to the students through qualitative and effective teaching in various disciplines of humanity and science.



Dr. Ekta Joshi, who works in the Department of Biology of this college. She has an immense love for trees and the environment of the campus. She has done a great job in the field of the biology department. For her love and concern, she has classified all the trees with their regional name and scientific name and also gave detailed information about the merits and demerits of all trees in this handbook. Definitely, this book will help all the tree admirers to understand trees and their nourishment and benefit in the future. on behalf of the entire Lalan College, I heartily congratulate Dr. Ekta Joshi for doing this kind of noble work.

**Dr. C. S. Jhala**

R. R. Lalan College, Bhuj-Kutch.

# It takes a big heart to help shape little minds...

**Dr. Ekta Bhanuprasad Joshi** is currently working as Assistant Professor, Botany Department of Biology at Shree R.R. Lalan College, Bhuj since 2013. She has earned her B.Sc., M.Sc. and Ph.D. degrees from Hemchandracharya North Gujarat University, Patan. She has a teaching experience of 8 years in the Shree Matruchhaya Kanyavidyalaya, Bhuj. She has published several research publications in the field of Botany.



## Publications:

- **Lindernia dubia (L.) Pennell (Linderniaceae):** A new record for the flora of Gujarat State, India
- **Spigelia anthelmia L. (Loganiaceae):** A new generic record to the flora of Kachchh, Gujarat, India
- **Solanum diphylum L. (Solanaceae):** a new record to the flora of Gujarat state, India
- Contribution Of Tree Diversity Of Bhuj Urban Landscape To Maintain The Ecological Balance of Surrounding Ecosystems, Kachchh-Gujarat.
- Status and Distribution of RET Plant Species in Tapkeshwari Hill Range Landscape, Bhuj-Kachchh district of the Gujarat State
- Phyto-sociological Study of Prosopis juliflora in Tapkeshwari Hill Range Landscape, Bhuj-Kachchh district of the Gujarat State
- Quantitative Assessment of selected Medicinal Plants used in and around the Tapkeshwari Hill Range Landscape, Bhuj-Kachchh district of the Gujarat State
- Preliminary observation on the Ethno botanical plants of Pachchham Areas of Kachchh district, Gujarat, India
- Prevalence Of Traditional Medications Through Native Floral Elements Among Tribal Communities Of Kachchh Arid Ecosystem, Gujarat, India.
- Plants Get their Local Name- Special References on Kachchh District Plants, Gujarat, India
- Ecology And Marketing Pattern Of Ethnomedicinal Plants Of Kachchh District, Gujarat (India).
- Phytosociological Study and Management Action for the Invasive Weed: Prosopisjuliflora (Sw.) Dc. In Tapkeshwari Hill Ranges in the Kachchh Island, Gujarat, India.
- Ecology and conservation of threatened plants in Tapkeshwari Hill ranges in the Kachchh Island, Gujarat, India
- Diversity Pattern of Habitats and Vascular Plant species in Tapkesityari Hill Ranges in the Kachchh Island, Gujarat India.
- Ethnobotanical Study of Tapkeshwari Hill, Bhuj- Kachchh, India
- Some Noteworthy plants from Tapkeshwari hill Range, Kachchh district, Gujarat, India
- Hot Spot of Rare and Endangered Plant Species near Bhuj area, Kachchh, Gujarat

# INDEX

Botanical Name	Pg. No.	Botanical Name	Pg. No.
<i>Adansonia digitata</i>	7	<i>Couroupita guianensis</i>	32
<i>Abutilon indicum</i>	8	<i>Delonix regia</i>	33
<i>Ailanthus excelsa</i>	9	<i>Derris indica</i>	34
<i>Albizia saman</i>	10	<i>Dracaena reflexa</i>	35
<i>Anacardium occidentale</i>	11	<i>Duranta erecta</i>	36
<i>Azadirachta indica</i>	12	<i>Dichrostachys cinerea</i>	37
<i>Aegle marmelos</i>	13	<i>Emblica officinalis</i>	38
<i>Bauhinia purpurea</i>	14	<i>Euphorbia milii</i>	39
<i>Butea monosperma</i>	15	<i>Euphorbia tirucalli</i>	40
<i>Caesalpinia bonduc</i>	16	<i>Ficus benghalensis</i>	41
<i>Caesalpinia pulcherrima</i>	17	<i>Ficus benjamina</i>	42
<i>Calotropis gigantea</i>	18	<i>Ficus racemosa</i>	43
<i>Calotropis procera</i>	19	<i>Ficus religiosa</i>	44
<i>Capparis decidua</i>	20	<i>Gmelina arborea</i>	45
<i>Carica papaya</i>	21	<i>Grewia asiatica</i>	46
<i>Caryota urens</i>	22	<i>Grewia tenax</i>	47
<i>Casuarina equisetifolia</i>	23	<i>Guaiacum officinale</i>	48
<i>Citrus limon</i>	24	<i>Hibiscus rosa-sinensis</i>	49
<i>Commiphora stocksiana</i>	25	<i>Holoptelea integrifolia</i>	50
<i>Commiphora wightii</i>	26	<i>Ixora coccinea</i>	51
<i>Clerodendrum inerme</i>	27	<i>Jatropha integerrima</i>	52
<i>Conocarpus lancifolius</i>	28	<i>Justicia adhatoda</i>	53
<i>Cordia sebestena</i>	29	<i>Kigelia africana</i>	54
<i>Cordia sinensis</i>	30	<i>Lawsonia inermis</i>	55
<i>Cordyline fruticosa</i>	31	<i>Leucaena leucocephala</i>	56



# INDEX

Botanical Name	Pg. No.	Botanical Name	Pg. No.
<i>Leucophyllum frutescens</i>	57	<i>Ravenala madagascariensis</i>	82
<i>Limonia acidissima</i>	58	<i>Roystonea regia</i>	83
<i>Livistona chinensis</i>	59	<i>Salvadora oleoides</i>	84
<i>Mangifera indica</i>	60	<i>Salvadora persica</i>	85
<i>Manilkara hexandra</i>	61	<i>Santalum album</i>	86
<i>Manilkara zapota</i>	62	<i>Senna auriculata</i>	87
<i>Mimosa hamata</i>	63	<i>Sesbania sesban</i>	88
<i>Mimusops elengi</i>	64	<i>Soymida febrifuga</i>	89
<i>Moringa concanensis</i>	65	<i>Syzygium cumini</i>	90
<i>Moringa oleifera</i>	66	<i>Tamarindus indica</i>	91
<i>Morus alba</i>	67	<i>Tamarix aphylla</i>	92
<i>Murraya koenigii</i>	68	<i>Tecoma fulva</i>	93
<i>Nerium oleander</i>	69	<i>Tecoma stans</i>	94
<i>Parkinsonia aculeata</i>	70	<i>Terminalia catappa</i>	95
<i>Peltophorum pterocarpum</i>	71	<i>Thespesia populnea</i>	96
<i>Phoenix dactylifera</i>	72	<i>Thevetia peruviana</i>	97
<i>Phyllanthus acidus</i>	73	<i>Vitex negundo</i>	98
<i>Pithecellobium dulce</i>	74	<i>Wodyetia bifurcate</i>	99
<i>Plumbago auriculata</i>	75	<i>Wrightia antidysenterica</i>	100
<i>Plumeria alba</i>	76	<i>Yucca gloriosa</i>	101
<i>Polyalthia longifolia</i>	77	<i>Ziziphus jujuba</i>	102
<i>Prosopis cineraria</i>	78	<i>Ziziphus nummularia</i>	103
<i>Prosopis juliflora</i>	79		
<i>Pseuderanthemum carruthersii</i>	80		
<i>Punica granatum</i>	81		

- **Botanical Name** : *Adansonia digitata* L.
- **Common Name** : Rukhdo, Kalpavriksha, Gorakhamli, Baobab, Monkey-Bread Tree
- **Family** : Bombacaceae



**Description:** Deciduous tree, with trunk of very large dimensions at the base gradually becoming narrower at the apex. **Leaf :** Foliage, Green , alternate ,each leaf has about 3 - 9 leaflets attached to a central point, each leaflet oblong to ovate in shape and measuring about 5 - 15 cm long and 3 - 7 cm wide **Flower:** White 5-petaled ,about 20 cm wide, axillary, pendulous Fruits: 35 cm long and 13 cm wide Cylindrical capsule covered with yellowish-brown hairs, seed 1 cm long. **FLS:** April - May **FRS:** June - Dec. **FACTS :** The scientific name of the tree *Adansonia* is in honour of a French botanist Michael Adanson, while *digitata* indicates the finger-like shape of the leaflets

- **Botanical Name :** *Abutilon indicum* (L.) Sweet
- **Synonyms :** *Sida asiatica* L.
- **Common Name :** Kanski, Indian Mallow, Country Mallow
- **Family :** Malvaceae



**Description:** An erect shrub, hairy **Stem :** Herbaceous, cylindrical, branched, pubescent and green **Leaves :** alternate, suborbicular, broadly ovate, acuminate, velvety on both sides, simple, stipulate, petiolate, deltoid, serrate, slightly hairy, multicostate, reticulate, divergent type. **Flower :** Solitary axillary, bright – yellow, complete, hermaphrodite, actinomorphic **Fruits :** Multiridged Capsule (carserule) **Seeds :** Reniform, blackish-brown, minutely pitted and stellate-hairy. **FLS & FRS :** Throughout the year.



