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# **Development and Maintenance of the Medicinal Plants Garden in the Peechi Campus**

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## **ABSTRACT OF THE PROJECT PROPOSAL**

1. Project No : KFRI/549/08
2. Title : Development and maintenance of the medicinal plants garden in the Peechi campus
3. Objectives :
  - Enriching the existing collection of medicinal plants in the garden.
  - Multiplication and distribution of plants commonly needed by the people
4. Date of commencement : April 2008
5. Date of completion : March 2011
6. Funding Agency : KFRI Plan Fund
7. Investigator : N Sasidharan

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## **1. Introduction**

Kerala has a rich tradition and long history in utilizing the bio-resources of the State for the healthcare needs of people and livestock. It is estimated that there are about 5000 Folklore medicinal practitioners in Kerala. The medicinal plants used by the Folklore practitioners are locally available ones and very little quantity is obtained from raw drugs dealers. The major consumers of the medicinal plants in the State are the Ayurvedic Medicine Manufacturing Industry, constituting about 90 per cent. The availability of medicinal plants in the forest as well as non-forest areas is getting reduced due to various reasons.

The State of Kerala is endowed with luxuriant vegetation due to the tropical climatic conditions and varied topographical features. These eco-physical and topographical features favored the formation of different vegetation types ranging from the shola-grasslands in the mountains to the mangroves along the estuaries and sea coasts. Each vegetation type has its own flora and fauna. As far as the utilization of the medicinal plants is concerned, it is found that major portions of the medicinal plants are from the nearby habitats. It is estimated that about 40% of the medicinal plants are obtained from the moist deciduous forests of the midlands, the nearest forest types around human settlements.

Among the forest bio-resources, medicinal plants occupy a significant position with respect to the healthcare of the people and livelihood of the people living inside and fringe areas of forests. Traditionally, the source of a raw drug is attributed to one species and its continuous extraction will lead to loss of genetic diversity and even depletion from the natural habitats. Collection of medicinal plants is unsustainable, because little consideration is shown by people while collecting. The medicinal plants which are capable of withstanding the heavy exploitation alone will survive. Sustainable extraction can help in the perpetuation of the medicinal plants but seldom practiced. Cultivation is an alternative to meet the requirement. But, for preventing the loss of genetic diversity, conservation is essential. The best way to protect a bio-resource is to conserve it in its natural habitats or *in situ* conservation. The other alternative is to conserve them in *ex situ* centres like Botanical gardens and Arboreta.

The state of Kerala has a relatively high percentage of protected areas. About 28 per cent of the forest areas have been brought under protected area network by establishing national parks and sanctuaries. Apart from the sanctuaries and national parks, nine Medicinal Plants Conservation Areas (MPCAs) were also established in different vegetation types as part of the *ex situ* conservation. Among the 9 MPCAs, the Kulamavu MPCA is with emphasis on the conservation of the endangered medicinal plant *Coscinium fennastratum* and Anappady MPCA for *Utleria salicifolia*. One disturbing fact is that *ex situ* conservation is implemented only in forest areas. Outside the forests, there is no *ex situ* conservation centre for the medicinal plants. Wetlands are fast disappearing due to changing land use. The Ministry of Environment & Forests, Govt. of India has programmes for supporting botanical gardens in the country. In 2000, the Institute received a grant of Rs.5 lakhs for improving the infrastructure facilities in the medicinal plants garden. The National Medicinal Plants Board (NMPB) also support *ex situ* conservation of medicinal plants. As part of the *ex situ* conservation and education/awareness programmes, Medicinal plants Gardens were established in the Research and Development (R&D) Institutes, Ayurvedic industrial units, Colleges, Universities, etc. Among the R & D centers of the Kerala State Council for Science, Technology & Environment, Kerala Forest Research Institute, Peechi, Jawaharlal Nehru Tropical Botanical Garden and Research Institute, Palode, Thiruvananthapuram and Malabar Botanical Garden, Olavanna, Kozhikode maintain Medicinal plants Gardens.

The Medicinal plants Garden at Peechi campus was established as early as in 1979. The Nilambur sub centre of the Institute also has Medicinal plants Garden with about 200 species. The Foundation for Revitalization of Local Health Traditions, Bangalore estimated that there are 1864 medicinal plants in Kerala used in various Indian Systems of Medicine and Folklore practices. Among these, only 832 have been recorded from the nine MPCAs of Kerala. The main objectives of establishing the medicinal plants garden of KFRI are conservation, education and extension.

The Medicinal plants garden of the Institute was part a research project *Studies on the Medicinal Plants of Kerala Forests*. The present work, *Development and Maintenance of the Medicinal Plants Garden in the Peechi Campus*, was taken on a project mode in 2005 for a period of three years with the objective of enriching the existing collections in the Medicinal Plants Garden. The project was extended for another three years in 2008.

## **2. Location and planting scheme**

The Medicinal plants garden occupies an area of 0.5 ha along the northern boundary and Forest Ecology Biodiversity Conservation Building of the Institute. The sloping terrain was terraced and the sides were strengthened with rubble packing to prevent soil erosion. Interlocked tiles were laid along the paths inside the garden. All the existing trees in the medicinal plants Garden are being maintained. The medicinal plants are planted in pots as well as in planting beds. Trees in the medicinal plants garden support climbing medicinal plants like pepper. There is a pond for growing aquatic medicinal plants. Supports are provided for climbing medicinal plants. Weeding and replanting are carried out as and when needed. The medicinal plants collection is being enriched by adding new plants collected from the wild as well as through exchange with other gardens. Multiplication of medicinal plants is a regular affair for distribution.

## **3. Conclusion**

At present there are 444 plants in the Medicinal plants Garden. Apart from medicinal plants, there are a few species belonging to the Red listed categories. The plants in the Medicinal plants Garden is listed below under respective families in alphabetical order. The local/common names are given against their scientific names. The species introduced after the initiation of the project are indicated by asterisk (\*).

