

ARBORETUM STUDENT-STUDY PROJECT(2020-21)



DEPARTMENT OF BOTANY
SR&BGNR GDC(A)KHAMMAM

SR&BGNR COLLEGE(A)KHAMMAM

- Common name : Big leaf mahogany
- Scientific name: Swietenia mahogany
- Family : Meliaceae
- It is national tree of the Dominican Republic.
- Mahogany is a commercially important l
- timber prized for its beauty, durability and colour.
- It is used for paneling and make furniture boats musical instruments and other items



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- common name : Bastard cedar
- Scientific name : *Guazuma tomentosa*
- Family : Sterculiaceae
- It is one of the very important medicinal plant
- A beverage of crushed seeds soaked in water is used to treat diarrhea,dysentery,colds,cough contusions and veneral disease
- It also used as a diuretic and astringent



West Indian elm - *Guazuma ulmifolia*

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- Common name :African baobab
- Scientific name : Adansonia digitata
- Family : Malvaceae.
- All baobab trees are deciduous. They are fact known both for their height and trunk's girth.
- The trunk tends to be bottle shaped and can reach a diameter of 10-14m .the trunk is smooth and shiny.
- The baobab is a traditional food plant in Africa



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- Common name : Ashoka tree
- Scientific name : *Saraca indica*
- Family : Caesalpinaceae
- The flower of Ashoka tree is the state flower of Indian state of Odisha.
- It is believed shakya muni Buddha was born under an ashoka tree in Lumbini garden.
- The bark of the Asoka plant is used to prepare cosmetics that help to improve skin complexion.



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- Scientific name : *Sterculia foetida*
- Common name : bastard poon tree
- Family : Sterculiaceae
- The oil of *sterculia foetida* has been found to be comparable to sunflower , soyabean and grapeseed oils for the use of bio fuels
- Evidence suggests that the seeds of *sterculia* are edible, but purgative, and should be roasted prior to eating



SR&BGNR COLLEGE(A)KHAMMAM

Scientific name : *Pterocarpus santalinus*

Common name : red sanders

- Family : Fabaceae
- It is endemic to the southern eastern Ghats mountain range of south India.
- This tree is valued for the rich red colour of its wood.
- It is used in traditional herbal medicine as an antipyretic , anti inflammatory .antihelminthic .



SR&BGNR COLLEGE(A)KHAMMAM

Scientific name : *Bauhinia variegata*

common name : orchid tree ,mountain ebony

Family : Caesalpinaceae.

This is very popular ornamental tree in
subtropical and tropical climates.

Kachnar is a local name in the Indian
subcontinent for the edible buds collected
from the tree



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- Common name : Malabar kino(vijayasar)
- Scientific name : *Pterocarpus marsupium*
- Family : Fabaceae
- It is a medium to large deciduous tree, can grow up to 30 m tall
- It is native to INDIA (where it occurs in parts of the western Ghats in the karnataka-kerala region and the forest of central India).Nepal and Sri Lanka.
- Heartwood of *Pterocarpus* is antibiotic and hyperglycaemic and is used to control blood sugar
- leaves are used externally to treat boils sores and other skin diseases



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- Common name : Elephant apple(wood apple)
- Scientific name : *Feronia elephantum*
- Family : Rutaceae
- In some part of the world , this fruit is called elephant apple because it is a favorite food of elephants.
- The fruits are considered auspicious to be offered to Shiva and Ganesha in pujas.
- The fruit is used to make a fruit juice with astringent properties and jams.
- A majority of Hindu temples will have a sacred tree within its compound and is known as Sthala Vriksha
- In Myanmar the wood is used to make the distinctive local face cream THANAKA



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- Common name : myrobalan
- Scientific name : Terminalia chebula
- Family : Combretaceae
- It is a medium to large deciduous tree
- Terminalia chebula is a main ingredient in the Ayurvedic formulation Triphala
- This tree yields smallish, ribbed and nut like fruits which are picked when still green and then pickled, boiled with a little added sugar in their own syrup or used in preserves



SR&BGNR COLLEGE(A)KHAMMAM

- common name : baheda
- Scientific name : Terminalia billerica
- Family : Combretaceae
- It is a large deciduous tree
- It is used to protect the liver and to treat respiratory conditions including cough and sore throat
- Formed as one of the trio of rejuvenating dry fruits that constitute the miraculous TRIPHALA formulation
- it helps to pacify all three dosha especially used for pacification of kapha dosha