- **Botanical Name** : *Ailanthus excelsa* Roxb.
- **Common Name** : Arduso, Indian Tree of Heaven
- **Family** : Simaroubaceae



**Description:** deciduous tree **Stem** : Erect, cylindrical, branched, solid with greenish - white or grey smooth bark **Leaves** : 60 - 100 cm long, leaflets 9 - 29, subopposite, ovate-lanceolate, coriaceous, densely pilose **Flower** : Yellow, in terminal and axillary, hairy panicles **Fruit** : Samara, spindle - shaped, **FLS** : Dec – Mar **FRS**: Feb - May **Significance** : 1) The leaves and bitter bark is employed in folk medicine as a tonic and cure for fever, bronchitis and dyspepsia 2) The wood is soft and light and is used mainly for packing cases, toys, fishing floats and for carving.

- **Botanical Name** : *Albizia saman* (Jacq.) Merr.
- **Synonyms** : *Samanea saman* (Jacq) Merrill
- **Common Name** : Rato sarasdo
- **Family** : Mimosaceae



**Description:** Large, handsome tree **Stem:** bark light black or blackish-brown **Leaves :** 8–24 cm long, cauline & ramal, alternate, bipinnately compound; pinnae 4-6 pairs, 4-15 cm long; leaflets 3-8 paired, 0.7–7x 0.5-4 cm, glabrous above, pubescent beneath, basal pairs oblong–elliptic, upper ones obovate **Flower :** 25 per head, each 2.5–3.5 cm long, upto 0.5 cm across **Fruit :** Pods black, pendent, somewhat pulpy, woody



- **Botanical Name** : *Anacardium occidentale* L.
- **Common Name** : Kaju
- **Family** : Anacardiaceae



**Description:** 4-8 m, evergreen tree **Stem:** bark light-black, rough, shallowly longitudinally fissured **Leaves** : 6-19.5 x 3.5-9.5 cm, cauline & ramal, alternate, simple, thick coriaceous, glabrous, obovate-oblong or elliptic-oblong, apex rounded, Margin entire **Flower:** Pale-to bright pink, small, numerous, polygamo-dioecious **Fruit** : Drupe, reniform, nut **FLS & FRS:** Sept.-Apr.

- **Botanical Name** : *Azadirachta indica* A. Juss.
- **Common Name** : Limbdo, Neem, Margosa
- **Family** : Meliaceae



**Description:** tree. **Leaves:** 20-40 cm long, with 20-30 x 3-8 cm long, leaflets more or less asymmetric, margins serrate **flower:** in more-or-less drooping panicles, axillary, white, fragrant, **Fruit:** Drupe, ovoid-oblong, yellow **FRS** : Dec-Apr **FRS** : Mar-May



- Botanical Name : *Aegle marmelos* (L.) Corrêa
- Common Name : Bili
- Family : Rutaceae



**Description:** The tree, grows up to 15 meters tall and bears thorns **Stem:** The bark is pale brown or grayish **Leaves :** alternate, pale green, trifoliate **Flower:** Flowers are greenish white, sweetly scented, bisexual, stalked; stalk 8 mm long; diameter of a fully open flower is 3 cm **Fruit :** woody-skinned, 5-15 cm in diameter. The skin of some forms of the fruit is so hard it must be cracked open with a hammer. It has numerous seeds, which are densely covered with fibrous hairs and are embedded in a thick, gluey, aromatic pulp.





- Botanical Name : *Bauhinia purpurea* L.
- Common Name : Rakta - Kanchan, Kanchnar
- Family : : Caesalpiniaceae



**Description:** small to medium sized tree **Leaves :** 10–20 cm, Simple, roundish, divided into 2 obtuse lobes, stipules long triangular, base cordate **Flower:** In Racemes, 3-8 cm, fragrant, zygomorphic, rose to pink, **Fruit :** Pod linear flat, pointed, broad, subwoody, glabrous, greenish tinged purple till ripe **Seeds :** 12 - 15, flat **FLS & FRS :** Sep - Nov **FACT:** The name Bauhinia refers to the two lobes of the leaf. The name is given by Linnaeus in honour of twin brothers - John Bauhin and Gaspard Bauhin, French botanists, who contributed a lot to the study of herbs.



- **Botanical Name** : *Butea monosperma* (Lam) Taub.
- **Common Name** : Khakhro, Kesudo, Palas
- **Family** : Papilionaceae



**Description:** Deciduous, erect tree **Stem** : bark rough, ash coloured or pale to dark brown **Leaves** : alternate, tri-foliolate; petioles 10-20 cm long; stipules linear-lanceolate, deciduous small; leaflet's base cuneate, margin entire, apex obtuse **Flower** : 3 flowers form together the tumid nodes of dark olive-green velvety rhachis, complete, zygomorphic, papilionaceous, vexillary, much exserted, clothed outside with silky silvery hairs, orange or salmon coloured **Fruit:** Pods 6-18x 2.5–5.5 cm, sandy-brown, oblong, one-seeded **FLS & FRS** : Dec – May

- **Botanical Name** : *Caesalpinia bonduc* (L.) Roxb.
- **Common Name** : Kachka, Crested Fever Nut
- **Family** : Caesalpiniaceae



**Description:** Scandent shrubs; stems armed with recurved prickles **Leaves:** bipinnate, to 50 cm long; pinnae 4-5 pairs; leaflets 5-8 pairs per pinna, ovate or elliptic-oblong, base rounded, apex obtuse, mucronate; petiole to 15 cm long; stipules foliaceous, lobed or pinnate **Flower:** In simple or branched racemes; yellow **Fruit:** An oblong-obovoid pod, inflated, apex beaked, densely prickled; seed(s) 1 or 2, subglobose, shiny **FLS** : Aug-Dec **FRS** : October onwards



- Botanical Name : *Caesalpinia pulcherrima* (L.) Sw.
- Common Name : Galtoro
- Family : Caesalpiniaceae



**Description:** Glabrous, unarmed or with a few weak prickles, shrubs or small tree; bark greyishbrown, rough **Leaves :** 15-30 cm long, alternate, bipinnately compound, pinnae 4-9 pairs; leaflets 8-12 pairs, sessile, oblong, rarely obovate **Flower :** yellow or reddish-yellow in terminal racemes **Fruit :** pods broadly linear, flat, glabrescent **FLS & FRS :** Throughout the year.



- **Botanical Name** : *Calotropis gigantea* (L.) Dryand.
- **Synonyms**: *Asclepias gigantea* L.
- **Common Name** : Safed Aakdo, Moto Aakdo
- **Family** : Asclepiadaceae



**Description:** A large shrub, gregarious, young branches covered with white, cottony hairs **Stem** : Erect, branched, cylindrical, solid, contains milky latex. **Leaves** : 4-8 inches long, decussate, obovate or elliptic-oblong, shortly acute, subsessile, cordate or often amplexical at the base. **Flower** : in umbellate cymes, white, complete, actinomorphic **Fruit** : A pair of follicles with many, hairy seeds. **FLS & FRS** : Throughout the year. **Significance** : 1) The leaves are applied on paralysed parts, painful joints. 2) The milk is useful in leprosy and ringworm.



- **Botanical Name** : *Calotropis procera* (Aiton) Dryand.
- **Synonyms** : *Asclepias procera* Willd.
- **Common Name** : Aakdo, Nano Aakdo
- **Family** : Asclepiadaceae



**Description:** A large shrub, **Stem** : Herbaceous, lower portions smooth, upper portions covered with woolly hairs, pale green, contains milky latex **Leaves** : subsessile, broadly ovate, ovate–oblong, elliptic or obovate with a short abrupt acumination, acute, hairy, woolly, unicostate reticulate, hermaphrodite, pentamerous, hypogynous and cyclic. **Flower** : in polychasial cymes, purple **Fruit** : Etaerio of follicles. **FLS & FRS** : Throughout the year. **Significance** : 1) Milky juice is used as an infanticide and abortifacient. 2) The leaves are insecticidal and are also used in fomentation.

- **Botanical Name** : *Capparis decidua* (Forssk.) Edgew.
- **Synonyms** : *Capparis aphylla* Roth.
- **Common Name** : Kerda, Bare Caper
- **Family** : Capparaceae or Capparidaceae



**Description:** A straggling glabrous shrub. **Stem** : Branches zigzag and green (Phylloclades) with a pair of straight spines. **Leaves** : Found on young shoots only, small, linear **Flower** : Corymbs, red or scarlet, bracteate, complete, zygomorphic, hermaphrodite, tetramerous **Fruit** : A globose, red, berry. **FLS & FRS** : Feb-Sep **Significance** : 1) Ripe fruits and young buds pickled. 2) It is good in cardiac troubles and improves appetite.



