

# FATIMACOLLEGE AUTONOMOUS

(Reaccredited with 'A' Grade by NAAC) Affiliated to University of Kerala

7.2.1 Campus Angiopserm Flora

# **IQAC**INTERNAL QUALITY ASSURANCE CELL

# ANGIOPERM FLORA OF FATIMA MATA NATIONAL COLLEGE, KOLLAM



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#### ABSTRACT

Situated on the heart of Kollam city in the revenue district of Kollam, the Fatima Mata National College occupies an area of 12.92 acre. The campus is famous for its greenery and vegetation. During the study, angiosperm plant specimens with 121 filed numbers were collected from the campus representing 121 species belongs to 116 genera under 44 families. Among the collections, dicotyledons dominate with 100 species and monocotyledons with 21 species.

#### INTRODUCTION

Angiosperms represent the highly evolved group of plants in this living world. They have well-differentiated root, stem, and leaves and also have well developed vascular tissue.World's smallest angiosperm is *Wolffia* (0.1 mm), tallest is *Eucalyptus regnans* (130.5m-435 ft) and largest is *Ficus benghalennsis*. Angiosperm is autotrophic in nature, but there are some angiosperms which show heterotrophic nature with either parasitic or saprophytic mode of nutrition. Angiosperm shows a distinct alternation of a generation with dominating saprophytic phase.

Angiosperms show three different forms and habit i.e., herb, shrub, and tree. Herbs are the small sized plant with soft, weak and pliable stems having less or no branches. Eg; Mustard, Bamboo etc. Shrubs are medium sized woody bushy plants having branches arising near the base. Eg; Rose, Marigold etc. Trees are large sized hardly woody plants with distinct trunk having branches arising near the apex. On the basis of lifespan, angiosperms are of three types: 1. Annual: They complete their life within few weeks to one year; 2. Biennial: They complete their life within 2 years and 3. Perennial: They can survive for more than two years. It is of two types. Those plants which flower many times in a lifetime is polycarpic and those which flowers once in a lifetime is monocarpic.

On the basis of water requirements, angiosperms are of three types. Hydrophytes: they are the plants that grow the well insufficient supply of water. Eg: Lotus. Mesophytes: these are the plants that grow well in a moderate or normal supply of water is called mesophyte. Eg: Maize. Xerophytes; those plants which grow well in dry or arid habitat is Xerophytes. Eg: Cactus

Biodiversity encompasses the rich biological diversity expressed at all levels of the biosphere, viz. genetic, species and ecosystem levels. It provides the goods and services essential for the survival of human beings and other species on the earth. But the over exploitation of natural resources has resulted in the rapid dwindling of these bounties of Mother Nature. The greenhouse gas emissions contributed by burning of plastics and the likes, burning of fossil fuels, release of CFC's from various sources such as automobile exhausts, AC vents, refrigerators etc. coupled with massive deforestation and destruction of natural topography have accelerated global climatic changes to an alarming pace. We are gradually waking up the harsh truth of the doubtfulness of our own existence in the near future, leave alone granting our children and grandchildren a life as secure as ours has been so far.

Conservation of biodiversity has become a necessity for our own existence, and documentation of biodiversity is an essential pre-requisite for any initiative in this direction. The observations from the present study are presented here for the benefit of all interested, especially the young students who are the designers of a better, ecologically safe tomorrow.

Kerala, God's own country, is blessed with year-round greenery. About 40% of the ranges of the mighty Western Ghats, one of the eight hottest hotspots of the world and a UNESCO World Heritage Site, lie in Kerala. Forty one of the 44 rivers in Kerala originate from the Western Ghats. The natural vegetation of the state is dominated by angiosperms or flowering plants. The rich angiosperm diversity of the state comprises over 5094 taxa under 1537 genera and 221 families of which 1709 are enddemics, 880 exotics and 493 RET species (Sasidharan, 2012)

Kollam district of the state of Kerala, formerly known as Desinganadu and later Quilon, is endowed with a long coastline, a major Arabian Sea seaport. About 30% of the district is covered by the Ashtamudi Lake. The district has many source of waterbodies, the most important being the Kallada River. Kollam is the capital of Kerala's cashew industry and is famous for coir manufacturing. Plains, mountains, lakes, lagoons and backwaters, forests, farmland cover of the district spans over the Thenmala, Achankovil, and Punalur divisions. The Thenmala range, Aryankavu range and Shendurney wildlife sanctuary together form the Thenmala division, while Achankovil, Kallar and Kanayar ranges contribute to the Achankovil division. The Pathanapuram and Anchal ranges come under the Punalur division.

Fatima Mata National College, Kollam is one of the pioneer and the greatest centre of higher education in Kerala. Affiliated to the University of Kerala, the college is managed by the Fatima Mata Trusts, Kollam, one of the leading educational agencies in the state. The college was established in memorial obeisance of Fatima Mata, the worshiped God. It stands tall and majestic, spread over a campus of 12.92 acres near the Kollam railway in the heart of the Kollam city, in the eastern part of Lal Bahadur Stadium (Figs. 1 & 2).

### **Geographical Features**

**Climate:** The monsoons begin by June and end by September. Winter is from November to February and the temperature is moderately cool and hovering form 18° C to 25° C. The relative humidity is higher during the monsoon period and all through the year; it is higher during the morning hours. Evaporation is more during summer months of January to April and it is low during the rainy months may to August. The maximum rate of 4.8 mm per day is recorded in March and the lowest rate of 2.6 mm is recorded during July.

Sun shine ranges from 4.3 to 9.7 hours /day. Maximum sunshine is during the month of February. The months from June to August recorded the minimum sunshine due to cloudy sky. The good sunshine hours are recorded in the months of November to May. The wind speed is high during the months of March to June and less during the months of September to December. Potential evapotranspiration values are lower than the monthly rainfall during the months of May to October indicating water surplus for possible recharge into ground water regime during these months.

**Soil:** Soils of the Kollam district are broadly classified by the soil survey Department as Sand loams, laterite and forest soil. In general, the soils of Kollam are acidic, kaolintic and gravelly with low water holding capacity. Climate topography, vegetation and hydrological conditions are the dominant factors of soil formation. Soils are also categorized on the basis of water draining capability, the major categories includes imperfectly drained, moderately drained, moderately well drained to imperfectly drained, somewhat extensively drained to moderately drained, well drained rocky outcrops .On the basis of soil content, the major soil groups of Kollam are categorized into clayey, clayey-loamy, loamy, rocky patches and sandy soils.

**Irrigation:** The irrigation facilities in the district are limited. The major irrigation scheme is rainfall. Kollam receives an annual average rainfall of around 2700 millimetres (110 in.) Kollam receives both Southwest and Northeast monsoons. The driest month is January with 18 mm of rainfall. The average rainfall in Kollam city varies between 1100 mm to 1500 mm per annum. The humidity in Kollam city is approximately 90% during the rainy months.

### Scope of the present study

The present study envisages a preliminary exploration into the angiosperm flora of Fatima Mata National College, Kollam, and its documentation.

#### **REVIEW OF LITERATURE**

Major contributions to the floristic studies in India were made by the Britishers. Among the Botanists who worked on the flora of Peninsular India, the contributions of Robert Wight are the most outstanding. His major publications are Illustrations of Indian Botany (1840) and Icones Plantarum Indiae Orientalis (1838-1853). Wight together with Arnott published Prodromus Florae Peninsulae Indiae Orientalis (1834) in which several new taxa were described. The other notable contributions during the 19th century were The Flora Sylvatica for Southern India (Beddome 1869-1874), Icones Plantarum Indiae Orientalis (Beddome, 1868-1874) and Flora Indica (Roxburgh, 1820, 1824). Flora of British India was published by J.D Hooker during 1872-1897. This seven volume publication dealt with the phanerogams of the erstwhile British India with phytogeographical information. Subsequently regional floras like Flora of the Presidency of Bombay (Cooke, 1901-1908) and Flora of the Presidency of Madras (Gamble, 1915-1936) were published and the latter work is adjudged as the best among the regional floras. The Forest Trees of Travancore by Bourdillon (1908) is the first comprehensive work on the tree flora of Travancore and it dealt with 582 indigenous trees. The other important works on the flora of Peninsular India are: Flowering Plants of Travancore (Rama Rao, 1914), Flora of Anamalai Hills Coimbatore District, Madras Presidency (Fischer, 1921) and Flora of South Indian Hill Stations (Fyson, 1932). Since then, the work on regional as well as local floras were undertaken with the view of preparing a complete and comprehensive flora of India and major work was done by the Botanical Survey of India. Flora of Tamil Nadu, India (Nair & Henry, 1983) and Flora of Karnataka (Sharma, 1984) were published as part of the aforementioned project. A few Universities and Research Institutions also conducted floristic studies in South India. The floras of most of the districts and Protected areas in Kerala have either been completed or in the process of completion. The notable publications on the flora of Kerala are: Flora of Calicut (Manilal & Sivarajan, 1982), Flora of

Cannanore (Ramachandran & Nair, 1988), Flora of Silent Valley (Manilal, 1988), Flora of Palghat (Vajravelu, 1990), Flora of Kerala: Grasses (Sreekumar and Nair, 1991), Flora of Thiruvananthapuram District (Mohanan & Henry, 1994), Flora of Thenmala Division (Subramaniyan, 1995), Flora of Nilambur (Sivarajan and Mathew, 1997) and Flowering Plants of Thrissur Forests (Sasidharan and Sivarajan, 1996). Floristic studies of the following places have been completed as Ph. D. programmes: Flora of Quilon District (Mohanan, 1984); The Flowering Plants of Sree Narayana College Campus Kollam (Yohannan, 2016). The flora of Fatima Mata National College has not been thoroughly explored in the past. Hence it is very significant to scrutinize the flora of the Fatima Mata National College of Kollam district and document the result. Hence the present topic is selected for the study.

