



STARTUP
INCUBATION AND
INNOVATION
CENTRE
IIT KANPUR

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June 2024

TECHकी बात

Innovate for a Greener Tomorrow!



www.siicincubator.com

Mentor Mantra



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POST-HARVEST LOSSES IN INDIA: INNOVATING OPPORTUNITIES

Despite being the world's largest agricultural economy, India faces a critical challenge: substantial post-harvest losses. These losses impact not just the efficiency and output of the sector, but also national food security and farmer income. Herein lies a hidden opportunity. By tackling post-harvest losses, India can unlock significant potential – from boosting farmers' economic returns to fostering sustainable practices.

There are two main types of post-harvest losses: quantitative and qualitative. Quantitative losses refer to the physical reduction in the amount of crops harvested. Qualitative losses, on the other hand, encompass the decline in the quality, nutritional value, taste, and appearance of produce, often due to factors like excess moisture and mold growth. This calls for innovative solutions that address both aspects of the problem.

KEY POINTS:

- ✓ Physical degradation and decomposition undermine the marketability and consumer acceptability of the product.
- ✓ The losses can range from inadequate infrastructure to environmental conditions, requiring a multifaceted approach to resolution.
- ✓ The young innovators can engage deeply with the challenges, leveraging technology and innovative thinking to create impactful changes.
- ✓ The solutions developed could range from advanced predictive analytics to more effective packaging solutions.

Thus, embracing new technologies and innovative solutions can enhance farm efficiencies, reduce waste, and significantly contribute to national food security, leveraging this potential to transform India's agricultural landscape for a more sustainable future.



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NEW INCUBATION

New startups with novel and innovative technologies have been incubated at SIIC, IIT Kanpur during June. Read on to learn about the startups.

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Learn about some outstanding accomplishments in the various program verticals that are currently up and running at SIIC, IIT Kanpur.

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SUCCESS STORIES

Know more about the inspiring startups that have elevated our incubation ecosystem with their remarkable accomplishments on a national scale.

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INNOVATORS SE BAAT

Discover the unique and advanced technologies that are currently being incubated at SIIC, IIT Kanpur.

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UPCOMING GRANTS/ EVENTS/ WORKSHOPS

Explore upcoming grants, events, and workshops scheduled for July at SIIC.

Refer to the section for more details.

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New Incubation

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Nitrodynamics Aerospace and Defense Pvt. Ltd. was founded by Anupam Prasad, Rekha Prasad, and Awadh Kishore Prasad. The company specializes in drones, anti-drone systems, electronic warfare, military rugged computing, and simulators.



Prodos Instrumentations Private Limited was founded by the dynamic duo of Balakrishnan Nithin and Balakrishnan Kavitha. This innovative startup specializes in the manufacturing of cutting-edge biomedical devices.



Susnovation Ventures Private Limited, founded by Garima Capoor Nanda, and Sumat Nanda, is working to accelerate the shift of global consumers towards more sustainable choices while enabling them to reduce their carbon footprint without compromising on the design and quality of the products they use.



Recyteq Naturals Private Limited, founded by Ritik Srivastava and Pushpa Srivastava, focuses on producing sustainable nitrogen biofertilizer from natural sources.

Program

HIGHLIGHTS



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On May 20, Ms. Shreya Sanghvi Malik visited the BIRAC E-Yuva Centre at Career College Bhopal and IISER Bhopal for the Biotechnology Ignition Grant (BIG) campaign. The session offered insights into the grant application process, including timelines, procedures, and steps to becoming a grantee. It also highlighted SIIC IIT Kanpur's role as a BIG partner and addressed attendees' questions about grant opportunities.

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SIIC, IIT Kanpur hosted a "Chai Pe Charcha" session on May 21 with Dr. Gaurav Singh, a healthcare expert. The event provided startups Biostim Innovations, PreDoc.ai, and Primary Healthtech with valuable industry insights and regulatory guidance for commercialization. This event paved the way for future growth and collaboration

