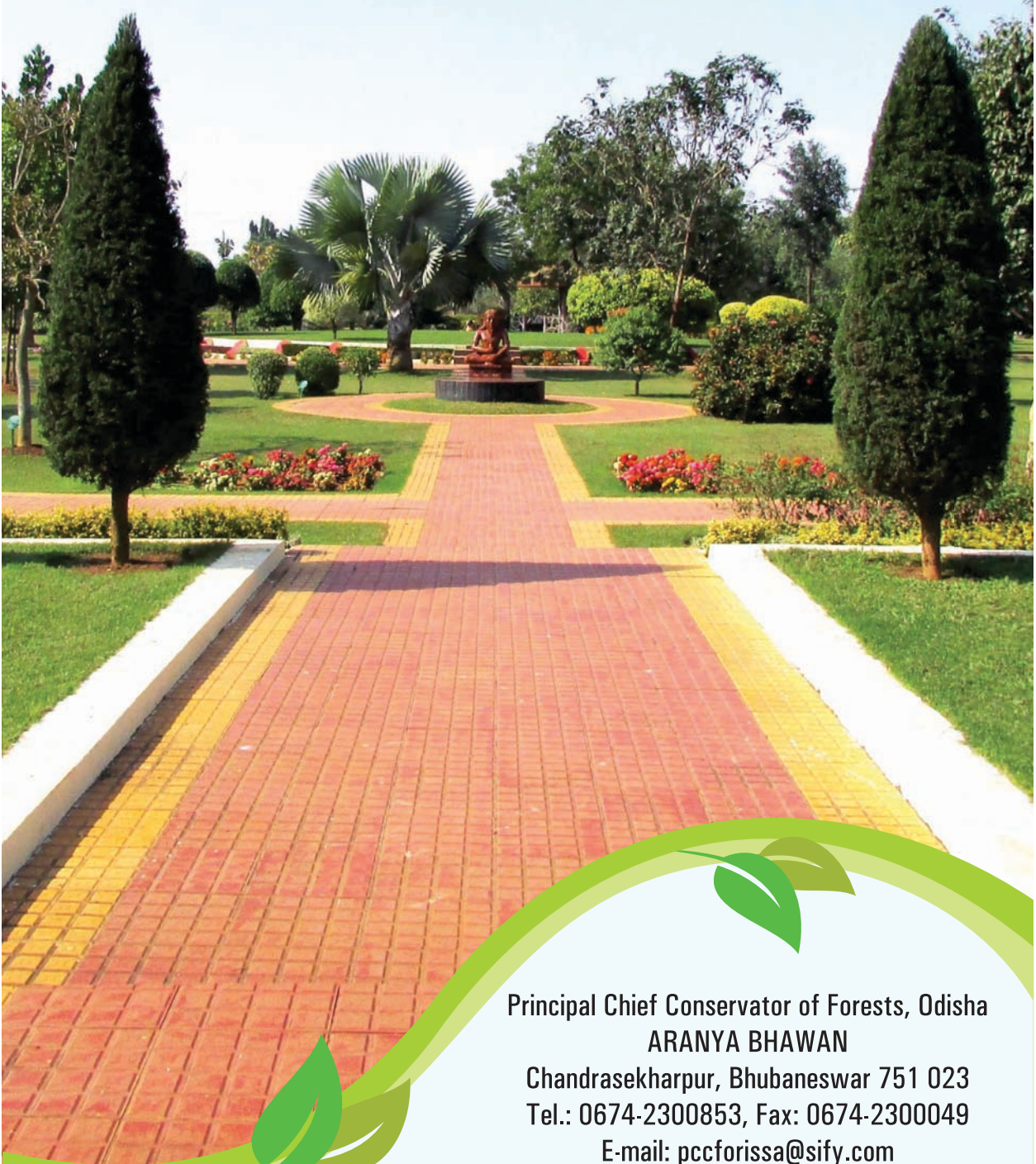


MEDICINAL PLANTS KNOWLEDGE CENTRE BHUBANESWAR



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Medicinal Plants Knowledge Centre