#### **MATERIALS AND METHODS**

The exploration trips were conducted to different locations of FMNC campus, Kollam. Plants of flowering and fruiting stages were collected. Field data including name of the flora, date of collection, family, habit, locality, altitude, notes, collector's name, etc. were recorded. Separate collections were made for herbs, shrubs, small trees, large trees and also for monocots and dicots. After collection, the specimens were tagged and the details were recorded in field book. Wet method of preservation was followed. The dried specimens were mounted on herbarium sheets and labelled properly, and deposited in the Herbarium, Department of Botany, FMN College, Kollam.

The specimens were critically studied with available literatures and compared with authentic specimens. For confirming the identity of doubtful specimens, they were referred to concerned experts.

#### **RESULTS AND DISCUSSION**

During the 6 months of study, a total of 121 species of angiosperm flora including naturalized and indigenous plants belonging to 116 genera of 44 families were observed. There are 59 herbs, 25 shrubs, 10 large trees, 9 small trees and 18 climbers. Among the 44 families, there are about 100 dicots and 21 monocots. The dominant families include (in terms of species (10), Fabaceae (15),Euphorbiaceae Poaceae (11),richness) are Amaranthaceae (7), Asteraceae (4), Malvaceae (5), Convolvulaceae (5), Nyctaginaceae (3), Rutaceae (2), Solanaceae (3), Lamiaceae (3), Acanthaceae (2), Moraceae (3), Urticaceae (2), Lythraceae (1), Cucurbitaceae (2), Asparagaceae (2), Meliaceae (1), Oxalidaceae (2), Annonaceace (2),Cyperaceae (2), Commenlinaceae (4), Bignoniaceae (2), Musaceae (1), Sapindaceae (1), Piperaceace (1), Myrtaceae (1), Asclepiadaceae (1), Scrophulariaceae (1), Capparidaceae (1), Vitaceae (1), Turneraceae (1), Menispermaceae (1), Combretaceae (1), Orchidaceae(1), Apocynaceae (4), Rubiaceae (4), Portulacaceae(1), Verbenaceae(4), Moringaceae(1),Sterculaceae(2).

During the floristic study of Fatima Mata National College, 121 species of angiosperms under 116 genera belonging to 44 families were collected and identified. Dicotyledons are estimated to be 100 and monocotyledons to be 21 in number. Fabaceae is the dominant dicot family found with 15 species and 12 genera. and further followed by Euphorbiaceae with 10 species and 6 genera. Convolulaceae and Malvaceae are comprise with 5 species and Verbenaceae comprise of 4 species. The dominant monoct family in the campus is Poaceae with 11 species and 8 genera, then Commelinaceae with 4 species and 3 genera.

#### Floristic Diversity of FMNC, Kollam

The campus of FMNC is rich in its floristic composition. Diverse of shrubs, herbs, climbers, small trees and large trees are present in the campus. A total of 121 species of flowering plants belong to 116 genera under 44 families were documented, of which 100 dicots and21 monocots are present. The analysis of total plant species present in the college campus revealed that there are 59 herbs, 25 shrubs, 10 large trees, 9 small trees and 18 climbers (Table 1and 2). The botanical garden of campus occupy major plant species, many kinds of shrubs, herbs and climbers.

#### TABLE 1

#### Distribution of angiosperms based on class

Name of class	Number of pants
Dicotyledons	100
Monocotyledons	21

#### TABLE 2

#### Distribution of angiosperms based on habit

No. of Herbs	No. of	No. of Small	No. of Large	No. of
	Shrubs	trees	trees	Climbers
59	25	9	10	18

Football ground of the campus is enriched with grassland vegetation. Many grasses like *Perotis indica*, *Eleusine indica* etc. are collected from the ground. This grassland vegetation makes the campus greeny. Large trees like *Polyalthia longifolia*, *Enterolobium saman* etc. occupies the front area of the college campus. The large trees provide shade and cool atmosphere to the college.

The quadrangle area is rich with many small trees like *Mangifera indica*, *Murraya exotica*, *Cassia* spp. etc. The ground of quadrankle contains many herbs, shrubs and climbers also. Herbs like *Justicia latispica*, *Alternanthera sessilis* etc. and shrubs like *Codariocalyx motorius*, Mussaenda belilla etc. and climbers like Clitoria spp., Bougainvillea spp. etc. are collected from this area.

The area around the canteen is occupied by the vegetable garden which includes *Musa paradisiaca*, *Capsicum*, etc. Thus, the present study revealed that the Fatima Mata National College ground is rich with diverse and large number of plant species remaining uninterrupted by human interference.

#### SYSTEMATIC TREATMENT

#### Artabotrys odoratissimus R. Br.

Family	: ANNONACEAE
English Name	: Jackfruit-champa
Habit	: Large woody climber/half scandent shrub
Description	: Its flowers are axillary, solitary/ in clusters of two or three greenish yellow in colour when ripe and give a strong smell resembling that of ripened Jackfruit; annual.
Distribution	: South china, Burma, India and Philippians
Polyalthia longifolia	(Sonn.) Thwaites
	(Sonn.) Thwaites : <i>Uvaria longifoli</i> a Sonn.
Synonym & Basionym	: Uvaria longifolia Sonn.
Synonym & Basionym Family	: <i>Uvaria longifoli</i> a Sonn. : ANNONACEAE

Habitat	:	Grown as ornamental tree
Description	:	Trees with erect or drooping branches; flowers greenish white; berries one-sided; black-purple when ripe

Distribution : Native of Sri Lanka; grown in gardens throughout the warmer parts of India

## Tinospora cordifolia (Willd.) Miers.

Synonym & Basionym	: Menispermum cordifolium Willd.
Family	: MENISPERMACEAE
Ver. Name	: Amrthu, Amrutavalli, Chitamruthu
English Name	: Moon creeper, Bile killer, tinospora
Habit	: Climber
Habitat	: Moist deciduous forests and scrub jungles; also in plains
Description	: Climbing shrubs; leaves deeply cordate at base; flowers greenish yellow in dioecious recemes in the axils of fallen leaves; drupes red when mature
Distribution	: India, Sri Lanka, Bangladesh and Myanmar.
<b>Cleome viscosa</b> L.	
Family	: CAPPARIDACEAE
Ver. Name	: Pattikadukku, Patti-vela, Vela
English Name	: Wild mustard, Dog mustard, Sticky cleome
Habit	: Herb

Habitat	: Deciduous forests; also in plains
Description	: Erect annuals; leaves digitately 3-5 foliolate; sepals and petals 4 each stamens many; flowers yellow; capsules linear
Distribution	: Pantropical
Talinum portulacifolium (Forssk.) Asch. & Schweinf	

Synonym	: Portulaca fruticosa L.
Family	: PORTULACACEAE
Habit	: Herb
Common Name	: Ceylon spinach
Distribution	: Herbaceous perennial plant that is native to mexico the Caribbean, west Africa, central America.
Description	: The plant grows erect, reaching a height of 30 to 100 cm (12 to 39 in). It bears small, pink flowers and broad fleshy leaves.
<b>Grewia asiatica</b> L.	
Synonym	: Grewia hainesiana Hole.
Family	: MALVACEAE
Habit	: Shrub
Common Name	: Phalsa
Distribution	: This is a species native to southern Asia ranging from Pakistan; India east to combodia

Habitat : It is cultivated in tropical countries.

Description	: It is a shrub or small tree growing to small. The
	leaves are broadly rounded 1-1.5 cm long. Flowers
	are in cyme of several together.

### Hibiscus rosa-sinensis L.

Family	: MALVACEAE
Description	: <i>Hibiscus rosa-sinensis</i> is a bushy, evergreen shrub or small tree growing 2.5- 5 m tall and 1.5-
	3m wide, with glossy leaves and solitary, brilliant
	red flowers in summer and autumn
Synonym	: Hibiscus arnottii ,Hibiscus borganus
Common name	: Shoe flower or chinese hibiscus
Distribution	: It is native to East Asia, mainly China.