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : Indian almond
- Scientific name : Terminalia catapa
- Family : Combretaceae.
- It is widely grown in tropical regions of the world as an ornamental tree, grown for the deep shade its large leaves provide.
- The fruit is edible, tasting slightly acidic. the wood is red and solid and has high water resistance ,it has been used in Polynesia foe making canoes



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- Common name: red lucky seed
- Scientific name : *Adenanthera pavonia*
- Family : Mimosaceae.
- It is a perennial and non climbing species ,its uses include food and drink, traditional medicine and timber.
- The tree is useful for nitrogen fixation , and it is often cultivated for forage as an ornamental garden plant.
- *Adenanthera pavonia* seeds have long been a symbol of love in china.
- .The beauty of the seeds has led to them being used as beads for jewellery.



SR&BGNR COLLEGE(A)KHAMMAM

- Common name :coral swirl
- Scientific name :*Holarrhena antidysenterica*
- Family : Apocyanaceae
- It has long been known in Indian Ayurvedic tradition, it is also known as white angel
- It may be useful in treating gut motility disorders
- it is a glabrous tree or large shrub that is found throughout deciduous forest areas
- The fruits of this herb are paired and cylindrical in shape



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- Common name : nux vomica (poison tree)
- Scientific name : Strichnnus nuxvomica
- Family : Loganiceae
- it is a deciduous tree native to India and Southeast Asia, and it is a medium sized tree with a short ,thick trunk
- The branches are irregular and are covered with a smooth ashen bark
- The strychnine containing seeds have been used in arrow poison
- strychnos is promoted within herbal medicine as being a treatment for a wide range of maladies, including cancer and heart diseases



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : Spanish Cherry
- Scientific name : *Mimusops elengi*
- Family :Sapotaceae
- It is a medium sized ever green tree
- The flower bark fruit and seeds are used in Ayurvedic medicine
- The flowers are sun dried and used to make floral infusions and as an addition to green tea in Thailand
- The edible fruit is softy hairy becoming smooth ovoid bright red orange when ripe
- The wood is a luxurious wood that is extremely hard strong and tough and rich deep red in colour



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : saptaparni(Devils tree)
- Scientific name : *Alstonia scholaris*
- Family : Apocyanaceae
- It is an evergreen tropical tree
- It is native to southern china, tropical Asia and Australia, it is a commonly planted ornamental plant in these areas
- It is toxic plant, but traditionally it is used medicinally for myriad diseases and complaints
- The wood has been recommended for the manufacture of pencils



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : chironji
- Scientific name : *Buchanania lanzan*
- Family : Apocyanaceae
- It is a deciduous tree which produces seeds that are edible to humans
- It is native to the Indian sub continent
- These almond flavoured seeds are used as cooking spice primarily in India



SR&BGNR COLLEGE(A)KHAMMAM

common name : Banyan

Scientific name : *Ficus benghalensis*

Family : Moraceae

It is a national tree of India

Ficus benghalensis produces propagating roots which grow downwards as aerial roots .once these roots reach the ground they grow into woody trunks

The tree is considered sacred in India, and temples are often built nearby ,due to the large size of the trees canopy.



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- Common name : china doll ,emerald tree
scientific name : *Radermachera xylocarpa*
- family : Bignoniaceae
- In recent years this plant has become popular as a houseplant for its attractive and glossy feathery leaves



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- Common name : Indian rosewood
- Scientific name : *Dalbergia latifolia*
- Family : Fabaceae
- It produces a hard durable heavy wood
- Wood from the tree is used in premium furniture making and cabinetry
- It is used as a shade tree in agro forestry in India and Indonesia



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : kuduru(putijia)
- Scientific name : Putranjiva roxburghi
- Family : Euphorbiaceae
- A dioecious evergreen tree with pendent branches , leaves are simple
- It is an ayurvedic plant used for the treatment of eye disorders ,burning sensation, elephantiasis.
- Putranjiva oil as a biofuel, can use it as an effective herbal preservative.