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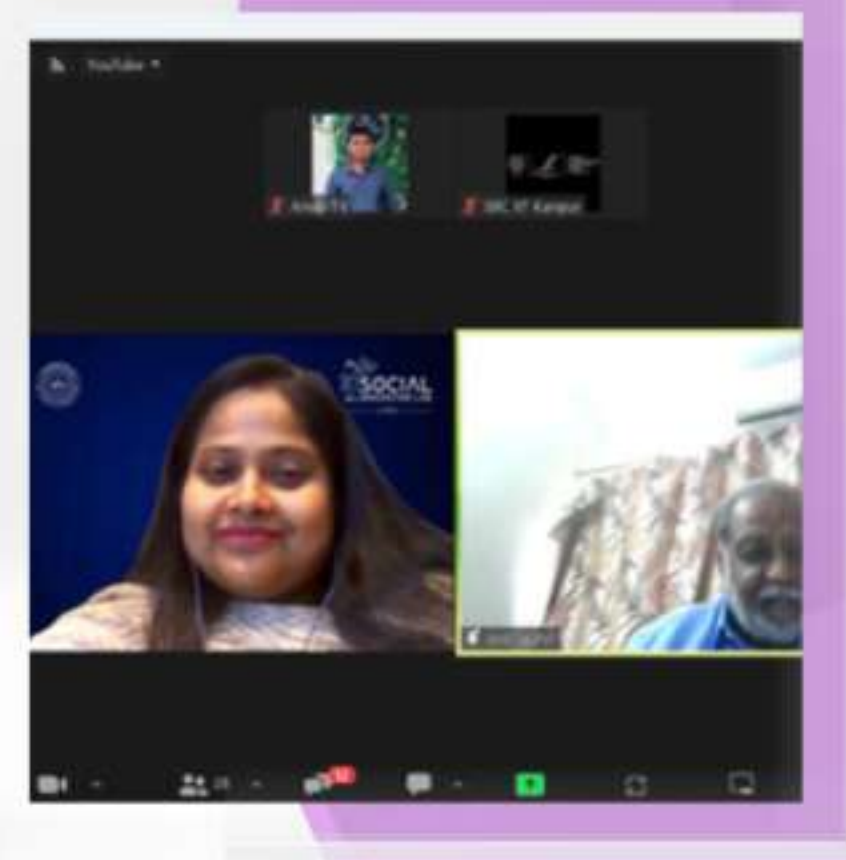
On May 22, officials from SIIC, IIT Kanpur, met with representatives from Merck Life Sciences Private Limited to discuss potential collaborative opportunities. The discussion focused on healthcare innovation, biomanufacturing, and skill development & entrepreneurship in bioscience. This potential partnership leverages SIIC's expertise in nurturing healthcare-focused startups alongside Merck's industry leadership.

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The Social Innovation Lab by Citi hosted an engaging webinar on May 24. The speaker, Mr. Anil Jauhri, discussed the benefits of certifications, including credibility, market access, and regulatory compliance. The session guided the certification process and selected the right certification for industry needs.

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Program HIGHLIGHTS



On World Menstrual Hygiene Day (May 28), Mild Cares, supported by IIT Kanpur's SIIC, distributed GynoCup Menstrual Cups in Aminabad Urf Baragoan, making it Uttar Pradesh's first "sanitary pad-free village." GynoCup offers a reusable, eco-friendly alternative to pads, promoting better menstrual health and reducing infection risks.

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The AIIDE Centre of Excellence, supported by SIIC IIT Kanpur, StartinUP Uttar Pradesh, and FICCI, concluded its Investor Connect program in Noida on May 30. Committed to nurturing 250 AI/ML startups in five years, AIIDE CoE's Dr. Nikhil Agarwal and Rahul Kumar Tiwari facilitated pitching sessions for the third cohort, forging connections with investors and key stakeholders.

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On May 31, SIIC, IIT Kanpur, in partnership with the Drone Federation of India, announced the launch of UDAAN: UAV/UAS/Drone Acceleration and Networking Program. The Government of Uttar Pradesh supports this initiative to build an interdisciplinary ecosystem for UAV technology. Selected startups will access state-of-the-art facilities, expert mentorship, and exclusive resources at the Center of Excellence for Capacity Building, Training, and Design of Unmanned Aerial Vehicles.

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SIIC, IIT Kanpur, successfully concluded the summer edition of its "Biotechnology Industrial Training Program 2024" for Fergusson College, Pune students. The intensive 20-day program, from May 14th to June 4th, equipped participants with practical skills in biotech equipment usage, bacterial culture techniques, DNA analysis, and entrepreneurship insights from SIIC IITK-incubated startups.

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Program

HIGHLIGHTS



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On June 10, Healthcare Innovation and Ideation Program Fellows wrapped up a week of intensive clinical immersion at Sree Chitra Tirunal Institute. Fellows observed practices, engaged with professionals, and identified challenges faced by clinicians and patients. This 3-week program culminates in developing a prototype solution to address these issues, improving clinical efficacy and patient outcomes. The iterative process will ensure a practical and innovative solution for real-world implementation.

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SIIC hosted Maj Gen Vikas Lakhera, AVSM, SM, ADG MO (IW), Brig JN Bhatt, VSM, Cdr, Army Cyber Group, Brig NP Singh, Brig MISO, and other esteemed delegates from the Indian Army during their visit to IIT Kanpur on June 14th. They engaged in discussions about the startups in the cybersecurity, aerospace, and defence sectors. Some startups showcased their innovative solutions and received commendable feedback from our distinguished guests.

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The SIB SHiNE fellows discussed their problem statements with the clinical experts at KGMU, Lucknow under the SIB SHiNE Biodesign Program. The invaluable guidance from the doctors will help them finalize the problem statement about their future work at IIT Kanpur.





YOURNEST VENTURE CAPITAL

Incubated at IIT Kanpur's Noida Extension Centre, launched a new deep tech accelerator program in collaboration with SanchiConnect, "Velocity: Fast Track Startup Funding," with SIIC IITK as an ecosystem partner. This interaction brought together promising startups with Monika Pande from YourNest and Pushpendra Vishal Kaushal from SanchiConnect, fostering connections for potential investment and growth.

