

Building Biotech Entrepreneurial Ecosystem In East & Northeast India

2019-2023



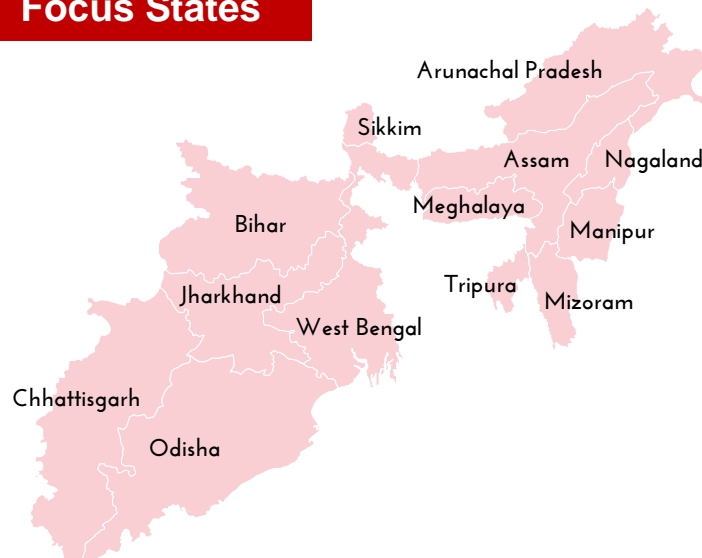
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BIRAC Regional Techno-Entrepreneurship Promotion Centre

- **4th** Regional Centre of **BIRAC** established at KIIT-TBI Bhubaneswar.
- **Launched on 12 July 2019** for Northeast and East
- Nurturing innovation ecosystem of **East and North east India** by identifying startups/innovators as well as providing mentoring support to nascent incubators.
- Develop the biotech entrepreneurial ecosystem especially laying a foundation for the development of biotech cluster in East and Northeast Regions

Focus States



Deliverables of BRTC (Phase -I)

In the last three years, BRTC has played a pivotal role in facilitating BIRAC's mandate in building a strong base of the biotech entrepreneurial startup ecosystem in the East and Northeast region by adopting the following strategies.

Mining of techno-commercial resource pool of East and Northeast region

Foster innovation and entrepreneurship across E&NE with a focus on startups & MSME

Diffusion of innovation and Capability enhancement through institute & incubator partnership

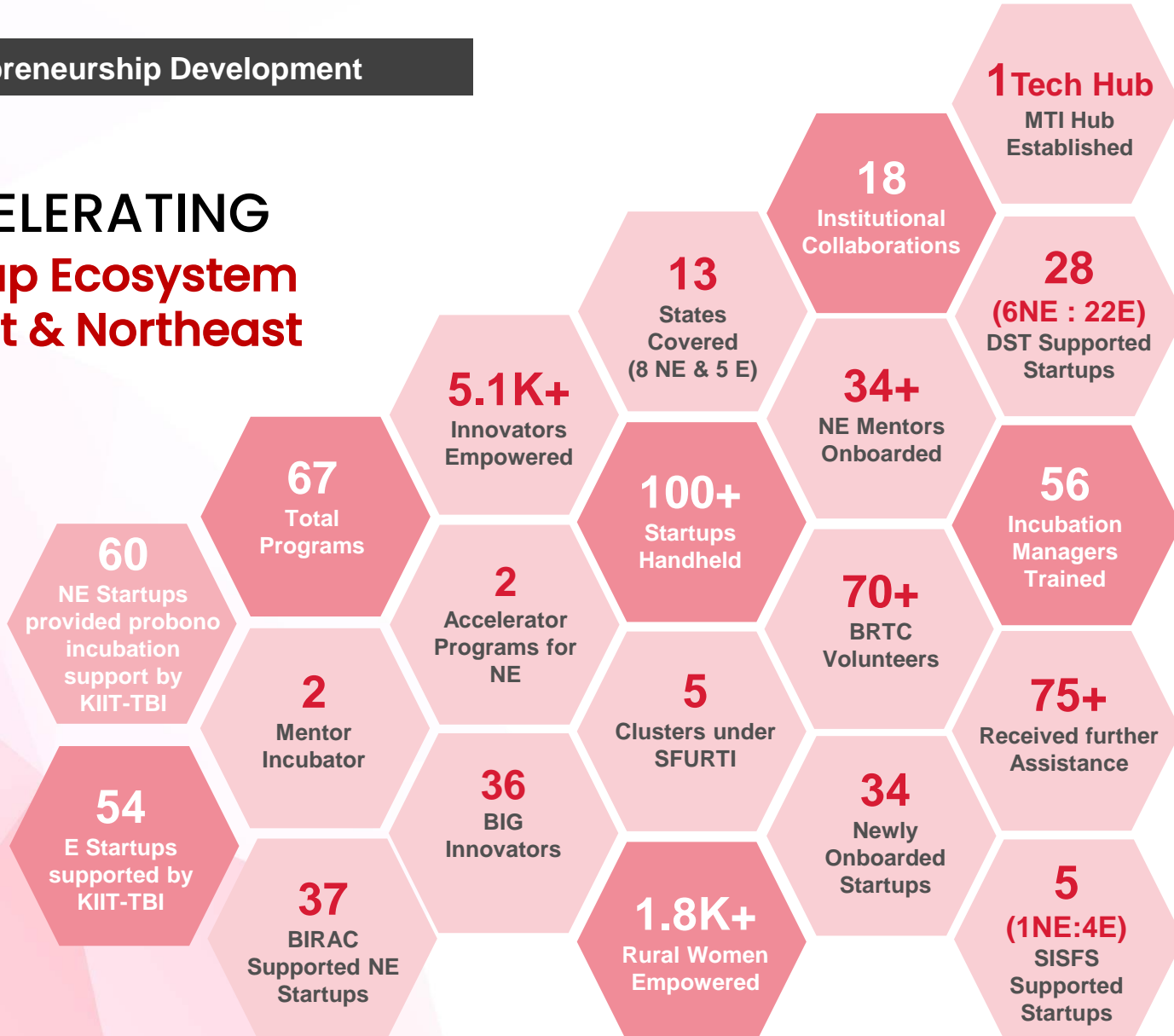
Increasing technological awareness In East and Northeast region

Assist in the institutionalization of new incubators by public and private organizations

Imparting skill training to rural women entrepreneurs

Entrepreneurship Development

ACCELERATING Startup Ecosystem In East & Northeast



Entrepreneurship Development

Roadshows

Roadshows are one-day programs conducted to create awareness and sensitize budding entrepreneurs of East and Northeast about various funding schemes available under BIRAC and other government agencies.

