

Chemical Free Process Technology for Raisins

Utility

A package of technology with chemical free process has been developed for the production of raisins. It includes two machines namely a grape de-bunching machine and abrasive pre-treatment equipment, drying protocol for grapes, packaging and storage of raisins. Raisins can be prepared with no use of any chemicals in entire process; there is reduction in drying time of grapes (by 30-40%).



Specifications & Performance results	
Power source	: 1.5 kW (for grape de-bunching machine); 0.745 kW motor (for Abrasive pre - treatment system)
Weight, kg	: 80 (Grape de-bunching machine), 100 (Abrasive pretreatment system)
Cost, Rs.	: 1,50,000/-
Labour requirement, man-h/t	: 10
Output capacity, kg/h	: 130-150(for pretreatment)
De-bunching efficiency, %	: 93-95
Abrasive treatment efficiency, %	: 97
Drying time	: 5-7 days (solar); 2-3 days (hot air)
Cost of processing, Rs/t	: 21750/-

Benefits over conventional/traditional practices

- No use of chemicals in the process of raisin production.
- Reduction in drying time by 30-40%.
- Reduction in processing cost as compared to chemical process.

Design: ICAR-CIAE, Bhopal

Commercialization Status: Ready for Commercialization

Contact:

- Director, ICAR-CIAE, Nabi Bagh, Berasia Road, Bhopal 462038, Tel: 0755-2521134; Email: directorciae@gmail.com
- Director, National Research Center on Grapes, Pune-Maharashtra, Phone: 91-20-26956000 Email: director.nrcg@icar.gov.in