



Aloe Vera Gel Extracting Project

Small Business of Aloe Vera Manufacturing

Aloe Vera Gel Processing

About Aloe Vera

Aloe Vera is a succulent plant species of the genus *Aloe*. An evergreen perennial, it originates from the Arabian Peninsula, but grows wild in tropical, semi-tropical, and arid climates around the world. It is cultivated for agricultural and medicinal uses. The species is also used for decorative purposes and grows successfully indoors as a potted plant.

It is found in many consumer products including beverages, skin lotion, cosmetics, or ointments for minor burns and sunburns. There is little clinical evidence for the effectiveness or safety of Aloe Vera extract as a cosmetic or medicine.

Aloe Vera is a stemless or very short-stemmed plant growing to 60-100 cm (24-39 in) tall, spreading by offsets. The leaves are thick and fleshy, green to grey-green, with some varieties showing white flecks on their upper and lower stem surfaces. The margin of the leaf is serrated and has small white teeth. The flowers are produced in summer on a spike up to 90 cm (35 in) tall, each flower being pendulous, with a yellow tubular corolla 2-3 cm (0.8-1.2 in) long.



From Wikipedia, the free encyclopedia

About the product

- ❖ Aloe Vera is one of the most used medicinal plants
- ❖ This is widely grown plant across Jaffna 40000, Sri-Lanka
- ❖ Aloe Vera is processed in to Gel, Juice and powder based for the industry usage

Market Potential

- ❖ Aloe Vera used widely in cosmetic, food and health care products
- ❖ As everyone preferring natural products demand for Aloe Vera has increased rapidly
- ❖ The Aloe Vera product is widely reorganized and use globally
- ❖ Hug demand in domestic and international market
- ❖ Aloe Vera can be sold to each customer or industrial usage
- ❖ Aloe Vera market give is expected revenue by 2022 is US\$ 242 in Sri-Lanka





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Budget

You can grow or farm your own Aloe Vera in a small to large scale plantation and the investment will be based on the expected final product output.

In 2 acre land will give you around 25 – 30 tons of plant. Aloe Vera is known to be tough plant which can grow in normal conditions without any pampering. A ton of leaves will cost you around \$250-300 therefore the whole profit in a year will be around \$7800 or 1.4 - 1.5 million Sri-Lankan rupees.



Customer Targets

- ❖ Cosmetic Industries
- ❖ Retail Ayurveda & Medical Stores
- ❖ Food Processing Industries
- ❖ Pharmaceutical Industries

Location

- ❖ This could work anywhere in Sri-Lanka, where the Aloe Vera is being grown
- ❖ You need to create awareness to farmers who grow Aloe Vera and buy back model
- ❖ If Aloe Vera is not available nearby then you need to plan for cooling van to bring from farm to the factory
- ❖ A small scale factory can be setup in 1000 - 1500 sq.ft facility



Extracting of Aloe Vera

- ❖ Cut close into the root with a sharp knife without damaging to the root
- ❖ Place it in a clean site and leave for 15 minutes to drain the first waste juice
- ❖ Put it in to a plastic container for extracting process
- ❖ Wash twice and then cut bottom and end sides
- ❖ Cut the sides of the leafs and then slice with a sharp knife the top leaf then the bottom and separate the Aloe Gel
- ❖ If you use extractor it will do all this automatically



Items need for cutting & loading

- a) Sharp cutting Knife
- b) Boots, Apron, Hair Net, Hand Gloves & Mask
- c) Collecting plastic containers

Transport the Aloe Vera leafs very quickly in cooling a vehicles if the collocating center or the farm is fare from the extracting facility before it oxidase and change colour

Needed Equipment in the Extracting Center

- a) Water Tank with pure clean water for washing
- b) Two Stain Steel wash basin for First & second wash
- c) Sharp Knife, Garbage containers for the waste & Stain Steel containers for collecting of Aloe Gel
- d) Boots, Hair Net, Musk, Gloves and Aprons



Storeing of Extracted Aloe Gel



- Once the Aloe gel is extracted must be pack as per the customers choice and stored
- A juice marker need the gel in pulp or into small cut of pieces
- A industrial customer may choice direct gel
- You must scale and pack the gel as per their requirements