## Hibiscus surattensis L.

Family	: MALVACEAE
Ver. Name	: Kakkapoovu
Habit	: Shrub
Habitat	: Moist deciduous forests; also in plains
Description	: Prickly shrubs; stipulate foliaceous; flowers yellow with dark cells prickled.
Distribution	: South India and Sri Lanka
<b>Kleinhovia hospita</b> L.	
Family	: MALVACEAE

Habit	: Large tree	
English Name	: Guest tree	
Distribution	: Indonesia, Malaysia, and other parts of tropical Asia.	
Description	: It is an evergreen, bushy tree growing up to 20m high, with a dense rounded and fruits. Leaves are simple and alternate. Stipules are ensiform to linear about 8 mm long: petioles 2.5-30cm long.	
<b>Sida acuta</b> Burm. F.		
Synonym & Basionym	: Sida lanceolata Retz.	
	Sida carpinifolia sensu Mast.	
Family	: MALVACEAE	
Ver. Name	: Aanakurunthotti, Kurunthotti, Malamkurunthotti	
English Name	: Horn bean leaved sida	
Habit	: Herb	
Habitat	: Dry and moist deciduous forests; also in plains	
Description	: Shruby plants; Leaves simple; flowers yellow,	
	Stamens many; anthers monothecous; mericarps trigonous	
Distribution	: Pantropical	
Melochia corchorifolia L.		
Family	: STERCULIACEAE	
Ver. Name	: Cheruvuram	

Habit	: Herb	
Habitat	: Degraded deciduous forests and waste places	
Description	: Herbs; leaves simple; flowers pink; sepals, petals and stamens 5 each.	
Distribution	: Pantropical	
Waltheria indica L.		
Synonym & Basionym	: Waltheria americana L.	
Family	: STERCULIACEAE	
Habit	: Herb	
Habitat	: Degraded moist deciduous forests; also in plains	
Description	: Erect Herbs or undershrubs; branchlets stellate- pubescent; leaves simple; flowers yellow; sepals , petals and stamens each.	
Distribution	: Pantropical	
Biophytum reinwardtii (Zucc.) Klotzsch. var. reinwardtii		
Synonym & Basionym	: Oxalis reinwardtii Zucc.	
Family	: OXALIDACEAE	
Ver. Name	: Mukkutti, Theendavaadi	
Habit	: Herb	
Habitat	: Moist deciduous forests; also in plains	
Description	: Erect herbs; sensitive to touch; leaves pinnately	

compound, collected at apex into a caudex; flower deep yellow with a red line in the middle, in terminal umbels.

Distribution : Indo-Malesia and China

#### **Oxalis corniculata** L.

Synonym &	: Oxalis corniculata L. var. hispida Blatt.
Basionym	
Family	: OXALIDACEAE
Ver. Name	: Puliyarila
Habit	: Herb
Habitat	: Degraded forests; also in plains
Description	: Diffuse herbs; rooting at lower nodes; leaves digitatley
	foliolate; flowers yellow; capsules oblong, transversely ridged.
Distribution	: Cosmopolitan
<b>Murraya koenigii</b> Linn.	
Synonym	: Bergera Koenigii

- English name : Curry-leaf tree
- Habit :Herb
- Description : Perennial herb, oblong-lanceolate leaf,white flowers.

: RUTACEAE

Family

Distribution	: India and Srilanka	
<b>Murraya paniculata</b> (L.) Jack.		
Synonym & Basionym	: Chalcas paniculata L.	
	Murayya exotica L.	
Family	: RUTACEAE	
Ver.Name	: Naaragamulla	
English Name	: Honey Bush	
Habit	: Tree	
Habitat	: Planted as ornamental tree	
Description	: Trees; leaves 3-7foliolate; flowers white, fragrant; fruits red when ripe	
Distribution	: Indo-Malasia and Austrailia	

# Swietenia macrophylla King

Family	: MELIACEAE
Ver. Name	: Mahogani
Habit	: Tree
Habitat	: Grown as avenue tree; also raised in plantations
Description	: Large trees with pinnate leaves; flowers greenish-
	white; capsules woody, dark brown when mature
Distribution	: Native of central America

Cayratia pedata (Lam.) A. Juss. ex Gagnep. var. pedata

Synonym & Basionym	: Cissus pedata Lam.	
	Vitis pedata (Lam) Wall. ex Wight & Arn.	
Family	: VITACEAE	
Habit	: Climber	
Habitat	: Moist Deciduous and semi-green forests; also in	
	plains	
Description	: Climbers; leaves simple, 5-9 foliolate; flowers	
	yellowish-white	
Distribution	: Indo-Malesia	
Cardiospermum halicacabum L.		
Family	: SAPINDACEAE	
Ver.Name	: Uzhinja, Valliuzhinja	
English Name	: Balloon vine, Balloonvine heartseed,Blister creeper, Heart pea, Heart seed, Winter cherry	
Habit	: Climber	
Habitat	: Moist deciduous forests and scrub jungles; also	
	in plains	
Description	: Tendrillar climbers; leaves biternate; flowers white; Capsules pyform; Winged at angles; seeds black	
Distribution	: Pantropical	
<b>Moringa oleifera</b> I am		

Moringa oleifera Lam.

Synonym	: Anoma Moringa	
Family	: MORINGACEAE	
English Name	: Drumstick tree.	
Habit	: Small tree	
Habitat	: Native to Sothern foothills of Himalayas in north western India, Semiarid, topical, subtropical areas.	
Description	: Perennial small tree, tripinnate leaves, flowers with yellowish-white petals.	
Distribution tropical Africa	: Native to India, Arabia, Africa, East Indies,	
Distribution	: Tropical Asia, Africa, Southern Canada	
Aeschynomene indica L.		
Suponum		
Synonym	: Aeschynomene cachemiriana, Aeschynomene diffusa	
Family		
	diffusa	
	diffusa : FABACEAE	
Family	diffusa : FABACEAE Sub Family: PAPILIONOIDEAE	
Family English Name	diffusa : FABACEAE Sub Family: PAPILIONOIDEAE : budda pea, curly indigo : is an annual or perennial herb, stem is thin, inflorescence is with reddish or purple-streated	

# Cajanus scarabaeoides (L.) Thouars

Synonym & Basionym	: Dolichos scarabaeoides L.
	Atylosia scarabaeoides (L.) Benth
Family	: FABACEAE/LEGUMINOSAE
	Sub Family: PAPILIONOIDEAE
Ver. Name	: Kaattumuthira
Habit	: Climber
Habitat	: Moist deciduous forests; also in plains
Description	: Pubescent climbers; leaves 3-foliate; flowers yellow; pods flat, pubescent.
Distribution	: Tropical Asia; introduced in Africa
<b>Cassia fistula</b> L.	
Synonym & Basionym	: Cassia rhombifolia Roxb.
Family	: FABACEAE/LEGUMINOSAE
	Sub Family : CAESALPINIOIDEAE
Ver. Name	: Kanikonna
English Name	: Indian laburnum, Goldem shower, Purging cassia, Purging fistula
Habit	: Tree
Habitat	: Moist deciduous forests; also planted as ornamental plant

Description	: Trees; leaves pinnate; flowers golden-yellow, drooping; pods brown, pendulous.	
Distribution	: Indo-Malesia	
Clitoria ternatea L. va	ar. <i>ternatea</i>	
Family	: FABACEAE/LEGUMINOSAE	
	Sub Family: PAPILIONOIDEAE	
Ver. Name	: Sankupushpam	
English Name	: Clitoria	
Habit	: Climber	
Habitat	: Grown in garden; also runs wild	
Description	: Herbs; leaves pinnate; flowers blue or creamy- white; pods flattened	
Distribution	: Probably native of South America, widely grown in Tropical countries	
<b>Crotalaria pallida</b> Dryand. var. <b>pallida</b>		
Synonym & Basionym	: Crotalaria striata DC.	
Family	: FABACEAE/LEGUMINOSAE	
	Sub Family: PAPILIONOIDEAE	
Ver. Name	: Kilukilikki, Kilumkkampettichedi	
Habit	: Shrub	
Habitat	: Degraded forest areas; also in plains	
Description	: Under shrubs; leaves 3-foliolate;fflowers yellow	

Distribution	:	Pantropical
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## **Desmodium gyrans** (L.f.)DC.

Synonym	: Codariocalyx motorius
Family	: FABACEAE
	Sub Family: PAPILIONOIDEAE
English Name	: Telegraph plant
Habit	: Shrub
Habitat	: Moist deciduous regions
Description	: Perennial shrub, green lanceolate shaped leaves,
	small light pink flowers.
Distribution	: Bangladesh, Nepal, Pakistan, Vietnam, Sri Lanka.
Desmodium heterophy	<b>yllum</b> (Willd.) DC.
	<b>yllum</b> (Willd.) DC. : Hedysarum heterophyllum Willd
Synonym & Basionym	: Hedysarum heterophyllum Willd
Synonym & Basionym	: Hedysarum heterophyllum Willd : FABACEAE/LEGUMINOSAECE
Synonym & Basionym Family	<ul> <li><i>Hedysarum heterophyllum Willd</i></li> <li>FABACEAE/LEGUMINOSAECE</li> <li>Sub Family: PAPILIONOIDEAE</li> </ul>
Synonym & Basionym Family Habit	<ul> <li><i>Hedysarum heterophyllum Willd</i></li> <li>FABACEAE/LEGUMINOSAECE</li> <li>Sub Family: PAPILIONOIDEAE</li> <li>Herb</li> </ul>
Synonym & Basionym Family Habit Habitat	<ul> <li>: Hedysarum heterophyllum Willd</li> <li>: FABACEAE/LEGUMINOSAECE</li> <li>Sub Family: PAPILIONOIDEAE</li> <li>: Herb</li> <li>: Degraded moist deciduous forests; also in plains</li> </ul>

Synonym & Basionym : Hedysarum triflorum L.

