

Aloe vera Plant Cultivation

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Aloe vera Cultivation

Aloe Vera is an evergreen perennial succulent species, Originated from Arabian Peninsula. More than 500 species are known out of which only few are known for commercial used. Most beneficial varieties are *Aloe barbadensis miller* and *Aloe indica royle*.



Economic parts: Leaves



Chemical composition and its uses

| Chemical contain | uses |
|--------------------|--|
| Aloin | Cleanse digestive system/ relives constipation |
| Acemannan | Immunostimulant, antiviral, antineoplastic and gastrointestinal properties |
| Vit. E | Anti-aging supports immune functions, prevent inflammation & coronary heart disease, promote eye health, and lower the risk of cancer. |
| Dimethyl sulfoxide | Decreased pain, speed the healing of wound, burns, |

| | |
|--|--|
| | muscle and skeletal injuries, arthritis etc. |
|--|--|

Aloe indicaroyale

Clumping suckering succulent with short stem leading to compact stiff rosettes composed of 8-10 inches with the width of 2 inches spotless dark green leaves. Its pulps are sweet in taste therefore mostly used in processing healthy food products like juice, candy etc.



Aloe barbadensismiller

Consist of thick fleshy light green, white spotted leaves that grow up to 18 inches in length and 2-3 inches in width at the base with sharp spikes at the edges. It is used mostly for cosmetic products and pharmaceutical products.



Cultivation

Soil and climate: Basically, it is a warm tropical crop grown in various climatic condition but need protection from frost. It is a very low maintenance plant and can be successfully grown in low rainfall region. It can adapt in a wide range of soils but best suited in well drained sandy loam with the pH not exceeding 8.5. Commercial cultivation can be done in the region 25-40°C.

Land preparation:

Field is thoroughly ploughed and cross ploughed to bring the soil to the fine tilth stage and beds of 10-12 inch raised bed are prepared.

Propagation: Propagated through suckers of 6-9 inches or sometimes by cutting a new growth. Germination takes place after 45 days of planting.

Plantation: Suckers are planted with the spacing of 24x24 inches Planting can be done all year round; summer plantation thrives for more water.

Management:

Irrigation: This herb does not need much water and can be grown as rainfed crops. 4-5 irrigation is required during summer.

Pest: No serious pest is reported

Caution:

- Avoid water logging soil
- Timely weeding should be done
- Avoid use of chemicals/synthetic fertilizers, pesticides or weedicides.

Harvesting and Yield

Aloe leaves can be harvested by using sharp shears. Leaving aside three leaves the rest are harvested. Commercial Aloe productions produce upto 5 years. The first production starts after 12 months of planting and yield 3 kg/ plant (approx.) followed by the next production after 6 months or 12 months depending upon availability of water. Each plant yield 5 kg (approx.) leaves on 2nd yield onwards.

Marketing: Aloe is among the few medicinal plants having both medicinal and cosmetic uses and thus, has an extensive market across the globe.

Economics

❖ Expenditure per acres:

| Plant spacing | Plant density(acre) | Cost per plant | Total cost | Cost of fertilizers | Total amount |
|--------------------------------|----------------------|----------------|------------|--------------------------|--------------|
| 2 x 2ft. | 13,000 | Rs 4/- | Rs 52,000 | As per plant requirement | 52,000/- |
| Total investment = Rs 52,000/- | | | | | |

❖ Income

| Production per year (Per acers) | Yield per plant (Approx.) | Total (Approx.) | Company buys back price/kg | Total |
|---|---------------------------|-----------------|----------------------------|-------------|
| 1 st year | 3 kg | 39,000 kg | Rs 3.50 | Rs 1,36,500 |
| 2 nd year | 5 kg | 65,000 kg | Rs 3.50 | Rs 2,27,500 |
| 3 rd year | 5 kg | 65,000 kg | Rs 3.50 | Rs 2,27,500 |
| 4 th year | 5 kg | 65,000 kg | Rs 3.50 | Rs 2,27,500 |
| 5 th year | 5 kg | 65,000 kg | Rs 3.50 | Rs 2,27,500 |
| Total income in 5 years = Rs 10, 46,500 /- | | | | |

❖ 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 high returns. Services:

1. This includes Supervision, consultancy, guidance, Transportation cost first year.
2. First production start after 1st year and production will remain next 5 year.
3. Buy back agreement of Aloe vera Leaf.
4. The income expenditure indicated by the company is an approximated figure, as it also depends on the nature and hard work of the farmer

❖ Terms And Conditions:

1. For 1 Acre plantation the cost of Plants is Rs.52,000/- out of which 50% has to be paid before the cultivation and the remaining half after the planting is done.
2. The Buy Back Agreement Stamp paper of Rs.100/- has to be stamped by District Court of your area.
3. For 10 Acre or more yield the buy Back Agreement Stamp Paper will be of Rs.500/-



**(“Look deep into nature,
And then you will understand
everything better”)**

For More Information Contact Us :



MAATITATVA AGRO INDUSTRIES PVT. LTD.

GSTIN: -23AANCM8802G1ZFReg. no: -U01409MP2020PTC053148

ISO 9001-2015 CERTIFIED

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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.

Thank you