

# *Cynanchum annularium* (Roxb.) Liede & Khanum

**Synonyms** : *Holostemma ada-kodien* Schult., *Holostemma rheedi* Wall. ,  
*Holostemma rheedianum* auct non Spreng

**Family** : Apocynaceae

**Group** : Galactagogue, Rejuvenatives, Eye diseases, Aphrodisiac/spermatogenesis

**Parts Used** : Root , Flower

## **Vernacular Names**

English : Holostemma

Malayalam : Adapathiyan

Hindi : Chhirvel

Sanskrit : Jivanthi

Gujarathi : Khiravel

Tamil : Palay kirai

Telugu : Palagurugu.



**Distribution and Habitat:** It is seen in Tropical Himalaya, Sikkim, West Peninsula of India, Sri Lanka; Myanmar.

**Botany:** Handsome glabrous twining shrub, roots thick, irregularly twisted; Stem glabrous, laticiferous.

• **Leaves:** Simple, opposite, cordate, petioles long, lamina cordiform to oblong, chartaceous, puberulous, penni-nerved'

• **Inflorescence:** Cymes axillary, umbellate, few flowered; Flowers purple in axillary umbellate cymes.

• **Fruit:** Follicle short, thick, smooth, acute.

**Properties:** Cooling, digestive, alternate, aphrodisiac, emollient, expectorant, galactagogue, ophthalmic, refrigerant, sweet and tonic.

**Chemical constituents:** Bark:  $\alpha$ -amyrin,  $\beta$ -sitosterol, lupeol, alanine, aspartic acid, glycine, serine, threonine, and valine.

**Uses:** Eye troubles, blood vomiting, decaying, burning sensation, removes deranged bile, fever, constipation and cough.

**Formulations:** Vidaryadiganam, Dhanwandharam taila, Balarishta.

## **Agro technology:**

**Soil and Climate:** Prefers a tropical climate with high rainfall and relative humidity. Soil should be light and porous permitting root development.

**Propagations:** Vegetatively by stem cuttings, mainly by seeds.

**Irrigation:** Regular irrigation is to be given till flowering.

**Manures and Fertilizers:** Application of 20 t /ha of farm yard manure , 100 kg/ ha bone meal, 500 kg /ha of neem cake, 2 kg/ha each of Trichoderma and AM fungi sustain good growth of plants. Wherever growth of plant is slow this can be supplemented with NPK, each @ 50 kg /ha split application spreading to second year is necessary.

**Plant protection:** Fungal diseases like leaf spot and leaf blight are commonly seen. It can be controlled by spraying 1% Bordeaux mixture. Leaf eating caterpillars are common which can be controlled by manual picking.

**Harvesting:** Harvesting can be done at the end of the second year when the vines start drying up. Roots are collected by deep digging and cleaned thoroughly in water. .

**Processing:** The tubers are cut in to pieces of 10 cm length and dried in sun before sale.

