

Value addition of Cashew Apple

Name: **Mr. CANUTE ARANHA**

Village: Kalpady

District: Dakshina Kannada

State: Karnataka

Contact No: 9449209179



Salient features :

- Received best farmer award from Department of Agriculture during 2017-18
- Awarded certificate by ICAR-KVK, DK
- Participated as resource person in the skill based training programmes
- Invented cost effective cashew apple juice extractor

Description of Cashew juice extractor

- People of any age can extract juice
- Portable and Easy to handle
- Involves less drudgery in operation
- Fabricated by using locally available wooden materials only extracting part is covered with food grade steel
- It does not require electricity for operation

Challenges Faced:

- Non availability of fruits (Season bound)
- High perishability and astringent taste
- Fresh fruits should process within 2 hours of harvest
- Poor consumer preference
- Lack of awareness on processing

Impact:

- Created employment opportunity to 15 farmers
- Selling juice in the brand name of Ken's fresh
- Motivated to prepare value added products like syrup, jam and halwa by using cashew apple
- Fetches more income than cashew nuts
- Minimized fruit wastage by processing 2.0-4.0 tons per year by using cashew juice extractor



Flow chart of juice preparation

- Collection of cashew apple
- Sorting
- Detachment of the nuts
- Washing
- Cutting
- Crushing (150kg of fruits per hour by using cashew juice extractor)
- Filtration
- Storage



Outcome:

- Efficiency of machine is high (150 kg fruits/hour) which saves manpower and time
- Juice recovery per cent is high 60-70% (100kg)
- Can obtain net returns up to 35000-40000/ton of cashew apple

Year	Fruits (t)	Total Cost (Rs.)	Juice recovery (lit.)	Gross returns	Net returns
2015-16	1	21700	650	58500	36800
2016-17	2	43400	1300	117000	73600
2017-18	4	86800	2600	234000	147200
2018-19	2	43400	1300	117000	73600

* Average price per liter of juice- Rs. 45/- * Juice: Water :- 50:50 (650 lit. of juice in 650 lit. of water)

Karnataka Veterinary, Animal and Fisheries Sciences University, Bidar
ICAR-KVK, Dakshina Kannada (Mangaluru – 575 002)