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PACING GRASS

secured first place in the SIDBI Cluster Intervention Program under the Indo-Israel Agritech Co-Incubation Program, specializing in sustainability through bio-composite materials from bamboo and agricultural residue. KPMC organized the event in collaboration with the Embassy of Israel in India. This recognition highlights their innovative approach to sustainable technology.

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CYBER3RA

has won the Best Startup Award by Startup Jharkhand for their innovative cybersecurity bug bounty platform.

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AGRONXT

participated in the "Impact Harvest Forum" at the United Nations Conference Centre (UNCC) in Bangkok, Thailand. The event was inaugurated by H.E. Ms. Armida Salsiah Alisjahbana, Under-Secretary-General of the United Nations and Executive Secretary of the United Nations ESCAP.

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LIFE N LIMB

was showcased by ASME (The American Society of Mechanical Engineers), as part of their efforts to support ISHOW alumni winners, and for their commitment to innovation and excellence in prosthetic technology.

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SAMAK TECHNOLOGIES

signed a Memorandum of Understanding with Lovely Professional University on June 11 to collaborate with dairy farmers in the Punjab region. The Vice-Chancellor, the Dean, the Associate Dean of Agriculture, and other dignitaries attended the signing ceremony. The event featured lectures on entrepreneurship for final-year agriculture students and included a meeting with 40 progressive farmers in Phagwara, Punjab.

TECHकी बात

INNOVATOR KE SATH

Innovators SE BAAT



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SUNSYNC TECHNOLOGIES

This month's Innovator se baat features Rahul Gupta, the visionary CEO behind Sunsync Technologies Pvt. Ltd., a groundbreaking startup making waves in the solar energy sector. Sunsync specializes in developing affordable, single and dual-axis solar trackers that maximize electricity generation from sunlight. Since 2019, Mr. Gupta and his dedicated team have meticulously crafted these innovative trackers. In this interview, he sheds light on the unique functionalities and vast commercial applications of Sunsync's solar tracking technology.

SIIC: How do solar trackers work?

Rahul Gupta (RG): As the name suggests - Sunsync, (in sync with the sun), our solar trackers enable any solar panel to act like a sunflower and to automatically follow the sun's movement throughout the day, maximizing sunlight capture. This translates to significantly increased energy generation from each panel.

SIIC: How do your trackers benefit various sectors?

RG: We offer customizable solar tracking solutions for diverse applications, from residential rooftops to industrial megawatt (MW) solar farms. Our cutting-edge single and dual axis trackers are not only revolutionizing the industry with their effectiveness, but are also readily available and cost-competitive. Industry leaders trust Sunsync for our high-performance, low-maintenance trackers, designed to maximize your solar energy output and ensure long-term reliability.

SIIC: What are your plans to expand your startups?

RG: Since patenting our technology in 2022, Sunsync operates from Kanpur and Nasik. Our single & dual axis trackers for solar panels and concentrators work on any surface, perfect for both residential and large-scale applications across India. We're thrilled by the growing adoption of solar energy for a cleaner future.

SIIC: How are the government schemes beneficial?

RG: Fueled by government initiatives like PM Suryadhar Yojana and Kusum, which raised awareness of solar energy and empowered farmers with solar irrigation pumps, Sunsync steps in to maximize the potential of this clean energy source. Our innovative solar trackers ensure each panel captures the most sunlight possible, harnessing the world's largest source of clean energy.

“Track the sun, harness the power”

..... Rahul Gupta

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Upcoming

GRANTS/EVENTS/WORKSHOPS

July 22 2024
Bioinnovation Program



The banner features logos for IIT Kanpur, Incubation and Innovation Centre, Blockchain for Impact, and BFI Biome Network. The main text reads: 'BioInnovation Program APPLICATIONS OPEN For MedTech Innovators Apply Before: 22 JULY'. A QR code is present with the text 'Apply Now' and the URL 'siicincubator.com/programs/programs_bfi.php'. Below the banner, two boxes describe the programs: 'BFI-BIOME & IIT KANPUR BIOINNOVATION FELLOWSHIP' (Upto INR 50k per month, Individual innovators, Duration: 6-9 months) and 'BFI-BIOME & IIT KANPUR KICKSTARTER INITIATIVE' (Support upto INR 10 lakhs, For Biomedical startups). A 'Focus Domains' section lists Medical Devices, Surgical Tools, and Diagnostics. A 'Contact Us' section lists Dr. Arjit Bhattacharjee and Mr. Prabir Tewari with their email addresses.

BFI-BIOME & IIT KANPUR BIOINNOVATION FELLOWSHIP

- Upto INR 50k per month
- Individual innovators
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BFI-BIOME & IIT KANPUR KICKSTARTER INITIATIVE

- Support upto INR 10 lakhs
- For Biomedical startups

Focus Domains

- Medical Devices
- Surgical Tools
- Diagnostics

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