The Medicinal Plants Knowledge Centre has been set up on 60 hectares of land by the side of NH-5 at Patrapada within the city limits of Bhubaneswar. This Centre will create a focus on the medicinal plants sector and enable the forest officials to quickly enhance knowledge of these plant species and their application. Such knowledge is important for putting in place appropriate plans and prescriptions for sustainable management of the plants of medicinal value, whether found in forests or cultivated. The Centre will also cater to the requirements of Ayurvedic practitioners, people relying on various local health traditions, as well as of students and faculties of Ayurvedic institutions in finding a ready source of plant material and an appropriate database on each species. The database comprising both taxonomic and Ayurvedic information will be continuously updated. There will also be facility at the Centre for undertaking academic activities and research, and for holding seminars and symposia on relevant themes.

The following facilities have so far been created by 15th July, 2010 at this Centre:

- The Centre area has been surveyed and fenced out, and a land use map has been prepared. The land use map depicting where exactly to find a particular species, and a complete picture of activities being carried out at different plots, has been prominently displayed as an information signage near the Entrance Area.
- 100 different tree species having medicinal value have been planted at the centre, each species in a separate plot. The number of plants on any plot varies from 50 to 125. Each plot has been covered by field beds, so that all together these plots constitute a zero run off area.
- The relatively more refractory sites extending over 22 hectares have been covered by drip irrigation. Water supply is ensured

through five deep bore wells.

- Strips have been laid out under the established tree cover for under planting of species like Turmeric, Ginger and Arrowroot. These shade bearing plants are already coming up in profusion at these sites.
- Altogether 73 herbal species, 72 shrub species and 30 species of creepers and climbers have been raised in the nursery beds, and planted in clusters in the Demonstration Area.
- A suitably landscaped Demonstration Area has been laid out over 1.35 hectares. This is named after 'Charaka', the legendary man of Ayurveda. All species of trees, shrubs, climbers and herbs can be seen at one place here. The Demonstration Area has a pool for aquatic plants of medicinal value, an amphitheatre, and a central gazebo. To create a proper ambience, a water fall and a water fountain and paved paths have been laid out in this area. There is a signage for each planted species.
- 7 species of medicinal plants which have already high demand in our State, have been raised to produce sizeable quantities of the desired plant parts. An area of 2.81 hectares is earmarked as the Production Area where the cultivation of these 7 species has been carried out. The number of species in the Production Area can be subsequently expanded. The 7 species now under production are the following.

1. Tulsi
(Ocimum sanctum)
2,000 plants.
2. Ghee Kuanri
(Aloe vera)
5,000 plants.
3. Aswagandha
(Withenia somnifera)
(annual)
5,000 plants; roots
harvested in April, 2010.



4. Gudmari
(*Gymnema sylvestris*)
(Creeper) 200 plants.

5. Kalmegh
(*Andrographis paniculate*)(annual)
5,000 plants, already
stems harvested.

6. Guluchi
(Climber)
1,000 plants.

7. Dalchini
(*Cinnamomum zeylanicum*)
500 plants, sprouting has taken place.

- A 'Bamboosetum' is being established over 2.52 hectares of area situated on the rims of a prominent ditch which is a major landscape feature at the Centre. So far, 33 species of bamboos have been assembled here. The landscaping of the area is under progress and more species of bamboos are being procured for planting.
- There is a nursery with two Green Houses occupying 1.248 hectares of land for raising planting material of 300 species. The planting material of various medicinal species is available for sale at this nursery.
- A 'Sale Centre' of plant parts and plant products has been set up. A Display Unit to exhibit implements used in preparing Ayurvedic formulations, plant parts and plant products which find application in Ayurveda and photographs of eminent Vaidyas is being put up.
- A Processing Unit is being set up to take up storage, processing & packaging of products for disposal.

A Scientific Unit which will be the nerve centre of this establishment is coming up. This will house a sophisticated data centre comprising two strands of information, namely (i) the botanical aspects and (ii) the Ayurvedic application of each plant species. This database will be continuously updated. The data centre will be manned by suitable scientific personnel.