Stores Equipment

- 1) Weighting Scales (Large floor type, Small table type)
- 2) Packing Sealers
- 3) Packing Poly bags (In deferent sizes)
- 4) Permanent markers to ensure the customer details, weight, batch number, manufacturing date & expiry

Factory, Furniture & Fitting

1) 1000 – 1500 sq.ft extract facility	1500	@	1,750/-	2,625,000.00
2) Cooler Van				2,900,000.00
3) Stain Steel Wash Basin	2	@	54000/-	108,000.00
4) Extractor or Peeling machine				481,250.00
5) Cooler Storage Freezer (without import tax)				630,000.00
6) Storage Shelves				21,600.00
7) Table Trolley				10,800.00
8) Stain Steel Tables	2	@	37,800/-	75,600.00
9) Stain Steel Containers	20	@	720/-	14,400.00
10) Knives	20	@	160/-	3,200.00
11) Cupboard				12,500.00
12) Garbage Barrels	10	@	9000/-	90,000.00
13) Weighting Scale (Floor)				21,600.00
14) Weighting Scale (Table)				14,400.00
15) Laboratory Test Kit				35,000.00
Total cost for main factory				7,043,350.00

Aloe Vera Collecting Unit (Purchasing Dept)

- 1) One person can employed to work in the area if the farmer dose the cutting of leafs
- 2) Or employ plugging staffs according the size of the farm and its produce with number of Boots, Aprons, Hair nets, face mask, hand gloves and knife per member 20,000.00
- 3) Plastic Containers 30 @ 1,800/- 54,000.00
- 4) Uniform 10 @ 1,400/- 14,000.00
- Total collecting cost 88,000.00**

Aloe Vera Processing Unit (Extracting Dept)

- 1) Once the Aloe Vera leafs arrived from the collecting centers or farms then the processing starts at this unit
- 2) The staff members need Boots, Aprons, Hair nets, face mask, hand gloves and knife 20,000.00
- 3) Plastic Containers 30 @ 1,800/- 54,000.00
- 4) Uniform 10 @ 1,400/- 14,000.00
- Total collecting cost 88,000.00**

Global Aloe Vera Gel Market Revenue By End-Use, 2017 (US\$ Mn)



CAGR of **7.8%**
(2018-2027)

