



### Report of the activities performed

- List of MSMEs of Tinsukia, Dibrugarh, and Golaghat districts were collected for future interaction.
- Technology Enabling Center organized a series of workshop on "**Innovation Ecosystem in Academic Institutions**" in five different Colleges [Gargaon College, Pub Kamrup College, B Borooah College, North Lakhimpur College, Biswanath College] of Assam to help develop an Innovative ecosystem in the North East region and to sensitize the youth about innovative thinking, along with providing expert assistance on how to materialize their innovative ideas. The Workshops were attended by students and faculty from these and the nearby colleges. The first day of the Workshop began with interactive lectures by experts, followed by an Interactive Success Story Session. Innovative Idea Competition was organized on Day 2.
- The Workshop at **Gargaon College**, District Sivasagar, Assam was organized on 9/02/2022 & 10/02/2022. A total of 155 participants attended on the first day. Technical session on Day 1 featured three lectures. **Prof. Partha P. Dutta** of Dept. of Mechanical Engineering, Tezpur University delivered the first lecture online on the topic "**Innovation ambience in academic institutions**". **Dr. Surajit Konwer** of Dept. of Chemistry, Dibrugarh University delivered the second lecture where he highlighted the various concerns and ongoing research related to water contamination, its purification and methods of Arsenic and Fluoride removal from drinking water. **Dr. Dipak Nath**, Project Officer, Sericulture Department, Assam delivered the third lecture. He talked about how sericulture is an unexplored field in Assam, while highlighting various fields in the area of sericulture in Assam that are in need of upgrading and technology development. In the Interactive Success Story Session, **Mr. Nilutpal Gogoi** talked about his father, **Mr. Durlav Gogoi's** journey as an innovator. On the second day, Innovative Idea Competition was organized in which 18 teams participated.



- The Workshop at Pub Kamrup College, Baihata Chariali, Assam was organized on 9<sup>th</sup> & 10<sup>th</sup> March 2022. A total of 85 participants attended on the first day. Two lectures were delivered in the Technical session on Day 1. **Dr. Sheikh Mustafa Kamal** of Dept. of Mechanical Engineering, Tezpur University delivered the first lecture on the topic "**Innovation ambience in academic institutions**". Next, **Prof. Pritam Deb**, DPIIT Chair Professor, IPRC Cell, Tezpur University talked on the topic "**Technology Commercialization in Present Context / IP right and Technology Transfers**". **Mr. Pranab Jyoti Sharma** [Chief Mentor, **Xomidhan Axom Pvt. Ltd**], **Mr. Pranjal Das** [Managing Director, **Xomidhan Axom Pvt.Ltd**] and **Kuldeep Nath** [A local Entrepreneur] talked about their journey as an entrepreneur in the Success Story Session. **Mr. Neelam Dutta** [M.D. & Founder of **Pabhoi Greens**] delivered a lecture on his work and challenges as an entrepreneur on the second day. Thereafter, the Innovative Idea Competition was organised in which 19 teams participated.



### Highlights

#### Innovator Mr. Durlov Gogoi

Durlov Gogoi (51), a serial innovator has developed many tea processing machines, which includes mini tea steamer, round tea dryer, reciprocating tea dryer, semi-automatic tea dryer, turmeric slicing machine, tea breaker, etc. The reciprocating tea dryer developed by him is also called as a push-pull tea dryer/to-fro tea dryer. Slider crank mechanism is used for the reciprocating motion of the drying trays. The drying capacity of the dryer with 14 plates is about 20-30 kg (wet weight) resulting in about 6 kg (dry weight) dried tea leaves in 40 min. The drying temperature can be maintained up to 100°C.

The idea of a fertilizer sprayer machine presented by Ankur Gogoi and Aparajita Baruah at Gargaon College in the Idea Competition won the first prize. Their work aims at developing a "multi nozzle, multi pump wheel driven pull type sprayer" which will perform spraying at maximum rate in minimum time.

The idea of electricity generation, producing organic fertilizer, animal feed, dish, hardboard, etc from Taro plant (*Colocasia esculenta*) presented by Priyom Jyoti Das, Salima Begum, and Sajina Begum of Puthimari H.S. School in the Idea Competition at Pub Kamrup College won the first prize.