Trees

Local Name	Scientific Name	Parts used
Achu	<i>Morinda tinctoria</i>	Bark
All Spice	<i>Pimenta dioca</i>	Berries, Leaves, Wood
Ambada	<i>Spondias pinnata</i>	Root, Bark, Leaves, Fruits
Amla	<i>Phyllanthus emblica</i>	Fruits
Arjun	<i>Terminalla bellirica</i>	Bark
Ashok	<i>Saraca asoca</i>	Bark
Bahada	<i>Terminalla Bellirica</i>	Fruits
Barakoli	<i>Ziziphus jujuba</i>	Fruits
Baruna	<i>Crataeva religiosa/nervula</i>	Bark
Baula	<i>Mimusops elengli</i>	Fruits, Seeds & Flowers
Bela	<i>Aegle mametos</i>	Leaf, Fruit
Bhalia	<i>Semecarpus anacardium</i>	Seeds
Bheru	<i>Chloroxylon swietiana</i>	Leaves
Bhrusunga	<i>Murraya koenigil</i>	Leaves
Bisakendu	<i>Diospyrous montana</i>	Fruits
Chaimugura	<i>Hydnocarpus kurzil</i>	Seeds, Oil
Champa	<i>Michelia champace</i>	Whole plant
Chandan	<i>Santalum album</i>	Heart wood
Char	<i>Buchanea lanzan</i>	Fruits
Chauldua	<i>Erythrina suberosa</i>	Wood, Bark
Chhatian	<i>Alstonia scholaris</i>	Bark
Dalchini	<i>Cinnamomum zeylanicum</i>	Bark & Leaf
Damguruda	<i>Gardenia gummifera</i>	Resin
Dauranja	<i>Holoptelia integrifolia</i>	Bark & Leaf
Dimiri	<i>Ficus racemosa</i>	Bark, Fruit, Latex, Root
Dolichandran	<i>Dolichandrone falcate</i>	Bark, Heart wood, Flowers
Ekshira	<i>Schrebra swieteniodes</i>	Whole plant
Gambhari	<i>Gmelina arborea</i>	Bark, Roots, Leaves & Fruits
Gandhani	<i>Premna integrifolia</i>	Root, Root bark, Leaves
Gangasiuli	<i>Nyctanthes arobr-tristis</i>	Leaves & Bark
Garuda	<i>Radermachera xylocarpa</i>	Wood
Genduli	<i>Sterculia urens</i>	Seed, gum
Giringa	<i>Pterospermum heyneanum</i>	Leaves
Guari	<i>Excoecara agallocha</i>	Bark & Latex
Guhal	<i>Cordia obliqua</i>	Leaves, seeds, fruit
Harida	<i>Terminalia chebula</i>	Fruits
Hinjal	<i>Barringtonia acutangula</i>	Leaves, Fruits, Root
Jaiphal	<i>Myristica fragrance</i>	Fruits
Jamu	<i>Syzygium cumini</i>	Bark, Fruits & Seeds
Kadamba	<i>Anthocephalus kadamba</i>	Bark, Fruits & Leaves
Kaitha	<i>Feronia elephantum</i>	Fruits
Kala siris	<i>Albizia lebbeck</i>	Bark, Flower & Seeds
Kanchan	<i>Bauhinia variegata</i>	Fruits, Bark & Leaves
Kangada	<i>Xylia xylocarpa</i>	Bark
Karamanga	<i>Averrhoa carambola</i>	Leaves & Fruits
Karanja	<i>Pongamia pinnata</i>	Whole plant
Karpura	<i>Cinnamomum camphora</i>	Roots & Wood
Kasi	<i>Bridelia retusa</i>	Bark
Katakak	<i>Strychnos potatorum</i>	Seeds
Katha champa	<i>Plumeria rubra</i>	Leaves & Latex
Kendu	<i>Diospyros melanoxylon</i>	Bark & Fruits
Khaira	<i>Acacia catechu</i>	Bark & Wood
Khirikoli	<i>Manilkara hexandra</i>	Whole plant
Kochila	<i>Strychnos noxvomica</i>	Fruits & Bark
Kumbhi	<i>Careya arborea</i>	Bark, Leaves, Dried calyx
Kurei	<i>Holarrhena antidysenterica</i>	Whole plant
Kusum	<i>Schiechera olosa</i>	Fruits
Labanga	<i>Syzygium aromaticum</i>	Flower
Lodha	<i>Symplocos racemosa</i>	Bark
Mahalimba	<i>Mella azedarch</i>	Whole plant
Mahula	<i>Madhuca indica</i>	Bark, Heart wood & Flowers
Mandakaincha	<i>Adenantha pavonina</i>	Seeds & Wood
Medha	<i>Litsea glutinosa</i>	Root, Inner bark & Leaves
Muchukunda	<i>Plerospemum acerifolium</i>	Flower
Mundi	<i>Mitragyna parviflora</i>	Root, Bark & Leaves
Nagachampa	<i>Couropitys gulanensis</i>	Leaves & Fruits
Nageswar	<i>Mesua ferrea</i>	Flower
Neem	<i>Azadirachta indica</i>	Leaves, Bark & Fruits
Olatkamal	<i>Abroma augusta</i>	Roots, Stem, Leaves & Rootbark
Ou	<i>Dillenia indica</i>	Fruit
Pandhel	<i>Pterospermum solvensis</i>	Bark

