

Continuous Feed Aloe vera Whole Gel Extraction Equipment

Utility

The continuous feed aloe vera whole gel extraction unit that has been developed peels both top and bottom rinds in a single pass due to the stainless steel blades presents. There is a set of stainless steel rods, which are provided at the outlet of the gel. This allows the top rind layer of the leaves and the gel to be separated before collection. The whole gel is directly collected in the food grade which is partially filled with clean water. The top and the bottom leaves are collected separately. The equipment is unique in design and very useful in removing of the aloe vera gel with ease. The cost of the unit is approximately Rs. 35,000/- only. Saving in time over conventional method is about 70 percent. Saving in cost over conventional method is about 50 percent.



Motor (One hp; Three phase)/ handle for manual operation which acts as a power source for all the moving parts through the gear transmission mechanism.

Capacity (Motorized) : 200-225 kg/h (900- 1000 leaves/hour)

Capacity (Manual) : 100kg/h (400-450 leaves/hour)

Design: ICAR-CIAE, Bhopal

Commercialization Status: Ready for Commercialization

Proposed stakeholders: Aloe vera growers, post-harvest machines manufacturers etc.

Head, Technology Transfer Division

ICAR-Central Institute of Agricultural Engineering, Bhopal-462038

Telephone: +91-755-2521133, 2521134

E-mail: directorciae@gmail.com, headtttd@gmail.com Website: <https://ciae.res.in>