

Personal Profile



Dr. Sandeep Janghu
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Department of Food Technology
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Educational Profile

Ph.D. (Food Engg. & Tech.)	S.L.I.E.T., Longowal, Punjab.
M.Tech (Food Engg.)	G.J.U.S.T., Hisar, Haryana.
M.Sc. (Food Sc. & Tech.)	Ch. Devi Lal University, Sirsa, Haryana.
International P.G. Course	Hebrew University of Jerusalem, Israel.

Professional Experience (15+ Years Teaching) & (02+ Years Industrial)

Associate Professor Department of Food Technology, Rajiv Gandhi University, Arunachal Pradesh	June 2023- Till Date
Assistant Professor National Institute of Food Technology, Entrepreneurship & Management (NIFTEM)- Thanjavur. Tamil Nadu. Institute of National Importance (INI)	May 2015-May 2023
Assistant Professor ITM University, Gwalior. M.P.	July 2014-April 2015
Assistant Professor Shoolini University, Solan. Himachal Pradesh	July 2010-Feb 2014
Assistant Production Officer Parle Biscuits Pvt. Ltd., Khopoli, Maharashtra	July 2006-Aug 2008

Administrative Experience (3+ years)

Dean, Faculty of Agricultural Sciences, Rajiv Gandhi University, Arunachal Pradesh	01st June 2024-Till Date
Head, Department of Food Technology, Rajiv Gandhi University, Arunachal Pradesh	24th July 2023 - 03rd June 2024

Research Guidance

- **Ph.D. Supervisions (Awarded)** : 02 Nos.
- **Ph.D. Supervisions (Ongoing)** : 02 Nos.
- **P.G. Supervisions (Awarded)** : 10 Nos.

Patents (04 Nos.)

- **Dr. Sandeep Janghu**, Dr. Raj Kumar Joshi, Dr. Rukmini Mishra, Dr. Chelladurai Vellaichamy, Ashok Kumar Sarangi, Dr. Uday Kiran Avasthi, Deeptanu Choudhury, Dr. Diwakar Pandey, Abhisek Hazra, Dr. Gaurav Shrimali, Dr. Santanu Koley (2025). **Handheld CRISPR-Food Quality Assurance Analyser**. UK Intellectual Property Office Patent Design No: 6482522. Granted on: 06th November 2025.
- **Dr. Sandeep Janghu**, Dr. Mrudula Guggilla, Dr. Farhat Afrin, Dr. Palety Kiran Kumari, Dr. Vaishali Uttamrao Dange, Dr. Shamayita Basu, Dr. Rupali Dhara Mitra, Dr. Chelladurai Vellaichamy, Dr. Chiranjib Chakravartt, Dr. Changanamkandath Rajesh, Dr. Biswaranjan Paital (2025). **ON-SITE CRISPR-Food Pathogen Screening Device**. UK Intellectual Property Office Patent Design No: 6487063. Granted on: 26th November 2025.
- **Dr. Sandeep Janghu**, Dr. Vishnu Kalladathvalappil Venugopalan, Dr. Rohit Kumar Vashishat, Radha Sanjaykumar Waghchaure, Dr. Jagdish Keshavrao Sangle, Dr. Manmath Dagaduppa Sontakke, Kalyani Sudam Thote, Muktanand Vitthal Londhe, Sr. Shrutika Kanad Deo, Dr. Shantanu Kohley (2026). **Modular Automated Spice Roasting & Blending Unit**. UK Intellectual Property Office Patent Design No: 6498818. Granted on: 27th January 2026.
- Dr. Vyankateshwar Ganeshji Girhepunje, **Dr. Sandeep Janghu**, Priti Ashok Jain, Dr. Anu Rai, Dr. Sayantan Guha, Dr. Ujjwal Das, Dr. Tuhina Halder, Dr. Khalilov Sherzod, Dr. Renu Kumawat, Dr. Gyanika Shukla, Dr. Amardeep Singh, Dr. Santanu Koley (2025). **AI Weather Risk Computer Advisor for Farm Operations**. UK Intellectual Property Office Patent Design No: 647664. Granted on: 31st October 2025.

Awards & Honor's

- **Excellence in Research Award** by Society of Agriculture, Allied Science & Technology (**SAAST**), Odisha during 1st International Conference on Emerging Technologies in Agriculture and Allied Sciences (**ETAAS**)-2024 on 10-11th August 2024.
- **UGC-CSIR-NET Qualified in Life Sciences, All India Rank 25 (Dec. 2012).**
- **MASHAV Fellowship for International PG course in ISRAEL (Feb. 2014).**

Sponsored Projects (07 Nos.)

Title of the project	Funding agency	Year of sanction	Role
Identification of Sustainable Technologies for Value Chain Development of Jackfruit.	SERB/MoFPI	2015	Co-PI
Development of Non-Thermal Processing and Botanical Source Identification Techniques for Indian Honey.	IICPT	2016	PI
Establishment of Food Processing Business Incubation & Food Testing Laboratory at Liaison Office, NIFTEM-T, Guwahati	MoFPI	2017	PI
Establishment of Training Centre for Skill Training under various Job roles in Food Processing.	SHRISD/MoFPI	2019	PI
Scientific Bee Keeping & its Value Addition in Arunachal Pradesh.	NBHM- NBB-MAFW	2025	PI
Capacity Building and Skill Development in Millet Production and Processing for Master Trainers and Farmers of Arunachal Pradesh	ICAR-IIMR, Hyderabad	2025	PI
Enhancing Farmers Livelihood through Millet Production cum Processing skills and Entrepreneurship Development in the region of Arunachal Pradesh	ICAR-IIMR, Hyderabad	2026	PI

Consultancy Services (12 Nos.)