Local Name	Scientific Name	Parts used
Pahadisiso	<i>Delbergia latifolia</i>	Seeds, Roots & Leaves
Paladhua	<i>Erythrina indica</i>	Leaf
Palasha	<i>Butea monosperma</i>	Flower & Root
Panasa	<i>Artrocarpus heterophyllous</i>	Root, Leaves, Fruits, Seeds & Latex
Panitala	<i>Nype fruiteans</i>	Leaves & Roots
Parijata	<i>Magnolia grandiflora</i>	Whole plant
Parijata	<i>Magnolia mutabilis</i>	Whole plant
Parkinsonia	<i>Parkinsonia aculeate</i>	Seeds
Phanaphana	<i>Oroxylum indicum</i>	Bark
Piasala	<i>Pterocarpus marsuplum</i>	Stem & Bark
Polanga	<i>Calophyllum inophyllum</i>	Whole plant
Rai	<i>Dillenia pentagyma</i>	Fruit
Raktachandan	<i>Pterocarpus santalinus</i>	Stem
Ritha	<i>Sapindus emarginata</i>	Fruits
Rohini	<i>Soyamida febrifuga</i>	Bark & Fruits
Rudrakshya	<i>Guazuma ulmifolia</i>	Bark & Fruit
Sahada	<i>Streblus asper</i>	Bark & Leaves
Sal	<i>Shorea robusta</i>	Leaves, Bark, Fruits, Resin
Salai	<i>Boswellia serata</i>	Bark & Stem
Samarsingha	<i>Cordia macleodi</i>	Bark
Sami	<i>Acacia soma</i>	Root & Bark
Silk cotton	<i>Celba pentandra</i>	Seeds, Leaves, Bark
Simli	<i>Bombax ceiba</i>	Whole plant
Sishumar	<i>Xylocarpus granatum</i>	Bark
Sisoo	<i>Dalbergia sisoo</i>	Leaves
Sunari	<i>Cassia fistula</i>	Flowers, Roots
Swetakutaja	<i>Wrightia tinctoria</i>	Bark, Leaves & Seeds
Tejapatra	<i>Cinamomum tamala</i>	Leaf
Tentuli	<i>Tamarindus indica</i>	Fruits