## List of plants

SPECIES	COMMON NAMES
<b>ACANTHACEAE</b>	
<i>Adhatoda beddomei</i> (Clarke) Bennet	Cheriya-adalodakam
<i>Adhatoda zeylanica</i> Medic.	Adalodakam, Vasica
<i>Andrographis alata</i> (Vahl) Nees	Vallikiriyathu
<i>Andrographis paniculata</i> (Burm. f.) Wall. ex Nees	Kiriyatha, Nilavepu
* <i>Clinacanthus nutans</i> Lindau	Vishamooli
<i>Eranthemum capense</i> L.	Kuruguneeli
<i>Hemigraphis colorata</i> (Blume) Hall. f.	Murikoodi
<i>Hygrophila schulli</i> (Ham.) M.R. & S.M. Almeida	Chulli, Vayalchulli
<i>Justicia gendarussa</i> Burm. f.	Vathamkolli
<i>Justicia wynaadensis</i> (Nees) Heyne ex T. Anders.	
* <i>Lepidagathis cuspidata</i> Nees	Kodajathripaccha,
<i>Pseuderanthemum malabaricum</i> (Clarke) Gamble	
<i>Rhinacanthus nasutus</i> (L.) Kurz	Nagamulla
<i>Strobilanthes ciliatus</i> Nees	Karimkurinji, Kurunji
* <i>Thunbergia fragrans</i> Roxb.	Kasamalari
<i>Thunbergia mysorensis</i> (Wight) T. Anders.	
<b>AGAVACEAE</b>	
<i>Dracaena terniflora</i> Roxb.	Manjakantha
<b>AMARANTHACEAE</b>	
<i>Achyranthes aspera</i> L.	Kadaladi
<i>Aerva lanata</i> (L.) Juss. ex Schult.	Cherula
<i>Aerva sanguinolenta</i> (L.) Bl.	Vallicherula
<i>Amaranthus spinosus</i> L.	Mullencheera
<i>Cyathula prostrata</i> (L.) Blume	Cherukadaladi, Chuvannakadaladi
<b>ALANGIACEAE</b>	
* <i>Alangium salvifolium</i> (L.f.) Wang.	Ankolam
<b>AMARYLLIDACEAE</b>	
<i>Pancratium triflorum</i> Roxb.	Kattulli



<b>ANACARDIACEAE</b>	
<i>Anacardium occidentale</i> L.	Kasumavu, Parangimavu
<i>Lannea coromandelica</i> (Houtt.) Merr.	Kalash, Uthi
<i>Mangifera indica</i> L.	Mavu
<i>Spondias pinnata</i> (L. f.) Kurz	Ambazham
<b>ANNONACEAE</b>	
<i>Cananga odorata</i> (Lamk.) Hook.f. & Thoms.	Kanangamaram
* <i>Meiogyne ramarowii</i> (Dunn) Gandhi	Panthalmaram
* <i>Phaeanthus malabaricus</i> Bedd.	
<i>Uvaria narum</i> (Dunal) Wall. ex Wt. & Arn.	Kooril, Narumpanal
<b>APIACEAE</b>	
<i>Centella asiatica</i> (L.) Urban	Kodangal, Mutthil
<i>Eryngium foetidum</i> L.	African malli, Mallicheera
<b>APOCYNACEAE</b>	
<i>Alstonia scholaris</i> (L.) R. Br.	Ezhilamppala, Yekshippala
* <i>Alstonia venenata</i> R. Br.	Theepala
* <i>Baumontia jerdoniana</i> Wight	Swethapushpi
<i>Catharanthus roseus</i> (L.) G. Don	Nithyakallyani, Savanari
* <i>Chonemorpha fragrans</i> (Moon) Alston	Perumkurumba, Veluthakakkakodi
<i>Holarrhena pubescens</i> (Buch.-Ham.) Wall. ex G. Don	Kudagapala
<i>Ichnocarpus frutescens</i> (L.) R. Br.	Palvalli, Parvalli
<i>Rauwolfia serpentina</i> (L.) Benth. ex Kurz	Amalpori, Sarpagandhi
<i>Rauwolfia tetraphylla</i> L.	Pambumkolli
* <i>Strophanthus wightianus</i> Wall. ex Wight	Kambetti
<i>Tabernaemontana divaricata</i> (L.) R.Br.	Nandiyar-vattom
<i>Tabernaemontana heyneana</i> Wall.	Kundalappala, Kunninpala
<i>Vallisneria spiralis</i> (L.) Kuntze	Vishappala
<i>Wrightia tinctoria</i> (Roxb.) R. Br.	Dhanthapala, Kambipala, Vettupala
<b>ARACEAE</b>	
<i>Acorus calamus</i> L.	Vayambu, Sweet flag
<i>Amorphophallus commutatus</i> (Schott) Engl.	Kattuchena

