

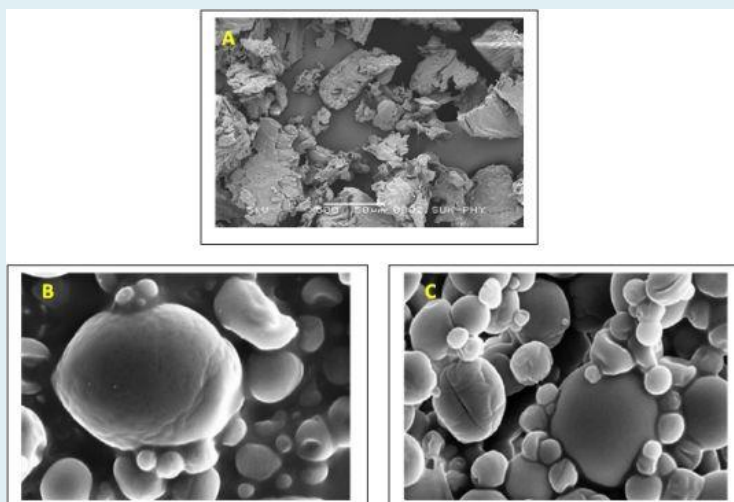
## MICROENCAPSULATION OF ANTHOCYANIN EXTRACTED FROM KOKAM PROCESSING INDUSTRY WASTE

### *Salient features*

- Anthocyanin was extracted with enzyme treatment from the waste generated during processing of Kokam.
- The Extracted anthocyanin was encapsulated by spray drying to extend its storability.

### *Advantages*

- ✓ Enzyme treatment increase extraction of anthocyanin from kokam processing waste.
- ✓ Increase storage stability of anthocyanin pigment.



**SEM image of (A) anthocyanins (Without encapsulation), (B) Anthocyanins encapsulated with maltodextrin and (C) Anthocyanins encapsulated with Gum tragacanth**

### *Process Technology developed by*

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MOFPI

### *More information*

**Status of commercialization / Patent / Publication**  
**Patent Filed:**

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Title of the invention: Detailed process for extraction of anthocyanin from waste of kokam (*Garcinia Indica*) processing industry.

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**Publications:**

1. R. C. Ranveer and A. K. Sahoo (2013). Optimization of microencapsulation process of anthocyanin extracted from Kokam (*Garcinia Indica* Choisy) processing waste. A paper presented in 7 th international Food Convention on “NSURE – Healthy foods” December, 18-21, 2013 at CFTRI, Mysore, Abs No. E-010:314.
2. R. C. Ranveer and A. K. Sahoo (2013). Enzyme-assisted extraction of anthocyanin from Kokam (*Garcinia Indica* Choisy) processing waste. A paper presented in 7th international Food Convention on “NSURE – Healthy foods” December, 18-21, 2013 at CFTRI, Mysore, Abs No. E-001:311.
3. First prize in poster presentation for “Standardization of Rapid Estimation of Total Anthocyanins from Kokam (*Garcinia indica* Choisy) processing industry waste” in National conference on Emerging technologies for sustainable developments (NCET) at Department of Technology, Shivaji University, Kolhapur.