- Botanical Name : *Carica papaya* L.
- Common Name : Papaiyu, Papaya
- Family : Caricaceae



**Description:** soft-wooded, dioecious or monoecious tree with milky sap; bark corky, greenish-white; trunk rarely branched with foliage in terminal crown, having the appearance of a palm tree **Leaves :** 25-50 cm, alternate and crowded near the apex of stem, broad and as much long, variously lobed, pinnatifid and palminerved; petiole long, usually fistular Flower: male and female flowers being produced on separate plants Fruit: spherical to cylindrical, fleshy, large, flesh is deep yellow or orange to salmon-coloured.



- Botanical Name : *Caryota urens* L.
- Common Name : Shivjata, Shankerjata, Wine Palm, Fish-Tail Palm
- Family : Arecaceae (Palmae)



**Description:** A tall palm **Leaves:** Large, bipinnate, leaflets triangular, irregularly cut, wedge-shaped, obliquely truncate, apex, praemorse, the upper margin prolonged into a tail-like process. Leaf-sheaths smooth, fibrous-netted **Flower:** sessile, incomplete, actinomorphic, unisexual, trimerous, tepals 6, in 2 series **Fruit:** Drupe, round, yellow

**FLS & FRS :** Throughout the year **Significance :** The fibers are manufactured into ropes, brushes, brooms, baskets. From the pith a good variety of "sago" is obtained which is highly nutritious. Terminal bud is edible.



- **Botanical Name** : *Casuarina equisetifolia* L.
- **Synonyms** : *Casuarina indica* Pers
- **Common Name** : Sharu, Beef-wood Tree, Sea-Oak, Whistling Pine
- **Family** : Casuarinaceae



**Description:** A large and handsome tree **Stem** : Drooping branches, internodes short and furrowed **Leaves** : In whorls of 6-8, scales-like. **Flower** : monoecious; male flowers in terminal spikes usually numerous at the ends of the same branches on which the females are borne lower down **Fruit**: Winged nut. The whole ripe female catkin resembles a small cone form five valves enclosing the compressed nut like winged fruits. 0.5 in diameter fruits contain 70-90 winged seeds each. **FLS & FRS** : Throughout the year.

- Botanical Name : *Citrus limon* (L.) Osbeck
- Common Name : Limbu
- Family : Rutaceae



**Description:** 2-6 m, thorny, large shrubs or small tree; bark pale-greenish, yellow, rough

**Leaves :** alternate, exstipulate palmately compound, unifoliolate, elliptic-oblong or elliptic ovate, glabrous, gland dotted, usually obtuse, crenate-serrate, base acute, coriaceous, persistent **Flower :** white, fragrant, usually tinged with red, pedicellate, complete, actinomorphic, hermaphrodite, penta or tetramerous **Fruit :** Berry, globose or ovoid bright yellow, manillate at apex; rind thick or thin, leathery, fleshy, many celled, septa membranous, cells fewseeded filled with horizontal or fusiform cellules, replate with acidic juice **FLS & FRS :** Throughout the year



- **Botanical Name :** *Commiphora stocksiana* (Engl.) Engl.
- **Common Name :** Mitho Gugal
- **Family :** Burseraceae



**Description:** Shrubs or small trees up to 4 m tall **Stem :** branches covered with papery bark; young shoots pubescent **Leaves :** alternate, petiole c.1-1.5 cm, 3-5 foliolate, pubescent; lateral leaflets oblong, orbicular or obovate, entire, 0.5-1.3 cm long, 0.3-1 cm broad; terminal leaflet petiolulate, 0.5-1.5 cm long, 0.5-1 cm broad, obovate, oval or broadly elliptic, entire **Flower :** Hermaphrodite and male flowers present on the same plant, sessile, white to red, 3-5 mm long. Bracts 2. **Fruits :** Multiridged Capsule (carserule) **Seeds :** Fruit 0.5-1.5 cm long, red when ripe, marked with 4, alternately short and long white lines, subglobose, mucronate, mesocarp yellow, 4 lined. **FLS & FRS :** April-July

- Botanical Name : *Commiphora wightii* (Arn.) Bhandari.
- Common Name : Gugal
- Family : Burseraceae



**Description:** Shrub thin papery bark **Stem :** thin papery bark **Leaves :** 1-3 foliolate, leaflets sessile, rhomboid-ovate, serrate-toothed in the upper part, 1–5 cm long, 0.5–2.5 cm broad **Flower :** Axillary, red to dark red, small **Fruits :** Drupes red when ripe, ovoid, acute, epicarp 4-valved, pyrenes ovate, acute, readily splitting into 2. **FLS & FRS :** March - April



- **Botanical Name** : *Volkameria inermis* L.
- **Synonyms** : *Clerodendrum inerme* (L.) Gaertn.
- **Common Name** : Vanjai, Vilayati Mehendi, Glory Bower
- **Family** : Verbenaceae



**Description:** A straggling branched shrub, bark Greenish-brown, lenticillate; branches slightly flattened for younger parts, terete in older **Leaves** : Leaves opposite, entire, elliptical or obovate, obtuse, base acute. **Flower:** in axillary cymes, corolla tubular, white, tube long, hairy inside, complete, actinomorphic, hermaphrodite, hypogynous, pentamerous **Fruit** : Drupe, 4-lobed, pyrene **FLS & FRS:** Throughout year



- **Botanical Name** : *Conocarpus lancifolius* Engl.
- **Synonyms**: *Anogeissus latifolia* (Roxb.) Bedd., *Conocarpus niloticus* Delile ex Steud.
- **Common Name** : Lanceleaf Buttonwood, Damas tree
- **Family** : Combretaceae



**Description:** Evergreen tree, usually growing 10-20 m tall **Leaves:** smooth and shiny, to 10 cm long, lanceshaped, narrowing towards the base, in dense spirals **Flower:** yellow-green, in round heads on branched stalks, slightly fragrant **Fruit:** dry, round, greenish heads, cone like, containing tiny, scale-like hard seeds



- **Botanical Name** : *Cordia sebestena* L.
- **Common Name** : Scarlet Cordia, Orange Geiger Tree, Aloe-wood
- **Family** : Boraginaceae



**Description:** A small evergreen shrub **Leaves** : Alternate, large, oval or elliptic, blunt at apex, rough, much wrinkled or wavy. **Flower:** in terminal clusters, orange **Fruits** : Drupe pure white enclosed in persistent calyx **FLS & FRS** : September-March **Significance** : Cultivated in the gardens for its beautiful flowers. **Fact** : The genus is named in honour of V. Cordus, a German botanist and *sebestena* is derived from an allied Persian species, sapistan, grown around the town of Sebesta.



- Botanical Name : *Cordia sinensis* Lam.
- Common Name : Liar Gundi
- Family : Boraginaceae



**Description:** 5-10 m tree; bark grey or pale brown **Leaves :** subopposite, oblanceolate-oblong, glabrescent on either side, base rounded to acute, apex subacute, rough above, more or less, pubescent beneath **Flower :** white, small, usually tetrandrous, pedicels short **Fruit :** Drupe 0.6-1 cm long, ovoid-oblong, apiculate, reddish-yellow or orange, mucilagenous, acute, mucronate, glabrous, pulp edible gelatinous pellucid, 1-seeded, persistent calyx recurved **FLS & FRS :** Apr-Jan



- Botanical Name : *Cordyline fruticosa* (L.) A. Chev.
- Common Name : Ti Plant, Good luck Plant
- Family : Agavaceae



**Description:** Evergreen shrub or small tree **Leaves** : laced-shaped, upto 30 in. long, bright pink to deepest burgundy **Flower:** in panicles, scented, small **Fruit:** Red berry

- Botanical Name : *Couroupita guianensis* Aubl.
- Common Name : Shivlingi, Cannonball tree
- Family : Lecythidaceae



**Description:** This large deciduous tropical tree **Leaves:** up to 6" long, simple with serrate margin **Flowers:** in racemes which is cauliflorous, the yellow, reddish and pink flowers are stunning fragrant **Fruit:** directly on the trunk and main branches, large globose woody fruits



- **Botanical Name** : *Delonix regia* (Hook.) Raf.
- **Synonyms** : *Poinciana regia* Hook.
- **Common Name** : Gulmohar, Flame Tree, Royal Poinciana, Peacock Flower
- **Family** : Caesalpinaceae



**Description:** Tall, deciduous trees with grey to pale-brown bark. **Leaves** : Pinnae 8-20 pairs, leaflets 12-30 pairs, oblong, glabrous or nearly so. **Flower** : Flowers in terminal, simple or branched racemes. petals up to 8 cm long, orange **Fruit** : Pods linear, woody, flat, Seeds oblong, glabrous, smooth, white or creamy-white, mottled brown. 0.4 g weight **FLS & FRS** : March-August **Fact:** The generic name is derived from two Greek words delos meaning 'Evident' and onux 'A Claw', in allusion to the shape of the petals. Regia in latin means 'Royal'.