19

Roadshows Conducted



Physical: 11
(5E & 6NE)

Virtual: 8
(7NE & 1E)

Total Beneficiaries

1932

Capacity Building Training Program

The two-day structured capacity building training is a follow up of the roadshows with a focus on imparting with necessary knowledge and skills to innovators for transforming their ideas into successful & sustainable ventures.

31

Training Programs



Physical: 10
(4E & 6NE)

Virtual: 21

Total Beneficiaries

2677

Design Workshops

The two-day extensive workshop focuses on product design and business development for early-stage startups. The goal of this program is to provide handholding and mentoring support by experts to promising early-stage startups so that they move from Stage A to Stage B in terms of their product development or business model. These workshops also include Ideation/Hackathon sessions.

6

Design workshops



Physical: 4
(NE)

Virtual: 2

Total Beneficiaries

331

Entrepreneurship Development

The NE India Launchpad 1.0

- NE India Launchpad, organized by KIIT-TBI and supported by **MeitY**, **GoI** under the **TIDE 2.0**, scheme, and BIRAC-supported KIIT TBI Bio-NEST BRTC Centre is a customized acceleration program for NE startups/innovators to fast-track their innovation journey
- With the overwhelming success of NE launch pad 1.0, organized by KIIT TBI and supported by **MeitY**, **GoI** under the **TIDE 2.0**, scheme and BIRAC supported KIIT TBI Bio-NEST BRTC centre and Assam Down Town University as Ecosystem Partner where 15+ potential young innovators/startups from Northeast states were provided holistic mentoring support through 45 days of acceleration program.
- Here, startups not only moved ahead in their entrepreneurial journey with the learnings gained through the program but many participants also received subsequent follow on funding support in terms of government grant in aid and fellowship support for prototype developed.
- For instance; Mr. Nilotpal Baruah received BIRAC BIG NE grant, Dr. General Thiyam received BIRAC BIG grant, Dr. Chandralekha Ayekpam received the BIRAC SPARSH SIIP fellowship.

Ecosystem Partner: Assam Downtown University, Guwahati

45 days

Accelerator Program

Program Outcome:

- Pro bono Incubation Support
- Follow-on Funding Assistance
- Pro bono IP filing

32

Startups from E&NE participated

Success Story

1. Dr. Dayananda Meitei (*Winner*)

- Co-Founder and CEO of Medilane Health Tech and Consultancy Services Pvt. Ltd.

2. Mr. Bony Yumnam (*Winner*)

-CEO, Algaetech

3. Ms. Ayekpam Chandralekha (*Winner*)

- Received SPARSH-SIIP

4. Mr. Somnath Chanda (*Winner*)

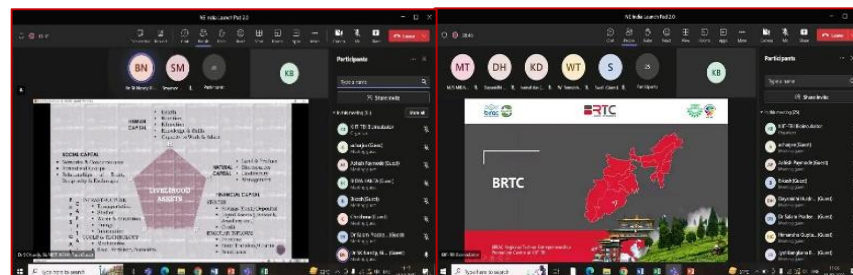
- Founder, Brahmaputra Techno Pharmaceuticals Pvt. Ltd.

5. Dr. Thiyam General

-Founder, GNN Pvt. Ltd, Received BIG-18

6. Mr. Nilotpal Baruah

- Founder Symbica Pvt, Received BIG NER -1



Entrepreneurship Development

The NE India Launchpad 2.0

The NE Launchpad was back with the second call that was announced on 1st Jan 2023 with the support of MeitY TIDE 2.0 and in collaboration with Manipur Technology Innovation Hub(MTI-Hub), supported by the Department of IT & Electronics, Govt of Manipur and BIRAC-BRTC. The NE Launchpad 2.0 as anticipated received a massive response of 93 applicants followed by the onboarding of a cohort of 60 startups for a two-week Acceleration Program which was held from 1st to 15th February 2023 followed by the final Pitch Day on the 10th & 11th of March 2023. The selected 17 startups received one year of pro-bono incubation support from KIIT-TBI and MTI Hub which includes access to a prototyping facility, mentor connect, company formation, IP assistance, grant writing support, and many more.

Ecosystem Partner: Bhubaneswar City Knowledge Innovation Cluster Foundation (BCKIC) & Manipur Technology Innovation Hub (MTI Hub)

14 days
Accelerator Program

60
Startups from E&NE participated

WINNERS

- | | |
|---|---|
| <ul style="list-style-type: none"> ▪ PiCaSoid- Rojen Leimapokpam ▪ Imphal Machines-Dayanidhi Huidrom ▪ Dianthe- K Chokhone ▪ 3103 Studio-Karter Lombi ▪ Prem Ningombam ▪ SINNAI LOOM- Saikhom Surjit Singh ▪ CLAY TECH- Padmini Konsam ▪ Purpled TV- Dustin Thangjam ▪ Wairok Tomuishang Makunga Maring | <ul style="list-style-type: none"> ▪ PIM Biotech- Pangambam Ingoba Mete ▪ Ashok Phairembam ▪ QONNECT- Lian Thangvung ▪ Kshetrimayum Tojo Singh ▪ Kanglei Tech Robotics- Md. Iquebal Ahmed & Md. Umar Khan ▪ Runo Fresh- Siddharth Das ▪ M/s TC Bakery- Sanjib Das |
|---|---|