<i>Amorphophallus paeoniifolius</i> (Dennst.) Nicols.	Kattuchena
* <i>Anaphyllum wightii</i> Schott	Keerikizhangu
<i>Lagenandra toxicaria</i> Dalz.	Andavazha, Neerchengazhi
<i>Raphidophora pertusa</i> (Roxb.) Scott.	Elitthadi, Athithippali
<b>ARECACEAE</b>	
<i>Calamus hookerianus</i> Becc.	Kallenchooral
<i>Calamus thwaitesii</i> Becc. & Hook. f.	Thadiayanchural, Vandichooral
<i>Calamus travancoricus</i> Bedd. ex Becc. & Hook. f.	Arichural, Cheruchural,
<i>Caryota urens</i> L.	Aanapana, Chundappana
<b>ARISTOLOCHACEAE</b>	
<i>Aristolochia indica</i> L.	Garudakodi, Iswaramooli
* <i>Aristolochia tagala</i> Cham.	Garudakodi
* <i>Thottea duchartrei</i> Sivar., Babu & Indu	Alpam
<i>Thottea siliquosa</i> (Lam.) Ding Hou.	Alpam, Kuttivayana
<b>ASCLEPIADACEAE</b>	
<i>Asclepias curassavica</i> L.	Kammalchedi
<i>Calotropis gigantea</i> (L.) R. Br.	Erikku
* <i>Cosmostigma racemosum</i> (Roxb.) Wight	Vattuvalli
<i>Cryptolepis buchananii</i> Roem. & Schult.	Kilippalavalli
* <i>Gymnema khandalense</i> Sant.	
<i>Gymnema sylvestre</i> (Retz.) R. Br. ex Schult.	Chakkarakolli
<i>Gymnema tingens</i> (Roxb.) Wight & Arn.	
<i>Hemidesmus indicus</i> (L.) R. Br.	Nannari, Narunandi
<i>Holostemma ada-kodien</i> Schult.	Adakkodien, Adapathiyan
<i>Sarcostemma acidum</i> (Roxb.) Voigt	Somalatha
<i>Tylophora indica</i> (Burm.f.) Merr.	Vallippala
<i>Wattakaka volubilis</i> (L.f.) Stapf	Vattakkakkakkoti
<b>ASTERACEAE</b>	
<i>Artemisia nilagirica</i> (Clarke) Pamp.	Tirunitripachcha
<i>Eclipta prostrata</i> (L.) L.	Kaithonni, Kayyunni
<i>Elephantopus scaber</i> L.	Aanachuvadi
<i>Emilia sonchifolia</i> (L.) DC.	Muyalchevian
<i>Eupatorium triplinerve</i> Vahl	Ayyappana

<i>Spilanthes calva</i> DC.	Eripacha, Kuppamanjal,
<i>Vernonia cinerea</i> (L.) Less.	Poovamkurunthala
* <i>Wedelia chinensis</i> (Osbeck) Merr.	Manjakanjunni, Kadal-kayyonni
<i>Wedelia trilobata</i> (L.) A.S. Hitchc.	Manjakayyuni
<b>BASELLACEAE</b>	
<i>Basella alba</i> L.	Vasalachira
<b>BEGONIACEAE</b>	
<i>Begonia floccifera</i> Bedd.	Kalthamara
<i>Begonia malabarica</i> Lam.	Kalpuli
<b>BIGNONIACEAE</b>	
<i>Millingtonia hortensis</i> L.f.	Korkumaram
<i>Oroxylum indicum</i> (L.) Benth. ex Kurz	Palakapayyani
<i>Radermachera xylocarpa</i> (Roxb.) K. Schum.	Pannimuringa, Vedinkorana
* <i>Stereospermum colais</i> (Buch.-Ham. ex Dillw.) Mabb.	Pathiri
<b>BOMBACACEAE</b>	
<i>Bombax ceiba</i> L.	Panjimaram
<b>BORAGINACEAE</b>	
<i>Cordia wallichii</i> G. Don	Virimaram
<i>Rotula aquatica</i> Lour.	Kallurvanchi
<b>BURSERACEAE</b>	
* <i>Canarium strictum</i> Roxb.	Thelly
<i>Commiphora caudata</i> (Wt. & Arn.) Engl.	Idinjil, Kilimaram
<i>Garuga pinnata</i> Roxb.	Annakkara, Kaaruvembu
<b>CACTACEAE</b>	
<i>Pereskia aculeata</i> Mill.	
<b>CAESALPINIACEAE</b>	
<i>Amherstia nobilis</i> Wall.	Simshipa-vriksham
<i>Bauhinia racemosa</i> Lamk.	Arapali, Malamandaram
<i>Bauhinia scandens</i> L. var. <i>anguina</i> (Roxb.) Ohashi	Nagavalli
<i>Bauhinia variegata</i> L.	Chuvannamandaram
* <i>Caesalpinia sappan</i> L.	Chappanga, Sappanwood

<i>Cassia alata</i> L.	Puzhukkadikonna
<i>Cassia fistula</i> L.	Kanikonna, Konna
<i>Cassia occidentalis</i> L.	Ponnaveeram, Ponnionthakara
<i>Cassia tora</i> L.	Thakara
* <i>Cynometra travancorica</i> Bedd.	Koori
* <i>Humboldtia decurrens</i> Bedd. ex Oliver	
* <i>Humboldtia sanjappae</i> Sasidh. & Sujanapal	
<i>Moullava spicata</i> (Dalz.) Nicols.	Poomullu
<i>Saraca asoca</i> (Roxb.) de Wilde	Ashokam
<i>Tamarindus indica</i> L.	Puli, Valampuli
<b>CAPPARACEAE</b>	
<i>Crataeva magna</i> (Lour.) DC.	Neermathalam
<b>CARICACEAE</b>	
<i>Carica papaya</i> L.	Pappaya
<b>CELASTRACEAE</b>	
<i>Cassine glauca</i> (Rottb.) Kuntze	Karuneerakam
<i>Celastrus paniculatus</i> Willd.	Cherupunna, Jyothishmathi
<b>CHRYSOBALANACEAE</b>	
<i>Atuna travancorica</i> (Bedd.) Kosterm.	Kallankaimaram
<b>CLUSIACEAE</b>	
<i>Garcinia gummi-gutta</i> (L.) Robs.	Kodampuli, Pinar
* <i>Garcinia mangostana</i> L.	Mangostin
<i>Mesua ferrea</i> L.	Churuli, Nanku,
* <i>Poeciloneuron indicum</i> Bedd.	Poothamkolli, Vayila
<b>COMBRETACEAE</b>	
<i>Anogeissus latifolia</i> (Roxb. ex DC.) Wall. ex Guill. & Perr.	Kalkanjiram, Vellanava, Korattykanjiram
<i>Calycopteris floribunda</i> Lam.	Pullanni, Pullanji
* <i>Quisqualis malabarica</i> Bedd.	Sandhyarani
<i>Terminalia arjuna</i> (Roxb. ex DC.) Wight & Arn.	Attumaruthu, Neermaruthu,
<i>Terminalia bellirica</i> (Gaertn.) Roxb.	Thanni, Thannikkai,
<i>Terminalia catappa</i> L.	Badam, Indian Almond tree
<i>Terminalia chebula</i> Retz.	Kadukka