- **Botanical Name** : *Derris indica* (Lam.) Bennet
- **Synonym**: *Millettia pinnata* (L.) Panigrahi
- **Common Name** : Karanj, Pongam Tree, Indian Beech Tree
- **Family** : Papilionaceae



**Description:** A deciduous tree. **Leaves:** Pinnate leaves are 15–30 cm long. Each leaf has 1–3 pairs of opposite leaflets and a terminal leaflet. egg-shaped, oval or oblong, pink young, dark green mature, and 5–23 by 2.5–15 cm Flower: fragrant, pink or white, 1.9 cm long, and occurring in pairs along the stalks **Fruits:** pale brown pod, flat but thick, oblong, 3.8–7 by 1.5–5 cm **FLS & FRS** : April - June



- Botanical Name : *Dracaena reflexa* Lam.
- Common Name : Song-of-India
- Family : Agavaceae



**Description:** Upright, evergreen shrub **Leaves:** reflexed, sword-shaped, deep green with creamy yellow margin, spirally arranged in whorls and tufted at the end of branches  
**Flower:** tiny white **Fruit:** orange-red berry

- Botanical Name : *Duranta erecta* L.
- Synonyms : *Duranta repens* L., *Duranta plumieri* Jacq.
- Common Name : Damyanti, Golden Dew-drops, Forget-me-Not
- Family : Verbenaceae



**Description:** A small shrub **Stem :** Square, herbaceous but woody below, erect, branched, solid, green. **Leaves :** simple, opposite decussate or whorled, petiolate, obovate, ovate or elliptic, Flower: in axillary or terminal racemes forming panicles, purple **Fruit :** Drupe fleshy with enlarged calyx with four 2-chambered stones, orange Seeds : 8, obovate-oblong, smooth, glabrous **FLS & FRS :** Throughout the year



- Botanical Name : *Dichrostachys cinerea* (L.) Wight & Arn.
- Common Name : Mordhundhiyu
- Family : Mimosaceae



**Description:** Grow up to 7 metres in height and have strong alternate thorns

**Leaves:** Bipinnately compound leaves are up to 15 centimetres **Flower:** Bicoloured cylindrical spikes, half pink and half yellow, Upper flowers of a hanging spike are sterile

**Fruit :** Pods are usually a mustard brown and are generally twisted or spiralled **FLS &**

**FRS:** Jun.-Sep.



- Botanical Name : *Emblica officinalis* Gaerin.
- Common Name : Ambla
- Family : Euphorbiaceae



**Description:** 8-15 m deciduous tree **Stem :** erect, branches spreading **Leaves :** 2.5-2.2 x 0.2-0.4 cm, alternate, subsessile, narrowly linear-lanceolate or linear-oblong **Flower :** greenish-to creamy-yellow, unisexual, actinomorphic, incomplete, trimerous, cyclic **Fruit :** Drupe, yellowish-green, globose, fleshy, smooth, with 6 faint vertical furrows **FLS :** Mar-Apr **FRS :** June-Sep



- **Botanical Name** : *Euphorbia milii* Des Moul.
- **Synonyms** : *Euphorbia splendens* subsp. *Bojeri* (Hook.) Denis
- **Common Name** : Crown of Thorns
- **Family** : Euphorbiaceae



**Description:** A small, armed shrub with stem fleshy, with long spines and bluish-white colour and milky latex. **Leaves** : Alternate, oblong, acute or obovate, mucronate, spines on the branches in pairs, the spines are modified stipules. **Flower** : in cyathium, showy orange-pink bract **FLS & FRS** : Throughout the year. **Significance** : It is very popular in all gardens.

- Botanical Name : *Euphorbia tirucalli* L.
- Common Name : Kharsani
- Family : Euphorbiaceae



**Description:** 3-6 m, unarmed, much – branched, succulent shrubs or small trees with white milky latex. **Stem:** aerial, dichotomously branched; branches spreading, cylindric, rush – like, smooth, dark – green **Leaves :** appearing in rainy season, cuneate, apex obtuse to subacute, deciduous **Flower:** in terminal, subsessile, few cyathia, involucre circular to somewhat angular, thick **Fruit :** 0.6 - 4 cm across, smooth, carunculate  
**FLS & FRS:** Aug-Sept



- **Botanical Name** : *Ficus benghalensis* L.
- **Common Name** : Vad, Banyan
- **Family** : Moraceae



**Description:** Large tree **Leaves:** Ovate, obtuse, entire, bud-scale stipules **Flower:** in hypanthodium, with 3 basal bracts. Female flowers with sepals shorter than male, ovary straight, long excentric. **Fruit:** borne in pairs in leaf axils, globose to depressed-globose, 1-2.5 cm, red or orange when ripe. **FLS & FRS:** Nov-Jan **Facts:** The specific epithet benghalensis comes from the fact that the plant is native of Bengal.

- Botanical Name : *Ficus benjamina* L.
- Common Name : Golden Fig
- Family : Moraceae



**Description:** An evergreen shrub or tree with drooping branches **Leaves:** alternate, simple, long-tipped, and glossy **Flower & Fruit:** The flowers and fruits are enclosed in a fleshy sac that turns from green to orange-red to red and then purplish black **Significance :** *Ficus benjamina* is a very popular houseplant because of its tolerance of poor growing conditions. It performs best in bright sunny locations but will also survive in shade.



- **Botanical Name** : *Ficus racemosa* L.
- **Synonyms** : *Ficus glomerata* Roxb.
- **Common Name** : Cluster Fig, Goolar, Umardo
- **Family** : Moraceae



**Description:** 10-15 m, evergreen tree without aerial roots having white – pilose branchlets, bark grayish or blackish brown **Leaves** : Ovate-elliptic to oblong-elliptic, entire, glabrous, stipules 2, imbricate, pubescent, linear-deltoid, deciduous **Inflorescence** : Hypanthodium, red, tomentose, fig wall thick, soft, ripening purplish red **Flowers** : tepals 3-5, shortly copular, Male flower : ostiolar; pedicel upto 0.3 cm, Female flower : sessile **Fruit**: achene, lenticular, not or obscurely keeled; reddish – brown **FLS & FRS**: throughout the year

- Botanical Name : *Ficus religiosa* L.
- Common Name : Pipalo
- Family : Moraceae



**Description:** 5-1910-16 m, glabrous tree; bark grey or grayish – black **Leaves :** alternate, subcoriaceous, ovate to ovate – rhomboid, narrowed upwards and the apex produced into a linear – lanceolate tail **Flower:** in hypanthodium, hypanthodium spherical, reddish – purple, axillary on leafless branches, geminate or clustered towards ends of branches, sessile, smooth, obovoid – depressed globose **Fruit:** Achene, smooth, minute, ovoid, brown **FLS : FRS:** Dec – May



- Botanical Name : *Gmelina arborea* Roxb.
- Common Name : Sevan
- Family : Verbenaceae



**Description:** 8-10 m, moderate-sized unarmed deciduous tree with young parts densely velvety **Leaves :** opposite, broadly ovate-cordate, subcoriaceous, acuminate, fulvous-tomentose beneath **Flower :** Yellow, appearing with or sometimes before the young leaves, complete, zygomorphic, hermaphrodite **Fruit :** oblong, glabrous, smooth, orange-yellow when ripe, succulent **FLS :** Jan – Apr **FRS:** Apr-May



- Botanical Name : *Grewia asiatica* L.
- Common Name : Phalsa
- Family : Tiliaceae



**Description:** 5-7 m tree; bark ash – coloured, rough **Leaves:** simple, ovate or suborbicular, acute or subacuminate, irregularly and coarsely toothed, subglabrous above, hoary – tomentose beneath **Flower :** yellow; polypetalous, petals oblong or ovate – oblong **Fruit :** Drupe, globose, dark – purple to almost black when ripe, sparsely hairy **FLS :** Feb – July **FRS :** Apr – July



- **Botanical Name** : *Grewia tenax* (Forssk.) Fiori
- **Synonyms** : *Grewia populifolia* Vahl, *Grewia betulifolia* Juss.
- **Common Name** : Gangeti, Gango, Gangi, White Crossberry, Phalsa Cherry, Raisin Bush
- **Family** : Tiliaceae



**Description:** A small shrub **Leaves** : Broadly ovate, or suborbicular or obovate, acute or obtuse, dentate, base rounded, stipules small linear. **Flowers** : Pure white, peduncle solitary **Fruit** : Drupe smooth, orange-yellow, of 2 separable halves, each half didynamous. **FLS & FRS** : October - December **Significance** : The fruits are edible, wood used to made walking stick.