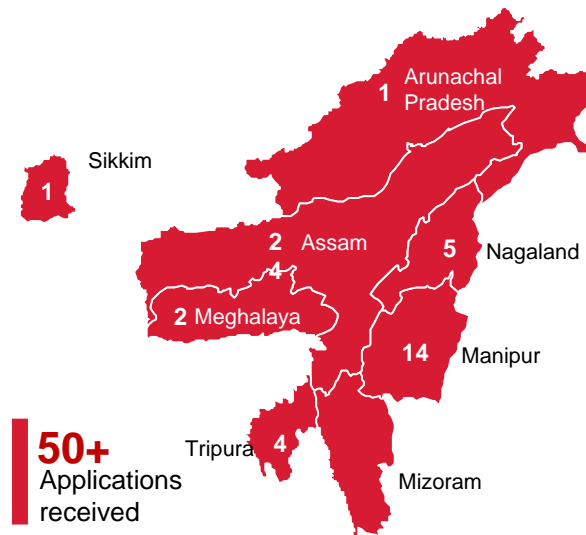


**Refer to Page 32 for Startup details*

Nurturing Innovative Product Development

Mapping the Changemakers of North East

A new initiative of BRTC called “**Mapping the Changemakers of Northeast Region**”, endeavors to identify young & budding innovators from NE with a translational scientific temperament and build a strong platform for networking crosstalk & collaboration. We have identified a total of 51 changemakers from various states of NE that have been mapped and based on their innovative ideas, 15 winners were selected for cash awards and incubation support by KIIT-TBI.



Category 1

Master Students

Mr. Ajoy Modak, Tripura
Mr. Apurba Gohain, Assam
Ms. Puja Devi Yumnam, Manipur

Category 2

PhD scholars & Post Doctoral Fellows

Mr. Ajoy Modak, Tripura
Mr. Apurba Gohain, Assam
Ms. Puja Devi Yumnam, Manipur

13

Entrepreneurs supported

Awarded with :

- Incubation Support
- IP Filing
- Technical Mentoring
- Funding Assistance

Category 3

Faculties/ Scientists

Dr. Subham Banerjee, Assam
Dr. Mrityunjoy Mahato, Meghalaya
Dr. Temin Payum, Arunachal Pradesh

Category 4

Startups

Sanajing Sana Thambal, Manipur
PepThera Laboratories, Assam (BIG)
RogNidaan, Assam (BIG NE)
Brahmaputra Techno Pharmaceuticals, Assam

Entrepreneurship Development

North East Regional IP Workshop

Ecosystem Partner: Technology-enabling Centre, Department of Science & Technology and NRDC

A 3 days IP workshop was conducted especially for the people of the Northeastern region in collaboration with Technology Enabling Centre at KIIT University. A total of 50 participants including faculty members, research scholars, students, individuals and entrepreneurs join the program. 15 eminent speakers from diverse expertise shared their knowledge with the participants. This workshop gave a 360 degree overview of innovative policies, good practices, case studies and lessons learned in managing intellectual property and technology development.

50

Participants

15

Experts

Modules covering 360 degree aspects of Intellectual Property

- Fundamentals of IPR
- IP Generation, Protection and Prosecution
- Bio-innovations and National Biodiversity Act
- Commercial and Legal aspects of IPR
- Role of IPR in Business setup

Handholding provided

- One-to-one Mentoring
- Prototype and Technology development support
- IP and Commercialization support



Ecosystem Building



Amplifying the E & NE BioNEST Cluster

To further develop the biotech entrepreneurial ecosystem in E & NE, BIRAC launched the BioNEST E & NE Cluster on 20th May 2021 marking the 75 years of India's Independence celebrations in August 2022- "Azadi Ka Amrit Mahotsav".

Govt aligned with the theme विज्ञान से विकास- सशक्त भारत in presence of esteemed dignitaries including Dr. Renu Swarup, Secretary DBT & Chairperson BIRAC; Mr. G.S. Krishnan, President of ABLE; Dr. P.M. Murali, President Business Council ABLE; Dr. Manish Diwan, Head SPED BIRAC; Dr. Chhaya Chauhan & Ms. Taranjeet Kaur of BIRAC and leaderships of nine BioNEST incubators from East and Northeast region.

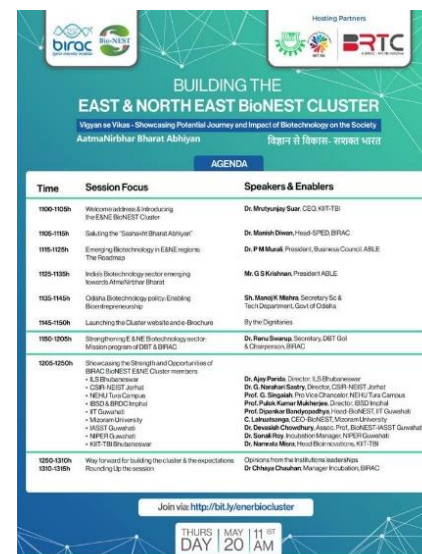
Cluster members:

- ❑ **KIIT TBI BioNEST, Bhubaneswar (Nodal Incubator)**
- ❑ Mizoram University BioNEST, Aizawl
- ❑ NIPER BioNEST, Guwahati
- ❑ IASST BioNEST, Guwahati
- ❑ IBSD BioNEST & BRDC Shillong
- ❑ IIT G BioNEST, Guwahati
- ❑ NEHU BioNEST, Tura Campus
- ❑ CSIR NEIST BioNEST, Jorhat
- ❑ ILS BioNEST, Bhubaneswar

BRTC has supported the establishment of two new BioNEST incubators

CSIR-NEIST, Jorhat, Assam

NEHU Tura, Meghalaya



The BioNEST Cluster website was launched
www.enerbiocluster.com

BIRAC BioNEST E-NE Cluster Hub & Spoke Model



Ecosystem Building

Manipur Technology Innovation Hub (MTI Hub)

The Manipur Department of Information Technology (DIT) signed an agreement with KIIT TBI on 5 January 2022 to establish a Manipur Technology Innovation Hub (MTI HUB) with KIIT TBI on the PPP model to improve entrepreneurship in Manipur. Union Home Minister Amit Shah laid the foundation stone of the MTI-HUB virtually in the presence of Manipur Chief Minister N. Biren Singh. As per the agreement, the Manipur Government will provide furnished 10,000- sq ft build-up space with part of operation cost. To further strengthen the ecosystem development, both Manipur Government and KIIT TBI will reach out to the Government of India funding agencies such as DST, MeitY, MSME and BIRAC-DBT. Under the Hub and Spoke model, Technology Incubation Centre, Manipur is expected to function as a platform with KIIT-TBI as the nodal mentoring incubator (hub) that shall catalyze the development of proactive collaboration among various partnering institutions in NE (spokes) like IIIT-Manipur and Manipur Institute of Technology etc., to create an ecosystem for technology development and commercialization in a holistic manner.



