

GERANIUM CULTIVATION



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Introduction:

Geranium is a genus of 422 species of flowering annual, biennial and perennial herbs in the family geraniaceae that are commonly known as the cranesbills. Leaves are palmately cleft and broadly circular in form, flowers have five petals and come in different colours; it is often used as an ornamental plant and all overall health boosters.



➤ Chemical composition:

Composition	Uses
Citronellol	Used in perfumes, insect repellents, mosquito repellent and as a mite attractant.
Geraniol	Used as additive to foods, cosmetics for its flavour, insect repellent, anti-bacterial and anti-inflammatory.
Linalool	Used in cleaning agents such as soaps, detergents, shampoos and lotions.

Citronellylformate	Used in essential oils and its fragrance.
P- menthone	Used in flavouring, perfumes and cosmetics.

Economic part: Leaves and flower

Geraniumbourbonvipolli

It is commercially grown for its essential oil and ornamental purposes, has a copious grey green stem that darken and gets harden with age. Flowers are small and grouped together in dense clusters and are rose-violet colored with darker stripes. The plant has a wide range of medicinal uses.



Cultivation

➤ Soil&climate:

It can be cultivated under various climatic conditions but it thrives best in well drained soils rich in organic matter. The crop flourishes in mild climate with low humidity; it is found growing successfully from an altitude of 1000-2100 meter.

➤ Landpreparation:

Thoroughly plough the field to fine tilth stage to get better pulverization of the soil. Land should have gentle

slope and proper shelter to survive from heavy winds.




Propagation and planting: It can be easily propagated through stem/ plant cuttings in spring and autumn. In 1 acre field 15,000 stems are planted at the spacing of 18 x 24 inches.

➤ **Management:**

➤ **Irrigation:** It is usually grown as rainfed crops; good irrigations during dry periods can increase its yields.

➤ **Weed management:** weeding should be done at regular interval to keep away from competing with the plant.

➤ **Pest management:**

pest	Symptoms/Damage	Management
 Caterpillar	Holes in the leaves 	Handpicking
Grey mould 	Damaged leaves or dying flowers	Proper maintenance and cleaning

➤ **Harvesting:**

- Geranium is harvested after 6 months of planting, when there is sparse flowering, leaves start turning light green and exhibit a change from lemon like odour to that of rose. Sharp sickle is used to minimize less damage to the plant while harvesting.

➤ **Post Harvesting:**

- Harvested geranium leaves can be stored in polythene bags, jute bags etc. to retain essential oils present on the leaves, Leaves is generally left to wilt for 1-2 days after harvested before steam distillation, the oil is obtained by steam distillation of the leaves.



- **Yield:** The oils obtained from the leaves yield 50 Liter per year

Economics Of One Acre GeraniumGrass

Expenditure:

Distance (in acre)	Seed (in land)	Cost of Seed (per kg)	Total	Other Expenses (As Per Requirement)	Cost of cultivation
18x24 inches	15,000(stem)	4 Rs. /-	15000x4=60000 rs	Fertilizers Land preparationLabor expenses etc.	60,000/-
Total Cost of Cultivation: 60,000/-					

Income Of One Acre Geranium GrassCultivation:

Year	Total oil yield/acre	Company buys back price/Liter	total
1 st year	50 Litres	Rs 3,000	Rs 150,000/-
2 nd year	50 Litres	Rs 3,000	Rs 150,000/-
3 rd year	50 Litres	Rs 3,000	Rs 150,000/-
4 th year	50 Litres	Rs 3,000	Rs 150,000/-
5 th year	50 Litres	Rs 3,000	Rs 150,000/-
Total expense = Rs 7,50,000/-			

— Agro Industries Pvt. Ltd. —

➤ **Technical Support &Services:**

We also provide technical support for farming. Our Service Department with technically qualified staff provide after sales service and farmers advisory services to our customers to get better plant establishment and faster growth of Herbal and Horticultural plantations.

We have largest network of employees who deliver Plants to customers at their door steps. Free technical services to customers on planting method, management practices and plant protection measures. Our teams of Agricultural Experts periodically visit and

supervise the plantations and suggest necessary guidelines to get better growth and higher returns. Services:

- This includes Supervision, consultancy, guidance, On call
- First production start after 6 Month
- Buy back agreement of geranium oil .
- The income expenditure indicated by the company is an approximated figure, as it also depends on the nature and hard work of the farmer 🙌
- Black tulsi growing first harvesting practical training.
- Plantation cost is to be borne only once and then for next 6-month yield can be extracted.



For More Information Contact Us:



MAATITATVA

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"MAATITATVA AGRO INDUSTRIES PVT.LTD OF COMPANIES" was established in the year 2019 in Indore - Madhya Pradesh (India). The company is growing at a rapid pace under the farsighted guidance of highly skilled professionals. Besides, we also deal in "Contract Farming". Our experience in cultivation, marketing of plants and seeds enable us to assist the farmers in the best possible manner. Consequently, we have earned recognition in the market. We Have deal in herbal powder, Dry Herbs, Herbal Product, spices ETC.