- Botanical Name : *Guaiaacum officinale* L.
- Common Name : Lignum-vitae, Tree of Life
- Family : Zygophyllaceae



**Description:** small tree, very slow growing, evergreen **Leaves:** leaves compound, 2.5 to 3 cm in length **Flower:** showy, to 2.5 cm across, bluish purple, fading to white .  
**Fruit:** bright yellow-orange with red flesh and black seeds. **FLS : FRS:** Mar-Oct



- **Botanical Name** : *Hibiscus rosa-sinensis* L.
- **Common Name** : China Rose, Jasud, Shoe-Flower
- **Family** : Malvaceae



**Description:** An ornamental evergreen shrub **Stem** : Woody and solid but herbaceous at upper portion, aerial, Erect, branched, cylindrical, solid and glabrous **Leaves** : stipulate, petiolate, simple, alternate, ovate, serrate, acute, glabrous, unicostate reticulate venation. **Flower** : solitary, axillary, deep red or scarlet, light coloured also, complete, actinomorphic **Fruit** : 5-valved, loculicidal capsule **Seeds** : Small, endospermic. **FLS & FRS:** Throughout year

- Botanical Name : *Holoptelea integrifolia* (Roxb.) Planch
- Common Name : Kanaji
- Family : Ulmaceae



**Description:** Decidulous, bark greyish-white or ash-coloured, smooth  
**Leaves :** alternate, coriaceous, distichous, entire, ovate-elliptic, acuminate, glabrous, base rounded or cordate, entire **Flower :** minute, greenish-yellow, usually male & hermaphrodite mixed **Fruit :** Samara, winged, flat, dry, compressed, broadly oblong or orbicular, apex deeply notched **FLS :** Dec-Feb **FRS:** Jan.Mar





- Botanical Name : *Ixora coccinea* L.
- Synonyms : *Pavetta coccinea* (L.) Blume
- Common Name : Ixora
- Family : Rubiaceae



**Description:** A small shrub **Stem :** Erect, branched, cylindrical, differentiating into nodes and internodes, green **Leaves :** simple, opposite decussate, stipulate, sessile, ovate to elliptical, entire, acute **Flower:** in Corymbose cyme, red, scarlet or yellow, numerous; pedicel very short **Fruit :** A berry, rounded, globose, glabrous, smooth, orange or purple when ripe, fleshy **FLS & FRS :** Throughtout the year **Significance:** Cultivated in gardens for its beautiful scarlet flowers. **Fact:** The species name coccinea is a latin derivative which means scarlet coloured.

- Botanical Name : *Jatropha integerrima* Jacq.
- Common Name : Fiddle-Leaved Jatropha
- Family : Euphorbiaceae



**Description:** Evergreen shrub or small tree, several slender trunks **Leaves:** glossy, very variable, up to 7 inches long, may be entire and elliptic or oval, or they may be fiddle shaped, or they may have three sharp pointed lobes, Leaves are bronze when young and brownish on the undersides **Flower:** red, pink or vermillion flowers, borne in many-flowered clusters at branch-ends **Fruit:** rounded-triangular, splitting open **FLS & FRS:** Throughout year.



- Botanical Name : *Justicia adhatoda* L.
- Common Name : Ardusi
- Family : Acanthaceae



**Description:** Evergreen, erect, glandular – hairy, stout, annual, bushy **Leaves :** opposite, decussate, elliptic – lanceolate, thin – coriaceous, acuminate, minutely puberulous when young, glabrous when mature, margin entire **Flower :** in axillary leafy spikes, white, complete, zygomorphic, hermaphrodite **Fruit :** Capsule, bluntly pointed **FLS & FRS:** Dec – June



- **Botanical Name** : *Kigelia africana* (Lam.) Benth.
- **Synonyms** : *Kigelia pinnata* (Jacq) DC, *Crescentia pinnata* Jacq.
- **Common Name** : Common Sausage Tree, Cucumber Tree
- **Family** : Bignoniaceae



**Description:** large tree. **Leaves** : Opposite, imparipinnate, with 3 pairs of leaflets and an odd one, serrate or entire, sessile. **Flowers** : in long pendulous racemes, large, chocolate red in colour **Fruit** : very large, indehiscent, groups of 2 or 3 on very large rope-like peduncles , Seeds many, embedded in white pulp. **FLS & FRS** : Mar-July **Significance** : Commonly grown in the gardens and planted on roads as an avenue tree.



- Botanical Name : *Lawsonia inermis* L.
- Common Name : Mahendi
- Family : Lythraceae



**Description:** 2-4 m, glabrous, much-branched, bushy shrubs; bark greyish-white

**Leaves :** decussate, opposite, elliptic-lanceolate or ovate-lanceolate, subsessile, glabrous, apex, acute or obtuse, often mucronate, base tapering chartaceous, margin entire subsessile

**Flower :** in large terminal, pyramidal paniced cymes, 0.6-1 cm across, white or creamy-white, numerous, fragrant, complete, actinomorphic

**Fruit:** Capsule

**FLS : FRS:** throughout the year



- **Botanical Name** : *Leucaena leucocephala* (Lam.) de Wit
- **Synonyms** : *Leucaena glauca* Benth., *Mimosa leucocephala* Lamk.
- **Common Name** : Pardeshi Baval, Liso-Baval, Vilayati Baval, Wild Tamarind, White Babool
- **Family** : Mimosaceae



**Description:** evergreen tree **Leaves** : Bipinnate, pinnae 3-6 pairs, Leaflets 10-15 pairs  
**Flower:** in dense globose heads with whitish petals **Fruit** : Pods flat, glabrous, linear-oblong, strap-shaped, pale to dark-brown, seeds 15-20. **FLS & FRS** : Jul-Oct



- Botanical Name : *Leucophyllum frutescens* (Berland.) I.M. Johnst.
- Common Name : Purple sage
- Family : Scrophulariaceae



**Description:** dense rounded 3-5 ft semi-evergreen shrub **Leaves:** wavy-looking ovalish, alternate, silvery velvety appearance **Flower:** five-lobed, tubular, borne singly in the leaf axils, have spotted throats **Fruit:** two-valved capsules filled with small wrinkled seeds.



- Botanical Name : *Limonia acidissima* L.
- Synonyms : *Feronia limonia* (L.) Swingle, *Feronia elephantum* Correa
- Common Name : Wood Apple, Kothu, Kavath
- Family : Rutaceae



**Description:** A big tree, arms with spines **Leaves :** Imparipinnate, petiole and rachis flat, narrowly winged, leaflets 3-9, opposite, obovate or wedge-shaped, 2.5-5.6 cm long, leaf late 0.5-2.7×0.5-1.8 cm **Flower :** in panicles, white, fragrant, usually tinged with red **Fruit :** Berry, globose, hard, many seeded, rough, grey-coloured. Seeds embedded in edible pulp. **FLS & FRS:** March - May **Significance:** Wild everywhere or cultivated for its fruits. Ripe fruits used for chutneys or jellies and a good tonic for liver and lungs, stomites and sore throat.



- **Botanical Name** : *Livistona chinensis* (Jacq.) R.Br. ex Mart.
- **Common Name** : Fan palm
- **Family** : Arecaceae (Palmae)



**Description:** upto 12 m in height, Stem: Solitary, erect, gray or brown, **Leaves:** Costapalmate, with a prominent hastula, induplicate, dull olive green, up to 2 m across, and divided to about two-thirds its length into stiff segments with drooping, bifid tips. The petioles are armed with robust marginal teeth toward the base (sometimes lacking these teeth). **Flowers and fruit:** The inflorescences are 1-1.5 m long and branched to five orders. Flowers have both male and female structures, pale yellow. The fruit is ovoid, about 2 cm across, and greenish to grayish blue when mature

- Botanical Name : *Mangifera indica* L.
- Common Name : Keri, Ambo, Mango
- Family : Anacardiaceae



**Description:** Evergreen, spreading tree **Leaves:** simple, alternate, Lanceolate, acute, coriaceous, shining, entire, wavy **Flower :** numerous, in 10-25 cm long, terminal many-flowered panicles, small, cream **Fruit :** Drupes, yellow to reddish yellow when ripe, fleshy **FLS :** Dec-May **FRS :** Feb-July





- **Botanical Name** : *Manilkara hexandra* (Roxb.) Dubard
- **Synonyms** : *Mimusops hexandra* Roxb.
- **Common Name** : Rayan, Ceylon Iron Wood, Milk Tree, Wedge-Leaved Ape Flower
- **Family** : Sapotaceae



**Description:** A large, evergreen slow growing tree. **Leaves** : Obovate, oblong emarginated, dark-green, coriaceous, petioles grooved, 2.5-11×1-6 cm **Flower** : Solitary or in fascicles of 2-6 flowers, whitish. **Fruit:** berry, yellow, fleshy, 1-2 seeded. **FLS & FRS** : September-December **Significance** : The fruits are edible. The wood is hard and tough much used for making sugar mills and oil presses.



- Botanical Name : *Manilkara zapota* (L.) P. Royen
- Synonyms : *Achras zapota* L.
- Common Name : The Sapodilla Plum, Chikoo, Chico Sapote
- Family : Sapotaceae



**Description:** A small, evergreen tree, hairy **Leaves :** Elliptic, entire, leathery, hairy, brown **Flower:** Solitary, axillary, cream white **Fruit :** Berry fleshy, egg-shaped, rough, rusty, seeds 4-5, shining, black 1.5-2 cm. **FLS & FRS:** April-June **Significance :** It is mainly cultivated for its edible fruits.