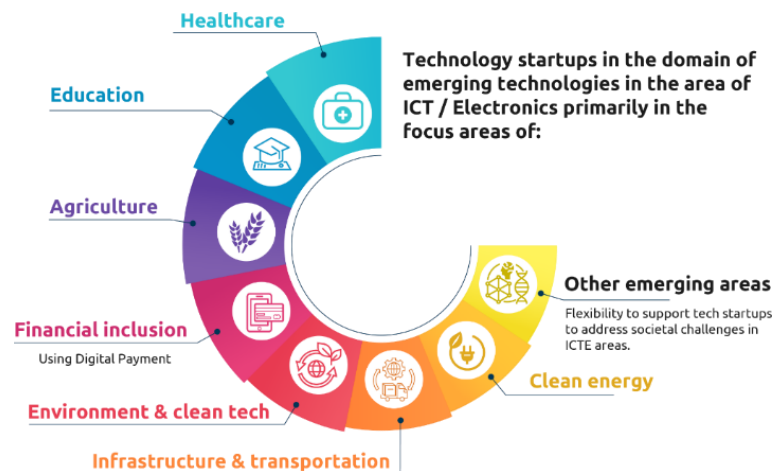
Institutes Covered in Manipur:

1. MIT, Imphal
2. MTU, Imphal
3. NIELIT, Imphal
4. CIPET, Imphal
5. NIT, Imphal
6. MIU, Imphal
7. IIIT, Imphal
8. DM University, Imphal

Facilities Offered

1. Testing & validation Centre
2. Networking & Funding Support
3. IP & legal compliance Service
4. Office or Co-working Space
5. Design & Prototyping facility

Focus Areas



SUPPORTED BY



ECOSYSTEM PARTNER



MENTOR NODAL INSTITUTION



ACADEMIC INSTITUTIONS



Ecosystem Building

Incubation Practice School

Although many incubators have evolved in the last few years with the support of the government, only a few incubators have succeeded to become self-sustainable and upscaling their operations. Hence, BRTC in association with BIRAC organized the first Incubation Practice school for Incubation Managers of Northeast as part of BINER: Essentials of Building Sustainable Incubator Ecosystem in North East Region”.

BINER 1.0 (Building sustainable Incubation Network in Northeast Region) was designed for business incubation managers and relevant stakeholders, particularly from the NE region wishing to increase their understanding and know-how of the incubation process to help build them their capacity and influence the success of their incubators. The modules were specifically designed to give a 360-degree holistic view to incubation managers who are seeking to understand the building blocks of establishing and running a sustainable Incubator.

BINER 2.0 was a physical event conducted at MTI Hub for a cohort of 26 aspiring incubation managers from 6+ institutes. The participants were from institutes and organizations across NE that are looking forward to building an incubation center in their respective institutes.

Objective:

- Conceptualize ideas to start their own incubators.
- Building a favorable work culture at incubation center
- Fix Target and Milestones for incubator
- Understand the key principles for sustainable Incubator
- Various Partners and Investors



State wise distribution of Managers Trained

Training Modules:

- Important Elements for Building a Sustainable Incubation Centre
- Kickstarting an Incubator
- Building the Business Plan & Sustainability Path of Incubator
- Building Pipelines for TBI: Incubation Process, Activities & Programs
- Safe guarding innovations & building IP portfolio
- Building networking & partnership in Northeast
- Best practices in technology incubation

Ecosystem Building

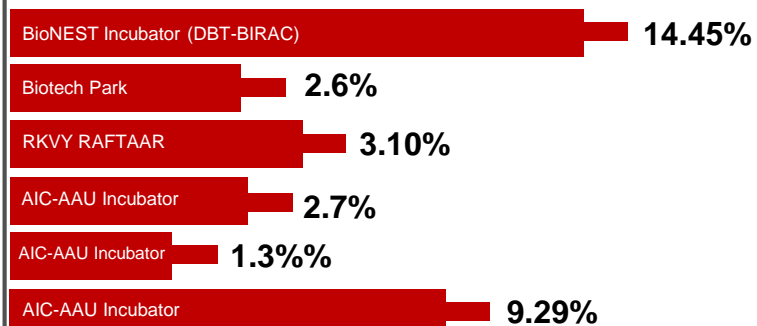
Incubation Practice School

BINER 1.0: Building Sustainable Incubator Ecosystem in Northeast Region (Virtual)

26-29 May 2021

Total Beneficiaries 31

Incubator Type



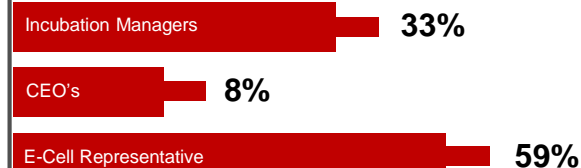
BINER 2.0: Building Sustainable Incubator Ecosystem in Northeast Region

Venue: MTI Hub, Imphal, Manipur

3-4 Feb 2023

Total Beneficiaries 26

Participant type



Ecosystem Building

Northeast Startup Showcase Summit 1.0 (NESS)

To promote the seeding of startups in the Northeast and provide a nurturing platform to Northeastern startups, BRTC in collaboration with MTI-Hub conducted the first Northeast Startup Showcase (NESS) Summit 1.0. 35+ technology-driven startups from Manipur, Assam and Nagaland participated and showcased their technologies and products to various stakeholders and policymakers. The event witnessed a footfall of more than 200+ visitors in two days.

On the second day, 25+ startups also pitched their technologies and the best 5 startups were awarded cash prizes and pro bono incubation. During this event, 16 startups from the Northeast also signed virtual incubation agreement with KIIT-TBI. 6 startups from outside the Northeast participated in this event and 2 startups are moving ahead to establish their ventures in Northeast.