Family	: FABACEAE / LEGUMINOSAE
	Sub family: PAPILIONOIDEAE
Ver.Name	: Cherupulladi, Nilamparanda, Nillampulladi
Habit	: Herb
Habitat plains	: Moist deciduous forests and grasslands; also in
Description	: Prostrate herbs; rooting at nodes; leaves trifoliolate; flowers purplish-blue
Distribution	: Indo-Malesia and Australia
<b>Indigofera linnaei</b> Ali	
Synonym & Basionym	: Indigofera enneaphylla L.
Family	: FABACEAE / LEGUMINOSAE
	Sub Family: PAPILIONOIDEAE
Ver. Name	: Cherupulladi
Habit	: Herb
Habitat	: Grasslands; also in plains
Description	: Trailing grey pubescent herbs; leaves pinnate;
	flowers red
Distribution	: Indo-Malesia to Australia and West Africa
Stylosanthes fruticos	<b>a</b> (Retz.) Alston
Synonym &	: Arachis fruticosa Retz.
Basionym	Stylosanthes mucronata Willd.

Family	: FABACEAE/LEGUMINOSAE
	Sub Family: PAPILIONOIDEAE
Habit	: Shrub
Habitat	: Along riverbanks, roadsides and wastelands
Description	: Undershrubs with trifoliolate leaves; flowers yellow
Distribution	: Sri Lanka, India; Africa and Medagascar
Bauhinia acuminata	L.
Family	: FABACEAE / LEGMINOSAE
	Sub Family: CAESALPINIOIDEAE
Ver. Name	: Mandaaram
English Name	: dwarf white bauhinia, white orchid-tree and snowy orchid tree
Habit	: Tree
Habitat	: Grown as garden plant
Description	: Small trees, leaflets connate; one petal variegated
	yellow; fragrant; pods flat
Distribution	: Native of China; distributed throughout India
<b>Senna occidentalis</b> (L.) Link	
Synonym & Basionym	: Cassia occidentalis
Family	: FABACEAE / LEGUMINOSAE
	Sub Family: CAESALPINIOIDEAE

Ver. Name	: Karinthakara,Ponthakara
English Name	: Coffee-senna, Fetid senna, Negro coffee, septic weed.
Habit	: Shrub
Habitat	: Along riversides and wastelands
Description	: Shrubs with pinnate leaves; flowers yellow;
	pods compressed, horned.
Distribution	: Native of South America; now naturalized in Asia.
<b>Senna siamea</b> (Lam.) I	rwin & Barneby
Synonym & Basionym	: Cassia siamea Lam.
Family	: FABACEAE/LEGUMINOSAE
	Sub Family : CAESALPINIOIDEAE
Ver. Name	Sub Family : CAESALPINIOIDEAE : Manjakonna
Ver. Name English Name	-
	: Manjakonna
English Name	: Manjakonna : Ironwood tree, Siamese senna
English Name Habit	<ul> <li>Manjakonna</li> <li>Ironwood tree, Siamese senna</li> <li>Tree</li> </ul>
English Name Habit Habitat Description	<ul> <li>Manjakonna</li> <li>Ironwood tree, Siamese senna</li> <li>Tree</li> <li>Grown as a ornamental tree</li> </ul>
English Name Habit Habitat Description	<ul> <li>Manjakonna</li> <li>Ironwood tree, Siamese senna</li> <li>Tree</li> <li>Grown as a ornamental tree</li> <li>Trees with pinnate leaves; flowers yellow; pods</li> </ul>
English Name Habit Habitat Description woody	<ul> <li>Manjakonna</li> <li>Ironwood tree, Siamese senna</li> <li>Tree</li> <li>Grown as a ornamental tree</li> <li>Trees with pinnate leaves; flowers yellow; pods</li> <li>compressed</li> <li>Native of South East Asia</li> </ul>

Samanea saman (Jacq.) Merr.
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Family	: FABACEAE / LEGUMINOSAE
	Sub Family: MIMOSOIDEAE
Ver. Name	: Mazhamaram, Urakamthoongimaram
English Name	: Cow tamarind, Monkeypod,, Rain tree
Habit	: Tree
Habitat	: Grown as avenue tree
Description	: Trees with pinnate leaves; flowers rose; pods woody

# Mimosa diplotricha var. inermis

Synonym	: Mimosa invisa
Family	: FABACEAE
	Subfamily: MIMOSOIDEAE
English Name	: giant sensitive plant
Habit	: Shrubby climber
Habitat	: Tropical and sub-tropical regions, along drains, sunny to lightly shaded locations.
Description	: Short tived shrub, leaves are bipinnate, flowers develop into clustered slightly curved seed pods.
Distribution	: South America, Central America, Caribbea.
<b>Terminalia catappa</b> L.	
Synonym & Basionym	: Terminalia procera Roxb.

Family	: COMBRETACEAE
Ver. Name	: Badaam, Naatu-badaam, Thalli-thenga
English Name	: Indian almond tree, Tropical Almond, Badamier ,Java Almond, Malabar Almond, Singapore almond, Ketapang, Huu kwang, Pacific Almond
Habit	: Tree
Habitat	: Grown as ornamental tree
Description	: Deciduous trees with wide spreading crowns; leaves simple; flowers creamy; drupes reddish with 2 wings; pericarp fibrous and fleshy.
Distribution	: Malesia to North Austrailia and Polynesia, commonly planted in the Tropical Countries
<b>Psidium guajava</b> L.	
<b>Psidium guajava</b> L. Family	: MYRTACEAE
	: MYRTACEAE : Pera
Family	
Family Ver. Name	: Pera
Family Ver. Name English Name	: Pera : Guava, Guajava, Common guava
Family Ver. Name English Name Habit	: Pera : Guava, Guajava, Common guava : Small tree
Family Ver. Name English Name Habit Habitat Description	<ul> <li>: Pera</li> <li>: Guava, Guajava, Common guava</li> <li>: Small tree</li> <li>: Cultivated for fruits</li> </ul>
Family Ver. Name English Name Habit Habitat Description	<ul> <li>: Pera</li> <li>: Guava, Guajava, Common guava</li> <li>: Small tree <ul> <li>: Cultivated for fruits</li> </ul> </li> <li>: Evergreen trees; flowers white; berries green or</li> </ul>

## Lagerstroemia speciosa (L.) Pers.

Synonym & Basionym	: Lagerstroemia regimae Roxb.
	Lagerstroemia flos-reginae Retz.
Family	: LYTHRACEAE
Ver. Name	: Manimaruthu, Neermaruthu, Poomaruthu
English Name	: Banaba, Pride of India, Queen of flowers, Queen
	crepe myrtle
Habit	: Tree
Habitat	: Evergreen and semi-evergreen forests also planted as an avenue tree in plains
Description	: Trees; flowers pinkish; capsules4-valued covered
	by persistent calyx
Distribution	: Indo-Malesia
<b>Turnera subulata</b> Sm.	
Synonym & Basionym	: Turnera elegans Otto
	Turnera ulmifolia L. var. elegans (Otto)
Family	: TURNERACEAE
Habit	: Herb
Habitat	: Grown in garden; often found as an escape
Description	: Herbs with dentate leaves; flowers solitary,, yellow.
Distribution	: Native of Tropical America

# Coccinia grandis (L.) Voigt

Synonym & Basionym	: Bryonia grandis L.
	Coccinia indica Wight & Arn.
	Cephalandra indica (Wight & Arn) Naudin
Family	: CUCURBITACEAE
Ver. Name	: Koval
English Name	: Ivy gourd, Scarlet gourd, Tindora
Habit	: Herb
Habitat	: Dry deciduous forests and waste places; also
	cultivated as vegetables
Description	: Woody climbers; leaves simple, entire or lobbed;
	flowers white; berries red when ripe, edible.
Distribution	: Peninsular India and Sri Lanka
Mukia maderaspatan	<b>a</b> (L.) Roem.
Synonym &Basionym	: Cucumis maderaspaatanus L.
	Mukia scabrella (L. f.) Arn.
	Melothira maderaspatana (L) Cogn.
Family	: CUCURBITACEAE
Ver.name	: Mukkaaperam, puttalpeeram
Habit	: Climbers

Habitat	: Deciduous forests; also in plains
Description	: Pubescent; tendrillar climbers; flowers yellow ;berries red when mature
Distribution	: Paleotropics
Hamelia patens Jacq.	
Family	: RUBIACEAE
Ver. Name	: Pavizha chetthi
English Name	: Fire bush, Firecracker Plant
Habit	: Shrub
Habitat	: Grown as garden plant
Description	: Large shrub to small trees; flowers orange-red; berries crowned by the disk.
Distribution	: Native of tropical America; planted throughout the Tropics
<b>Ixora indica</b> ( L.) Baill.	
Synonym	: Pavetta indica L.
Family	: RUBIACEAE
English Name	: West Indian Jasmine.
Habit	: Shrub
Habitat	: Well drained tropical soils in medium rainfall areas
Description	: Perennial shrub, leaf is dark green, bright coloured flowers.