- The Workshop at B. Borooah College, Guwahati, Assam was organized on 11<sup>th</sup> & 12<sup>th</sup> March 2022. A total of 64 participants attended on Day 1. Three lectures were delivered in the Technical Session. **Dr. Kamal Uddin Ahamad** of Dept. of Civil Engineering, Tezpur University delivered the first lecture on the topic “**Innovation ambience in academic institutions**”. **Aitra Bhowmick**, Head of Program & Investment, NE region of **Sangam Venture** enlightened the students on specific aspects of idea pitching and the investment scenario. **Prof. Utpal Sarmah**, Guwahati University delivered the third lecture. He discussed the rapid growth of technology in the field of science and technology, and how the future would evolve keeping it at the center. In the Success Story Session, **Rajdeep Sarmah**, CEO of **LucentR Digital Marketing**, spoke about the resources that helped him in his journey as an entrepreneur and how mental strength is equally important while on a journey such as this. The Innovative Idea Competition was organized on Day 2 in which 3 teams participated.



- The Workshop at North Lakhimpur College, Lakhimpur, Assam was organized on 11/03/2022 & 12/03/2022. A total of 64 participants attended on the first day. On the first day, three lectures were delivered in the Technical session. **Dr. Nabin Sarma** of Dept. of Energy, Tezpur University delivered the first lecture on the topic “**Innovation ambience in academic institutions**”. A talk on “**Facilities for idea validation, Pre-incubation and Start-up development**” was delivered by **Arunjyoti Borgohain**, CEO of **Yantrabot Technologies Pvt. Ltd.** His speech focused on how his company functions and the nature of work done. **Dr. Pradip Saikia**, former Principal Petrophysicist, Schlumberger Oilfield Services in the third lecture talked about the importance of taking science and technology amidst the common people to bring about new ideas and innovations. **Mr. Gobin Hazarika**, a local entrepreneur and philanthropist working on organic tea talked about his journey as an entrepreneur in the success story session. On the second day, Innovative Idea Competition was organized in which 9 teams participated.



- The Workshop at Biswanath College, Biswanath Chariali, Assam was organized on 25<sup>th</sup> & 26<sup>th</sup> March 2022. The event was graced by the Deputy Commissioner of Biswanath District, **Mr. Deba Kumar Mishra**. A total of 100 participants attended on the first day. Three lectures were delivered in the Technical session. **Dr. Nabin Sarma** of Dept. of Energy, Tezpur University delivered the first lecture on the topic “**Innovation ambience in academic institutions**”. **Mr. Manoj Das** (MD, NERAMAC) delivered the second lecture of the technical session. He emphasized on how to develop the innovation ecosystem in the region and highlighted various govt. schemes and projects which the young innovators and entrepreneurs can avail to take forward their ideas and innovations. **Mr. Hemanta Lahkar** (Founder of Spring Valley), shared his journey as an entrepreneur and the obstacles he had to overcome on this journey in the Success Story Session. In the Idea Competition on the second day, 15 teams participated.



### Gobin Hazarika

Gobin Hazarika is a local hero among small-scale tea growers in Assam. He produces great tea using innovative, low-cost equipment and cares for his soil and plants without relying on chemical fertilizers and pesticides. The tea is grown and processed at the Meen Mohan Garden, with help from family, neighbors and friends from the nearby village.

The idea of Vertiver cultivation and extraction of oil from Vertiver roots to produce essential oils and perfumes using Microwave Hydro-distillation method presented by Raj Kishore Sarma and Rideep Choudhury of B. Borooah College in the Idea Competition organized there won the first prize.

The idea of fabricating the seed of Lanceleaf Forget-Me-Not (*Cynoglossum lanceolatum L*) over the surface of biscuits to use it as rat repellent in postharvest storage presented by Lakhidra Borpatra Gohain, Pranjal Karmakar, Mukesh Yadav, Satyajit Chutia and Himanta Newar of North Lakhimpur College in the Idea Competition organized there won the first prize.

The idea to protect the paddy from problems like birds, rain, etc faced during sun drying by using a protective cover made of canvas, net and flexible plastic rod presented by Sunayan Borkakoti of Biswanath College in the Idea Competition organized there won the first prize.

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