16

Startups Incubated

41

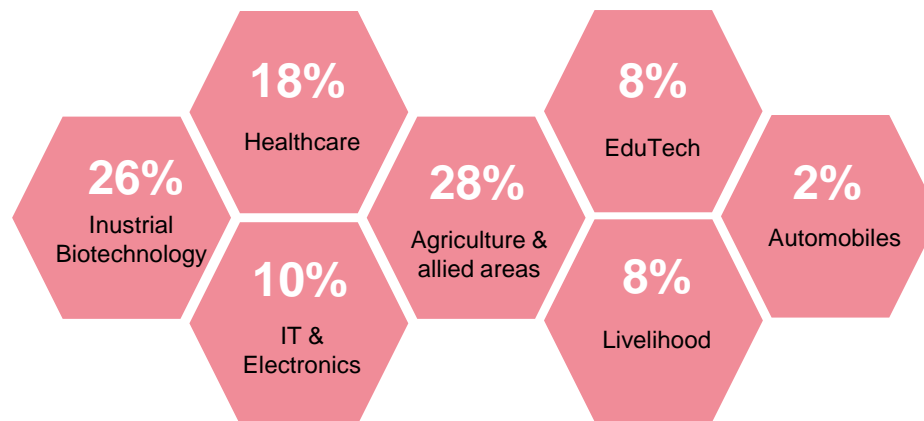
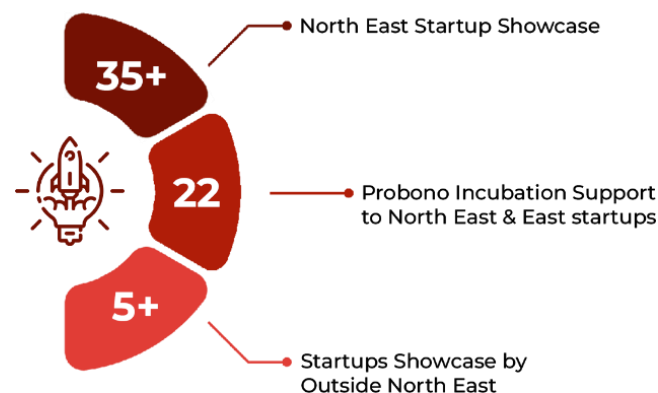
Startups Participated

Five Startups with cash prize, Pro bono incubation and IP support

- Picasoid Health Technology Pvt. Ltd., Manipur
- Korou's Water, Manipur
- Ashatech, Manipur
- October Pumpkin Co., Manipur
- Anguki Industries Pvt. Ltd., Nagaland

**Refer to Page 31 for Startup details*

Program Highlights



Sector-wise Distribution of Startups

Ecosystem Building

Northeast Immersion Program

- A mega scale event was conducted at KIIT-TBI that brought together 100+ startups and MSME's associated with KIIT-TBI and supported by different organization under one roof.
- 15+ startups from Northeast were invited to showcase their innovations and interact with policy makers and industry collaborators. The event aimed to give them exposure to the innovation ecosystem and give them a platform for peer-to-peer learning.

Participation:

15

NE Startups

Product Launched by:

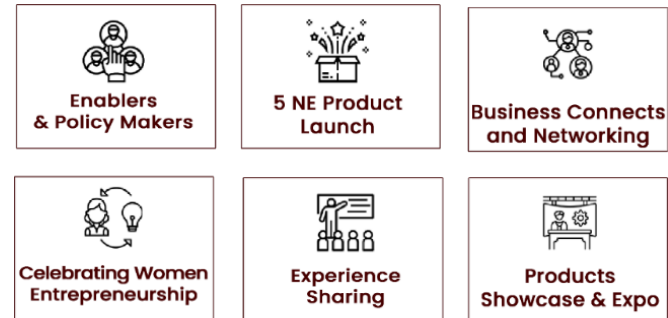
- Nibiaa Devices Pvt. Ltd.
- Primary Healthcare Pvt. Ltd.
- Tarot Foods Pvt. Ltd.

Immersion Visit to:

- O-Hub, Bhubaneswar,
- STPI, Bhubaneswar
- Dept. of Science and Technology, Odisha

STARTUP INNOVATION CONCLAVE 1.0

CELEBRATING ENTREPRENEURIALISM



Strategic Partnership

In order to build an enabling platform for entrepreneurs in the region, BRTC has reached out to various institutions located in the East and Northeast to work closely for R&D and Entrepreneurship development. BRTC also works closely with all stakeholders which include government departments and ministries; both central and state, industry organizations, international bilateral agencies, philanthropic organizations and the corporate sector, to leverage the strength and expertise and mobilize resources and extend the outreach of its activities.

Forged Collaboration: 18 institutes / organizations

1. CSIR-NEIST Jorhat Assam
2. NIPER- Guwahati, Assam
3. NEHU Tura Campus, Meghalaya
4. Tripura University, Tripura
5. Rajiv Gandhi University, Arunachal Pradesh
6. Green Foundation, Manipur
7. Mizoram University, Mizoram
8. IASST, Guwahati
9. Assam Down Town University, Assam
10. Manipur University, Manipur
11. RKVY-RAFTAAR Agri-Business Incubator, Tripura
12. Manipur Technical University, Manipur
13. DMC Dhanamanjuri University, Manipur
14. Guwahati Biotech Park
15. Sikkim Manipal University, Sikkim
16. Haldia Institute of Technology, West Bengal
17. Manipur Technology Innovation Hub
18. Pandit Deen Dayal Upadhyay Institute Of Agricultural Sciences, Manipur
19. North Eastern Regional Institute of Science and Technology (NERIST), Nirjuli, Arunachal Pradesh
20. Sadiya College, Chapakhowa, Assam
21. Tili Incubator, Mizoram

BIRAC in partnership with **NEHU University** initiated a five-year long project in 2021 for the ***“Deployment and piloting of Improved Indigenous Fermented Food Products, ‘Chubitchi’ and ‘Tungrymbai’ for sustainable Livelihood in Meghalaya, Northeast India”*** which has been funded by the Department of Biotechnology of 4438476.00 INR under on ***“Development and Utilization of Bio-resources of Northeast Region for Generating Livelihood Security and Entrepreneurship”***.

Rural Women Entrepreneurship

BRTC remains committed to supporting and encouraging rural women entrepreneurship by identifying SHG clusters and providing the skillset to use their traditional knowledge with modern biotechnology interventions. 10 training programs of three days duration have been conducted on-site at various rural clusters in Assam, Manipur, Meghalaya, Odisha, Chhattisgarh. Each program is attended by 60-70 rural entrepreneurs and is trained by local trainers/experts on natural dye processing, mushroom cultivation, value addition of indigenous food products, modern food processing etc.

A total of 616 rural women across East and Northeast were provided the training on various themes and got benefit out of it. For stronger impact, BRTC has collaborated with the National Innovation Foundation and MSME for identifying grassroots innovations and clusters for further development and to provide financial assistance through the various funding schemes of the central government like SFURTI (Scheme of Fund for Regeneration of Traditional Knowledge). 21 different clusters across NE were identified and 5 of these clusters were supported by SFURTI in the Northeast.

