

Rosa indica Linn.

Systematic Position

Kingdom: Plantae

Division: Tracheophyta

Class: Magnoliopsida

Order: Rosales

Family: Rosaceae

Genus: *Rosa*

Species: *indica* L.

Popular names: Gulab, Kanta gulab, Shingari.

Nature: Shrub

Flowering time: January to April

Plant distribution: It is mainly distributed in temperate and colder regions.

Gardening notes:

1. **Light:** It can grow well in shade.
2. **Moisture:** It requires proper water supply for good growth.
3. **Propagation:** By soft cuttings or layering method.

Economic importance:

1. Rose flowers are a source of an essential oil, known as oil of roses.
2. Some rose products are rose water, attar, gulkand and pankhuri.
3. Gulkand is a good tonic and laxative.



4. The dried rose petals known as pankhuri are used for preparing cold drinks.

Plant description: It is an erect perennial prickly shrub.

Root- Tap root, branched; **Stem-** Aerial, erect, woody, solid, cylindrical, green, spiny, branched; bark brown, spiny.

Leaf- Compound, unipinnate, imparipinnate, stipulate, stipules fused with petiole, leaflets 5, oval, ovate, acute apex, serrate, glabrous, adaxial surface dark green, abaxial surface light green, prominent midrib, uncostate reticulate venation, petiolate, petiole hairy, spiny.

Inflorescence- Solitary terminal.

Flower- Pink, yellow, white or red, complete, cyclic, actinomorphic, hermaphrodite, hypogynous, pedicellate, pedicel green, spiny, 3-5 cm long; **Sepals-** 5, gamosepalous, connate at base, lanceolate, inferior, hairy posterior surface, spiny margins, quincuncial aestivation, calyx tube persistent, globose ovoid with needle like appendages; **Petals-** many, polypetalous, pink, 8 whorls of petals, attractive, scented, inferior, imbricate aestivation in bud, cup shaped, slightly white at base; **Stamens-** many, inferior, free, inserted on disk, polyandrous, petals are modified into stamens, introrse, filaments small, creamish with reddish base, anthers yellow, basifixed, bilobed, longitudinal dehiscence; **Carpels-** many, polycarpellary, free, hairy, prominent ovarian cup with many ovules, superior, ovule one, basal placentation, style green, weak, stigma yellow thickened, hairy, base greenish red.

Fruit- An etario of achenes.

Some close-up pictures of plants parts



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