Title	Funding agency	Duration	Grant Received	Role
Establishment of Freeze Drying Unit for Juices & Fruits with Testing Facility.	FDP Project at IIT, Guwahati Funded by HDFC Bank	18 Months	98+ Lakh INR	Sole PI
Establishment of Milk Processing Unit in Namsai, Arunachal Pradesh.	CSR-People to People Health Foundation (PPHF), New Delhi Funded by HDFC Bank	6 Months	Less than 10 Lakhs	Sole PI
Establishment of Millet Processing Unit in Arunachal Pradesh	CSR-People to People Health Foundation (PPHF), New Delhi Funded by HDFC Bank	3 Months	Less than 10 Lakhs	Sole PI

Establishment of Food (Spice) Processing Unit in Arunachal Pradesh	CSR-People to People Health Foundation (PPHF), New Delhi Funded by HDFC Bank	3 Months	Less than 10 Lakhs	Sole PI
Establishment of Multi-Fruits & Vegetable Processing Line	Industrial Consultancy to Mr. Anant Deorah, Guwahati, Assam	6 Months	Less Than 10 Lakhs	Sole PI
Development & Optimization of Insect Based Super Food	Industrial Consultancy to Mr. Atnu Prasad Sarma, Guwahati, Assam	6 Months	Less Than 10 Lakhs	Sole PI
Development of Aged (Black) Garlic Based Products	Industrial Consultancy to Mr. Trialukya Dutta of M/S Tholua Pratisthan Pvt. Ltd. Guwahati, Assam	6 Months	Less Than 10 Lakhs	Sole PI
Establishment of Pineapple Processing Unit	Industrial Consultancy to Mr. Pallav Moitra & Ms. Nupur Moitra, Agartala, Tripura	6 Months	Less Than 10 Lakhs	Sole PI
Establishment of Tomato (Paste, Sauce, Catcheup etc.) Processing Unit.	Industrial Consultancy to Mr. Gaurav Veer Singh, Bathinda, Punjab	6 Months	Less Than 10 Lakhs	Sole PI
Candy Making Process/Procedure, required plant & Machinery & training of manpower	Industrial Consultancy to Mr. Kangkan Deka, Guwahati, Assam.	6 Months	Less Than 10 Lakhs	Sole PI
Establishment of Integrated Food Processing Unit in Tripura State under Mission Organic Value Chain Development (MOVCD) for NE Region	Ministry of Agriculture & Farmer Welfare Through Tripura State Agriculture Department	12 Months	Less Than 10 Lakhs	Sole PI
Establishment of Cold Store Infrastructure for dealing with perishable crops	MEVEDIR, Sikkim	6 Months	Less Than 10 Lakhs	Sole PI

Research Publications (34 Nos.)

- Subham Singh Patel, Aarti Bains, Ravinder Kaushik, Sanju Bala Dhull, Rupak Nagraik, Mohannad Fareed, **Sandeep Janghu** and Prince Chawla (2026). Leveraging Smart Technologies to Enhance Safety in Milk and Milk-based Products. *Food Control*. Vol 182, Page 1-16. April 2026, Article: 111871. DOI: <https://doi.org/10.1016/j.foodcont.2025.111871>
- Rajat Chandel, Vikas Kumar, Ramandeep Kaur, Satish Kumar, **Sandeep Janghu**, Jasleen Bhasin (2026). Phytochemical improvement of sand pear cubes through impregnation of spices and tea extract: Characterization using In-vitro bioactivity, FTIR, ICP-AES, and SEM. *Sustainable Food Technology*. Vol 4(2), Page 1749-1757. DOI:10.1039/D5FB00461F
- Subham Singh Patel, Aarti Bains, **Sandeep Janghu**, Rupak Nagraik and Prince Chawla (2026). From Formation to Detection and Inhibition: Current Trends in the Study of Heterocyclic Aromatic Amines in Food Matrices. *European Food Research and Technology*. Vol 252 (2), Page 1-33. Article: 96 (2026). DOI: <https://doi.org/10.1007/s00217-025-05031-2>
- Rimpi Foujdar, Swati Ray, **Sandeep Janghu** (2026). Non-Edible Fruit Seeds as Nutrient and Bioactive Sources for Functional and Sustainable Foods. *Food and Humanity*. Vol 6, Page 1-20, Article: 101182. DOI: <https://doi.org/10.1016/j.foohum.2026.101182>
- Raju Sasikumar, Ayush Gupta, Selva Kumar T, Kaviarasu Ganesan, Sheena Haorongbam, Ravikumar Rajarathinam, **Sandeep Janghu**, Sandeep Kumar Panda and Amit K. Jaiswal (2026). Advantages of Low-Glycaemic-Index Carbohydrates in regulating Glycaemic Response of Energy Bar: A Review. *Journal of the Food and Agriculture*. Page 1-12. DOI: <https://doi.org/10.1002/jsfa.70775>.
- Aadisha Saini, Vikas Kumar, Ramandeep Kaur, Satish Kumar, Jaydeep Dave, Sangappa, S. Sivakumar, **Sandeep Janghu** (2026). Valorization of Rosehip Waste for Functional Enhancement of Ash Gourd Candy: physicochemical, bioactive, molecular and structural characterization. *Sustainable Food Technology*. Page 1-16. DOI: <https://doi.org/10.1039/D6FB00107F>
- Babli Waribam, Raju Sasikumar, Selva Kumar T, G. Phani Kumar Garlpati, **Sandeep Janghu**, S. Chakkaravarthi, Paul Mansingh, Vidisha Tomer, Amit K. Jaiswal (2026). Characterization of Nutritional, and Flavor Profiles of Aromatic Black Rice, India. *International Journal of Food Science*. Page 1-10, Article: 5759996. DOI: <https://doi.org/10.1155/ijfo/5759996>
- Bandita Bagchi Banerjee & **Sandeep Janghu** (2025). Effect on rheological behaviour and composition of wheat cookies fortified with black rice (Chakhao) flour. *Journal of Culinary Science & Technology*. Vol. 23 (6) Page No. 1471-1496. DOI: <https://doi.org/10.1080/15428052.2024.2416436>
- L Meena, N A Nanje Gowda, C K Sunil, Ashish Rawson, **Sandeep Janghu** (2024). Effect of Ultrasonication on food Bioactive compounds and their Bio-accessibility: A Review. *Journal of Food Composition and analysis*. Vol. 126, February 2024, Article: 105899. DOI: <https://doi.org/10.1016/j.jfca.2023.105899>
- Aadisha Saini, Vikas Kumar, Ramandeep Kaur, Satish Kumar, Neha Gautam and **Sandeep Janghu** (2024). Conventional and non-conventional approaches for the extraction of rosehip phytocompounds and its bioactive, structural and antimicrobial characterization. *Journal of Food Measurement and*

Characterization. Vol. 18, 2834-2845. DOI: <https://doi.org/10.1007/s11694-024-02361-9>