600+

Rural women Trained

21

Clusters Identified

5

Clusters supported by
SFURTI, MSME



21 Clusters Identified for Phase II Implementation

Citrus Family	Arunachal Pradesh, Meghalaya (Khasi Hills), Nagaland (Wokha District)
Black Scented Rice	Manipur (Imphal West, Thoubal, Bishnupur district)
Ginger Family	Manipur (Churachandpur District), Meghalaya (West Jaintia Hills)
Mushroom	Manipur (Imphal West & Imphal East District), Assam (Kamrup Rural District), Sikkim (North & East District)
Pineapple	Meghalaya (West Garo District), Manipur (Thoubal District)
Bamboo	Manipur (Jiri & Tamenglong District), Tripura (West Tripura district), Mizoram (Aizawl District)
Kiwi	Arunachal (Ziro District)
Orchid	Manipur (Ukhrul District), Arunachal Pradesh (West Kameng District)
Handicraft & Handloom	Assam (Barpeta), Manipur (Imphal West), Meghalaya (East Khasi)

Clusters supported under MSME SFURTI Scheme

1. Churachandpur Aromatic Products Cluster
2. Lamka Spices & Oleoresin Cluster
3. Kangpokpi Pineapple Processing Cluster
4. Ukhrul Lemon & Banana Processing Cluster
5. Tengenoupal Ginger Processing Cluster

*Location: Manipur

Overall Matrix of Impact Assessment

- ❖ **Target by BIRAC: Annual reports on technology and commercial resources availability in E & NE Region:**

Milestone Achieved:

Since its inception on 12th July, 2019, BRTC has marked its footprint across all states of E & NE. Based on the interaction and meeting among the various stakeholders during the visit, the innovation mapping report for E & NE has been documented. These reports highlight the dynamism of the biotech sector in E & NE, across all states in the region through a detailed mapping of stakeholders, the drivers, the thrust area of each institute, academic output (publications/ patents) the opportunities, and the gaps that exist. The report has highlighted the unique elements of each state studied and their rapid evolution. As we progress towards Phase II, we shall further refine/update and send it to partnering institutes for corroboration of information presented. These innovation mapping will certainly facilitate BIRAC in its endeavors to foster and facilitate the growth of the biotech sector and the learnings from the report would help distil possible routes to create further impact in E & NE.

- ❖ **Target by BIRAC: Every year handholding and facilitating 2 to 5 promising technologies from NE in moving 2-3 levels up to the technology readiness path per year**

Milestone Achieved:

Identified and mentored 40+ Innovators from the NE region who have been funded by BIRAC under BIG grant and BIG NE Special Call to develop POC of their innovative idea. Two young entrepreneurs from E&NE have been selected under SPARSH SIIP program. To support them to move ahead in their product development journey, regular mentoring sessions and one-on-one discussion are conducted on various important elements of entrepreneurship. These start-ups are also helped in forming a company, patent filing, connecting to industries, etc. Apart from BIRAC funded schemes, 40+ Innovators and startups are supported under different funding schemes like NIDHI PRAYAS and NIDHI EIR from DST and Startup India Seed fund etc.

Overall Matrix of Impact Assessment

- ❖ **Target by BIRAC: Every year 2 technologies from research institutes are offered to entrepreneurs (not limited to East and Northeast) for further development and commercialization.**

Milestone Achieved:

BRTC in collaboration with the Technology Transfer Office at KIIT TBI supported by National BioPharma Mission is working together in identifying and supporting academia spin off in licensing their technology to industry partners and also providing assistance in Company Incorporation . 10 technologies (five mentioned below) have been identified and are currently in discussion with pertinent stakeholders.

1. Microbial treatment of ammonia-rich aquaculture and refinery effluent- WTOWIT LLP to Banka Biolo Pvt Ltd (Non- exclusive License agreement with upfront payment and royalty provisions)

Shaon Ray Chaudhuri, A process and system for ammonia removal from wastewater. 202131002964 dated 21st January 2021

2. Microbial treatment of petrochemical wastewater -WTOWIT LLP to Amalgam Biotech

Formulation of bacterial consortium for bioremediation of petrochemical wastewater. **Applicant - Dr. Shaon Ray Chaudhuri**

Indian Patent - 202031011766 (Filed)

3. Nano Curcumin as a Nutraceutical for control of Inflammation in Humans

Curcumin Nanoparticles and methods of producing the same. **Applicant - Prof. Santosh K Kar**

Indian Patent (Granted) – 298432

4. Individual innovator to Infinity Research & Development Pvt Ltd (Exclusive License agreement)

Compression Only Life Support Assist Gadget for Resuscitation of Cardiac Arrest victim by Common men.

Applicant: Dr. Ashok Kumar Badamali

5. License agreement T&C discussion with BVG Life Sciences Patent (396049)

Protein Hydrogel for topical application and formulation for skin regeneration wound healing.

Applicant- BIG Grantee, Dr. Ashoke BITS Mesra

Overall Matrix of Impact Assessment

❖ **Target by BIRAC: 250-300 students sensitized about start up schemes per year:**

Milestone Achieved:

In the last 3 years, BRTC has organized 19 roadshows showcasing the various funding opportunities available for individuals, researchers and faculty members to translate the idea from laboratory to market. This includes central university, central R&D institute, state university, technical university, private university, engineering colleges, and state department. The participants were mixed of students, faculty, individuals, and more than 2000+ participants with an average of 98 participants in each program. The programs were conducted in all the 8 states of Northeast and 2 states of East. Few of the participants have successfully in bagging the prestigious BIG and BIG NE grants.

Institutes Reached in NE India for Roadshows/Grant Writing

Assam

- CSIR-NEIST, Jorhat
- Assam Downtown university
- IAAST, Guwahati
- Guwahati Biotech Park
- Assam University, Silchar
- Niper Guwahati
- Cotton University, Guwahati
- IIT Guwahati
- Tocklai Tea Research Institute, Jorhat
- Agricultural University Jorhat

Sikkim

- Sikkim State council for Science and Technology
- Department of Science and Technology, Government of Sikkim

Tripura

- Tripura university
- College of Fisheries, CAU

Meghalaya

- NEHU, Shillong
- NEHU, Tura
- University of Science and Technology in Meghalaya

Nagaland

- Nagaland Tool Room and Training Center

Arunachal Pradesh

- Rajiv Gandhi University

Manipur

- Manipur university
- Manipur Technical University
- IBSD Imphal
- Green Foundation, Imphal
- MSME Technology Center Imphal
- Pt. Deen Dayal Upadhyay Institute of Agricultural Science

Mizoram

- Mizoram University

Overall Matrix of Impact Assessment

- ❖ **Target by BIRAC: 250-300 students trained per year in focused topics:**

Milestone Achieved:

BRTC has organized 28 training programs in the last three years. Few programs were conducted physically but after the onset of the Covid pandemic, we continue to organize the program virtually. A total of 2377 individuals have been trained in entrepreneurship on an average of 87 people per program. The training program was focused on each partner institute-focused area of research and it covers almost all the essential topics starting from Basic of entrepreneurs, IP, regulatory issues, Business models, and exit strategy of startups and focuses on themes like sustainable agriculture and Agri entrepreneurship, boosting livestock production & management. The training program also provides an opportunity to interact one on one with the experts to take their help and support and also clarify their doubts.