<i>Terminalia crenulata</i> Roth	Karimaruthu
<i>Terminalia paniculata</i> Roth	Maruthu, Pullamaruthu
<b>CONVOLVULACEAE</b>	
* <i>Argyrea nervosa</i> (Burm.f.) Bojer	Maruthudari, Marikkunni, Samudrappacha
<i>Evolvulus alsinoides</i> (L.) L.	Krishnakranti, Vishnukranthi
<i>Ipomoea mauritiana</i> Jacq.	Palmuthukku
<i>Ipomoea obscura</i> (L.) Ker-Gawl.	Cherutali, Thiruthali
<i>Ipomoea pes-caprae</i> (L.) R.Br.	Adambu, Chunvanna- adambu
<i>Ipomoea pes-tigridis</i> L.	Pulichuvadi
* <i>Merremia turpethum</i> (L.) Shah & Bhat	Thrikolpakonna, Thripada
<b>CRASSULACEAE</b>	
<i>Kalanchoe laciniata</i> (L.) Pers	Astthi-bhaksha, Ilamulachi
<b>CUCURBITACEAE</b>	
<i>Coccinia grandis</i> (L.) Voight	Koval
<i>Momordica charantia</i> L. var. <i>muricata</i> (Willd.) Chakrav.	Undapaval, Kaippanpaval
<i>Trichosanthes cucumerina</i> L.	Kaippan padavalam
<b>CYCADACEAE</b>	
<i>Cycas circinalis</i> L.	Eenth, Theddappana
<b>CYPERACEAE</b>	
<i>Cyperus rotundus</i> L.	Muthanga
<b>DILLENiaceae</b>	
<i>Dillenia indica</i> L.	Syalita, Chalita
<i>Dillenia pentagyna</i> Roxb.	Malampunna
<b>DIOSCOREACEAE</b>	
<i>Dioscorea bulbifera</i>	Alanthal, Kattukachil
* <i>Dioscorea floribunda</i> Mart. & Gal.	Marnnukachil
<i>Dioscorea hispida</i> Dennst.	Podava-kilangu
<i>Dioscorea pentaphylla</i> L.	Noorakizhangu, Nuram

<b>DIPTEROCARPACEAE</b>	
<i>Dipterocarpus indicus</i> Bedd.	Kalpayin, Karanjili
<i>Hopea parviflora</i> Bedd.	Kambagam, Thambagam
* <i>Hopea ponga</i> (Dennst.) Mabber.	Kambagam
* <i>Vateria indica</i> L.	Vellapyayin
<b>EBENACEAE</b>	
<i>Diospyros buxifolia</i> (Blume) Hiern	Elichevian, Malamuringa
<b>ELAEOCARPACEAE</b>	
<i>Elaeocarpus glandulosus</i> Wall. ex Merr.	Kara, Kattukara
* <i>Elaeocarpus sphaericus</i> (Gaertn.) K.Schum.	Rudraksham
<i>Elaeocarpus tuberculatus</i> Roxb.	Adraksham, Ammakara,
<b>EQUISETACEAE</b>	
<i>Equisetum ramosissimum</i> Desf.	Cherapullu
<b>EUPHORBIACEAE</b>	
<i>Acalypha fruticosa</i> Forssk.	Kuppameni
<i>Antidesma acidum</i> Retz.	Asaripuli, Areepazham
<i>Aporusa lindleyana</i> (Wight) Baill.	Vetti
* <i>Baccaurea courtallensis</i> (Wight) Muell.-Arg.	Mootilpazham, Mootilthoori
<i>Baliospermum montanum</i> (Willd.) Muell.-Arg.	Danthi, Nagadanthi
<i>Bridelia crenulata</i> Roxb.	Mulluvenga, Kasi
<i>Cleistanthus collinus</i> (Roxb.) Benth. ex Hook.f.	Odugu
<i>Croton roxburghii</i> Balakr.	Somaraaji, Thomarayam
* <i>Croton tiglium</i> L.	Neervalam
<i>Drypetes roxburghii</i> (Wall.) Hurusawa	Puthranjeevi
<i>Euphorbia antiquorum</i> L.	Chathurakalli, Kalli
<i>Euphorbia nivulia</i> Buch.-Ham.	Elakkalli, Kallippala
* <i>Jatropha curcas</i> L.	Kadalavanakku, Kammatti
<i>Jatropha gossypifolia</i> L.	Chuvannakadalavanakku
* <i>Jatropha multifida</i> L.	Churakkalli
<i>Macaranga peltata</i> (Roxb.) Muell.-Arg.	Thodukanni, Vatta
<i>Mallotus philippensis</i> (Lam.) Muell.-Arg.	Chenkolli, Kuramaddaku,
<i>Phyllanthus amarus</i> Schum. & Thonn.	Keezharnelli
<i>Phyllanthus emblica</i> L.	Nelli, Gooseberry
<i>Phyllanthus kozhikodianus</i> Sivar. & Mani.	Keezharnelli