Distribution	: South India, Srilanka, Indonesia, Malaysia, Thailand
Mussaenda frondosa	Linn.
Synonym	: Mussaenda belilla
Family	: RUBIACEAE
English	: White flag Bush, Wild Mussenda
Habit	: Shrub
Habitat	: Most deciduous and semi-evergreen forests, also in the plains, Loam, Sand
Description	: Perennial, Flower are clusters of orange, yellow tubular flowers beside large, white bracts, set among pale green, Oval leaves.
Distribution	: Native to India, Nepal, Sri Lanka, Combodia, Vietnam, Malaysia and Indonesia
Oldenlandia umbella	<b>tta</b> L.
Synonym & Basionym	: Hedyotis umbellata (L.) Lam
	Hedyotis wightii (Hook.f) K.K.N.Nair
Family	: RUBIACEAE
Ver.Name	: Chayaveru
Habit	: Herb
Habitat	: Dry and moist deciduous forests ;also in plains
Description	: Diffuse herbs; flowers umbellate, pale pink.
Distribution	: Peninsular India and Sri Lanka

#### **Mikania micrantha** Kunth

Synonym &	:Mikania scandens Clarke	
Basionym	Mikania cordata (Burm.f.) Robins	
Family	: ASTERACEAE/COMPOSITAE	
Ver. Name	:Dridharaashtra pacha, Vayara	
English Name	: Mikenia	
Habit	: Climber	
Habitat	: Forest plantations; also in plains	
Description	: Non – tendrillar climbers; heads white	
Distribution	: Pantropical	
Tridax procumbens L.		
Family	: ASTERACEAE/COMPOSITAE	
Ver. Name	: Kumminnippacha, Muriyampachila, Odiyancheera, Thelkunni.	
English Name	: Coat-button, Mexican daisy	
Habit	: Herb	
Habitat	: Deciduous forests ; also wastelands in plains	
Description	: Straggling or procumbent , pubescent herbs; heads yellow	
Distribution	: Native of Tropical America	
<b>Vernonia cinerea</b> (L.) ]	Less.	
Synonym & Basionym	: Conyza cinerea L.	

Family	: ASTERACEAE/COMPOSTITAE	
Ver.bName	: Puvamkozhinjal, puvankurrunilla	
English Name	: Ash colored fleabane, purple fleabane	
Habit	: Herb	
Habitat	: Deciduous forests; also in plains	
Description	: Herbs; heads pale pink or purple	
Distribution	: Pantropical	
Wedelia trilobata (L.) A.S. Hitchc.		
Synonym & Basionym	: Silphium trilobatum L.	
Family	: ASTERACEAE/COMPOSITAE	
Ver.bName	: Manja- kayyunnyam	
English Name	: Singapore daisy	
Habit	: Herb	
Habitat	: Introduced as garden plant , now runs wild	
Description	: perennial herbs; rooting at nodes ; leaves 3- angular; heads yellow.	
Distribution	: Native of Tropical America	
Catharanthus roseus (L.) G. Don		
Synonym &	: Vinca rosea L.	
Basionym	: <i>Lochnera rosea</i> (L.) Rchb.	
Family	: APOCYNACEAE	

Ver. Name	: Nithyakallyani, savakottappacha, Savamnaripoovu. Sadapushpi, Smasanapoochedi, Ushamalari, Vishanarayani
English Name	: Periwinkle, Rose Periwinkle, Madagascar Periwinkle, Vinca
Habit	: Herb
Habitat	: Grown as ornamental plant
Description	: Ornamental herbs with milky lated;
	Flowers white or rose; follicles pubescent

### Cryptostegia grandiflora R.Br.

Family	: APOCYNACEAE
English Name	: Rubber vine
Habit	: Shrubby climber
Distribution	: This native to south west Madagascar. It is a significant weed in northern Australia
Habitat	: Tropical and subtropical areas. Seed germinate in wet seasons
Description	: It is a woody perennial vine plant. It grows up to 2m tall. It is supported on other vegetation as a vine
Rauvolfia tetraphylla L.	

Synonym & Basionym	: Rauvolfia canescens L.
Family	: APOCYNACEAE
Ver. Family	: Pambumkolli

English name	: Garden Rauvolfia
Habit	: Shrub
Habitat	: Forest plantations; also in the plains.
Description	: Shrub; leaves whorled; flowers white; fruits deep red or purple when ripe
Distribution	: Introduced from West Indies
<b>Tabernaemontana divaricata</b> (L.) R. Br.	
Synonym & Basionym	: Nerium divaricatum L
	Tabernaemontana coronaria (jacq) Willd.
	Ervatamia coronaria (Jacq.) Stapf
	Ervatamia divaricata (L.) Burkill
Family	: APOCYNACEAE
Ver . Name	: Nandiyar -Vattom
English Name	: East India rosebay
Habit	: Shrub
Habit Habitat	<ul><li>: Shrub</li><li>: Grown as ornamental plant</li></ul>
Habitat	: Grown as ornamental plant : Milky shrubs; leaves simple; flowers white; fruit
Habitat Description	<ul> <li>: Grown as ornamental plant</li> <li>: Milky shrubs; leaves simple; flowers white; fruit orange/red/green</li> <li>: Native of Southern Himalayas</li> </ul>
Habitat Description Distribution <b>Calotropis gigantea</b> (I	<ul> <li>: Grown as ornamental plant</li> <li>: Milky shrubs; leaves simple; flowers white; fruit orange/red/green</li> <li>: Native of Southern Himalayas</li> </ul>

Ver. Name	: Erukku, Vella-erukku	
English name	: Bowstring hemp , Swallow wort , milkweed , Giant calotrope , Crown Flower	
Habit	: Shrub	
Habitat	: Waste places	
Description	: Shrubs with milky latex , flowers purplish white or creamy; follicles in pairs	
Distribution	: Tropical Asia	
<b>Evolvulus alsinoides</b> (L.) L. var. alsinoides		
Synonym & Basionym	: Convolvulus alsinoides L.	
Family	: CONVOLVULACEAE	
Ver. Name	: Krishnakranti, Sivakranthi, Vishnukranthi	
Habit	: Herb	
Habitat	: Moist and dry deciduous forests; also in plains	
Description	: Prostrate silky pubescent herbs; flowers blue; capsules globose	
Distribution	: Pantropical	
Ipomea cairica (L.) Sweet		
Synonym & Basionym	: Connvolvulus cairicus L.	
	Ipomoea palmata Forssk.	
Family	: CONVOLVULACEAE	
Ver. Name	: Neelakolambi	

English Name	: Railway creeper, Cairo Morning glory
Habit	: Climber
Habitat	: Dry and moist deciduous forests; also inn plains
Description	: Non-tendrillar climbers; leaves palmately lobed;
	flowers blue
Distribution	: Paleotropics
<b>Ipomoea nil</b> (L.) Roth	
Synonym & Basionym	: Convolvulus nil L.
	Ipomoea hederacea sensu Hook.f.
Family	: CONVOLVULACEAE
Ver. Name	: Thaliyari
English Name	: Morning glory, Pharbitis seeds
Habit	: Climber
Habitat	: Deciduous forests; also in plains
Description	: Climbers; leaves palmately 3-lobed; flowers blue.
Distribution	: Native of South America; naturalized in Tropical
	Countries
<b>Ipomoea pes-tigridis</b> L	
Synonym & Basionym	: Ipomoea pes-tigridis L. var. Hepaticifolia ( L.) Clarke
Family	: CONVOLVULACEAE
Ver. Name	: Pulichuvadi, Poochakkal-valli

English Name	: Bindweed, Cupid's flower', Tiger's foot	
Habit	: Climber	
Habitat	: Degraded forests; also in plains	
Description	: Pubescent climbers; leaves digitately lobed; flowers white	
Distribution	: Pantropics	
Ipomoea quamoclit L.		
Synonym	: Quamoclit pennata	
Family	: CONVOLVULACEAE	
English name	: cypress vine ,cardinal creeper	
Habit	: herbaceous climber	
Description	: Twining annual vine ,climbing upto 6 m under ideal conditions flowers are crimson –red fruits are explosive capsules.	
Discription	: It is native to tropical regions of the New world from northern south America north to Mexico.	

