

***Ziziphus mauritiana* Lam. (Ber) Pulp Powder-A Nutritionally Rich Fruit Residue for Food/Feed Products**

Salient features

- *Ziziphus mauritiana* Lam. (Ber) thrives well in drought, infertility, and salinity prone areas of arid and semi-arid regions of India.
- Large volume of residues generate during pre-processing
- *Ziziphus* var. 'Gola' dried at 80°C for period of 10-12hrs
- *Ziziphus* pulp powder was rich in ash, Crude Fibre, ADF, and NDF content with some amount of protein and fat also.
- Moisture content (d.b.) in *Ziziphus* peel powder was 7.20 %, protein 6.70 %, Fat 2.20, Ash 8.60 %, ADF 18.50 %, NDF 25.25 %

Advantages

- ✓ Utilization of the fruit residue generated during processing of the *ziziphus* fruit
- ✓ Enhanced economic importance and development of complete value chain of arid crop like *Ziziphus*.
- ✓ Dried pulp powder to be used as food/feed supplements or adjunct.



Ziziphus Pulp Powder



GOLA (UNDERRIPE)

Fresh Ziziphus fruits (Var. GOLA)

Process Technology / Product developed by

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Ministry of Food Processing industries, MoFPI, New Delhi

*More
information*

Status of commercialization / Patent / Publications

Available under ABI technologies of CAZRI for training, licensing and commercialization

Soma Srivastava, Mrigya Bansal, Dilip Jain, Yashi Srivastava. (2022). Encapsulation for efficient spray drying of fruit juices with bioactive retention. *Journal of Food Measurement and Characterization* (2022) 16:3792–3814. <https://doi.org/10.1007/s11694-022-01481-4>

Soma Srivastava. 2022. Development of microencapsulated pomegranate powder for higher retention of bioactives. In: abstracts. International Conference on Advances in Agriculture and Food System (AAFS-2022) towards Sustainable Development Goals at University of Agricultural Sciences, Bangalore

Soma Srivastava. 2022. Project report of Development of value chain for multi-purpose commercial utilization of selected arid fruits. F.No. Q-11/4/2020-R&D.