- Nikhil Dnyaneshwar Patil, Sweezee Thakur, Sawinder Kaur, Nemat Ali, Rahul Arora, Mohammad Khalid Parvez, Gulden Goksen, **Sandeep Janghu**, Prince Chawla (2024). Exploration of Calocybe indica mushroom phenolic acid-kidney bean protein complex: Functional properties, amino acid profiles, in-vitro digestibility, and application in vegan product development. *Food Chemistry*. Vol 460, December 2024, 1-15, Article: 140401. DOI: <https://doi.org/10.1016/j.foodchem.2024.140401>
- Nikhil Sharma, Sweezee Thakur, Aarti Bains, Kandi Sridhar, Sanju Bala Dhull, **Sandeep Janghu**, Minaxi Sharma, Sandip Patil and Prince Chawla (2024). Advancements in Fluorescence Sensing: Carbon Quantum Dots for Acrylamide Detection in Food. *Journal of Food Biochemistry*. Vol 2024, Page No. 1-23, Article: 5045531. DOI: <https://doi.org/10.1155/2024/5045531>
- Raju Sasikumar, Kambhampati Vivek, Nongmaithem Roshia, **Sandeep Janghu**, Kadirvel Govindasam and Amit K. K Jaiswal (2024). Enhanced bioactive component recovery from Sohiong via optimized enzyme-assisted microwave extraction and its stability in freeze-dried premix. *LWT - Food Science & Technology*. Vol. 209, Page No. 1-8, Article: 116796. DOI: <https://doi.org/10.1016/j.lwt.2024.116796>
- Madhu Sharma, Gulden Goksen, Nemat Ali, **Sandeep Janghu**, Mohammad Khalid Parvez, Mohammed S. Al-Dosari, Maharshi Bhaswant, Prince Chawla (2024). Advancing Antimicrobial Efficacy of Cucumis Momordica Seeds: Nanoemulsion Application in Eurotium cristatum -Mediated Solid-State Fermentation. *Food and Bioproducts Processing*. DOI: <https://doi.org/10.1016/j.fbp.2024.10.008>
- Sumi Das, Kandarpa Kumar Saikia, **Sandeep Janghu**, Nabanita Baruah, Navneet Hazarika, Anindita Deka (2024). Evaluating the effect of β -cyclodextrin assisted spray dried citrus limon burm powder on physicochemical and antibacterial properties. *Journal of Xidian University*. Vol. 18 (1), 839-849. ISSN: 1001-2400
- Sumi Das, **Sandeep Janghu**, Kandarpa Kumar Saikia (2024). Effect of probe ultrasonication and β -Cyclodextrin on bitterness reduction and enhancement of biochemical properties of Citrus limon Burm juice. *Journal of Applied and Natural Science*. Vol. 16(3), 1354-1362. ISSN: 2231-5202
- Pratishtha Bassi, Vikas Kumar, Ramandeep Kaur, Satish Kumar, Ramesh Kumar Saini, **Sandeep Janghu** (2023). Valorization of Kinnow peel for development of phytochemical enriched tea infusion: Standardization of tea bag loading, dipping temperature and dips per minute for the better extraction of bioactive compounds. *International Journal of Food Science and Technology*. Vol. 58, Issue 5, Page 2715-2721. DOI: <https://doi.org/10.1111/ijfs.16053>
- Surbhi Kapoor, Rajat Chandel, Ramandeep Kaur, Satish Kumar, Raj Kumar, **Sandeep Janghu**, Amarjeet Kaur and Vikas Kumar (2023). The flower of *Hypericum perforatum* L.: A traditional source of bioactives for new food and pharmaceutical applications. *Biochemical Systematics and Ecology*. Vol. 110, October 2023, Article: 104702. DOI: <https://doi.org/10.1016/j.bse.2023.104702>
- Rimpi Foujdar, Harish Chopra, **Sandeep Janghu** and Manab Bandhu Bera (2023). Fabrication of "Lysine modified Zein- Punica granatum peels' purified ellagitannin nanoconjugates (Ly-M-Z-PE NCs)" and its in-vitro bio-accessibility, antiproliferative activity as well as biosafety studies. *Food Bioscience*. Vol. 55,

October 2023, Article: 102943. DOI: <https://doi.org/10.1016/j.fbio.2023.102943>

- Sumi Das, Kandarpa Kumar Saikia and **Sandeep Janghu** (2023). Spray drying microencapsulation effect on Antibacterial activities of Citrus limon Burm powder against pathogenic bacteria. *Indian Journal of Applied & Pure Biology*. Special Volume June 2023, Page 65-73. ISSN: 0970-2091
- Sumi Das, Kandarpa Kumar Saikia, **Sandeep Janghu** (2023). Biochemical and Morphological Characteristics of β -cyclodextrin Assisted Spray dried Citrus limon Burm Powder. *International Journal of Chemical and Biochemical Sciences*. Vol. 24(5), Page 121-135. ISSN: 2226-9614
- Rajni Saini, Satish Kumar, Vikas Kumar, Ajay Sharma, **Sandeep Janghu**, Rakesh Sharma, Priyanka Suthar (2022). Deep Eutectic Solvents: The New Generation Sustainable and Safe Extraction Systems for Bioactive Compounds in Agri food sector: An Update. *Journal of Food Processing and Preservation*. Vol. 46, Issue 10, Page e16250. <http://doi.org/10.1111/jfpp.16250>
- Vinita Sharma, Maninder Kaur, Kanwaljit Singh Sandhu, Vikash Nain, **Sandeep Janghu** (2021). Physicochemical and rheological properties of cross-linked litchi kernel starch and its application in development of bio-films. *Starch-Starke*. Vol. 73, Issue 7-8, Page 1-6. DOI: <https://doi.org/10.1002/star.202100049>
- Mandar Gawas, Aarti Bains, **Sandeep Janghu**, Pranali Kamat, Prince Chawla (2021). A comprehensive review on varicose veins: preventive measures and different treatments. *Journal of the American College of Nutrition*. Vol. 41, Issue 5, Page 499-510. DOI: <https://doi.org/10.1080/07315724.2021.1909510>
- Giridhar Goudar, Paras Sharma, **Sandeep Janghu**, T. Longvah (2020). Effect of processing on barley β – glucan content, its molecular weight and extractability. *International Journal of Biological Macromolecules*. 162; 1204-1216. DOI: <https://doi.org/10.1016/j.ijbiomac.2020.06.208>
- Anil Panghal, Ravinder Kaur, **Sandeep Janghu**, Poorva Sharma, Paras Sharma and Navnidhi Chhikara (2019). Nutritional, phytochemical, functional and sensorial attributes of Syzygium cumini L. pulp incorporated pasta. *Food Chemistry*. 289; 723-728. DOI: <https://doi.org/10.1016/j.foodchem.2019.03.081>
- **Sandeep Janghu**, Manab B. Bera, Vikas Nanda (2018). Characterization of Different Unifloral Indian Honey Varieties on The Basis of Physico Chemical Properties and Rheological Behavior. *The Annals of the University Dunarea de Jos of Galati Fascicle VI - Food Technology*. 42(2);36-48.
- Ravinder Kaushik, Prince Chawla, Naveen Kumar, **Sandeep Janghu**, Amit Lohan (2018). Effect of Pre-Milling Treatments on Wheat Gluten Extraction and Noodle Quality. *Food Science and Technology International*. 24(7); 627-636. DOI: <https://doi.org/10.1177/1082013218782368>
- Anil Panghal, **Sandeep Janghu**, Kiran Virkar, Yogesh Gat, Vikas Kumar, Navnidhi Chhikara (2018). Potential Non-Dairy Probiotic Products- A Healthy Approach. *Food Bioscience*. 21; 80-89. DOI: <https://doi.org/10.1016/j.fbio.2017.12.003>
- **Sandeep Janghu**, Manab B. Bera & Vikas Nanda (2018). Rheological properties of few Unifloral Indian Honey. Conference proceedings in “International conference on Agricultural & Biological Sciences (ICABS-2018)”. At Melbourne,