### **Capsicum** frutescens L.

Synonym &	:Capsicum conoides Mill.
Basionym	Capsicum minimum Clarke
Family	: SOLANACEAE
Ver. Name	: Kantharimulaku
English name	: Bird Chilly
Habit	: Herb

Habitat	: Cultivated for fruits
Description	: Herbs; leaves simple; flowers white; berries elongate, cylindric
Distribution	: Native of Tropical America; now widely cultivated
<b>Physalis angulata</b> L.	
Synonym & Basionym	: Physalis minima L.
Family	: SOLANACEAE
Ver. Name	: Njodinjotta, Njottanjodian
English Name	: Sunberry, Country gooseberry
Habit	: Herb
Habitat	: Degraded forests and wastelands
Description	: Annual herbs; flowers yellow; berries orange- yellow at maturity, enclosed by inflated calex.
Distribution	: Tropical Africa, Asia and Australia
<b>Solanum torvum</b> Sw.	
Family	: SOLANACEAE
Ver. Name	: Anachunda,Chunda
English Name	: Turkey berry, Devil's Fig
Habit	: Shrub
Habitat	: Degraded forests areas; also in plains
Description	: Shrubs with variously lobbed leaves; flowers creamy; berries red at maturity

Distribution	: Tropics
<b>Scoparia dulcis</b> L.	
Family	: SCROPHULARIACEAE
Ver. Name	: Kaallurukki, karakanjavu, meenanganni
English Name	: Sweet broomweed
Habit	: Herb
Habitat	: Wastelands
Description	: Herbs; flowers white; capsules enclosed in calyx
Distribution	: Native of Tropical America; now naturalized in
	Pantropics

## **Bignonia capreolata** L.

Synonyms	: Doxantha capreolata
Family	: BIGNONIACEAE
English name	: Cross-vine
Habit	: Climbing herb
Habitat	:It tolerates a wide variety of conditions including coastal, but prefers an organically nice, well drained soil in full sun
Description	: It is a fast growing evergreen vine that can grow up to30 to 50 feet tall. It climbs by using tendrils
Distribution	: It is native to the southeastern united states in USDA hardiness zones 6-9

### Tecoma stans (L.) Juss. ex Kunth

Family	: BIGNONIACEAE
Synonym	: Bignonia incisa
Habit	: Shrub
English Name	: Yellow Bells
Habitat	: Cultivated as an ornamental and it is readly colonised in sandy, Rocky and cleared land.
Description	: Attractive plant and has sharply coloured green leaves and bright golden yellow trumpet shaped flowers
Distribution	: Wide natural distribution in tropical and subtropical America from Mexico to Argentina but naturalized in much of tropical and subtropical Africa, Asia, the Pacific Islands and Australia.
Justicia latispica ( C.	. B. Cl.)
Synonym	: Justicia Procumbens var. latispica
Family	: ACANTHACEAE
Habit	: Herb
Habitat	: Dry deciduous forest and scrub jungles
Description	: Erect or procumbent herbs, 30-50 cm high, leaves 3-5 to 1.3cm, elliptic-Elliptic-oblong, obtusely acute at apex, black when dry. Flowers 12 mm long calyx lobes 4mm long, ciliate along the

margins, corolla 10 mm long, villous inside, lilac

with brown streaks on lower lip.

Distribution : Peninsular India and Sri Lanka

#### Ruellia tweediana Griseb.

Synonym & Basionym	: Ruellia brittoniana Leonard
Family	: ACANTHACEAE
English Name	: Mexican petunia, Minnieroot, Waterkanon
Habit	: Herb
Habitat	: Wastelands
Description	: Erect herbs; flowers blue; capsules beaked
Distribution	: Native of tropical America; Naturalized in India and Malesia

## $\label{eq:clerodendrum} Clerodendrum\ infortunatum\ L.$

Synonym & Basionym	: Clerodendrum viscosum auct. non Vent
Family	: VERBENACEAE
Ver. Name	: Ottaveran, Perivelam, Peringalam
Habit	: Shrub to small tree
Habitat	: Degraded forest; also in plains
Description	: Pubescent shrubs; leaves simple, aromatic;
	flowers white
Distribution	: Indo-Malesia
<b>Duranta erecta</b> L.	
Synonym &	: Duranta repens L.
Basionym	Duranta plumieri Jacq.

Family	: VERBENACEAE
Ver. Name	: Maanikyachempazhukka
English name	: Duranta, Golden Dewdrop, Honey drops, Pigeon Berry
Habit	: Shrub
Habitat	: Grown as ornamental plant
Description	: Large shrubs; leaves simple; flowers
	Violet; drupes yellow – orange.
Distribution	: Native of America
<i>Lantana camara</i> L. var. camara	
Synonym & Basionym	: Lantana aculeata L.
	Lantana camara L. var aculeata. (L.) Moldenke
Family	: VERBENACEAE
Ver. Name	: Arippoochedi, Arippu, Kongini, Unnimullu
English Name	: Lantana, Wild sage
Habit	: Shrub
Habitat	: Introduced as ornamental plant;
	now naturalized as weed
Description :	Armed shrubs; flowers variously coloured; drupes globose; black when ripe
Distribution	: Native of Tropical America; naturalized in Tropical And Subtropical countries

#### Tectona grandis L. f.

Family	: VERBENACEAE
Ver. Name	: Thekku
English Name	: Teak
Habit	: Tree
Habitat	: Moist deciduous forests; also raised in plantations
Description	: Deciduous trees; leaves broadly elliptic; flowers
	white in panicles; drupes enclosed in calyx
Distribution	: South India and South East Asia
Anisomeles indica (L.) Kuntze	
Synonym & Basionym	: Nepeta indica
	Anisomeles ovata R. Br
	Anisolomes heyneana Benth.
Family	: LAMIACEAE / LABIATAE
Ver. Name	: Chadayan, Karithumba
Habit	: Herb
Habitat	: Dry and moist deciduous forests and wastelands
Description	: Aromatic pubescent herbs; flowers bluish white
Distribution	: Indo-Malesia and China
Hyptis suaveolens (L.)	Poit.

Synonym & Basionym : Ballota suaveolens L.

Family	: LAMIACEAE / LABIATAE	
Ver. Name	: Poothachadayan	
Habit	: Shrub	
Habitat	: Degraded moist and dry deciduous forests and wastelands	
Description	: Aromatic shrubs; leaves simple; flowers blue.	
Distribution	: Native of America; naturalized in Pantropics	
<b>Leucas aspera</b> (Willd.) Link		
Synonym & Basionym	: Phlomis aspera Willd.	
Family	: LAMIACEAE / LABIATAE	
Ver. Name	: Thumba	
English Name	: Thumba	
Habit	: Herb	
Habitat	: Deciduous forests and wastelands	
Description	: Herbs; leaves simple; flowers white in axilliary whorls.	
Distribution	: Indo-Malesia	
<b>Boerhavia diffusa</b> L.		
Synonym & Basionym	: Boerhavia repens L.	
Family	: NYCTAGINACEAE	
Ver. Name	: Thamizhama, Thazhuthama	
English Name	: Hogweed, Pigweed, Spreading Hogweed	

Habit	: Herb
Habitat	: Moist and dry deciduous forests; also in plains
Description	: Diffuse herbs; leaves simple, fleshy, slightly creamy below; flowers white , red or pink

Distribution : Pantropical

## Bougainvillea glabra Choicy

Family	: NYCTAGINACEAE
English name	: paper flower
Habit	: Climbing shrub
Habitat	: It needs full sunlight warm weather and well drained soil to flower well
Description	: It is a evergreen, climbing shrub with throny stems, tiny white flower usually appear in clusters
Distribution	: A native of brazil, widely cultivated in the tropics and Subtropics.

### Nyctanthes arbor-tristis Linn.

Synonyms	: Nyctanthes dentata
Family	: NYCTAGINACEAE
English Name	: Night Flowering Jasmine, Tree of sorrow
Habit	: Herb/shrub
Description	: It is a shrub; Flowers are fragrant with a 5-8
	lobed white corolla with orange-red centre. The
	leaves are opposite, simple.

: South Asia and South East Asia

### Achyranthes aspera L.

Family	: AMARANTHACEAE
Ver. Name	: Kadalaadi, Vankadalaadi
English Name	: Prickly chaff Flowering
Habit	: Herb
Habitat	: Dry deciduous forests; also inn plains
Description utricles enclosed in per	: Herbs; simple leaves; flowers greenish-white sistant perianth
Distribution	: Pantropical
<b>Aerva lanata</b> (L.) Juss. ex Schult	
Synonym & Basionym	: Achyranthes lanata L.
Family	: AMARANTHACEAE
Ver. Name	: Cheroola, Cherpoola
English Name	: Polpala
Habit	: Herb
Habitat	: Deciduous forests; also wastelands in plains
Description	: Herbs; Leaves simple, pubescent, lamina creamy-white adaxially; flowers greenish-white
Distribution	: Tropical and Subtropical countries
Alternanthera sessilis (L.) DC	

Synonyms :Alternanthera denticulata

Family	:AMARANTHACEAE
English name	: Sessile Joy weed/ Dwarf copper leaf.
Habit	: Herb
Description	: It is perennial herb with prostrate stems, leaves obovate to broadly elliptic , occasionally linear lanceolate. Flowers in sessile spikes, bract and bracteoles shiny white.
Distribution	: Plant occurs throughout the tropical and sub tropical regions. It has been introduced to southern united states and its origin in central and south America.