- Botanical Name : *Mimosa hamata* Willd.
- Common Name : Kaibaval
- Family : Mimosaceae



**Description:** 0.5-2 m, much-branched, armed undershrub; bark cinnamon-brown, stem and branches downy, furnished with numerous straw coloured curved or straight prickles. **Leaves :** 4-6 cm long, bipinnately compound, pinnae 3-6 pairs **Flower:** axillary, solitary, Pink **Fruit :** Pods flat, falcate, pubescent on the faces, consisting of 4-8 one seeded joints which fall away from the persistent sutures which are furnished with hooked or straight prickles, reddish-brown. **FLS & FRS :** Aug – Jan

- Botanical Name : *Mimusops elengi* L.
- Common Name : Borsalli, Bakul, Spanish Cherry
- Family : Sapotaceae



**Habit** : 20 – 30 m, tree with a compact leaf head **Leaves** : alternate, elliptic or elliptic – lanceolate, apex shortly acuminate, glabrous, base acute or rounded to attenuate **Flower** : white, actinomorphic, hermaphrodite, hypogynous, fragrant **Fruit** : Berry, smooth, ovoid, ellipsoid, 1-2 seeded, greenish, yellow-orange when rip, fleshy **FLS**: June-Oct **FRS**: Oct-Mar **Significance** : Planted in the gardens and road-side everywhere. The fragrant flowers are used for making garlands and much used by Indian ladies to wear in hairs. A delightful perfume is distilled from the flowers.



- Botanical Name : *Moringa concanensis* Nimmo
- Common Name : Kadvo Saragvo, Konkan Moringa
- Family : Moringaceae



**Description:** A tree with rachis thickened at the base, gland present at articulation.

**Leaves :** Leaves bipinnate, primary pairs are 5-6, distant, 10-20 cm long. Leaflets are 4-

6 pairs with an odd one **Flower:** in Panicles, whitish **Fruit:** Capsules straight, seeds white or pale yellow, 3-angled, 3-winged, wings very thin. **FLS & FRS :** January-February

**Significance:** A powerful tonic, stomachic, laxative and good in inflammations.

- Botanical Name : *Moringa oleifera* Lam.
- Synonyms : *Moringa pterygosperma* Gaertn.
- Common Name : Saragvo, Drumstick, Horse Sadish Tree
- Family : Moringaceae



**Description:** Small tree. that can reach a height of 10–12 m **Leaves :** Usually tripinnate, petiole thickened at the base, pinnae and pinnules opposite, deciduous with a gland at the base. **Flower:** in Large Panicles, whitish cream **Fruit :** Capsules elongate, 9-ribbed slightly twisted. Seeds winged, 3-angled and of 20–45 cm size **FLS & FRS :** Sep–Dec



- Botanical Name : *Morus alba* L.
- Common Name : Shetoor, White Mulberry
- Family : Moraceae



**Description:** 2.5-6 m, deciduous, monoecious or dioecious tree; bark grey or greyish – yellow, smooth. **Leaves :** alternate, broadly ovate, nearly glabrous, serrate, acute, membranous, base cordate, margin toothed, entire or 3-lobed in upper half **Flower :** light – to – deep – violet or purple, sessile, incomplete, monoecious, actinomorphic, unisexual **Fruit :** Sorosis 1-3 cm long, cylindrical, dark purple or black. **FLS & FRF :** July – Dec

- Botanical Name : *Murraya koenigii* (L.) Spreng.
- Common Name : Mitho limbado, curry patta
- Family : Rutaceae



**Description:** 3-5 m, deciduous, unarmed, tree; bark dark-brown or nearly black  
**Leaves :** alternate, exstipulate, imparipinnate compound, leaflets 11-25, alternate, somewhat asymmetrical, oblique, ovate-lanceolate or somewhat rhomboid, gland-dotted, acuminate, obtuse or acute  
**Flower :** small, creamywhite or dirty white, fragrant, bracteate, bracteolate, complete, actinomorphic, hermaphrodite, pentamerous  
**Fruit :** Berry, ovoid or subglobose, apiculate, rough with glands black, 2- seeded, red or purplish black, pulp whitish  
**FLS & FRS:** Mar-May



- Botanical Name : *Nerium oleander* L.
- Common Name : Lal karen
- Family : Apocynaceae



**Description:** 2–3 m, ever green shrubs **Leaves :** 5.5-20 x 0.7-2.5 cm, whorled with 3 leaves in each whorl, simple, subsessile **Flower:** in terminal racemose cymes or dichasial cyme red or white, complete, actinomorphic **Fruit :** Follicles 5.5 – 17 X 0.7 - 10 cm, cylindric or oblong – lanceolate, straight, ribbed **FLS & FRS :** Throughout the year



- **Botanical Name** : *Parkinsonia aculeata* L.
- **Synonyms** : *Parkinsonia thornberi* M. E. Jones
- **Common Name** : Ram Baval, Jerusalem Thorn, Mexican Palo Verde
- **Family** : Caesalpinaceae



**Description:** A small tree or a large shrub. **Leaves** : Bipinnate, pinnae 1-2 pairs, leaflets minute, ovate or oblanceolate, glabrous **Flowers** : Flowers 1.2-2 cm across, in 6-8 cm long, lax, terminal racemes, yellow **Fruit** : Pods linear, reticulate, glabrous. **FLS & FRs:** Jan - May **Significance** : Planted as a hedge at many places.



- **Botanical Name** : *Peltophorum pterocarpum* (DC) Baker ex DC
- **Common Name** : Tamraparni, Copperpod, Rusty Shield-Bearer
- **Family** : Caesalpiniaceae



**Description:** A big tree **Leaves :** The leaves are bipinnate, 30–60 cm long, with 16–20 pinnae, each pinna with 20–40 oval leaflets 8–25 mm long and 4–10 mm broad. **Flower :** Yellow in terminal, racemose panicles. **Fruit :** red at first, ripening black, with one to four seeds. **FLS & FRS :** Sep- Nov, Ma-May **Significance:** Planted as an ornamental tree on road sides. **FACT:** The genus name is derived from a Greek word peltophoros which means shield-bearer.

- Botanical Name : *Phoenix dactylifera* L.
- Common Name : Khajuri
- Family : Arecaceae (Palmae)



**Description:** 8-10 m trees; trunk erect or somewhat bent, sandy-brown, often surrounded by a dense mass of root suckers at base. **Leaves:** In the form of terminal crown, cauline; pinnae 20-40 cm long, often approximate. **Flower:** sessile, incomplete, actinomorphic, unisexual, pistillate, trimerous, cyclic, hypogynous, distant, roundish, dioecious, male panicles white, complete, 15-25 cm long **Fruit:** Berry, ellipsoid-oblong, orange-yellow, edible **FLS :** Jan-Mar **FRS:** Mar-june



- **Botanical Name** : *Phyllanthus acidus* (L.) Skeels
- **Synonyms** : *Cicca acida* (L.) Merr., *Cicca disticha* L., *Averrhoa acida* L.
- **Common Name** : Star Goose Berry, Country Goose Berry, Khataamla, Ambdi
- **Family** : Euphorbiaceae



**Description:** A deciduous tree, monoecious **Leaves** : Leaves are compound, 14-25 inches long, leaflets alternately arranged ovate or obliquely ovate, acute or somewhat acuminate **Flowers** : Reddish, clustered on pendulous branches on old wood, pedicels short, about 6-10 mm long, capillary. **Fruits** : Edible, globose, fleshy, yellow, 3, 4 or 8-lobed. Seeds long red or pale-brown. **FLS & FRF:** Mar - June



- **Botanical Name** : *Pithecellobium dulce* (Roxb.) Bth.
- **Synonyms** : *Inga dulcis* (Roxb.) Willd.
- **Common Name** : Manilla Tamarind, Madras Thorn, Sweet Tamarind, Vilayati Ambli
- **Family** : Mimosaceae



**Description:** A large tree. **Leaves** : bipinnate, comprises of 2 pinnae and each pinnae has 2 leaflets, leaflets elliptic to obovate with rounded to heart-shaped tip and unequal base. **Flower** : in terminal racemose panicles, greenish white **Fruits** : Pods fleshy, twisted, seeds thick, flat and covered with white or red when ripe **FLS & FRs:** Jan- Mar  
**Significance** : Cultivated everywhere for its sweet, red, pulpy aril.



- Botanical Name : *Plumbago auriculata* Lam.
- Common Name : Kalo Chitro
- Family : Plumbaginaceae



**Description:** 1-1.5 m subshrubby **Leaves :** 3-4 x 1.5-2 cm, alternate, elliptic to obovate, base acute to attenuate, apex (sub) acute, apiculate; petiole upto 1 cm long **Flower:** in 3-4 cm long racemes, blue to violet; tube  $\pm$ 3 cm long; lobes broadly obovate **Fruit:** Capsule 0.8-1 cm long, oblong, glandular-hairy, sticky **FLS & FRS :** Throughout the year

- Botanical Name : *Plumeria alba* L.
- Common Name : Champo
- Family : Apocynaceae



**Description:** Deciduous tree, 5 – 10 m tree with plenty of milky juice **Leaves:** clustered near the tips of the branches, large, 6-22 cm long, 2-7 cm wide, obovate, leathery, shiny **Flower:** borne in clusters that form at the ends of the branches on a long thick stalk, white, center of the flower yellow, five petals that are fused at the base in a short funnel-shaped tube which gradually widens as the lobes of the petals are spread out **Fruit:** dry follicle which splits along one side to release the winged seeds **FLS & FRS:** Throughout year



- **Botanical Name** : *Polyalthia longifolia* Sonn. var. *pendulata*
- **Common Name** : Asopalav
- **Family** : Annonaceae



**Description:** evergreen handsome tree **Stem:** herbaceous, lower portion woody, bark light-blackish-brown **Leaves:** alternate, exstipulate, simple, membranous, lanceolate, glabrous, paler beneath, tapering to a fine point, shining, green above margins undulate; **Flower:** yellowish-green, complete, actinomorphic, hermaphrodite, trimerous, spirocyclic, **Fruit:** etaerio of berries, pale-yellow, ovate-oblong, glabrous **FLS:** Dec-June **FRS:** Apr-Aug



- Botanical Name : *Prosopis cineraria* (L) Druce
- Synonyms : *Prosopis spicigera* L.
- Common Name : Khijado
- Family : Mimosaceae



**Description:** An armed small tree. **Leaves :** Bipinnate, pinnae 3-pairs, opposite, often with round insect-galls on their rachis. Leaflets 7-12 pairly, oblong, obliquely, rounded  
**Flower:** in axillary spikes, yellowish green **Fruit :** Pods turgid, straight, 10-15 seeded.  
**FLS & FRS :** Dec - March **Significance:** The pods are an excellent fodder for camels and goats. The tree is sacred to Hindus.