- ❖ **Target by BIRAC: 2 new MoUs per year between institutes intended at joint translational initiatives (e.g. joint workshops/trainings, access to infrastructure and facilities)**

Milestone Achieved:

BRTC reached out to the various institutes and organizations to connect and collaborate with them in organizing the various activities and also help and support them in their ecosystem building. After organizing a number of programs under BRTC, several institutes in East and Northeast come forward to officially collaborate with KIIT TBI for the long-term association for knowledge and resource sharing. The scope of MOUs are broad including academic exchange program of students and faculty members and also the help and support in entrepreneurship development and ecosystem creation, analytical facility, IP filing, and Technology transfer. **To date, KIIT TBI along with BRTC has signed 18 MOUs.**

2019-2020 : 1

2020-2021 : 9

2021-2022 : 5

2022-2023 : 3

Overall Matrix of Impact Assessment

- ❖ **Target by BIRAC: Handholding 5-10 promising start-ups through one-on-one mentoring sessions by experts, from stage A to stage B.**

Milestone Achieved:

A number of BIG grantees including the BIG NE were handheld and mentored in various facets of entrepreneurship development by a pool of mentors from various fields to make each one successful entrepreneur in the coming years. Two calls of “NE India Launchpad” was organized under the support of MeitY in Agri and health tech startups from the region. A total of 92 (32 from call 1 and 60 from call 2) startups/innovators from E participated in the NE Launchpad Accelerator Program and 3 startups were selected for free incubation support by KIIT TBI and raising follow-on funding of up to 10 lakhs from the first cohort. 17 innovators/startups from the second cohort were awarded cash prizes, IP and Incubation support and follow-on funding assistance. Mentor connect weekend series was organized which included 85 hours of mentoring engaging 250+ startups/innovators and 25+ mentors.

- ❖ **Target by BIRAC: 3-5 innovators from each cohort of the Immersion Programme to be able to develop a business plan following the immersion program**

Milestone Achieved:

Startup Innovation Conclave 1.0

This program was an important program for early-stage startups from the region where BRTC is building a bridge to connect them with well-established startups from metro cities and other regions of the country. The overall idea was to provide the startup from the region with the necessary knowledge and technology essential for building a successful ecosystem of startups in the region. 15+ startups from the Northeast were invited to KIIT-TBI and they were given a platform to interact with 90+ startups from across the country. 5 market-ready products were also launched by dignitaries.

Overall Matrix of Impact Assessment

- ❖ **Target by BIRAC: At least 1 Enterprise from outside NE willing to set up operations in NE in the first year, targeting 10 by end of 5 years:**

Milestone Achieved:

Six start-ups have signed an incubation agreement with MTI-Hub, Manipur and initiated the technology deployment in NE.

- | | | |
|-----------------------------|---------------------------|---------------------------|
| ❖ IG Drones Private Limited | ❖ Bariflo Private Limited | ❖ Elvicon Private Limited |
| ❖ MedTEL Private Limited | ❖ BabyCue Private Limited | ❖ Exquinz Private Limited |

- ❖ **Target by BIRAC: 200 women trained with basic skill in food processing per year**

Milestone Achieved:

For a developed society the participation of women in socio-economic upliftment is very much essential and they hold a key position in improving the per capita of the country as well as for the state. BRTC has a mandate and special focus on rural women to trained and harness the skills in useful products which are unmet needs to society. Every year, BRTC organized 4 rural women's training programs on various themes like, food processing, value addition, handloom, and handicraft which is very much in demand in the region. A total of 516 rural women entrepreneurs and SHGs across East and Northeast have been provided the skillset to use their traditional knowledge with modern biotechnology interventions through skill development training programs. Through each program, the participants were taught the pre-requisite knowledge and practical demonstration so that after the end of the training, they can replicate the skill in their home without much capital requirement. This program is very successful and BRTC has tied up with the National Innovation Foundation and Scheme of Fund for regeneration of Traditional knowledge (MSME) for budling bigger clusters and provide them the financial resources to scale up their business. 5 clusters have been supported by MSME SFURTI Scheme.

- ❖ **Target by BIRAC: 15-20 women to start their ventures per year:**

Milestone Achieved:

40 women entrepreneurs from E&NER have been handheld to start their innovative venture

Overall Matrix of Impact Assessment

❖ Target by BIRAC: Increase in family income of women entrepreneurs trained

Milestone Achieved:

The outcome of the rural training program is very promising with a number of positive impacts which have started changing the socio-economic condition of the local people. The training program on millet and mushroom cultivation is becoming a success with millet noodles, millet pasta, and mushroom reaching out to the local market. For mushrooms, the mushroom bag provided at the end of the training is giving revenue of Rs.400 to 500 per bag with a profit of 300 to 400 rupees. Mushroom Development Foundation, Guwahati which is the knowledge partner for our training program has started selling mushroom bags at 90 to 100 rupees per bag and it is becoming very popular in Guwahati and nearby areas.

❖ Target by BIRAC: 6-8 incubation managers trained per year: BINDER incubator manager

Milestone Achieved:

A total of 31 Incubation managers and leaders from 19 Incubators located across the North-Eastern states attended the Incubation Practice School called BINDER. 24 Incubation Managers were trained in BINDER 2.0 during the physical session in MTI-Hub, Imphal. As Mentor Incubator we are handholding newly established BioNEST Incubators like CSIR NEIST and NEHU, Tura to kick start their incubation process.

❖ Target by BIRAC: 3-4 representatives from NE institutions oriented towards incubation practices:

Milestone Achieved:

KIIT-TBI is helping institutes like Tripura University, Rajiv Gandhi University, Pandit Ravishankar Shukla University in formulating their proposal for setting up incubators and jointly organizing various entrepreneurship development programs for their faculties and young researchers/students.