<i>*Phyllanthus tenellus</i> Roxb.	Melarnelli
<i>Sauropus androgynus</i> (L.) Merr.	Elakeera
<i>Sauropus quadrangularis</i> (Willd.) Muell.-Arg.	Punarmuringa
<i>*Sebastiana chamaelea</i> (L.) Muell.-Arg	Njettavanakku
<i>Tragia involucrata</i> L.	Choriyanam, Kodithoova
<b>FABACEAE</b>	
<i>Abrus precatorius</i> L.	Kunni, Kunnikuru
<i>*Aganope thyrsoflora</i> (Benth.) Polhill var. <i>eualata</i> (Bedd.) Thoth. & Das	
<i>Butea monosperma</i> (Lam.) Taub.	Chamatha, Plasu
<i>Centrosema molle</i> Benth.	Kattupayar
<i>*Clitoria ternatea</i> L. var. <i>pleniflora</i> Fantz	Sankupushpam
<i>Clitoria ternatea</i> L.	Sankupushpam
<i>Crotalaria retusa</i> L.	Kilukiluppa, Thanthalakkotti
<i>Dalbergia horrida</i> (Dennst.) Mabb.	Aanamullu, Jadavalli
<i>Dalbergia lanceolaria</i> L. f.	Kannanvaka, Velleeti
<i>Dalbergia sissooides</i> Grah. ex Wight & Arn.	Chelaveeti, Veeti, Rosewood
<i>Desmodium gangeticum</i> (L.) DC.	Orila
<i>Desmodium motorium</i> (Houtt.) Merr.	Thozhukanni, Telegraphic plant, Ramanamapacha
<i>Desmodium triflorum</i> (L.) DC.	Cherupulladi
<i>Desmodium velutinum</i> (Willd.) DC.	Orila
<i>Erythrina variegata</i> L.	Mulmurukku, Murukku,
<i>*Flemingia macrophylla</i> (Willd.) Prain ex Merr.	Kamatteri, Korkattachedi
<i>Indigofera tinctoria</i> L.	Amari, Neelayamari
<i>Pongamia pinnata</i> (L.) Pierre	Ungu, Indian beech
<i>Pseudarthria viscida</i> (L.) Wight & Arn.	Moovila
<i>Psoralea corylifolia</i> L.	Karkoalari
<i>Pterocarpus marsupium</i> Roxb.	Venga, Bijasal
<i>Pterocarpus santalinus</i> L. f.	Rakthachandanam, Red Sandal
<i>*Pueraria tuberosa</i> (Roxb. ex Willd.) DC.	Muthuku
<i>Rhynchosia hirta</i> (Andr.) Meikle & Verdc.	

<i>Spatholobus roxburghii</i> Benth.	Adambuvalli
<i>Vigna pilosa</i> (Roxb.) Baker	Kattucherupayar, Kattupayar
<i>Vigna umbellata</i> (Thumb.) Ohwi & Ohashi	Kattuzhunnu
<b>FLACOURTIACEAE</b>	
<i>Casearia wynadensis</i> Bedd.	Kari-kunnan
<i>Flacourtia indica</i> (Burm. f.) Merr.	Aghori
<i>Flacourtia montana</i> Grah.	Charalpazham
<i>Hydnocarpus pentandra</i> (Bunch.-Ham.) Oken	Marotti, Neerutti
<b>HIPPOCRATEACEAE</b>	
<i>Salacia fruticosa</i> Heyne ex Laws.	Eakanayakam
* <i>Salacia oblonga</i> Wall. ex Wight & Arn.	Ponkarandi
<b>HYPOXIDACEAE</b>	
<i>Curculigo orchioides</i> Gaertn.	Nelpana, Nilappana
<b>ICACINACEAE</b>	
<i>Sarcostigma kleinii</i> Wight & Arn.	Odal, Vellodal
<b>IRIDACEAE</b>	
* <i>Eleutherine bulbosa</i> (Mill.) Urban	Chuvannapolathali
<i>Belamcanda chinensis</i> L.	Belancanda
<b>LAMIACEAE</b>	
<i>Anisomeles malabarica</i> (L.) R.Br. ex Sims.	Karinthumba
<i>Coleus ambonicus</i> Lour.	Njavara, Panikoorkka
<i>Coleus zeylanicus</i> (Benth.) Cramer	Iruveli
* <i>Ocimum basilicum</i> L.	Ramathulasi
<i>Ocimum gratissimum</i> L.	Kattuthrithavu
<i>Ocimum tenuiflorum</i> L.	Krishna-thulasi, Thulasi,
<i>Orthosiphon aristatus</i> (Blume) Miq.	Poochameesa
* <i>Pogostemon patchouli</i> Hook. f.	Pachila
* <i>Scutellaria violacea</i> Heyne ex Benth.	
* <i>Scutellaria wightiana</i> Benth.	
<b>LAURACEAE</b>	
<i>Cinnamomum camphora</i> (L.) Presl	Karpuram, Camphor tree
<i>Cinnamomum malabattrum</i> (Burm. f.) Blume	Illavangam, Vayana



<i>Cinnamomum verum</i> Presl	Edana, Elavangam
<i>Litsea coriacea</i> (Heyne ex Meisner) Hook. f.	Maravettithali, Pannithali, Vettithali
<i>Persea macrantha</i> (Nees) Kosterm.	Kulamavu, Ooravu
<b>LECYTHIDACEAE</b>	
* <i>Barringtonia acutangula</i> (L.) Gaertn.	Aattuvanchimaram, Adambu
<i>Cauropita guyanensis</i> Aubl.	Nagalingam, Cannon ball tree
<b>LEEACEAE</b>	
<i>Leea indica</i> (Burm. f.) Merr.	Maniprandi, Njallu
<i>Leea macrophylla</i> Roxb. ex Hornem.	Njallu
<i>Leea robusta</i> Roxb.	
<b>LILIACEAE</b>	
<i>Aloe vera</i> (L.) Burm. f.	Kattarvazha
<i>Asparagus racemosus</i> Willd.	Sathavari
<i>Gloriosa superba</i> L.	Karilanchi, Menthonni
<b>HAEMODORACEAE</b>	
<i>Ophiopogon intermedius</i> D. Don	Orukkupullu
<b>LINACEAE</b>	
<i>Hugonia mystax</i> L.	Kaarthotti, Modirakkanni
<b>LOGANIACEAE</b>	
<i>Strychnos nux-vomica</i> L.	Kanjiram
<b>LYTHRACEAE</b>	
<i>Lawsonia inermis</i> L.	Mailanchi
<i>Woodfordia fruticosa</i> Kurz	Thathiripoovu
<b>MALVACEAE</b>	
<i>Abelmoschus moschatus</i> Medik.	Kattukasthuri, Kasthurivenda
<i>Hibiscus rosa-sinensis</i> L.	Chembarathi
<i>Hibiscus sabdariffa</i> L.	Pulinchi
<i>Sida acuta</i> Burm. f.	Malamkurunthotti, Malatanni

