

GOVERNMENT OF INDIA  
MINISTRY OF AGRICULTURE AND FARMERS WELFARE  
DEPARTMENT OF AGRICULTURE AND FARMERS WELFARE

**LOK SABHA**  
**UNSTARRED QUESTION NO. 2525**  
TO BE ANSWERED ON THE 10<sup>TH</sup> DECEMBER, 2024

**HARNESSING THE BY- PRODUCTS OF RAW CASHEW**

2525. DR. M K VISHNU PRASAD:

Will the Minister of AGRICULTURE AND FARMERS WELFARE कृषि एवं किसान कल्याण मंत्री  
be pleased to state:

- (a) whether the Government has any proposals to harness the by-product of raw cashew, if so, the details thereof;
- (b) the details of Cashew by-products and their usages;
- (c) the details of revenue generated by Cashew by-products;
- (d) whether any new variety of Cashews has been introduced to increase cashew yield, if so the details thereof;
- (e) the details of export and import of cashews during the last three years; and
- (f) whether any study has been conducted on cashew farming in Cuddalore district of Tamil Nadu, if so, the details thereof?

**ANSWER**

THE MINISTER OF STATE FOR AGRICULTURE AND FARMERS WELFARE

कृषि एवं किसान कल्याण राज्य मंत्री (SHRI BHAGIRATH CHOUDHARY)

(a) to (c): Cashewnut shell liquid (CNSL), testa and shell are obtained as by-products, while processing of raw cashewnuts. Cashew Research Centre, Madakkathara, Kerala Agriculture University and Indian Council of Agricultural Research (ICAR)- Directorate of Cashew Research (DCR), Puttur, Karnataka are engaged in carrying out various research & development programmes including harnessing by-products of raw cashewnuts.

Cashew Research Centre, Madakkathara has developed technology for commercial utilization of cashew apple for preparation of various products like cashew apple syrup, mixed fruit jam, pickle, Ready-to-Serve (RTS) beverages, carbonated drinks, candy and energy bar. The details of various by-products of raw cashewnut are given at **Annexure-I**. A total of Rs 77.21 crores revenue was generated through export of cashewnut by-products during 2023-24.

(d): ICAR - DCR, Puttur has developed four new improved varieties/ hybrids of cashewnut having better yield potential. The varieties are Nethra Jumbo-1, Nethra Ubhaya, Nethra Ganga and Nethra Jumbo-2.

(e): The details of export of cashewnut and import of raw cashewnut from 2021-22 to 2023-24 are given at **Annexure-II**.

(f): Tamil Nadu Agricultural University has conducted studies on cashew farming in Cuddalore district of Tamil Nadu on various aspects such as Effect of Ultra High density/ High density planting of cashewnut, training and pruning, drip irrigation, integrated nutrient management, on the yield, Intercropping of cashewnut with other crops i.e. vegetables, pulses, oil seeds and medicinal plants to get additional income to farmers and Management of Pest and Diseases i.e Tea mosquito bug, Stem and Root Borer.

**Details of cashewnut by- products**

<b>Raw cashew by-product</b>	<b>Uses</b>
Cashew Nut Shell Liquid (CNSL)	Industrial fluid used in the manufacturing of drugs, paper ink, paints, varnish, resin and also in the treatment of certain dermatological disorders.
Outer shell	As fuel either directly burnt as a biomass or is used as feedstock for gasification or is converted into briquettes.
Testa/ peel	Natural antioxidant, tannin extracted is a useful resource in leather manufacturing industry.
Cashew apple	Medicinal: treatment of scurvy, diarrhoea, pharyngitis and chronic dysentery. Food: Jam, Syrup, Chutney, Beverage and Juice

**Details of export of cashewnut and its products and import of raw cashewnut**

Quantity in '000 MT, Value: INR Cr

Year	Export		Import	
	Quantity	Value	Quantity	Value
2021-22	82.92	3586.62	939.20	9338.37
2022-23	78.82	3132.89	1332.19	14369.51
2023-24	81.58	3074.99	1255.10	11828.15

Source: (Trade Division, DA&amp;FW)

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