Shrubs

Local Name	Scientific Name	Parts used
Agarkanta	<i>Argemone mexicana</i>	Whole plant, Root, Latex & Seed oil
Agnimantha	<i>Clerodendrum phlomidis</i>	Root, Root bark & Leaves
Amarpol	<i>Kalanchoe pinnata</i>	Leaves & Seed
Ambiliti	<i>Oxalis corniculata</i>	Leaves & Seed
Aswagandha	<i>Witharia somnifera</i>	Leaves, Root & Seeds
Bada elaechi	<i>Amomum subulatum</i>	Seeds
Bajramuli	<i>Sida cordifolia</i>	Whole plant
Bajramuli	<i>Sida spinosa</i>	Root
Basanga	<i>Adhatoda vasica</i>	Leaves & Roots
Bathuasaga	<i>Chenopodium album</i>	Whole plant
Begunia	<i>Vitex negundo</i>	Root, Bark, Leaves & Flowers
Bhainchikoli	<i>Flacourtia ramontchil</i>	Roots & Leaves
Bhargi	<i>Cleridendron indicum</i>	Leaves & Roots
Bhuinkakharu	<i>Pueraria tuberosa</i>	Root tubers
Bilelanja	<i>Glemengia chapper</i>	Roots & Leaves
Brahmanajatia	<i>Cleodendrum serratum</i>	Leaves & Root
Budapipali		Fruit
Chakra kedar	<i>Costus spiralis</i>	Rhizome
Chameli	<i>Jasminum grandiflorum</i>	Leaves & Flowers
Dhala arakha	<i>Calotropis procera</i>	Root, Leaves & Flower
Dhala baigoba	<i>Jatropha curcas</i>	Juice & Seeds
Dhala dudura	<i>Datura stramonium</i>	Fruits & Juice
Dhala tulasi	<i>Ocimum sanctum</i>	Leaves & Seeds
Durlava	<i>Ocimum basillicum</i>	Leaves & Seeds
Gajapipali	<i>Schindapsus officinalis</i>	Dried mature inflorescence
Gandhatulasi	<i>Hyptis suaveolens</i>	Roots
Gogul	<i>Commiphora caudata</i>	Resinous gum
Isabgul	<i>Plantago ovats</i>	Husk
Iswarjata	<i>Uraria picta</i>	Whole plant
Jada	<i>Ricinus communis</i>	Seed
Jhumuka	<i>Crotalaria juncea</i>	Seed
Juani	<i>Trachyspermum ammi.</i>	Seed
Kala apamaranga	<i>Achyranthes sps.</i>	Root
Kala arakha	<i>Calotropis ginantea</i>	Whole plant
Kala dudura	<i>Datura metel</i>	Whole plant & Fruit
Kala haladi	<i>Curcuma caesia</i>	Rhizome
Kala tulashi	<i>Ocimum sanctum</i>	Leaves, Root & Seeds
Karpura tulasi	<i>Ocimum kilmanscharium</i>	Seeds & Leaves
Kasturibhendi	<i>Abelmoschus moschatus</i>	Seeds
Ketaki	<i>Pandanus fascicularis</i>	Root & Whole plant
Khadisiju	<i>Euphorbia tirucalli</i>	Juice

Local Name	Scientific Name	Parts used
Bidanga	<i>Embelia ribes</i>	Fruit
Kumkum	<i>Bixa orellana</i>	Fruit
Kunda	<i>Jasminum multiflorum</i>	Leaves & Flowers
Landabaguli	<i>Ocimum canum</i>	Leaves & Seeds
Manjuati	<i>Lawsonia inermis</i>	Roots, Leaves, Flowers & Seeds
Mayurchulia	<i>Celosia cristata</i>	Celosia cristate
Multivitamin green	<i>Sauropus androgynus</i>	Leaves
Naga aieri	<i>Lipia alba</i>	Leaves
Naguari	<i>Lantana indica</i>	Leaves
Nalibaigoba	<i>Jatropha gossypifolium</i>	Seeds
Nalibaigoba	<i>Jatropha gossypifolia</i>	Juice & Leaves
Olua	<i>Amophophallus paeonibulus</i>	Corn
Patalgaruda	<i>Rauwolfia tetraphylia</i>	Root
Pedipedika	<i>Abutilon indicum</i>	Stem
Pengu	<i>Celastrus paniculatus</i>	Root, Bark, Leaves & Seed
Raktachitaparu	<i>Plumbago indica</i>	Root
Rosamari	<i>Rosarmarinus officinalis</i>	Whole plant
Rukunahathpocha	<i>Coleus barbatus</i>	Leaves & Seeds
Sadabihari (lal)	<i>Cataranthus roseus</i>	Flowers
Sadabihari (Dhala)	<i>Cataranthus pusillus</i>	Flowers
Salaparni	<i>Desmodium gangeticum</i>	Leaves
Sana akarakar	<i>Splanthes acmella</i>	Roots & Flowers
Sana elaechi	<i>Elettaria cardamomum</i>	Seeds
Sarpagandha	<i>Rauwolfia serpentina</i>	Roots
Satabari	<i>Asparagus racemosus</i>	Root
Senna	<i>Cassia angustifolia</i>	Whole plant & Root
Stivia	<i>Styvia rabadiana</i>	Leaves
Swetachitaparu	<i>Plumbago zeylanica</i>	Root & Juice