Australia from 6th – 7th August 2018. (Oral Presentation and full-length paper published in proceedings).

- **Sandeep Janghu**, Manab B. Bera, Vikas Nanda & Ashish Rawson (2017). Study on Power Ultrasound Optimization and Its Comparison with Conventional Thermal Processing for Treatment of Raw Honey. *Food Technology and Biotechnology*. 55(4); 570-579. DOI: <https://doi.org/10.17113/ftb.55.04.17.5263>
- Monisha Choudhury, Ankita Majumdar & **Sandeep Janghu**. (2016). Development and Acceptance Analysis of Mixed Fruit Pomace Fortified High-Fiber Biscuit. *International Journal of Advances in Science Engineering and Technology*, Vol. 4, No. 4 Spl. Issue-2. Pp. 35-39.
- **Sandeep Janghu**, Aradhita Ray, Vikas Bansal and Ravinder Kaushik. (2014). Dehydration Process Optimization for Maximum Lycopene Retention in Tomato Slices Using Response Surface Methodology. *Asian Journal of Dairy and Food Research*, Vol. 33, No. 3. Pp. 204-208. DOI: <https://doi.org/10.5958/0976-0563.2014.00603.4>
- **Sandeep Janghu**, Ravinder Kaushik, Vikas Bansal, Paras Sharma and Suman Dhindwal. (2014). Physicochemical Analysis of Ghee Residue and Conversion into Confectionary Food Products. *Indian Journal of Dairy Science*, Vol. 67, No. 4. July-Aug. 2014. Pp. 294-299.

Book/Book Chapter published (09 Nos.)

- Chinmayee Hazarika, Bandita Bagchi Banerjee, Arnab Banerjee and **Sandeep Janghu** (2026). Emerging scope of artificial intelligence in food quality control and demand forecasting for optimizing sales and reducing food waste. In: Tanmay Sarkar, Anandakumar Haldorai (ed.) *Artificial Intelligence in Food Science*. Academic Press is an imprint of Elsevier 125 London Wall, London EC2Y 5AS, United Kingdom, 50 Hampshire Street, 5th Floor, Cambridge, MA 02139, United States. Chapter 37, Page 701-714. ISBN: 978-0-443-26468-9. DOI: <https://doi.org/10.1016/B978-0-443-26468-9.00028-X>
- Ashok Kumar Yadav, **Sandeep Janghu** (2025). Techniques Based on Electrical Properties of Food. In: C K Sunil, Ashish Rawson, D V Chidanand, S Shanmugasundaram (ed.) *Emerging Non-Destructive Technologies for Food Quality Analysis*. Springer Nature, London. Chapter 15, Page 417-449. eISBN 978-3-031-95048-3 DOI: https://doi.org/10.1007/978-3-031-95048-3_15
- Nangram Kaku, Ashok Kumar Yadav, Nanam Ronya, **Sandeep Janghu** (2025). *Houttuyniacordata* (Fish Mint): A Medicinal Plant With Diverse Therapeutic Benefits. In: Aman Rathaur, Ashok Kumar Yadav, Himanshu Trivedi, Mayank Dubey (eds.) *Sustainable Agriculture, Food and Livestock: Innovation and Insights for the Future*. Iterative International Publishers (IIP), Selfpage Developers Pvt. Ltd., Karnataka, India. Chapter 1, Page 1-21. ISBN: 978-93-7020-506-2
- Sumi Das, **Sandeep Janghu**, Kandarpa Kumar Saikia, Nabanita Baruah, Kangkan Jyoti Borah (2025). Application of Citrus Waste in Food Preservation and in Spoilage of Microbes- A Review. In: Pradeep Kumar Baruah, Milu Rani Das, Bedabati Chowdhury, Dhritiman Chanda, Nazir Ahmad Bhat (ed.) *Bio-Based*

Resource Management. Mahaveer Publications, Dibrugarh – 786001, Assam, Chapter 6, Page 255-264. ISBN: 978-93-48070-31-9.