- **Botanical Name** : *Prosopis juliflora* (Sw) DC
- **Synonyms** : *Acacia juliflora* (Sw.) Willd., *Mimosa juliflora* Sw.
- **Common Name** : Gando Baval
- **Family** : Mimosaceae



**Description:** Evergreen tree, **Leaves** : Bipinnate, pinnae 4-6 pairs, leaflets sessile, oblong, glabrous, than 9 pairs, the leaflets are mostly 5–10 mm long, **Flower:** in axillary pendent spikes, greenish **Fruit** : Pods pendent slightly curved, 10-30 seeded  
**FLS & FRS** : Aug - May

- Botanical Name : *Pseuderanthemum carruthersii* (seem.) Guillaumin
- Common Name : Purple False Eranthemum
- Family : Acanthaceae



**Description:** A colourful, erect, woody, moderately fast-growing shrub **Leaves:** entire, simple, opposite, narrowly ovate, attenuate (becoming thinner) at base, acuminate (tapering to a point) at apex, waxy, up to 15 cm long and 6 cm wide, dark green, suffused with silver and purple irregular margins; petioles maroon to magenta, about 1 to 2 cm long **Flower:** clustering loosely, appearing at branch tips, pink, deeper pink at corolla throat **Fruit:** capsule, club-shaped, containing 4 flat seeds **FLS & FRS:** Throughout year



- Botanical Name : *Punica granatum* L.
- Common Name : Dadam, Pomegranate
- Family : Lythraceae



**Description:** A large shrub or a small tree **Leaves :** opposite, decussate, simple, oblong-lanceolate or oblong-elliptic, glabrous, subsessile, exstipula **Flower:** in terminal solitary or in cymes of 2-3, bright-red vermiform red, complete, actinomorphic **Fruit :** A balusta, 6- 10 cm across, reddish-brown, globose or nearly so, with woody tough rind, crowned with persistent calyx lobes **Seeds :** obtusely angular, with white, pink or red juicy arillata, edible **FLS & FRS :** July-Dec. Fruits sold in market throughout the year.

- Botanical Name : *Ravenala madagascariensis* Sonn
- Common Name : Traveller Palm
- Family : Strelitziaceae



**Description:** large tree-like plant **Leaves:** fan-shaped single plane of enormous, long-stalked, banana-like, deep green leaves (20-30 per trunk). Each leaf blade is 5-10' long by 2-3' wide and appears at the end of a thick, grooved leaf stalk (petiole) which is as long or longer than the leaf blade. Leaf margins are sometimes split as is the case with some bananas **Flower:** Showy 3-petaled white flowers in cymes rise from boat-shaped orange spathes **Fruit:** woody capsules containing edible seeds covered by bright blue arils



- **Botanical Name** : *Roystonea regia* (Kunth) O.F.Cook
- **Common Name** : Royal palm, Bottle palm
- **Family** : Arecaceae (Palmae)



**Description:** Royal Palm is a truly aristocratic palm which makes a memorable impression wherever it is grown. **Stem:** Massive and symmetrical with a smoothly sculpted trunk this palm looks almost artificial. The trunk of the Royal Palm is swollen at the base. It constricts about halfway up and then bulges again just below the crownshaft creating a dramatic profile. The trunk is a smooth light gray that looks as if it had been cast from concrete. **Leaves:** Eight inch long leaflets are arranged in rows along the 10' length of bright green pinnate leaves. Composed of 15 - 20 leaves, the canopy sits atop the crown shaft - a smooth, glossy extension of the trunk composed of the overlapping bases of the leaves. The crownshaft looks really smooth green. **Flower:** Royal palm produce a large 3' to 4' inflorescence on which both male and female flowers are borne, just at the base of the green crownshaft.

- Botanical Name : *Salvadora oleoides* Decne
- Common Name : Mithijar, Pilu
- Family : Salvadoraceae



**Description:** Small tree **Leaves :** Long and narrow, opposite, brittle, glabrous, and somewhat fleshy, dark greenish-yellow when young, gray when mature **Flower :** in axillary, paniculate spikes of racemes, greenish white, complete, actinomorphic, hermaphrodite, sessile, tetramerous **Fruit :** globose, glabrous, subsessile, yellow or white when ripe **FLS & FRS:** Nov-Mar **Significance :** The leaves are purgative. The root bark is vesicant. The fruit is eaten by humans and is said to be aphrodisiac.



- **Botanical Name** : *Salvadora persica* L.
- **Common Name** : Tooth Brush Tree, Mustard Tree, Salt Brush, Meswak, Piludi, Khari Jar
- **Family** : Salvadoraceae



**Description:** Much-branched evergreen shrub or small tree with soft-whitish-yellow wood and trunk straight or crooked; bark dull grey to greyish-white or greyish-brown, rugose in old stems **Leaves** : Somewhat brittle, glaucous, ovate to broadly ovate, acute or rounded at the apex, petiolate, 3-7 cm. **Flower:** small, numerous in axillary and terminal compound lax panicles, numerous in upper axile, greenish yellow **Fruit** : A drupe, pink to deep-purple, spherical, fleshy, globose, smooth **FLS & FRs:** October onwards



- Botanical Name : *Santalum album* L.
- Common Name : Chandan, Sukhad, Shvet-Chandan
- Family : Santalaceae



**Description:** Ever-green glabrous tree; bark light blackish-brown, rough **Leaves :** Elliptic-lanceolate, subacute glabrous, entire, thin, base acute, petiolate **Flower :** In terminal and axillary paniculate 3-chotomous cymes, brownish-purple, inodorous, incomplete, pentamerous **Fruit :** Drupes, subglobose or ellipsoid, glabrous, deep purple when ripe, endocarp hard, ribbed, shining **FLS & FRS :** March - August



- **Botanical Name** : *Senna auriculata* (L.) Roxb.
- **Synonyms** : *Cassia auriculata* L.
- **Common Name** : Tanner's Cassia, Aawal, Aaval
- **Family** : Caesalpinaceae



**Description:** A small shrub **Leaves** : Paripinnate, leaflets 8-12 pairs, each pair with an erect, linear gland between them, oblong, obovate, obtuse or emarginated, mucronate, base rounded, stipules large, leafy, obliquely cordate, reflexed **Flower:** in axillary corymbose racemes, yellow **Fruit** : Pods flat, thin, papery, oblong, obtuse, depressed between the seeds. **FLS & FRS:** Throughout year

- Botanical Name : *Sesbania sesban* (L.) Merr.
- Common Name : Shevri
- Family : Papilionaceae



**Description:** fast-growing, perennial shrub or small tree, reaching a height of up to 8 m

**Leaves:** pinnately compound with 6 to 27 pairs of leaflets. Leaflets are linear oblong

**Flower:** in racemes bearing 2 to 20 yellow flowers with purple or brown streaks Fruit: linear or slightly curved pods up to 30 cm long. Pods contain 10 to 50 seeds

**FLS :** Aug-Sep **FRS:** Sep-Dec





- **Botanical Name** : *Soymida febrifuga* (Roxb.) A. Juss.
- **Synonyms**: *Swietenia febrifuga* Roxb
- **Common Name** : Rohan, Royani, Indian Redwood, Bastard Cedar, Raktarohan
- **Family** : Meliaceae



**Description:** A deciduous, lofty trees with hard wood & branchlets with persistent leaf scars; bark dark- brown or almost black **Leaves** : Crowded at the ends of branches, leaflets 7-13, sessile or sub-sessile, elliptic or oblong, coriaceous, glabrous. **Flower:** Greenish-white in axillary and terminal panicles **Fruit** : Capsule, woody, 5-celled septifragally 5-valved; valves 2-lamellate, separating from the thick 5-winged axis **FLS & FRS:** February - June

- **Botanical Name :** *Syzygium cumini* (L.) Skeels
- **Synonyms :** *Eugenia jambolana* Lam.
- **Common Name :** Jambu, Java Plum, Jamun, Black Plum, Java Apple
- **Family :** Myrtaceae