SR&BGNR COLLEGE(A)KHAMMAM

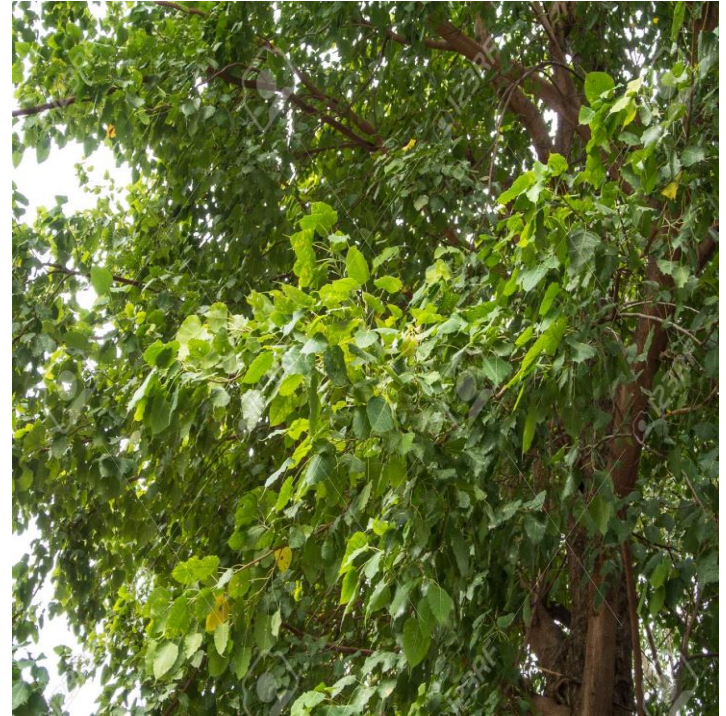
- Common name : jammi, Ghaf
- Scientific name : *Prosopis cineraria*
- Family : Mimosaceae
- The Ghaf is the national tree of the United Arab Emirates and it is also the state tree of Rajasthan
- The tree is found in extremely arid conditions, with rainfall as low as 15cm annually
- This tree is highly revered among Hindus and worshiped as part of Dusshera festival



SR&BGNR COLLEGE(A)KHAMMAM

Common name : Bodhi tree,Pippala tree

- Scientific name : *Ficus religiosa*
- Family : Moraceae
- It is a large dry season deciduous or semi ever green tree.
- date in shape with distinctive extended drip tip
- it has a very long life span ranging on average between 900 and 1500 years



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : crocodile bark tree
- Scientific name : *Terminalia alata*
- Family : Combretaceae
- It is a prominent part of both dry and moist deciduous forests in southern India
- It is a tree growing to 30 m tall, with a trunk diameter of 1 m
- The bark is fire resistant
- The wood is used for furniture ,cabinetwork
- Water stored in the stem is often tapped and used as a source of potable water in summer by forest folk



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : anjan , yepi
- Scientific name : Hardwickia binata
- Family : Caesalpinaceae
- It is a characteristic tree of the dry deciduous forests and can grow on shallow ,gravelly soils
- The compound leaves have only two leaflets which are joined at the base
- The timber obtained from the tree is the hardest and heaviest, is durable and termite resistant
- The bark of the tree is used for making ropes
- Oleo resin extracted from the heart wood is used in manufacture of varnishes



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- Scientific name : Chloroxylon sweitenia
- Common name : East Indian satinwood
- Family : Meliaceae
- It is a tropical heartwood plant
- It produces a decorative wood of excellent quality
- It is used in folk medicine in Chhattisgarh



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : tree of heaven
- Scientific name : *Ailanthus excelsa*
- Family : Simaroubaceae
- it is a large deciduous tree found in India and Sri Lanka
- The trees are grown along the edges of fields and rivers to mark boundaries and prevent soil erosion
- The bark is a febrifuge and can be used as a treatment against asthma bronchitis and dysentery
- The tree is also used in matchstick industry, as fodder for goats



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : Indian rosewood
- Scientific name : *Daibergia sisso*
- Family : Fabaceae
- It is a fast growing hardy deciduous rosewood native to Indian subcontinent
- After teak it is the most important cultivated timber tree of Bihar ,which is largest producer of shishm timber in India
- The tree seed oil and powdered woodare used in the treatment of skin ailments



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : Indian sandalwood
- Scientific name : Santalum album
- Family : Santalaceae
- It is a small tropical tree and the traditional source of sandalwood oil
- It is native to southern India and Southeast Asia
- The plant is long lived but harvest is only viable after many years
- The plant parasitises the roots of other tree species
- It is recognized as a vulnerable species by the IUCN .it is threatened by over exploitation



