

# *Paederia scandens* (Lour.) Merr.

Syn. *Paederia foetida* Linn.

Fam. Rubiaceae

<b>Ayurvedic name</b>	Gandha Prasarani
<b>Unani name</b>	Gandhali, Parsarini
<b>Hindi name</b>	Gandheli
<b>Trade name</b>	Gandha Prasarini
<b>Parts used</b>	Whole Plant



*Paederia scandens*

## Morphological Characteristics

*Paederia scandens* is a slender, glabrous, twining shrub, foetid when bruised. Its leaves are opposite 5-15X1.8- 5.0 cm in dimension with long petiole, ovate or lanceolate, base acute or rounded. Petiole is 1.0- 2.5 cm long. Flowers are in panicles, 5-12 cm long, puberulous, cymose at the extremity and bracts are minute and ovate.

## Floral Characteristics

Flowers are sessile and pedicelled; calyx is small, tube campanulate; corolla is tomentose. Fruit is crowned by the conical disk and minute calyx-teeth.

## Distribution

It is mainly found in lower tracts of Eastern Himalayan States viz. Assam, Bengal and Bihar, North East States upto 800 meter.

## Climate and Soil

The crop can be grown under the hot and humid climatic conditions, where average relative humidity is high (85%) and maximum & minimum temperature varies between 16<sup>o</sup>C and 30<sup>o</sup>C

respectively and rainfall is 150-200 cm. It is cultivated in plains to a higher altitude upto 600 m above msl. Soil should be sandy-loam and acidic in nature.

### Propagation Material

Vegetative propagation by cuttings.

### Agro-technique<sup>21</sup>

#### Nursery Technique

- **Raising Propagules:** Cuttings may be planted in raised beds at 10 cm apart row and 5 cm within a row. Double node stem with leaves is recommended for planting in the month of August and September. Seed germination is low around 25-30%.
- **Propagule Rate and Pretreatment:** 22,400 cuttings/ha are required. Growth hormone like IBA may be used for early sprouting.

#### Planting in the Field

- **Land Preparation and Fertilizer Application:** Land should be prepared to fine tilth before planting. FYM @ 15- 20 t/ha can be applied for good initial growth. NPK @ 100:50:50 kg/ha may be applied by broadcasting. A dose of nitrogen based fertilizer at 40 kg may be applied after each harvest.
- **Transplanting and Optimum Spacing:** Best time of transplanting sprouted cuttings is during September in Assam. Staking is to be provided when it attains a height of 90 cm or over. Optimum spacing is recommended at 60X60 cm.
- **Intercropping System:** Winter vegetables may be grown as intercrop.
- **Interculture and Maintenance Practices:** Hoeing along with weeding, is necessary at 45 days after planting; thereafter, once in a year.
- **Irrigation Practices:** It is a rainfed crop in Assam.
- **Weed Control:** Weeding is done at 60 and 90 days after transplantation. However, where-ever pre-emergence weedicide like simazine @ 2.0 kg/ha, or oxyflurefen @ 2.0 kg/ha is applied, the weeding could be delayed to 120 days and thereafter after each harvest.
- **Disease and Pest Control:** No pest and diseases have been observed in the trial plantation.

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<sup>21</sup> Agro-technique study carried out by North East Institute of Science Technology (NEIST), Jorhat – 785006, Assam.