- Ashok Kumar Yadav, Sudhir Kumar, **Sandeep Janghu**, Charul Chaudhary (2024). Sensory Evaluation Techniques. In: Rahul Mehra, Arun Kumar Pandey, Raquel P.F. Guiné (ed.) Sensory Science Applications for Food Production. IGI Global, Pennsylvania, USA, Chapter 9, Page 177-196. eISBN- 9798369321225 DOI: 10.4018/979-8-3693-2121-8.ch009
- **Sandeep Janghu**, Vikas Kumar, Ashok Kumar Yadav (2024). Post-Harvest Management of Fruits and Vegetables. In: Prof. Marcello Iriti (ed.) Current Perspectives in Agriculture and Food Science Vol 7. BP International, Kolkata, West Bengal, India. Chapter 9, Page 125-148. Print ISBN: 978-81-970423-0-0, eBook ISBN: 978-81-970423-9-3. DOI: 10.9734/bpi/cpafs/v7/7984E
- Bandita Bagchi Banerjee, **Sandeep Janghu** (2022). Role of Food Microwave Drying in Hybrid Drying Technology. In: Jelena Jovanovic (ed.) A Comprehensive Review of the Versatile Dehydration Processes. (ISBN: 978-1-83768-141-9) IntechOpen Limited, London, United Kingdom. Page No. 1-15.
- Bandita Bagchi Banerjee, **Sandeep Janghu** (2022). Chapter 3: Basic Characterization of Essential Oil Recovered from Indigenous Assam Lemon's (*Citrus Limon* L. Burmf) Wasted Peel. In: S. Vignesh, N. Bhaskaran, V. Eyarkai Nambi and M. Logunathan; Sustainable Food Resource Management: Technological Interventions, Safety Aspects and Future Trends. (ISBN: 978-93-5570-533-4) AkiNik Publications, Rohini, New Delhi, India. Page No. 35-44.
- G. Mohan Naik, P. Vasantha Kumari, R. Jaganmohan, **Sandeep Janghu** and Asish Rawson (2019). Production Technology of Jackfruit Flour as a Functional Ingredient. In: Nandan Sit, Laxmikant S. Badwaik and Amit Baran Das (eds.) Innovations in Food Processing Technology. New India Publishing Agency, India, Chapter 18.

Popular Articles (06 Nos.)

- Bandita Bagchi Banerjee, **Sandeep Janghu** (2023). Scope of Bakery Industry in North East India. *Agriculture & Food: E-Newsletter*. Volume 5, Issue 1, Page 23-24. (WWW.AGRIFOODMAGAZINE.CO.IN) (E-ISSN-2581-8317) (Article ID: 40007).
- Bandita Bagchi Banerjee, Vikas Kumar, **Sandeep Janghu** (2022). Post Covid globalization prospects of health befitting Sub Himalayan minor fruits from Northeast India – A Review. *Indian Food Industry Magazine*. Vol 4, No 4, Jul-Aug 2022. Page 46-57.
- **Sandeep Janghu**, Bandita Bagchi Banerjee (2022). Scopes and opportunities in Agri-Processing in North East India. *Agriculture & Food: E-Newsletter*. Volume 4, Issue 1, Page 47-49. (WWW.AGRIFOODMAGAZINE.CO.IN) (E-ISSN-2581-8317) (Article ID: 35512).
- Bandita Bagchi Banerjee, **Sandeep Janghu** (2022). Prospects of Manipur as Agri-Business Hub. *Agriculture & Food: E-Newsletter*. Volume 4, Issue 9, Page 292-293. (WWW.AGRIFOODMAGAZINE.CO.IN) (E-ISSN-2581-8317) (Article ID: 38097).

- Tonmoy Hazarika, **Sandeep Janghu** (2021). Equipments involved in collection of Minor Forest Produce. Training of Master Trainers (ToMTs) – Handbook of Minor Forest Produce Processing under PMFME Scheme. Page 55-77.
- Upama Kalita, **Sandeep Janghu** (2021). Value Addition of Minor Forest Produce. Training of Master Trainers (ToMTs) – Handbook of Minor Forest Produce Processing under PMFME Scheme. Page 32-54.

Membership of Professional Bodies (02 Nos.)

- **Lifetime member** of Nutrition Society of India, National Institute of Nutrition, Hyderabad, INDIA.
- **Life member** of Association of Food Scientists & Technologists, India (**AFSTI**), CFTRI, Mysore. INDIA (Membership no: **AFST/LM/2-2019/TEZ/2924**).

Invited Talks/Paper Presented/Conference/Workshop etc. (46 Nos.)

- Delivered an Invited talk at the One-Days “Regional Seminar on Traditional Food Knowledge of NER: Strength & Opportunities.”, organized by Council for Promotion, Research & Trade in Traditional Foods (**CPRTTF**), New Delhi at K.K. Handique State Open University, Guwahati Assam on 8th May 2026
Title of the talk: Traditional Foods of Arunachal Pradesh and their health benefits.
- Delivered an Invited lead speaker talk at the Two-Days “International Conference on Modern Agriculture & Allied Sciences” (ICMAAS-2025), organized by Society of Agriculture, Allied Science & Technology (**SAAST**), Odisha on 20-21st December 2025.
Title of the talk: Financial & Technological Sourcing: Support for Entrepreneurship Development in the Food Processing Sector
- Paper presented in “National Seminar on Emerging Issues on Economic Prosperity and Sustainability”, organized by Department of Economics, IQAC, Jhanji Hemanth Sarma College, Sivasagar during 29-30th April 2025.
Title of the talk: Formulation and optimization of spray dried assam lemon powder for sustainable beverage preservation.
- Delivered a Chief Guest Address during 1st International Conference on Emerging Technologies in Agriculture and Allied Sciences (**ETAAS**)-2024 organized by Society of Agriculture, Allied Science & Technology (**SAAST**), Odisha on 10-11th August 2024.
- Delivered invited talk on 19th March 2024 during “North East Food Processors Meet” Jointly organized by Indian Chamber of Commerce (ICC) and Ministry of Food Processing Industries (MoFPI), Govt. of India during 19th March 2024 at DK Convention Hall, Itanagar, Arunachal Pradesh.
Title of talk: Recent Technological Advances and Funding Opportunities in Food Processing Sector.

- Paper presented in “National Seminar Management Practices for Sustainable Development Goals”, organized by Center of Management Studies, Dibrugarh University during 15-16th February 2024.

Title of the talk: Development of spray drier assam lemon powder as ready to serve drink towards sustainable market opportunities.

- Invited (virtual) talk delivered during 5 days (5 to 8 & 15th February 2024) Training of Master Trainers on “Minor Forest Produce Processing” under Prime Minister – Formalization of Micro Food Processing Enterprise (PM-FME) scheme Ministry of Food Processing Industries, Govt. of India. Organized by National Institute of Food Technology, Entrepreneurship & Management (NIFTEM)- Thanjavur on 15th February 2024.

Title of talk: Processing & Value Addition of Minor Forest Produce.

- Delivered invited talk and panel discussion on 04th November 2023 during “World Food India 2023” Organized by Ministry of Food Processing Industries, Govt. of India. at Pragati Maidan, New Delhi from 3rd to 5th November 2023.

