

CULTIVATION GUIDE OF OTHER COMMERCIALY IMPORTANT CROPS

<i>Scientific name</i>	Growth habit	Part used	Spacing	Seed rate (per acre)	Crop duration	Yield (per acre)
<i>Acacia catechu</i> Karingali	Moderate sized deciduous tree	Bark, heart wood	3.5x3.5 m	320 Seedlings	10-12 yrs	60-80 kg wood/tree
<i>Acorus calamus</i> Vayambu	Semi-aquatic rhizomatous perennial herb	Rhizome	30x30 cm	150 kg/acre fresh rhizome bits	1 year	1.5 – 2.00 dry rhizome/acre
<i>Aegle marmelos</i> Koovalam	Perennial tree	Root	3.5x3.5 m	320 Seedlings	10 -15 years	30 kg roots /tree
<i>Aloe vera</i> Kattarvazha	Annual herb	Leaves	45x45 cm	20000 suckers	1 year	3-4 t fresh herb/acre
<i>Alpinia galanga</i> Aratha	Perennial zingiberaceous herb	Rhizome	45x45 cm	400 kg/acre rhizome	36- 42 months	2-2.5 t/acre dry rhizome
<i>Andrographis paniculata</i> Kiriyaathu	Seasonal herb	Whole plant	30x15 cm	200 g	1 year	1-1.5 t/acre dry herb
<i>Asparagus racemosus</i> Satavari	Perennial climber	Tuber	60x60 cm	10,000 seedlings	Annual	10-15 t/ha fresh tuber
<i>Azadirachta indica</i> Aryavep	Perennial	Leaves & bark	5mx5m	160 seedlings	7 Years	50 -80 kg dry bark/acre/ yr
<i>Bacopa monnieri</i> Brahmi	Annual herb	Whole plant	20x20 cm	30 kg vine /acre	Annual. 1 harvest - 3 months after planting Subsequent harvest – 60 -80 days interval	10-12 t/acre herb
<i>Baliospermum solanifolium</i> Nagadanti	Perennial shrub	Roots, leaves, seeds	1.5x1.5 m	3-4 noded stem cuttings	Two years	3 t/acre dry root
<i>Boerhaavia diffusa</i> Thazhuthama	Perennial creeping herb	Root	45x45 cm	Stem cuttings	Two years	800 kg/acre dry root
<i>Caesalpinia sappan</i> Chappangam	Perennial tree	Heart wood	3mx3m	500 seedlings	8-10 years	50 kg wood/tree

<i>Cinnamomum verum</i> Karuva	Perennial tree	Seed & oil	3mx3m	500 seedlings	7 th year onwards	75-100 kg/acre bark /harvest (once in 3 years)
<i>Clitoria ternatea</i> Sankhupushpam	Perennial climber	Root	60x100 cm	6000 seedlings	1 year	1.0 – 1.5 t roots/acre
<i>Desmodium gangeticum</i> Orila	Under shrub	Roots	45x45 cm	200 g	8-9 months	200-300 kg roots/acre
<i>Emblica officinalis</i> Nelli	Medium sized tree	Fruits	5x5 m	160 seedlings / grafts	10 years for seedlings; 3-4 years for grafts	30-50 kg fruits/tree /year
<i>Garcinia gummi-gutta</i> Kudampuli	Medium sized evergreen tree	Fruits	4x4 m	250 grafts	4-5 years	20-25 kg dry fruit rind/ tree/year
<i>Gmelina arborea</i> Kumizhu	Medium sized deciduous tree	Root bark	3x3 m	400 seedlings	10 years	25-30 kg roots /tree
<i>Gymnema sylvestre</i> Chakkarakolli	Perennial climber	Leaf	60x100 cm	6000 seedlings	10-12 years	2-3 kg fresh leaves/plant/ harvest
<i>Hemidesmus indicus</i> Naruneendi	Perennial creeper	tuberous root	10 cm x 10 cm	Root bits	8 months	200-300 kg dried roots/acre
<i>Holarrhena pubescens</i> Kudakappala	Small deciduous tree	Bark, leaves, seeds	3x3 m	500 seedlings	Stem bark collected from 12 th year	30-40 kg dry bark/acre/ yr
<i>Holostemma adakodien</i> Adapathiyam	Perennial climber	Root tuber	30x30	500 g seeds per acre	biennial	200-300 kg dried roots/acre
<i>Maranta arundinacea</i> Kochikoova	Rhizomatous herb	Rhizome	30 x 30 cm	200 kg rhizome	8-9 months	2-3 t/acre (fresh rhizome)
<i>Mucuna pruriens</i> Naikurana	Seasonal twining herb	Root, leaves, seed	60x60 cm	20-30 kg	3.5-4 months	600-700 kg seeds/acre
<i>Ocimum spp.</i> Thulasi	Annual herb	Leaves	40 x 30 cm	200 g seeds per acre	7-8 months	4-5 tons shoots per acre (collected periodically at flowering stage)
<i>Oroxylum indicum</i> Palakappayyani	Medium sized deciduous tree	Roots	2.5m x 2.5 m	700 seedlings	10 years	20-25 kg roots /tree
<i>Oryza sativa cv Njavara</i> Navara nellu	Seasonal grass	Fruits, roots	15x10 cm	80-100 kg/ha	72 to 128 days	800 kg seeds/acre
<i>Pogostemon patchouli</i>	Annual herb	Leaf	60-90 cm x 60-	8000 cuttings per	3-4 years	2.5-3 tons/acre fresh leaves/year