Herbs

Local Name	Scientific Name	Parts used
Agorbacha	<i>Alpina calcarate</i>	Rhizome & Seed
Akarakara	<i>Spalantes calva</i>	Flower
Amba ada	<i>Curcuma amda</i>	Root
Anatamula	<i>Hemidesmus indicus</i>	Root
Ankaranti	<i>Solanum xanthocarpum</i>	Flower & Fruit
Antamula	<i>Tylophora indica</i>	Leaves
Apamaranga	<i>Achyranthes aspera</i>	Root
Arsa	<i>Crimum asiaticum</i>	Flower
Ayapan	<i>Eupatorium ayapan</i>	Leaves & Seed
Bacha	<i>Acorus calamus</i>	Root
Badi amla	<i>Phyllanthus fraternus</i>	Fruit
Bana bhendi	<i>Abelmoschus moschatus</i>	Fruit
Bana dhania	<i>Eryngium foetidum</i>	Root
Bana haladi	<i>Curcuma angustifolium</i>	Root
Bana kunduri	<i>Soiena amplexicaulis</i>	Fruit
Bana piaja	<i>Urginea dubius</i>	Root
Bena	<i>Vitiveria zizanoides</i>	Root
Bhejibaigan	<i>Solanum surattense</i>	Fruit
Bhrungaraj	<i>Wdelia chinensis</i>	Flower & Leaves
Bhuin amla	<i>Phyllanthus fratemus</i>	Whole plant
Biribiri	<i>Spilantes paniculas</i>	Flower
Bisalyakarani	<i>Tridax procumbens</i>	Leaves
Bisiripi	<i>Sida cordifolia</i>	Whole plant, Root & Seeds
Brahmi	<i>Bacopa monnieri</i>	Leaves & Seed
Chireta	<i>Andrographis paniculata</i>	Leaves & Root
Chitakuti	<i>Euphorbia hirta</i>	Aerial parts
Dahidahika	<i>Cocculus villosus</i>	Leaves & Seed
Daskerenda	<i>Barleria prionitis</i>	Flower
Dayana	<i>Artemisia vulgaris</i>	Leaves
Dengabheji	<i>Solanum indicum</i>	Flower, etc.,
Dhalagayasa	<i>Leucas aspera</i>	Leaves
Duba	<i>Cynodon dactylon</i>	White plant
Gandhasunthi	<i>Zingiber officinale</i>	Root
Gharpedia	<i>Oldenlandia corymosa</i>	Whole plant
Ghinkuanri	<i>Aloe vera</i>	Leaves & Root
Ghodabacha	<i>Alpinia galanga</i>	Rhizome
Hadajoda	<i>Cissus quadrangularis</i>	Leaves & Seed
Haladi	<i>Curcuma domestica</i>	Rhizome
Hemasagar	<i>Kalanchoe lanceolate</i>	Seed
Indrajaba	<i>Holarrhena pubescens</i>	Seed
Indramarisa	<i>Acalypha indica</i>	Seed