Title of talk: Funding Opportunities in Food Processing Sector.

- Delivered invited talk during ODOP Webinar on “Honey Processing and Value Addition” organized by National Institute of Food Technology, Entrepreneurship & Management (NIFTEM)- Thanjavur on 20th October 2023.

Title of talk: Processing and Value-Added Products from Honey

- Delivered invited talk on 01st October 2023 during International Level Mega Exhibition “PROPACK ODISHA 2023” Organized by Odisha Assembly of Small & Medium Enterprises (OASME) from 29th September to 02nd October 2023.

Title of talk: Recent Technological Advances and Funding Opportunities in Food Processing Sector.

- Delivered invited talk in Skill Faculty of Agriculture, Shri Vishwakarma Skill University, Haryana during 18th September 2023.

Title of talk: Honey as a functional food.

- Delivered invited talk during Interactive meeting on technology application research and demonstration on 15th – 16th September 2023 Organized by ICAR-Agricultural Technology Application Research Institute, Zone-IV Guwahati, Assam at Conference Hall, Directorate of Agriculture, Itanagar, Arunachal Pradesh.

Title of talk: Recent Technology Applications and Frontline Demonstration in Food Processing.

- Delivered invited talk as Keynote speaker during “3rd International Convention on Green Environment, Technology & Entrepreneurship through innovation – ICGETEI-2023” organized by Amity University, Jaipur, Rajasthan during 9th -11th August 2023.

Title of talk: Government Initiatives and Entrepreneurship opportunities in Food Processing Sector.

- Invited (virtual) talk delivered on “PM-FME scheme highlights” during one day PM-FME scheme of MoFPI-Awareness program for Arunachal Pradesh state FPO's on 16th May 2023.

- Delivered an Invited talk on “Technological Interventions in Food Processing Sector” during GoA-IIT-G, IndiGlobal Bharat Summit-2023 organized by Govt. of Assam- IIT-Guwahati at IIT-Guwahati on 27-28th February 2023.
- Delivered a talk on “Career opportunities in Food Processing Industries” during visit of BSc. Food Nutrition & Dietetics students from CAU College of Community Sciences, Tura at NIFTEM-T, Liaison Office, Guwahati on 20th February 2023.
- Presented invited talk over “Opportunities in Food Processing Sector” during state level one day workshop organized by ARIAS Society during 30th January 2023 at Conference Hall, ARIAS Society, Guwahati.
- Delivered invited talk during 40th Foundation Day celebration of NERAMAC organized by NERAMAC on 31st March 2022.

Title of talk: Potentiality of Agri-Horti sector in North East, Innovative technologies in food processing and funding/credit linkages on food processing sector

- Invited lecture delivered during Training on Production, preservation and value addition of spices and condiments organized by State Agricultural Management & Extension Training Institute (SAMETI), Directorate of Agriculture, ASSAM on 21st March 2022.

Title of talk: Processing of Spices & Condiments, Major & Minor spices

- Delivered talk during Emerging North East-2022 organized by ASSOCHAM on 02nd March 2022.

Title of talk: Mushroom cultivation and value addition

- Invited lecture delivered during Women Entrepreneurship Development Program (WEDP) organized by National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science & Technology (DST), Ministry of Science & Technology, Govt. of India on 14th March 2022.

Title of talk: Potential sector having “NER Advantage” - Food Processing and Value chain development

- Delivered talk during Technical Session on S&T innovations to provide livelihood opportunities in the NE solution on Agriculture & Food Processing organized by North East Centre for Technology Application & research (NECTAR), DST, govt. of India on 21st December 2021.

Title of talk: About Food Processing in NER, IIFPT/MoFPI Schemes

- Invited lecture delivered during Entrepreneurship Development training program for spice export from NER organized by Spice Board of India, Regional Office, Guwahati on 01st December 2021.

Title of talk: Spice processing technology, schemes under MoFPI

- Invited talk delivered during Good Agricultural Marketing Practices organized by Assam Rural Infrastructure Agricultural Services (ARIAS) Society on 30th November 2021.

Title of talk: Quality improvement of agri-produce through processing

- Delivered an invited talk during Awareness program on Food Technology organized by Department of Food Technology, Guru Jambheshwer University of Sc & Technology on 11th November 2021.

Title of talk: MoFPI schemes focused on the Food Processing Sector

- Delivered an invited lecture during National Training Program organized by National Corporative Development Corporation (NCDC) – LINAC on 12th October 2021.

Title of talk: Honey uses, processing & its economic importance

- Invited lecture delivered during Online Entrepreneurship Development Program organized by Spice Board of India, Regional Office, Guwahati on 10th March 2021.

Title of talk: Spice Processing technology & Schemes by MOFPI for North Eastern Region.

- Delivered an invited lecture during webinar on Dietary diversification for better Nutrition organized by NetProFan North East Chapter, Guwahati on 25th September 2021.

Title of talk: Dietary diversification need of the hour

- Invited talk delivered during Converging towards a healthy walk through life organized by Network of Professionals of Food & Nutrition in India, NE Chapter on 25th September 2021.

Title of talk: Dietary Diversification- Need of the Hour

- Invited lecture delivered during National Level Stakeholders Meet organized by North Eastern development Finance Corporation Ltd. (NEDFI), Guwahati, Assam on 17th November 2020.

Title of talk: Role of IIFPT in Food Processing for North East Region: Gaps/Challenges in Value chain in Horticulture in NER

- Delivered invited lecture during National Organic Food Festival-2020, New Delhi organized by Ministry of Food Processing Industries, GOI & CII on 21st February 2020.

Title of the talk: Post-Harvest Management & Value Addition

- Invited lecture delivered during Food Processing Summit-2020, LADAKH organized by Invest India Group on 16th January 2020.

Title of lecture: Scaling up the production of UT and Technologies developed for commercialization by IIFPT

- Delivered invited lecture during Industry Interactive Meet on Tea, Sericulture & Food Processing, Agartala, TRIPURA organized by Confederation of Indian Industry (CII) on 7th December 2018.

Title of talk: Emerging Trends in the food processing sector & scope for development in NE

- Invited talk delivered during Extension approaches for mainstreaming farm women and popularizing gender friendly tools & approaches, Jorhat, ASSAM organized by EEI- NER on 23rd August 2018.