## Amaranthus spinosus L.

Family	: AMARANTHACEAE
Ver. Name	: Cherucheera, Mullencheera
English Name	: Prickly amaranth, Spiny pigweed,Spiny amaranth, Thorny amaranth
Habit	: Herb
Habitat	: Wastelands
Description	: Spiny herbs; leaves simple; flowers greenish- white, axillary or aggregate into terminal panicles
Distribution	: Native of America; now naturalized throughout the Tropical countries
Amaranthus viridis ${f L}$	

Ver. Name	:	Cherucheera, Kuppacheera, Kuppakeera	
English Name	:	Slender amaranth	
Habit	:	Herb	
Habitat	:	Wastelands land degraded forests	
Description	:	Unarmed herbs; leaves simple; flowers	
		greenish-white	
Distribution	:	Pantropical	
Gomphrena celosioides Mart.			
Synonym & Basionym	:	Gomphrena decumbens sensu Gamble	
Family	: .	AMARANTHACEAE	
Habit	:	Herb	
Habitat	:	Deciduous Forests; also in plains	
Description	:	Pubescent herbs; flowers creamy white	
Distribution	:	Native of south America; now naturalized in	
		Tropical countries	
Gomphrena globosa L.			
Family	: A	AMARANTHACEAE	
Ver. Name	: (	Chendumalli, Vaadamalli	
English Name	: (	Globe amaranth, Bachelor's buttons	
Habit	: F	Herb	
Habitat	: (	Grown as ornamental plant	

Description	: Ornamental herbs; leaves simple; flowers deep violet	
Distribution	: Native of Tropical America; planted in Tropical part of the world	
<b>Peperomia pellucida</b> (L.) Kunth		
Synonym & Basionym	: Piper pellucidum L.	
	Peperomia exigua (Blume) Miq.	
Family	: PIPERACEAE	

Ver. Name	: Chinkalam, Kannadippacha, Mashipatcha,
	Mashithanddu, sethu-pachha

Herb

Habitat	: Degraded forests and wastelands

Description : Succulent herbs; leaves thin,membraneous

Distribution	:	Native of Tropical America
		1

### Acalypha hispida Burm.f.

Family	: EUPHORBIACEAE
Ver. Name	: Poochavaalan
English Name	: Cat's tail, Red-hot cat's tail, Foxtail
Habit	: Shrub
Habitat	: Grown as garden plant
Description	: Ornamental shrubs; leaves simple, alternate;
	flowers red

Distribution	: Native of Papua New Guinea	
<b>Acalypha indica</b> L.		
Family	: EUPHORBIACEAE	
Ver. Name	: Kuppameni,, Kuppamani	
English Name	: Indian acalypha	
Habit	: Herb	
Habitat	: Dry deciduous forests; also in roadsides and wastelands in plains	
Description	: Annual herbs; leaves simple, petioles as long as	
	lamina; flowers greenish- white	
Distribution	: Indo-Malesia and Tropical Africa	
<b>Codiaeum variegatum</b> (L.) A. Juss.		
Synonym &	:Croton variegatus L.	
Basionym		
Family	:EUPHORBIACEAE	
Ver. Name	:Kozhivalan	
English Name	:Croton	
Habit	:Shrub	
Habitat	:Grown as ornamental plants	
Description	:Shrubs with milky latex; leaves simple,	
	Yellow/ red/variously coloured.	

Distribution	:Malesia to South West Pacific, introduced elsewhere
<b>Croton hirtus</b> L'Herit.	
Synonym &	:Croton glandulosus L.
Basionym	
Family	:EUPHORBIACEAE
Habit	:Herb
Habitat	:Wastelands
Description	:Herbs; flowers unisexual, yellowish green; capsules 3 lobed.
Distribution	:West Indies, Central and South America and Tropical Asia
Euphorbia heterophyl	la Linn.
Synonym & Basionym	: Euphorbia prunifolia Jacq.
	Euphorbia geniculata Ortega
Family	: EUPHORBIACEAE
Habit	: Herb
Habitat	: Degraded deciduous forests and wastelands
Description	: Herbs with milky latex; cyathia in terminal
	clusters; capsules green
Distribution	: Native of Central America; now naturalized in Pantropics

### Euphorbia milii Desmoul

Synonym & Basionym	: Euphorbia splendens Boj. ex Hook.
Family	: EUPHORBIACEAE
Ver. Name	: Mulkireedam
English Name	: Crown of Thorns
Habit	: Shrub
Habitat	: Grown as ornamental plant
Description	: Armed shrubs with milky latex; bracts variously coloured
Distribution	: Native of Madagascar; introduced to elsewhere
<b>Macaranga peltata</b> (R	oxb.) MuellArg.
Synonym & Basionym	: <i>Osyris peltata</i> Roxb.
	Macaranga roxburghii Wight
Family	: EUPHORBIACEAE
Ver. Name	: Thodukanni, Uppila, Vatta
Habit	: Tree
Habitat plains	: Moist deciduous and secondary forests; also in
Description	: Resinuous trees; leaves peltate; flowers greenish-
	yellow
Distribution	: India, Sri Lanka and Anadamans
	with a thick mesocarp

Distribution	:	Native of	Central	and	South	America;	widely
	gr	own in Tro	pical cou	ntries	3		

# **Phyllanthus emblica** L.

Synonym &	:Emblica officinalis Gaertn.
Basionym	
Family	:EUPHORBIACEAE
Ver. Name	:Nelli
English Name	:Emblic myrobalan, Indian gooseberry
Habit	:Tree
Habitat	:Dry and moist deciduous forests; also cultivated in plains for Berry
Description	:Deciduous trees; flowers unisexual,
	Greenish – yellow; drupes globose, edible.
Distribution	:Tropical countries
Phyllanthus myrtifoli	<b>us</b> Moon
Family	:EUPHORBIACEAE
Habit	:Shrub
Habitat	:Grown as hedge plant
Description	:Ornamental shrubs; flowers red.
Distribution	:Native of Sri Lanka
<b>Ricinus communis</b> L.	
Family	: EUPHORBIACEAE

Ver. Name	: Aavannakku, Chittavanakku	
English Name	: Castor oil plant, Castorbean, Krapata,Palma	
	Christi,Ricin,Wonder tree	
Habit	: Shrub	
Habitat	: Cultivated; also runs wild	
Description	: Monocios herbs; leaves palmately lobed; flowers	
	pale yellow.	
Distribution	: Native of Tropical Africa; now cultivated	
	throughout the tropical Countries	
Pilea microphylla (L.)	Liebm.	
Synonym & Basionym	: Parietaria microphylla L.	
Family	: URTICACEAE	
English Name	: Artillery plant, Gunpowder plant ,rockweed	
Habit	: Herb	
Habitat	: Grown as garden plant	
Description	: Monoecious herbs; leaves very small.	
Distribution	: Native of South America	
<b>Pouzolzia zeylanica</b> (L.) Bennett		
Synonym & Basionym	: Parietaria zeylanica L.	
	Pouzozia indica (L) Gaud.	
Family	: URTICACEAE	

English Name	: Graceful Pouzolz's Bush
Habit	: Herb
Habitat	: Grasslands, wet places
Description	: Perennial herb, ovate-elliptic, pale green flowers.
Distribution china	: Pakistan, India, Sri lanka, Burma, Malaysia and

### Artocarpus heterophyllus Lam.

Synonym & Basionym	: Artocarpus integrifolius Wight
Family	: MORACEAE
Ver. Name	: Plavu
English name	: Jack fruiting tree
Habit	: Tree
Habitat	: Evergreen and semi-evergreen forests; also cultivated
Description	: Trees; leaves simple with milky latex when young; flowers unisexual, greenish-white or yellow; sorosis greenish yellow, edible
Distribution	: Probably native of South India, cultivated in Tropical countries
Artocarnus hirsutus L	am

#### Artocarpus hirsutus Lam.

Family	:	MORACEAE
Ver. Name	:	Aanjili, Ayani
English Name	:	Wild jack

Habit	: Tree	
Habitat	: Semi-evergreen and moist deciduous forests; also in plains	
Description	: Trees; leaves simple with milky latex; sorosis yellow or orange-red, edible	
Distribution	: Southern and Western Ghats	
<b>Ficus religiosa</b> L.		
Synonym & Basionym	: Urostigma religiosum (L.) Gasp.	
Family	: MORACEAE	
Ver. Name	: Arayaal, Bodhivriksham	
English Name	: Peepal tree, Pipul, Sacred fig	
Habit	: Tree	
Habitat	: Grown in temple premises	
Description	: Large trees; leaves simple; figs reddish-black at	
	maturity	
Distribution	: East Himalayas; planted and naturalized in India and neighbouring Countries	
<b>Acampe praemorsa</b> (Roxb.) Blatt. & McCann		
Synonym & Basionym	: Epidendrum praemorsum Roxb.	
	Saccolabium praemorsum (Roxb.) Hook. f.	
	Acampe wightiana Lindl.	
Family	: ORCHIDACEAE	

Ver. Name	: Mara-vaazha, Upputhaali
Habit	: Herb
Habitat	: Epiphytes as in moist deciduous forests; lip white with pink stripes
Description	: Epiphytic herbs; flowers yellow, lip white with pink stripes
Distribution	: India, Sri Lanka and Seychelles
<b>Musa paradisiaca</b> L.	
Synonym & Basionym	: Musa rosacea Jacq.
	Musa x sapientum L.
Family	: MUSACEAE
Ver. Name	: Vaazha
English Name	: Banana, Kadali
Habit	: Herb
Habitat	: Cultivated
Description	: Large herbs; leaves large; flowers monoecious; fruits large, oblong
Distribution	: Cultivated throughout the Tropics
Asparagus racemosus	Willd.
Synonym & Basionym	: Protasparagus racemosus (Willd.) Oberm.
Family	: ASPARGACEAE
Ver. Name	: Sathavari

English Name	: Asparagus
Habit	: Climber
Habitat	: All forest type; also grown as garden plant in plains
Description	: Armed, tuberous climbers; cladodes from the axils of scale leaves; flowers white; fruits purple at maturity
Distribution	: Paleotropics
Dracaena marginata	Lam.
Family	: ASPARAGACEAE
English Name	: Dragon tree

Synonym	: red-edge dracena

Habit	: Small Tree

Habitat : well d	lrained soil
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Description	: Secondary thickening in their trunk which is
	quite different from the thickening meristem
	found in dicotyleodons .