Local Name	Scientific Name	Parts used
Kakamachhi	<i>Solanum nigrum</i>	Seed
Kalagayash	<i>Leucas cephalotes</i>	Seed
Kesadura	<i>Amomum dealbatum</i>	Leaves
Keukeuka	<i>Lostus speciosus</i>	Rhizome
Koelikhia	<i>Hygrophila auriculata</i>	Whole plant, Root & Seeds
Kusa	<i>Desmostachya</i> sps.	Leaves
Lajakuli	<i>Mimosa pudica</i>	Leaves
Lemon grass	<i>Cymbopogon flexuosus</i>	Leaves & Seed
Madana mastaka	<i>Hybanthus enneaspermus</i>	Leaves & Seed
Madaranga	<i>Alternanthera sessilis</i>	Leaves & Seed
Manasaru	<i>Alocasia indica</i>	Root
Muskami	<i>Merremia emarginata</i>	Whole plant
Mutha	<i>Cyperus rotundus</i>	Root
Nagarmutha	<i>Cyperus scariosus</i>	Grass & Root
Nali ankaranti	<i>Solanum indicum</i>	Fruits, Root & Leaves
Nila kantha kedar	<i>Circuma caesia</i>	Root
Palua	<i>Curcuma aromatica</i>	Root
Parsu kedar	<i>Zingiber zerumbet</i>	Root
Pathurchur	<i>Berginia ciliata</i>	Root
Pipermint	<i>Mentha orvensis</i>	Leaves & Seeds
Pitasaga	<i>Glinus oppositifolius</i>	Leaves
Podina	<i>Mentha spicata</i>	Leaves & Seed
Rajanigandha	<i>Polianthes tuberosa</i>	Bulb
Raktakai	<i>Ventilago madrasapatana</i>	Leaves & Bark
Raktapurni	<i>Boerhavia diffusa</i>	Leaves & Seed
Rosa grass	<i>Cymbopogon martinii</i>	Leaves
Rukuna hatapochha	<i>Cotela barbatus</i>	Leaves & Seed
Sankhapuspi	<i>Evolvulus alsinoides</i>	Whole plant
Sweta puruni	<i>Trianthema portulacastrum</i>	Leaves & Seeds
Talamuli	<i>Curculigo orchoides</i>	Root
Thalkudi	<i>Centella asiatica</i>	Leaves & Seeds

Climbers

Local Name	Scientific Name	Parts used
Akanabindhi	<i>Stephania hernandifolia</i>	Leaves
Antamuli	<i>Tylophora indica</i>	Leaves
Aparajita (Dhala)	<i>Clitoria tematea</i>	Leaves & Flower
Aparajita (Kala)	<i>Clitoria pusillus</i>	Flower
Aristolochia	<i>Aristolochia indica</i>	Leaves, Roots & Seeds
Baidanka	<i>Mucuna pruriens</i>	Fruits
Banakunduri	<i>Solelana amplexicaulis</i>	Fruit & Leaves
Bano mali	<i>Jasminum arborescens</i>	Leaves
Bilepadi	<i>Ipomea pestigridis</i>	Seeds & Fruits
Brudhadaraka	<i>Argyreia nervosa</i>	Leaves & Root
Dahidahika	<i>Ipomea reniformis</i>	Leaves & Seeds
Dhalakaincha	<i>Abrus precatorius</i>	Leaves, Juice & Seed
Gajapipali	<i>Scindapsus officinalis</i>	Fruits
Golmaricha	<i>Piper nigrum</i>	Seed
Gudumari	<i>Gymnema sylvestre</i>	Leaves & Root
Guluchi	<i>Tinospora cordifolia</i>	Root & Stem
Hadajoda	<i>Cissus quadrangularis</i>	Stem, Leave & Seed
Hatiakarikada	<i>Momrdioica cochinchinsis</i>	Root & Seed
Kankada	<i>Mamordica dioica</i>	Seed & Root
Kanta alu	<i>Dioscorea glabra</i>	Root
Karaba	<i>Dioscorea pentaphyllia</i>	Leaves
Koilikanda	<i>Stemona tuberosa</i>	Root & Tuber
Krushnatamala	<i>Passiflora foetida</i>	Leaves
Madhabilata	<i>Hiptage benghalaensis</i>	Leaves, Seed & Flower
Pasaruni	<i>Paederia foetida</i>	Juice & Leaves
Pipali	<i>Piper longum</i>	Fruit & Root
Radhatamala	<i>Passiflora incarnate</i>	Flower
Satabari	<i>Aparagus racemosus</i>	Root
Tihudi lai	<i>Operculina terpenanthum</i>	Stem
Uturudi	<i>Pergularia exense</i>	Plant & Juice