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : orange
- Scientific name : Citrus sinensis
- Family : Rutaceae
- The orange fruit is an important agricultural product ,used for both juicy fruit pulp and aromatic pulp
- Orange blossom essence is an important component in the making of perfume
- This popular citrus fruit is oarticularly known for its vitamin C content
- oranges are good source of fibre and potassium , both of which can support heart health



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- Common name : bael, stone apple ,wood apple
- Scientific name : *Aegle marmelos*
- Family : Rutaceae.
- The fruits can be eaten either fresh from trees or after being dried and produced into candy ,toffee ,pulp powder or nectar.
- The leaves , bark ,roots fruits and seeds are used in traditional medicine to treat various illnesses.
- Beal is used in the ritual rites of Hindus.
- Beal is considered one of the sacred trees of Hindus



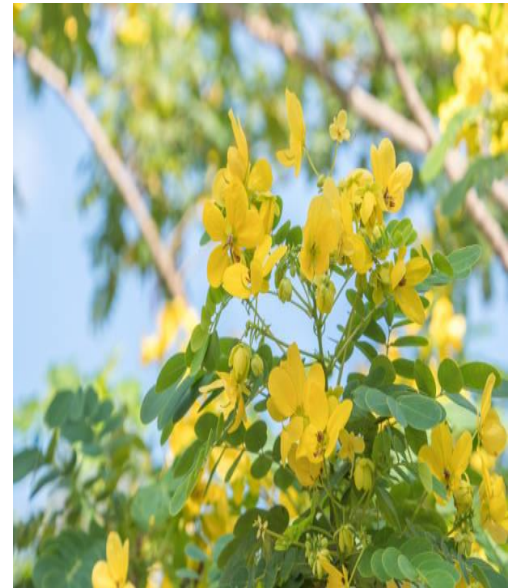
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- Common name : red physic nut, Danti
- Scientific name : *Baliospermum montanum*,
- Family : Euphorbiaceae
- Danti is shade loving plant grows in well humid climate.
- It is medicinal herb used in ayurvedic medicine for various diseases
- Danti is blood purifier and paste of roots and seeds are used to reduce edema and pain.
- Danti leaves are found to be very beneficial for the sufferers of jaundice
- Danti is used to pacify pitta and kapha dosha.



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : cassia tree, kassod tree
- Scientific name : *Cassia siamea*
- Family : Caesalpinaceae
- It is a medium size evergreen tree growing with yellow flowers.
- It is often used as shade tree in cocoa, coffee and tea plantations
- This plant has medicinal value and it contains a compound named barakol



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : white frangipani
- Scientific name : *Plumeria alba*
- Family : Apocyanaceae
- It is often cultivated as an ornamental plant
- In Cambodia pagodas especially choose this shrub ,with white flowers used in ritual offerings to the deities
- In addition the flowers are edible and eaten as fritters, while the heart wood is part of traditional medicine preparation taken as a vermifuge or as a laxative



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : tamanu,mastwood
- Scientific name : *Calophyllum inophyllum*
- Family : Calophyllaceae
- Is a low branching and slow growing tree with a broad and irregular crown
- Mast wood is notable for its ability to grow to massive sizes in sandy or rocky beaches of island and coastal habitats.
- Mast wood are particular importance to traditional shipbuilding of the larger austronesian outrigger ships



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : the cluster fig , red river fig
- Scientific name : *Ficus racemosa*
- Family : Moraceae.
- It is a fast growing plant with large, very rough leaves,
- It is unusual in that its fig grow on or close to the tree trunk, termed cauliflory
- The fruits are a favorite staple of the common Indian macaque.



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : velvet apple (mabolo tree, kamagong)
- Scientific name : *Diospyros discolor*
- Family : Ebanaceae.
- It is a dioecious tropical tree that grows well in a diversity of a soil.
- Its edible fruit has a skin covered in a fine ,velvety fur which is usually reddish brown and soft ,creamy, pink flesh ,with a taste and aroma comparable to a peach.
- Timber is extremely dense and hard and is famous for its dark color, it is sometimes called iron wood, because of the woods density and hardness.



SR&BGNR COLLEGE(A)KHAMMAM

- Common name : Kaim ,true kadamb
- Scientific name : *Myragyna perviflora*
- Family : Rubaceae
- It is native to India and Sri lanka
- It reaches heights of 50 feet .flowers are yellow and grow in ball shaped clusters
- fresh leave sap is used by the tribals in treatment of jaundice.
- The bark and roots are used in the treatment of fevers and colic