<i>Sida cordata</i> (Burm. f.) Borss.	Vallikurunthotti
<i>Sida cordifolia</i> L.	Vellooram, Velluppan
<i>Sida rhombifolia</i> L. ssp. <i>retusa</i> (L.) Borss.	Kurunthotti
<b>MALPIGHIACEAE</b>	
<i>Malpighia glabra</i> L.	Barbados Cherry
<b>MARATIACEAE</b>	
<i>Angiopteris evecta</i> Hoffm.	
<b>MARANTACEAE</b>	
* <i>Maranta arundinacea</i> L.	Koovachedi, arrow root
<i>Stachyphrynium spicatum</i> (Roxb.) Schum.	Kattukoova
<b>MELASTOMATACEAE</b>	
<i>Melastoma malabathricum</i> L.	Kadali, Kalampotti
<i>Memecylon lawsonii</i> Gamble	
* <i>Memecylon randerianum</i> SM & MR Almeida	Kaikkathetti, Kashara, Koovachekki
<b>MELIACEAE</b>	
<i>Aglaia elaeagnoidea</i> (Juss.) Benth.	Punyava
<i>Aglaia malabarica</i> Sasidh.	Chuvannacheeralam, Chuvannakil
<i>Aphanamixis polystachya</i> (Wall.) Parker	Chemmaram
<i>Azadirachta indica</i> A. Juss.	Aariyaveppu, Veppu, Neem
* <i>Chukrasia tabularis</i> A. Juss.	Chandanavembu, Chuvannakil
<i>Dysoxylum malabaricum</i> Bedd. ex Hiern	Akil, Purippa, Vellakil
<i>Naregamia alata</i> Wight & Arn.	Nilanaragam
<i>Walsura trifolia</i> (A. Juss.) Harms	Perilla-pacha
<b>MENISPERMACEAE</b>	
<i>Anamirta cocculus</i> (L.) Wight & Arn.	Pollakai
<i>Cissampelos pareira</i> L. var. <i>hirsuta</i> (Ham. ex DC.) Forman	Malathangi
<i>Coscinium fenestratum</i> (Gaertn.) Colebr.	Maramanjil
<i>Cyclea peltata</i> (Lam.) Hook. f. & Thoms.	Padakizhangu, Padathali
<i>Diploclisia glaucescens</i> (Blume) Diels	Battavalli, Vattoli
<i>Stephania wightii</i> (Arn.) Dunn	Malathangi

<i>Tiliacora acuminata</i> (Poir.) Miers ex Hook.f. & Thoms.	Vallikanjiram
<i>Tinospora cordifolia</i> (Willd.) Hook.f. & Thoms.	Amrthu, Chitamrthu
<i>Tinospora sinensis</i> (Lour.) Merr.	Kattamruthu
<b>MIMOSACEAE</b>	
<i>Acacia catechu</i> (L.f.) Willd.	Karingali
<i>Adenantha pavonina</i> L.	Manchadai
<i>Albizia lebbek</i> (L.) Willd.	Karimthakara
* <i>Entada rheedei</i> Spreng.	Kakkumkai
<i>Inga cynometroides</i> (Bedd.) Bedd. ex Baker	
<i>Mimosa pudica</i> L.	Thottalvadi
<i>Prosopis juliflora</i> (Sw.) DC.	Vanni
<i>Xylia xylocarpa</i> (Roxb.) Taub.	Irul
<b>MORACEAE</b>	
<i>Antiaris toxicaria</i> Lesch.	Aranthal, Maravuri, Upas tree
<i>Artocarpus heterophyllus</i> Lam.	Plavu
<i>Artocarpus hirsutus</i> Lam.	Ayani
<i>Ficus benghalensis</i> L.	Peraal
<i>Ficus benjamina</i> L.	Ithi
<i>Ficus hispida</i> L. f.	Erumanakku, Parakam
* <i>Ficus microcarpa</i> L. f.	Ithi
<i>Ficus racemosa</i> L.	Atthi
<i>Ficus religiosa</i> L.	Arayal
<i>Morus alba</i> L.	Malberi
<i>Streblus asper</i> Lour.	Paruvamaram
<b>MUSACEAE</b>	
<i>Ensete superbum</i> (Roxb.) Cheesman.	Kalluvazha, Malavazha
<b>MYRISTICACEAE</b>	
* <i>Knema attenuata</i> (Hook. f. & Thoms.) Warb.	Chennelli, Chorappayin
* <i>Myristica beddomei</i> King	Adakkapayin, Kothappayin, Pathiripoovu
<i>Myristica fragrans</i> Houtt.	Jathikka, Nutmeg