**Description:** A large tree with ashy-brown exfoliate bark. **Leaves :** Opposite, gland-dotted, coriaceous, oval or elliptic-oblong, acute intramarginal nerve present, extipulate. 6-14 cm long **Flower :** in paniced cymes, pale-greenish-white, fragrant **Fruit :** berry, ovate or oblong, glabrous, shining globose, bright to dark-purple, shape of an olive, juicy, crowned with a truncate-calyx limb **FLS:** Feb – Apr **FRS:** Mar-July



- Botanical Name : : *Tamarindus indica* L.
- Common Name : Khati Ambali
- Family : Caesalpinaceae



**Description:** Large, unarmed, ever green tree, bark dark-grey or light black, rough  
**Leaves :** 8-10 x 2 cm, alternate, abruptly-pinnately compound, leaflets 6-12 or 15-17 pairs, margin entire **Flower :** terminal racemes at the ends of short branches, yellow with purple streaks, complete, zygomorphic, hermaphrodite **Fruit :** Pods 7-10 x 2-2.5 cm, subtorulose, somewhat foliate, linear-oblong, with rough, fibrous, grey epicarp, slightly curved, subcompressed, scurfy, fruit wall crustaceous, mesocarp pulpy, endocarp, septate leathery, indehiscent **FLS :** May – July **FRS :** Apr – Nov

- Botanical Name : *Tamarix aphylla* (L.) Karst.
- Common Name : Lal-zhau
- Family : Tamericeae



**Description:** A small or medium-sized spreading tree that can reach up to 10-12 m in height **Leaves:** reduced to tiny scales (1-2 mm long) and are alternately arranged along the fine branchlets **Flower:** Large numbers of small, pale pink or whitish coloured flowers are produced along the tips of the branches. Separate male and female flowers are borne on the same plant **Fruit:** small bell-shaped capsules (2-3 mm long) contain numerous minute seeds that are topped with a tuft of tiny hairs



- **Botanical Name** : *Tecoma fulva* (Cav.) G. Don
- **Synonyms** : *Bignonia fulva* Cav.
- **Common Name** : Cahuato
- **Family** : Bignoniaceae



**Description:** Erect shrub, branches have purplish tinch **Leaves** : Pinnately compound leaf, opposite, leaflets sessile, wedge-shaped with toothed margins **Flower** : in racemes, terminal, yellow **Fruit** : Two-valved capsule, seeds winged. **FLS & FRs:** Aug - May **Fact** : Species name "fulva" means reddish yellow or deep yellow.



- **Botanical Name** : *Tecoma stans* (L.) Juss. ex Kunth.
- **Synonyms** : *Bignonia stans* L.
- **Common Name** : Yellow Bells, Yellow Trumpet, Yellow-Elder
- **Family** : Bignoniaceae



**Description:** A large shrub **Leaves** : Opposite, imparipinnate, leaflets 5-11, ovate-oblong to lanceolate, acuminate, serrate. **Flower** : in terminal panicles, yellow, gamopetalous **Fruit** : Capsule, long, linear, flat, seeds winged. **FLS & FRS**: September - December



- Botanical Name : *Terminalia catappa* L.
- Common Name : Badam, Desi Badam, Lili Badam, Indian Almond
- Family : Combretaceae



**Description:** Deciduous trees; bark blackish-brown, longitudinally fissured  
**Leaves:** Alternate, 6-12 inch long, obovate, oblong, pointed at apex, base rounded with a depressed gland on each side of the midrib, exstipulate. **Flower:** in axillary, solitary or fascicled spikes, small, creamy-white or pale-yellow, fragrant **Fruit:** olive green when fresh, at length brown, ellipsoid, slightly compressed from above, glabrous, kernel edible, 2-ridged when dry **FLS & FRF:** Throughout year

- **Botanical Name** : *Thespesia populnea* (L.) Soland. ex Correa
- **Common Name** : Paras Pipalo
- **Family** : Malvaceae



**Description:** Evergreen bushy tree, reaches a height of 6–10 m **Leaves** : Heart-shaped leaves, alternate, simple **Flower:** Bell shaped large flowers with dark pink eye at the centre, yellow fading to pink **Fruit** : Capsule, globose, indehiscent, depressed **FLS & FRS:** Throughout year.



- **Botanical Name** : *Thevetia peruviana* (Pers) Merrill
- **Synonyms** : *Cascabela thevetia* (L.) Lippold, *Thevetia nerifolia* Juss. ex A. DC.
- **Common Name** : Mexican Oleander, Yellow Oleander, Lucky Nut, Pili karen
- **Family** : Apocynaceae



**Description** : A shrub with milky juice. **Leaves** : Simple, alternate, close together, linear, acute. **Flower** : in axillary or terminal cymes, yellow, fragrant. **Fruit** : A fleshy drupe, 4 angled, compressed with 2 ridges, seeds 2 to 4. **FLS & FRS**: Throughout the year.

- Botanical Name : *Vitex negundo* L.
- Common Name : Nagod
- Family : Verbenaceae



**Description:** A large erect shrubs or small slender tree with greyish tomentose branches **Leaves :** opposite, 3 and 5 foliolate compound, oblanceolate or ovate, base acute, apex acuminate, grey-tomentose beneath, glabrous above **Flower :** in paniculate cymes, white or blue or bluishpurple, complete, zygomorphic, hermaphrodite **Fruit :** Drupe less than 0.6 cm across, dark-purple or almost black when ripe, glabrous, ovoid-globose, invested at the base by somewhat enlarged calyx, endocarp bony, normally 4-celled **FLS : FRS:** Throughout year



- **Botanical Name :** *Wodyetia bifurcata* A.K.Irvine
- **Common Name :** Fox tail palm
- **Family :** Arecaceae (Palmae)



**Description:** Solitary palm **Stem:** Solitary, erect, gray, to 15 m tall and 25 cm in diameter, swollen at the base and near the middle. Leaf scars are regular and closely spaced. **Leaves:** Pinnate, reduplicate, arching, to 3 m long. Leaflets have prominent marginal ribs and are held in several planes (plumose). The crown shaft is pale green, to 1 m long, with a bloom of gray to white waxy scales. Leaflets are regularly arranged, spreading in several planes, with praemorse tips, and large gray or brown scurf along the rachis. **Flower:** Inflorescence pendulous, to 1 m, densely branched to four orders toward the base and one or two orders at the tip, with separate, white to yellowish staminate and pistillate flowers. Spherical to ovoid **Fruit:** 5 cm long fruits are orange-red when ripe, with apical stigmatic remains forming a beak.

- Botanical Name : *Wrightia antidysenterica* (L.) R.Br.
- Common Name : Arctic Snow, Milky way, Snowflake
- Family : Apocynaceae



**Description:** small, compact and bushy shrub growing up to 1.5 m tall **Leaves:** opposite, simple, elliptic, glossy, evergreen **Flower:** white flowers, 1 inch diameter, gamopetalous, complete **FLS & FRS:** Throughout year **Significance :** Grown as ornamental plant



- Botanical Name : *Yucca gloriosa* L.
- Common Name : Adam's Needle
- Family : Agavaceae



**Description:** A stemless or shortly truncated shrub upto 1-2 m **Leaves :** 60-75 x 2-3.5 cm, in rosette on ground, flat, lanceolate, sharp pointed, ensiform, margin entire and smooth, ending in a short stiff red cusp **Inflorescence :** In 30-90 cm long, dense, rhomboid with ascending branches on central, drooping, bell-shaped scape **Flower :** greenish-white; bracts 3-6 cm long, ovate-lanceolate; pedicels 2-3 cm long **FLS & FRS:** July-Sep



- Botanical Name : *Ziziphus jujuba* Mill.
- Common Name : Bor
- Family : Rhamnaceae



**Description:** armed, seldom unarmed tree with much branched stem, bark blackish-brown or light-black Leaves: 2-8 x 1.3-4.2 cm, alternate, subdistichous, simple, ovate, ovate-oblong or suborbicular, both ends rounded, bifarious, base slightly inequilateral, margin faintly and irregularly glandular-denticulate **Flower:** in axillary dense fascicled cymes of 15-20 flowers ,  $\pm$  0.5 cm across, greenish-yellow or creamy-white **Fruit:** Drupe, oblong, globose, ovoid or ellipsoid oblong, glabrous, reddish yellow, fleshy, smooth **FLS :** Sept-Feb at times upto May **FRS:** Nov-Feb



- **Botanical Name** : *Ziziphus nummularia* (Burm. f.) Wight & Arn.
- **Synonyms** : *Ziziphus rotundifolia* Lam.
- **Common Name** : Chani Bor, Jhar Beri
- **Family** : Rhamnaceae



**Description:** A small much branched shrub **Leaves** : Orbicular, dentate or serrate, hairy on both sides, stipular spines, one long straight and the other short hooked **Flower:** in axillary cyme, greenish-yellow or creamy-white, buds globose, pedicel short, complete, actinomorphic **Fruit** : Drupe 0.5-1 cm across, globose, smooth, deep red when ripe, edible, glabrous Drupe 0.5-1 cm across, globose, smooth, deep red when ripe, edible, glabrous **FLS & FRS** : July-Jan

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*\*The photographs of some trees which are small in college campus are taken from the other locations of Bhuj city.*



TREE



SHRUB

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2. *Solanum Diphyllum* L. (Solanaceae) - A new record To the Flora Of Gujarat State, India
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