Title of the lecture: Gender Friendly Technologies in Food Processing

- Invited talk delivered during Technology Assistance to Food Processing on Food Preservation and Hygiene packaging, Bhubaneswar, ODISHA organized by Odisha Assembly of Small & Medium Enterprise (OASME) on 12th August 2018.

Title of the talk: Export Scopes of Processed Food from North east

- Delivered an invited talk during Food Processing Conclave 2018, Gangtok, SIKKIM organized by Indian Chamber of Commerce (ICC) on 23rd April 2018.

Title of talk: Food Processing: Sector of Opportunities

- Lecture delivered during North East Food Pro 2018, Aizawl, MIZORAM organized by Indian Chamber of Commerce (ICC) on 13th March 2018.

Title of the talk: Technological Advancement and Opportunities in Food Processing

- Delivered an invited talk during North East Food Pro 2018, Shillong, MEGHALAYA organized by Indian Chamber of Commerce (ICC) on 8th March 2018.

Title of the talk: Technological Advancement and Opportunities in Food Processing

- Delivered an invited lecture in North East Food Pro 2018, Guwahati, ASSAM organized by Indian Chamber of Commerce (ICC) on 6th March 2018.

Title of the talk: Technological Advancement and Opportunities in Food Processing

- Invited lecture delivered during Emerging North East 2018, Guwahati, Assam organized by ASSOCHAM on 5th March 2018.

Title of the talk: Food Processing and Value Addition Opportunities in NE

- Invited lecture delivered in 6th AGRO PROTECH 2018, Kolkata, West Bengal organized by Indian Chamber of Commerce (ICC) on 14th February 2018.

Title of the talk: Food Processing: Scopes and Opportunities.

- Delivered an invited talk during Awareness Program & investors meet on Food Processing, Kohima, NAGALAND organized by North East Regional Agricultural Marketing Corporation (NERAMAC) on 25th January 2018.

Title of the talk: Food Processing potential and its benefits for the farmers and entrepreneurs of Nagaland state.

- Delivered an invited talk during ALFINFOODTECH SUMMIT 2017, Bhubaneswar, ODISHA organized by Odisha Assembly of Small & Medium Enterprise (OASME) on 12th August 2017.

Title of the talk: Export opportunities for agro-based food products from Odisha and NE

- Delivered an invited talk in workshop on “Bamboo shoot processing technology”, organized by Cane & Bamboo Technology Centre (CBTC), Guwahati on 5th July 2017.

Title of the talk: Importance of hygiene in food processing.

- Paper presented in “International Conference on Agriculture and Biotechnology” (ICABT), organized by IRAJ Research Forum, Chennai, Tamil Nadu on 30th Oct. 2016.

Title of the talk: Development and Acceptance Analysis of Mixed Fruit Pomace Fortified High-Fiber Biscuits.

- Paper presented in “First International conference on Food, Nutrition and Health” (ICFNH-2016), organized by Indian Dietetic Association & Deptt of Food & Nutrition Research centre, Thassim Beevi Abdul Kader college for Women Kilalarai, Tamil Nadu on 7th June 2016.

Title of the talk: Power ultrasound process optimization for treatment of raw honey.

Course/Conference/Workshop organized (24 Nos.)

- Jointly Organised 2 days Conference on IDEAS for Viksit Bharat@2047: Innovation, Digitalization & Entrepreneurship in Agriculture and Sciences on 12-13 March 2026 at Sam Higginbottom University of Agriculture, Technology and Sciences, Prayagraj, UP.
- Organised one day National Seminar on “Integrating Traditional and Emerging Technologies for Sustainable Future Foods” on 7th November 2025 at Department of Food Technology, Rajiv Gandhi University, Rono Hills, Doimukh, Itanagar.
- Organised 2 days “National Conference on Agriculture, Environment and Sustainable Development” (NCAESD 2025) on 10-11 March 2025 at Rajiv Gandhi University, Rono Hills, Doimukh, Itanagar.
- One Week International Training cum Workshop on Application of MATLAB, SPSS and R Programming in Agriculture and Allied Sciences Jointly Organised by Society of Agriculture, Allied Sciences & Technology (SAAST), Odisha and Faculty of Agricultural Sciences, Rajiv Gandhi University, Rono Hills, Doimukh, Itanagar during 24th to 30th November 2024 in virtual mode.
- Organised one day workshop on “World food Day 2024: Right to Foods for a Better Life and Better Future” on 21st October 2024 at Rajiv Gandhi University, Rono Hills, Doimukh, Itanagar.
- Organised 2 days Workshop on “Artificial Intelligence (AI) as Emerging Tool for Agriculture” on 27-29 August 2024 at Rajiv Gandhi University, Rono Hills, Doimukh, Itanagar.
- Organised 2 days “International Conference on Agriculture, Environment and Sustainable Development” (ICAESD-2024) on 20-21st March 2024 at Rajiv Gandhi University, Rono Hills, Doimukh, Itanagar.
- Organized 1 day online awareness program on “GI & Local Food Products of Arunachal Pradesh” on 09th November 2023 at Department of Food technology, Rajiv Gandhi University, Rono Hills, Doimukh, Itanagar.
- Organized 1 day workshop on “Water is life, water is food, leave no one behind” during World Food Day 2023 celebration on 16th October 2023 at Department of Food technology, Rajiv Gandhi University, Rono Hills, Doimukh, Itanagar.