<b>MYRSINACEAE</b>	
<i>Ardisia solanacea</i> Roxb.	Kuzhimundan
<i>Embelia tsjeriam-cottam</i> (Roem. & Schult.) DC.	Vizhal
<b>MYRTACEAE</b>	
<i>Eucalyptus tereticornis</i> Smith	Eucalyptus
<i>Eugenia uniflora</i> L.	Mulakunelli
<i>Psidium guajava</i> L.	Pera
<i>Syzygium cumini</i> (L.) Skeels	Njara, Njaval, Jaman
<i>Syzygium mundagam</i> (Bourd.) Chithra	Kattuchampa, Mundagam
* <i>Syzygium travancoricum</i> Gamble	Poriyal, Vathamkollimaram
<b>NYCTAGINACEAE</b>	
<i>Boerhavia diffusa</i> L.	Thazhuthama
<b>OLACACEAE</b>	
<i>Strombosia ceylanica</i> Gard.	Kalkadambu, Kalmanikkam
<b>OLEACEAE</b>	
<i>Jasminum angustifolium</i> (L.) Willd.	Kattumallika
<i>Jasminum grandiflorum</i> L.	Malathi, Pichakam
<i>Myxopyrum smilacifolium</i> Bl.	Chathuramulla
<i>Olea dioica</i> Roxb.	Edana, Vidana
<b>ORCHIDACEAE</b>	
<i>Geodorum densiflorum</i> (Lam.) Schltr.	
<i>Malaxis rheedei</i> Sw.	Jeevakam
<i>Nervilia aragoana</i> Gaud.	Orilathamara
* <i>Nervilia plicata</i> (Andr.) Schltr.	Nilathamara
<i>Vanda tessellata</i> (Roxb.) Hook. ex G. Don	Maravazha
<i>Vanilla aphylla</i> Blume	
<i>Vanilla planifolia</i> Andr.	Vanila
<b>OXALIDACEAE</b>	
<i>Biophytum reinwardtii</i> (Zucc.) Klotzsch	Mukkutti
<i>Oxalis corniculata</i> L.	Puliyarila, Pulivayila
<b>PANDANACEAE</b>	
<i>Pandanus amaryllifolius</i> Link	Rambha

<b>PASSIFLORACEAE</b>	
<i>Adenia hondala</i> (Gaertn.) Wilde	Karimuthukku, Muthukku
<b>PIPERACEAE</b>	
<i>Piper argyrophyllum</i> Miq.	Kattukurumulaku
<i>Piper betle</i> L.	Kodinjali, Vettilakkodi
* <i>Piper chaba</i> Hunter	Thippali
<i>Piper colubrinum</i> Roxb.	
<i>Piper longum</i> L.	Kattuthippali, Pippili, Thippali
<i>Piper nigrum</i> L.	Kurumulaku, Black pepper
<b>PLUMBAGINACEAE</b>	
<i>Plumbago indica</i> L.	Chuvana-koduveli, Koduveli
<i>Plumbago zeylanica</i> L.	Koduveli, Vellakoduveli
<b>POACEAE</b>	
<i>Bambusa bambos</i> (L.) Voss	Mula
<i>Cymbopogon martinii</i> (Roxb.) Wats.	Sambarapullu, Lemon grass
<i>Cynodon dactylon</i> (L.) Pers.	Karuka, Karukapullu
<i>Dendrocalamus strictus</i> (Roxb.) Nees	Kallanmula
<i>Imperata cylindrica</i> (L.) Raeusch.	Dharbha
* <i>Saccharum arundinaceum</i> Retz.	Karimbu
<i>Vetiveria zizanioides</i> (L.) Nash	Ramacham, Vettiver
<b>POLYGONACEAE</b>	
<i>Polygonum chinense</i> L.	Poovallikodi
<b>POLYPODIACEAE</b>	
<i>Lygodium scandens</i> Sw.	Naipalli, Polivalli
<b>PORTULACACEAE</b>	
<i>Talinum portulacifolium</i> (Forssk.) Aschers & Sch.	Badhalacheera, Sambarkeera
<b>PTERIDACEAE</b>	
<i>Actinopteris radiata</i> (Surantz) Link	Mayurasika
<b>PUNICACEAE</b>	
<i>Punica granatum</i> L.	Mathalam

<b>RANUNCULACEAE</b>	
<i>Naravelia zeylanica</i> (L.) DC.	Vathamkodi
<b>RHAMNACEAE</b>	
<i>Ziziphus rugosa</i> Lam.	Juli, Kottamullu, Thodali
<i>Ventilago bombaiensis</i> Dalz.	Vembadavalli
<b>RHIZOPHORACEAE</b>	
<i>Blepharistemma serratum</i> (Dennst.) Suresh	Nirkurunda
<b>ROSACEAE</b>	
<i>Prunus ceylanica</i> (Wight) Miq.	Attanaripongu, Naikambagam
<b>RUBIACEAE</b>	
<i>Catunaregam torulosa</i> (Dennst.) Triv	Malankara
<i>Chassalia ophioxylodes</i> (Wall.) Craib.	Vellakurinji
<i>Coffea arabica</i> L.	Coffee, Kappi
<i>Gardenia angusta</i> (L.) Merr.	
<i>Geophila repens</i> (L.) Johnst.	Karimutthil
<i>Hedyotis corymbosa</i> (L.) Lam.	Parppadakapullu
<i>Hymenodictyon orixense</i> (Roxb.) Mabber.	Chakkathekku, Perumtholi
<i>Ixora coccinea</i> L.	Chethi, Thechi
<i>Ixora malabarica</i> (Dennst.) Mabber.	Cherukuravu
<i>Mussaenda belilla</i> Buch.-Ham.	Vellila
<i>Neolamarkia cadamba</i> (Roxb.) Bosser	Kadamba
<i>Psilanthus travancorensis</i> (Wt. & Arn.) Leroy	Pushkkaramoolam
<i>Rubia cordifolia</i> L.	Manjetti, Manjishta
<b>RUTACEAE</b>	
<i>Aegle marmelos</i> (L.) Correa	Koovalam, Vilvam, Bael tree
<i>Atalantia racemosa</i> Wight	Kattunaragam
<i>Clausena anisata</i> (Willd.) Hook.f. ex Benth.	Kattukariveppila
* <i>Limonia acidissima</i> L.	Vilarmaram
<i>Melicope lunu-ankenda</i> (Gaertn.) Hartley	Kambili, Kanala, Nasakam
<i>Murraya koenigii</i> (L.) Spreng.	Kariveppila, Curry leaf
<i>Naringi crenulata</i> (Roxb.) Nicolson	Malanarakam, Narinarakam
<i>Ruta graveolens</i> L.	Arutha
<i>Zanthoxylum rhetsa</i> (Roxb.) DC.	Mullilam

