

BIDISHA KARJEE

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Guwahati,
Assam



PROFILE SUMMARY

Postgraduate in Food Engineering and Technology with a strong academic record (Gold Medalist, B.Tech) and research experience in biomass valorization, biopolymer extraction, and sustainable food packaging with proven ability in research design, technical documentation, and laboratory experimentation. Motivated to contribute to research on biomass valorization and biopolymer-based food packaging applications.

OBJECTIVE

Seeking for opportunities for PhD. in the field of Food Engineering and Technology wherein I can further enhance my knowledge and contribute to the growing aspects of this field.

EDUCATION

Educational Qualification	Institute	Year	Percentage (%)
MTEch in Food Engineering and Technology	Tezpur Central University, Assam, India	2022-24	89.4
B. Tech. in Food Technology	Central Institute of Technology, Kokrajhar	2018-2022	82.9 (Gold medalist)
XII th	Maharishi Vidya Mandir IV, Guwahati	2018	86.6
X th	Maharishi Vidya Mandir III, Guwahati	2016	95

ACADEMIC PROJECT

- Microwave-assisted alkali extraction of cellulose for synthesis of cellulose nanocrystals from areca nut husk and its application in food packaging
 - (MTech Supervisor- Dr. Laxmikant S. Badwaik)
 - Tezpur University
 - To standardize process parameters for microwave assisted extraction (MAE) of cellulose nanocrystals (CNCs) from areca nut husk
 - To develop film using biopolymer incorporated with CNCs
 - To apply the developed film for prolonging shelf life of locally available fruit
- Development of edible coatings to prolong postharvest life of banana
 - (BTech Supervisor- DR. Santosh Kumar)
 - Central Institute of Technology, Kokrajhar
 - To prepare edible coating formulation using eugenol oil nano-emulsion and carnauba wax

- To apply developed coating formulation on banana fruit
- To study shelf life of coated banana fruits

AREA OF INTEREST

- Biomass Valorization & Biopolymers
- Food Packaging & Smart Materials
- Green Solvents & Sustainable Processing
- Postharvest Technology & Product Development

EXPERIENCE

- Teaching Associate, Daffodil Group of Institution, Khetri, Assam (Sept 2024 – July 2025)
- Delivered lectures on Food Technology, Packaging Technology, and Postharvest Management.
- Conducted lab-based practical demonstrations on food processing, packaging, and quality evaluation.
- Integrated sustainable and active packaging technologies into curriculum.
- Prepared technical reports, study materials, and guided student projects.

INTERNSHIPS

- Food Processing Technology: Advances and Application| Department of Technology Dissemination| Indian Institute of Food Processing Technology, Thanjavur, Tamil Nadu, India 3rd August 2020 to 14th August 2020
- Industrial Training| Master India Brewing Company, Guwahati| 2nd July, 2020 to 1st August, 2020

CONFERENCE

- Current Trends of Research in Chemistry Towards Sustainability, Health Care and Forensic Analysis| Department of Chemical Sciences, Tezpur University| March 14-15, 2024

LANGUAGES

- English, Hindi, Assamese