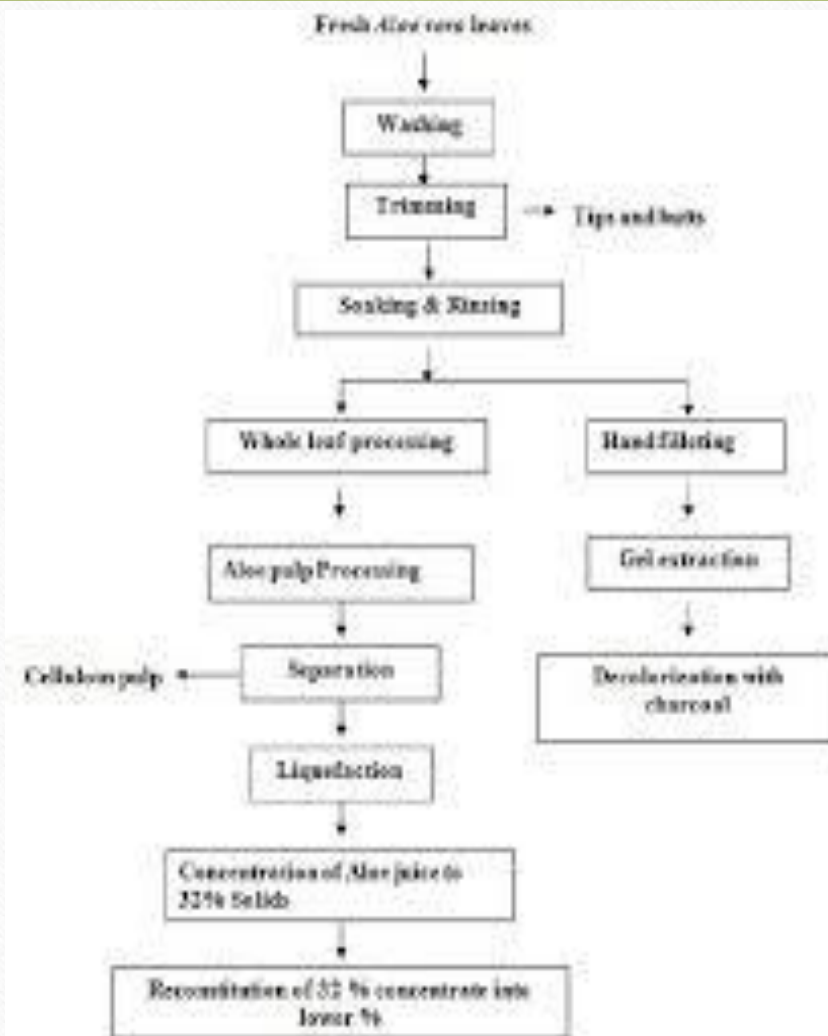


Source: Future Market Insights, 2018

Note: Market shares are not depicted as per the actual scale and are only for illustration purposes.

juice production line

Shanghai JIMEI Machinery



Business Model & Growth

- ✓ This business can be start in small capacity and scale up gradually
- ✓ Sourcing Aloe Vera plays key role in this business
- ✓ Need to maintain low temperature to avoid loss of out put
- ✓ Initially supply to industries on volume
- ✓ Have long term supply contract with different industries
- ✓ As business grows target retail market with good packing
- ✓ As volume grows focus on export opportunities

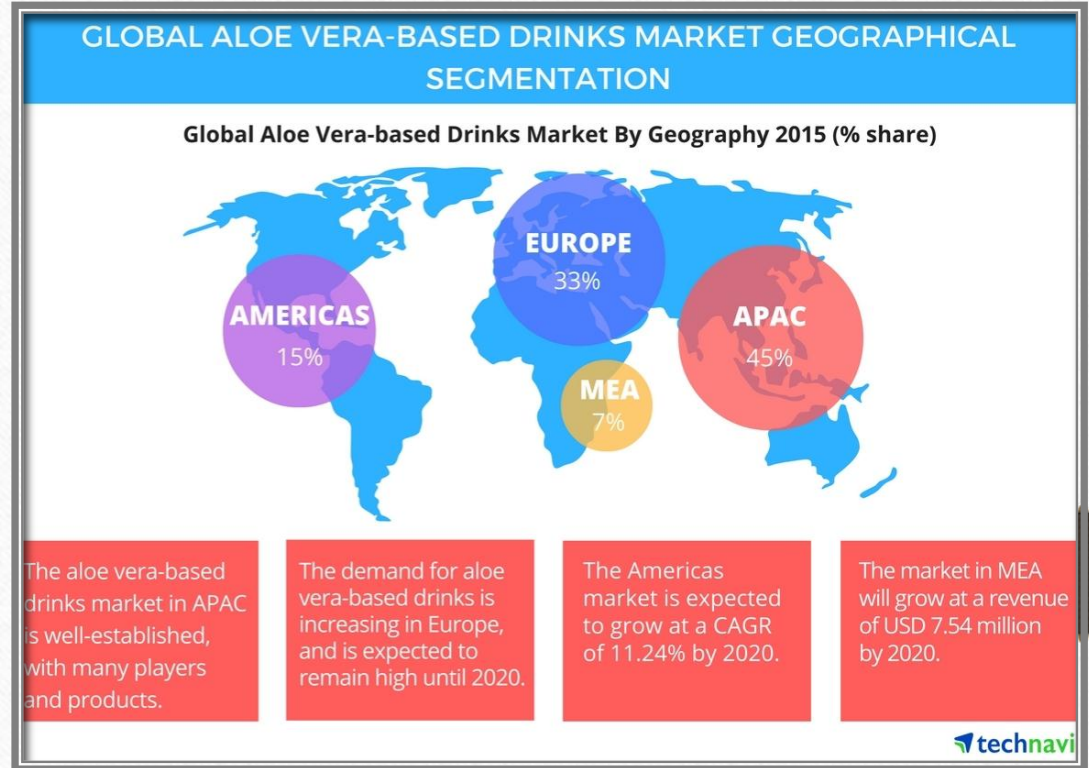
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