Distribution	: Native in Madagascar and Mauritius
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# Commelina benghalensis L.

Family	: COMMELINACEAE
Ver. Name	: Vazhapadathi
English Name	: Dayflower
Habit	: Herb

Habitat	: Deciduous forests and wastelands
Description	: Annual herbs; rooting at nodes; flowers dimorphic
Distribution	: Africa, India, China, Japan and Malesia

### **Commelina diffusa** Burm. f.

Family	: COMMELINACEAE
English Name	: Creeping dayflower
Habit	: Herb
Habitat	: Wastelands
Description	: Herbs; rooting at nodes; leaves sessile; flowers blue
Distribution	: Pantropical
<b>Cyanotis cristata</b> (L.) D. Don	

Synonym & Basionym	: Commelina cristata L.
Family	: COMMELINACEAE
Habit	: Herb
Habitat	: Grasslands and wasteplaces
Description	: Prostrate herbs; leaves sessile; flowers blue; capsules trigonous.

# Distribution : Paleotropics

### Tonningia axillaris (L.) Kuntze

Synonym	: Cyanotis axillaris

Family : COMMELINACEAE

Common Name	: Creeping cradle plant
Description	: It is a creeping succulent herb, 15-45cm, with erect tops, stalkless narrow, linear lance like leaves are 5-15cm long.
Habitat	: Usually seen in exposed sunny places. They are found in teak forests, monsoon forest, woodland and wooded grassland.
Distribution	: World distribution in India, south east Asia, Malesia and Tropical Australia
<b>Cyperus distans</b> L. f.	
Synonym & Basionym	: Cyperus nutans sensu Clarke
	<i>Cyperus distans</i> L.f. var. pseudonutans Kukenth.
Family	: CYPERACEAE
Habit	: Herb
Habitat	: Wastelands and roadsides
Description	: Annual herbs.
Distribution	: Pantropical
<b>Cyperus rotundus</b> L.	
Family	: CYPERACEAE
Habit	: Herb
Common Name	: Coco-grass
Distribution	: This is a species of sedge native of Africa southern and central Europe and southern Asia

Habitat	: It prefer dry conditions but will tolerate most soils and often grown in waste lands and in crop fields.
Description	: It is a perennial plant, that may reach a height
	of upto 140 cm. The leaves sprout in ranks of 3
	from the base of the plant around 5-20cm long.
	The flower stems have triangular cross-section.
	The flower is bisexual and has three stamina and a
	three stigma carpel with flower head having 3-8
	unequal rays.

## Axonopus compressus (Sw.) P. Beauv.

Synonym & Basionym	: Milium compressum Sw.	
Family	: POACEAE/GRAMINAE	
English Name	: Carpet Grass, Broad-leaved carpetgrass	
Habit	: Herb	
Habitat	: Dry and moist deciduous forests; also in wastelands and paddy fields	
Description	: Annual grass	
Distribution	: Tropical and Subtropical countries	
Bambusa vulgaris Schard.		
Synonym & Basionym	: Bambusa striata Lodd. Ex. Lindi	
	<i>Bambusa vulgaris</i> Schard. var. striata (Lodd ex	
	Lindl.) Gamble	
Family	: POACEAE/GRAMINAE	
English Name	: Yellow bamboo	

Habit	: Herb
Habitat	: Deciduous forests, also grown in homesteads
Description	: Tall shrub; culm yellow with green striation in
	inflorescence compound panicle
Distribution	: India and Sri Lanka
<b>Cynodon dactylon</b> (L)	Pers.
Synonym & Basionym	: Panicum dactylon L.
Family	: POACEAE/GRAMINAE
Ver. Name	: Belikaruka, Karuka, Karukapullu
English Name	: Bermuda grass, Couch grass, Dog's Tooth grass,
	Dhub grass,Bahama Grass, Hariali grass
Habit	: Herb
Habitat	: Road sides and wastelands
Description	: Perennial stoloniferous herbs; flowers purplish-
	green
Distribution	: Tropical and warm temperature regions of the world
Echinochloa crus-galli (L.) Beauv.	
Synonym	: Panicum crus-galli
Family	: POACEAE/GRAMINAE
English Name	: Cockspur
Habit	: Herb

Habitat	: Wet or damp places.
Description	: Perennial herb, linear leaf with broad round base, glabrous, pale green or dull purple racemes.
Distribution	: Asian species that is now widely <i>distributed</i> throughout tropical and temperate regions of the world

### **Elusine indica** (L.) Gaertn.

Synonym & Basionym	: Cynosurus indicus L.	
Family	: POACEAAE/GRAMINAE	
English Name	: Crab grass, Crow-foot Grass, Goosegrass	
Habit	: Herb	
Habitat	: Roadsides and wastelands	
Description	: Herbs; plant body look like a crab	
Distribution	: Pantropical	
<b>Eragrostis tenella</b> (L.)	P. Beauv. ex Roem. & Schult.var. <b>tenella</b>	
Synonym & Basionym	: Poa tenella L. Eragrostis plumose (Retz) Link	
	<i>Eragrostis tenella</i> (L.) P. Beauv . var.plumosa (Retz) Stapf	
Family		
Family Habit	Stapf	
	Stapf : POACEAE/GRAMINAE	
Habit	Stapf : POACEAE/GRAMINAE : Herb : Grasslands and wastelands	

### Eragrostis amabilis sensu Stapf

Family	: POACEAE/GRAMINAE	
Ver. Name	: Karayampullu	
Habit	: Herb	
Habitat	: Bunds of paddy fields, banks of backwaters and in wastelands	
Description	: Herbs, leaves linear-oblong	
Distribution	: South East Asia, India and Africa	
<b>Panicum repens</b> L.		
Synonym	: Panicum littorale	
Family	: POACEAE/GRAMINAE	
English Name	: Torpedo grass	
Habit	: Herb	
Habitat	: Natural habitat, Lake shores, Swamps.	
Description	: Pernnial herb, leaves are waxy in texture, inflorescence is a Loose panicle.	
Distribution	: Africa, Asia, Northwards in USA	
<b>Pennisetum polystachyon</b> (L.) Schult.		
Synonym & Basionym	: Panicum polystachyon L.	
	Pennisetum setosum (Sw.) L.C.Rich.	
Family	: POACEAE/GRAMINAE	
Habit	: Herb	

Habitat	: Degraded moist deciduous forest and wastelands	
Description	: Annual herbs	
Distribution	: Paleotropics	
<b>Pennisetum purpureum</b> Schum.		
Pennisetum purpureu	am Schum.	
<b>Pennisetum purpureu</b> Synonym	a <b>m</b> Schum. : Amphochaeta exaltata	

5	
English Name	: Napier grasses, elephant grass
Habit	: Herb
Habitat	: Often grows wild on roadsides.
Description	: Perennial herb, glabrous leaf sheaths, inflorescence is yellow-brown in colour.
Distribution	: Native to subtropical Africa, tropical and subtropical countries.

#### Perotis indica (L.) Kuntze

Synonym & Basionym : Anthoxanthum indicum.L.

Perotis latifolia Ait.

Family	: POACEAE/GRAMINAE
Habit	: Herb
Habitat	: Wastelands
Description	: Annual herbs; nodes glabrous
Distribution	: Indo-Malesia

#### CONCLUSIONS

The families of collected plants are arranged following the classification of Bentham & Hooker (1862-1883) with delimitation to certain families according to Hutchinson and their current concept. The genera and species are arranged in alphabetical sequence under respective families and genera.

The correct name of the species is followed by the author's name and original publication. Basionym and relevant synonyms are also provided. Generic monographs/revisions are also cited. Exhaustive citation of the floras has been avoided to paucity of space. The floras cited along with names are in abbreviating form.

FMNC Campus is having rich diversity in the angiosperm flora, covering 121 species of angiosperms belonging to 116 genera, and representing 44 families. Dicots are dominating with 100 species, and the major habit form is herbs representing 59 entries.

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FIG. 1 FMNC CAMPUS

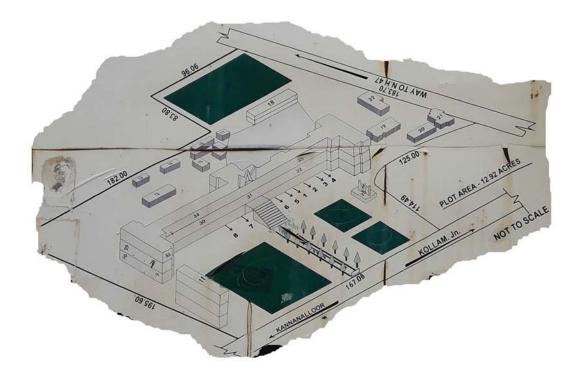


FIG. 2 CAMPUS LAY OUT