Pacholi			90 cm	acre		yielding 15-18 kg oil
Premna integrifolia	Small tree	Leaves, Root	2mx2m	1000 cuttings per acre	3 years	500 kg dry roots /acre
Munja						
Pseudarthria viscida	Perennial undershrub	Root	40cmx20 cm	500 g seeds per acre	9-10 months	200-280 kg dry roots /acre
Moovila						
Pterocarpus marsupium	Medium sized tree	Heart wood, gum	4mx4m	250 seedlings	Gum collected by tapping bark. Heart wood collected after 10-15 years	500 kg heartwood/tree
Venga						
Pterocarpus santalinus	Medium sized deciduous tree	Heart wood	3.5x3.5 m	320 Seedlings	10-15 years	120-200 kg heartwood/tree
Rektha chandanam						
Rauvolfia serpentina	Perennial shrub	Root	50x30 cm	27000 plants/acre	18 months	2-3 tons dried roots /acre
Sarpagandhi						
Sida rhombifolia ssp. retusa	Annual undershrub	Whole plant	75x50 cm	600-800 g seeds/acre	8 months	400-500 kg dried roots / acre
Kurumthotti						
Solanum melongena var. incanum	Annual herb	Root, berry	60x60 cm	300-350 g seeds / ha	12-18 months	800 -900 kg dried roots / acre
Cheruvazhuthina						
Solanum surattense	Annual herb	Root, berry, leaves	90x75 cm	400-500 g seeds / ha	12-18 months	400-500 kg dried roots / acre
Kantakarichunda						
Solanum violaceum	Annual herb	Root, berry, leaves	60x60 cm	300-350 g seeds / ha	12-18 months	500-600 kg dried roots / acre
Putharichunda						
Stereospermum colais	Large deciduous tree	root	3mx3m	500 seedlings	10-15 years	30-35 kg roots /tree
Pathiri						
Symplocos cochinchinensis	Small evergreen tree	Bark	3mx3m	500 seedlings	15-2 years	50-60 kg dry bark/acre
Pachhotti						
Terminalia arjuna	Large evergreen tree	Bark	4mx4m	250 seedlings	From 10 th year onwards bark peeled off from main stem or branches	30-40 kg dry bark/acre/year
Neermarutu						
Terminalia bellirica	Large deciduous tree	Fruits	4mx4m	250 seedlings	15-20 years	6-8 ton seeds/acre/year
Thanni						

<i>Terminalia chebula</i> Kadukka	Medium sized deciduous tree	Fruits	3mx3m	500 seedlings	12 years	5-7 ton seeds/acre/year
<i>Tinospora cordifolia</i> Chittamritu	Climbing shrub	Stem, leaves	1x1 m	4000 cuttings	1 Year	2-3 kg fresh stem/plant
<i>Trichosanthes cucumerina</i> Kattupatavalam	Seasonal twiner	Whole plant	1x1 m	1 kg seed	3-4 months	100-200 kg dry vine/acre
<i>Vitex negundo</i> Karinochi	Small tree	leaves	2.5m x 2.5 m	700 rooted cuttings	Periodical collection of leaves from 2 nd year onwards	1-2 kg leaves/tree/harvest
<i>Woodfordia fruticosa</i> Thathiri	Branched shrub	Flowers	3mx3m	500 seedlings	From 2 nd year onwards	400-500 g dried floues/tree/year
<i>Wrightia tinctoria</i> Danthappala	Small deciduous tree	Leaves, bark, seed	4mx4m	250 seedlings	From 4 th year onwards	3-4 kg leaves/tree/harvest