- Organized 1 day webinar on “Entrepreneurial Opportunities in Functional Food and Nutraceutical Sector” on 28th July 2023 at Department of Food technology, Rajiv Gandhi University, Rono Hills, Doimukh, Itanagar
- Organized 1 day webinar on “Role of Food Technology in Meeting Skills and Entrepreneurial Needs as Per NEP 2020” on 28th July 2023 at Department of Food technology, Rajiv Gandhi University, Rono Hills, Doimukh, Itanagar.
- Organized 2 days short course on bakery and US Blueberries in collaboration with Assocom Institute of bakery technology & Management (AIBTM), Noida during 29-30th August 2022 at NIFTEM-T, Liaison Office, Guwahati.
- Organized 5 days workshop on “Processing & Marketing skill development in food processing in food processing sector” in collaboration with Sishabari Mahila Udyog Farmers Group during 22nd – 26th August 2022 at Hotel Vinayak, Siliguri, West Bengal.
- Organized 1 day workshop (virtual mode) on “Post Harvest Processing and Value Addition of Different Spices” on 17th August 2022 at Liaison Office, Guwahati, NIFTEM-Thanjavur.
- Organized 1 day workshop (virtual mode) on “Processing of Milk & Milk Products” on 28th July 2022 at Liaison Office, Guwahati, NIFTEM-Thanjavur.
- Organized One day workshop on “Food Quality and Safety Management for Export of Processed Food Products from NER” jointly organized by IIFPT-Central Agricultural University –APEDA on 26th March 2021 at College of Agriculture, CAU, Iroisemba, Imphal, Manipur.
- Organized One Day Workshop on “Food Processing Entrepreneurship Development and Export Promotion in Tripura” jointly organized by IIFPT-College of Agriculture, Tripura –APEDA on 6th March 2021 at Pragna Bhawan, Agartala, Tripura.
- Organized One Day Workshop on “Food Quality and Safety Management for Export of Processed Food Products from NER” jointly organized by IIFPT with APEDA on 21 Feb 2021 at Hotel Natraj Dibrugarh.
- Organized One Day Workshop on “Food Quality and Safety Management for Export of Processed Foods from NER” jointly organized by IIFPT-APEDA-USTM on 17 Feb 2021 at USTM Meghalaya Campus.
- One day workshop organized on Bakery Technology Liaison Office, Bathinda, Indian Institute of Food Processing Technology on 28th February 2019.
- Organizing member for International Conference on “Food Security, Nutrition and Sustainable Agriculture- Emerging Technologies” Jointly organized with Baba Farid Group of Institutions, Bathinda on 14-16th February 2019.
- Organizing member for One-day workshop on “Opportunities in Food Processing” at Jeet Palace, Bathinda on 27th February 2018.
- Organizing member for National Seminar on “Recent Trends in Food Processing” Jointly organized by Indian Institute of Crop Processing Technology, Thanjavur & Central University, Bathinda at Central University, Bathinda on 09th December 2016.

- Organizing member for National Seminar on “Whole Grain for Healthy Life” on 16th October 2015 at Indian Institute of Crop Processing Technology, Thanjavur.

Additional Roles & Responsibilities etc.

- Nominated member of Technical Committee (TC) for Creation and Expansion of Food Processing and Preservation capacities (CEFPPC) scheme under the PM Kisan Sampada Yojana from June 2018 to Till Date and attended more than 50 meetings held on monthly basis since June 2018 to May 2023 at MoFPI, New Delhi, intotal reviewed more than 1000 project proposals/ DPRs on Food processing.
- Nominated member for Technical Committee (TC) for Agro Processing Cluster (APC) scheme under the PM Kisan Sampada Yojana from February 2019 to 2023 and attended more than 30 meetings held on monthly basis since February 2019 at MoFPI, New Delhi and reviewed more than 500 project proposals/ DPRs submitted for grant under the scheme.
- Nominated member for Scrutiny Committee (SC) for Scheme of Human Resource and Institution- Skill Development (SHRISD) under the PM Kisan Sampada Yojana from January 2019 to 2023 and attended more than 20 meetings held at MoFPI, New Delhi and reviewed more than 150 project proposals/ DPRs for establishment of Skill development Centers under the scheme.
- Nominated member for drafting the scheme guidelines for “Mission organic value chain development for North eastern region” (MOVCD-NER) scheme of Ministry of Agriculture & Farmers welfare, GOI and being a technical Expert in Subsidy Sanctioning committee reviewed numerous project proposals (DPRs) for establishing Post harvest management/ Food Processing systems in various states of North East under the said scheme, jointly with NEDFI, Guwahati since June 2018 to May 2023.
- Member in the committee for Revival of North Eastern Regional Agricultural Marketing Corporation Ltd. (NERAMAC) done by NEDFI, Guwahati for Ministry of DoNER.
- Member of Committee for Fixation & Finalization of Cost Norms for Infrastructure and Processing Facilities in all schemes under PM Kisan Sampada Yojana of Ministry of Food Processing Industries, New Dellhi and attended several meetings at NIFTEM, Kundli and provided inputs for finalizing the cost norms for processing facilities for several products for the schemes.
- Active Member in the Committee constituted by IIFPT for looking after formulization and implementation of Ministry of Food Processing Industries, Govt. of India New Scheme under Aatm Nirbhar Bharat program “Formulization of Micro Food Enterprises (PM-FME)” launched by Hon’ble Minister Food Processing Industries on 29th June 2020.
- Nominated member for two Techno Scrutiny committee (TSC) meetings for setting up/ Upgradation of Food safety and quality assurance infrastructure scheme under PM Kisan Sampada Yojana held on 21st December 2018 and 18th June 2019 at MoFPI, New Delhi to scrutinize the application received under the said scheme.
- Representative on behalf of IIFPT and given presentation in front of Parliamentary Standing committee on Commerce held between 16-20th

November 2018 on Subject: Export of Organic Products: Challenges and opportunities. Held at Gangtok, Sikkim.

- Member in the meeting to reformulate Mithai and Namkeen to reduce sugar and salt consumption, organized by FSSAI in FSSAI HQ, New Delhi on 11th February 2020.
- Attended meeting on Cost Norms for Tomato, onion and potato (TOP) crop based processing facilities under operation green Scheme of MoFPI. Held on 6th August 2019 at MoFPI, New Delhi.
- Organized Workshops on Food Quality and Safety Management for export of Processed Foods at North East. Events organized at Guwahati, ASSAM & Kohima, NAGALAND sponsored by Ministry of Food Processing Industries, Govt of India & APEDA during 2016-2017.
- Served as Nominated MEMBER, ADVISORY BOARD, University of science and Technology, Meghalaya (USTM) – NewGEN IEDC. (Letter no-USTM/NGIEDC/2018-03 Dated 8th February 2018).
- Panel Member in the interview of Value chain development specialist for the project coordination unit (PCU) under the world bank financed Agri-Business and Rural Transformation Project (APART) on 8th August 2018.
- Established a Food Testing laboratory, Regional Centre, IIFPT, Guwahati and expansion of pre-existing Food Processing Business incubation centre during 2017 to 2019 with the funding amount of Rs. 14.21 Crore received from Ministry of Food Processing Industries, Govt of India in the FY 2017-18.
- Established a skill development Centre for PMKVY for 4 different job roles of Spice processing, Grain Milling, Bakery technology and Laboratory Technician with the amount of 1.56 Cr (50% grant received from MOFPI, under SHRISD Scheme).