<b>SANTALACEAE</b>	
<i>Santalum album</i> L.	Chandanam, Sandal
<b>SAPINDACEAE</b>	
<i>Allophylus serratus</i> (Roxb.) Kurz	Mukkannanpezhu
<i>Cardiospermum halicacabum</i> L.	Uzhinja, Valliuzhinja
<i>Filicium decipiens</i> (Wight & Arn.) Thw	Irumbarakki, Neeroli, Sanimaram
<i>Lepisanthes tetraphylla</i> (Vahl) Radlk.	Kulapunna, Naikolli
<i>Litchi chinensis</i> Sonner.	Litchi
* <i>Nephelium lappaceum</i> L.	Rambutan
<i>Sapindus trifoliata</i> L.	Pasakotta, Urulungi
<i>Schleichera oleosa</i> (Lour.) Oken	Poovam
<b>SAPOTACEAE</b>	
<i>Achras sapota</i> L.	Chiku, Sappota
<i>Chrysophyllum cainito</i> L.	Star apple
* <i>Madhuca bourdillonii</i> (Gamble) H.J. Lam	Thandidiyan, Ponavu
<i>Madhuca longifolia</i> (Koen.) J.F. Macbr.	Ilupa
<i>Mimusops elengi</i> L.	Elanchi, Elangi
<i>Pouteria campechiana</i> (Kunth) Baehni	Mutta-pazham, Egg-fruit
<b>SCROPHULARIACEAE</b>	
<i>Bacopa monnieri</i> (L.) Pennell	Bhrammi, Neerbrahmi
<i>Scoparia dulcis</i> L.	Kallurukki
<b>SIMAROUBACEAE</b>	
<i>Ailanthus triphysa</i> (Dennst.) Alston	Matti, Perumaram, Pongilium
<i>Quassia amara</i> L.	Quassia
<i>Quassia indica</i> (Gaertn.) Nooteb.	Karijotta
<b>SMILACACEAE</b>	
<i>Smilax zeylanica</i> L.	Kareelanchi
<b>SOLANACEAE</b>	
<i>Capsicum annuum</i> L.	Mulaku
<i>Datura metel</i> L.	Ummam
* <i>Solanum diphyllum</i> L.	

<i>Solanum incanum</i> L.	Peechunda, Cheruvazhuthina
<i>Solanum surattense</i> Burm. f.	Kandakarichunda
<i>Solanum torvum</i> Sw.	Kattuchunta, Puthirichunda
<i>Solanum violaceum</i> Ortega	Puthrichunda
<b>STERCULIACEAE</b>	
<i>Helicteres isora</i> L.	Edampiri-Valampiri
<i>Pterospermum reticulatum</i> Wight & Arn.	Malayuram
<i>Sterculia guttata</i> Roxb. ex DC.	Kavalam, Peenari
* <i>Sterculia villosa</i> Roxb. ex DC.	Vakka, Elephant rope tree
<b>SYMPLOCACEAE</b>	
<i>Symplocos cochinchinensis</i> (Lour.) Moore ssp. <i>laurina</i> Nootb	Pachotti
<b>TILIACEAE</b>	
<i>Grewia nervosa</i> (Lour.) Panigr.	Kotta, Kottakka
<i>Grewia tiliifolia</i> Vahl	Chadachi
<b>TRICHOPODACEAE</b>	
* <i>Trichopus zeylanicus</i> Gaertn.	Arogyapacha
<b>ULMACEAE</b>	
<i>Holoptelea integrifolia</i> (Roxb.) Planch.	Aavel, Njettaval, Indian elm
<b>URTICACEAE</b>	
<i>Dendrocnide sinuata</i> (Blume) Chew	Aanayaviratti, Anachoriyan
<b>VERBENACEAE</b>	
<i>Citharexylum spinosum</i> L.	Parijatham
<i>Clerodendrum serratum</i> (L.) Moon	Cheruthekku
<i>Clerodendrum viscosum</i> Vent.	Peruku, Vattapparuvallam
<i>Gmelina arborea</i> Roxb.	Kumbil, Kumizhu, Gamari
<i>Gmelina philippensis</i> Cham.	
<i>Premna coriacea</i> Clarke	
* <i>Premna glaberrima</i> Wight	
<i>Premna serratifolia</i> L.	Munja
<i>Stachytarpheta urticifolia</i> (Salisb.) Sims	Kadapananthu
<i>Symphorema involucratum</i> Roxb.	
<i>Tectona grandis</i> L.f.	Thekku
<i>Vitex negundo</i> L.	Karinochi, Nochi



<b>VITACEAE</b>	
<i>Cissus glauca</i> Roxb.	Chunnambuvalli, Njarala
<i>Cissus quadrangularis</i> L.	Chanamparanda, Changalamparanda
<b>ZINGIBERACEAE</b>	
<i>Alpinia calcarata</i> Rosc.	Aratha, Chittaratha
<i>Alpinia galanga</i> (L.) Sw.	Kolaratha, Kolinji
<i>Amomum pterocarpum</i> Thw.	Perelam
<i>Boesenbergia pulcherrima</i> (Wall.) O. Ktze.	
<i>Costus speciosus</i> (Koenig) Smith	Channa, Channakoova
<i>Curcuma amada</i> Roxb.	Manga inchi
* <i>Curcuma aromatica</i> Salisb.	Kasthurimanjal
<i>Curcuma ecalcarata</i> Sivar. & Indu Balachandran	
<i>Curcuma longa</i> L.	Manjal, Turmeric
<i>Curcuma vamana</i> Sabu & Mangaly	
<i>Curcuma zedoaria</i> (Christm.) Rosc.	Manjkoova
<i>Elettaria cardamomum</i> (L.) Maton	Elam, Cardamom
<i>Hedychium coronarium</i> Koenig	Saugandhikam
<i>Kaempferia galanga</i> L.	Kacholam, Kachoori
<i>Kaempferia rotunda</i> L.	Chengazhi
<i>Zingiber cernuum</i> Dalz.	Mala-inchi
<i>Zingiber officinale</i> Rosc.	Inchi, Ginger
<i>Zingiber zerumbet</i> (L.) Smith	Kattinchi, Kolinchi