Overall Matrix of Impact Assessment

❖ Increase in applications for funding under BIRAC and non-BIRAC schemes

BIG

North East

BIG - North East Special Call Grantees - 9

BIG Grantees from NE – 17 to 21 Call - 11

East

BIG Call 14-16 Grantees- 6

BIG Call 17 Grantees- 6

BIG Call 18 Grantees- 4

BIG Call 19 Grantees- 2

BIG Call 20 Grantees- 8

BIG Call 21 Grantees- 1

BIG-NE Special Call-2
Application Received: 161 NE
and 6 E

BIG-22
Application Received: 76 NE
and 3

SPARSH-SIIP

North East-1

East-1

DST- NIDHI Prayas

North East-3

East-15

DST- NIDHI EIR

North East-2

East-7

Startup India SEED Fund

North East-1

East-4

Enterprises from East & North East

	S No	Startup Name	Title	State	Entry TRL Level	Support Provided by KIIT-TBI	Milestone Achieved
BIG-NE	1	Green Biotech Ecosolutions Private Limited - Dr. Geetashori Yumnam	Industry scale development of probiotic formulation for livestock management	Manipur	TRL 2	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking Team building Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant Initial product development under progress Winner at Samunnati AgriStartup Award ABI Women Power award
	2	Bio-Dtect Private Limited - Dr. Sudarshan Gogoi	A paper based point of care test kit for detection of pan malaria and plasmodium falciparum species in human blood serum	Assam	TRL 3	<ul style="list-style-type: none"> Technical & business mentoring Mentor connects Networking Opportunities IP filing Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant Formed a spinoff company Initial prototype developed Initiated IP filing process
	3	RogNidaan Technologies Private Limited* - Dr. Lipi B Mahanta	Development and field test of ai-guided software for detection of cervix cancer using papsmear images	Assam	TRL 4	<ul style="list-style-type: none"> Technical & business mentoring Networking IP filing Clinical testing and validation Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant Platform technology is ready 1st phase: Clinical trials initiated Complete specification patent filed
	4	Symbica Private Limited - Nilotpal Baruah	Development of a market ready multi-articulating, adaptive myoelectric hand using sensory feedback	Assam	TRL 4	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking IP filing CRO connects for certifications Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant MVP developed 1st phase of certification testing initiated Selected for Assam Startup Cohort-10
BIG	5	Nibiaa Devices Private Limited - Aeroshil Nameirakpam	Quality tea production and systematic supply-chain system using IoT and Blockchain	Manipur	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing Team building 	Received BIG Grant MVP Developed Initiated IP filing process
	6	Pepthera Laboratories Private Limited* - Dr. Gaurav Jerath	Biomolecular Surface Disinfectant For Households And Commercial Establishments	Assam	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring IP filing Team building 	Received BIG Grant Formulation Development under progress Initiated IP filing process National level Antimicrobial Resistance Quest 2021
	7	Aranyam Innovations Private Limited - Dr. Ananya Barman	Development of microbial bioformulation(s) for tea camellia sinensis growth promotion and blister blight disease control	Assam	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing Team building 	Received BIG Grant Formed spinoff company Formulation Development under progress Initiated IP filing process Best Young Women Innovative Entrepreneur Award

* Startups / Innovators previously supported under **Changemakers**

Innovator previously supported under **NE Launchpad**

Enterprises from East & North East

	S No	Startup Name	Title	State	Entry TRL Level	Support Provided by KIIT-TBI	Milestone Achieved
BIG	8	Inochi Care Private Limited - Shivani Gupta	A frugal multi therapeutic wound care solution for resource constraint healthcare settings.	Assam	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building Mentor connect & networking Investor connect IP filing Accelerator Program 	Received BIG Grant Final prototype developed Final IP filed Winner for ASME 2022 Final stages of clinical trials
	9	Primary Healthtech Private Limited - Sahil Jagnani	Nanotechnology Based Affordable, Portable And Easy To Use Multi Diagnostic Point-Of-Care Device For Kidney, Liver, Pancreas, And Thyroid Disorders	Assam	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building Mentor connect & networking Investor connect IP filing Accelerator Program 	Received BIG Grant Received BIRAC SEED Raised from Pontaq Ventures Final product developed Final IP filed Final stages of clinical trials
	10	Senztech Technologies Private Limited - Dr. Rajib Biswas	Development of multimodal optofluidic prototype for sensing heavy metal ions	Assam	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing Team building 	Received BIG Grant Formed spinoff company MVP developed Initial field testing initiated
	11	Primogen Biotech Private Limited - Dr. Pranita Hazarika	Development of an affordable kit for simultaneous and rapid 3 H isolation of DNA, RNA and protein from A single leaf sample for genomic and proteomic analysis	Assam	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing Team building 	Received BIG Grant Formed spinoff company MVP developed Initial validation studies initiated
	12	Rigel Bioenviron Solutions Private - Dr Sanchita Mukherjee	Polyhydroxy alkanoate based bioplastics from agro wastewater	West Bengal	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Industry connect IP filing Team building 	Received BIG Grant Final process developed Extensive field testing under progress Complete IP filed

Enterprises from East & North East

	S No	Startup Name	Title	State	Entry TRL Level	Support Provided by KIIT-TBI	Milestone Achieved
BIG	13	Green Biotech Ecosolutions Private Limited - Dr. Geetashori Yumnam	Industry scale development of probiotic formulation for livestock management	Manipur	TRL 2	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking Team building Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant Initial product development under progress Winner at Samunnati AgriStartup Award ABI Women Power award
	14	Bio-Dtect Private Limited - Dr. Sudarshan Gogoi	A paper based point of care test kit for detection of pan malaria and plasmodium falciparum species in human blood serum	Assam	TRL 3	<ul style="list-style-type: none"> Technical & business mentoring Mentor connects Networking Opportunities IP filing Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant Formed a spinoff company Initial prototype developed Initiated IP filing process
	15	RogNidaan Technologies Private Limited* - Dr. Lipi B Mahanta	Development and field test of ai-guided software for detection of cervix cancer using papsmear images	Assam	TRL 4	<ul style="list-style-type: none"> Technical & business mentoring Networking IP filing Clinical testing and validation Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant Platform technology is ready 1st phase: Clinical trials initiated Complete specification patent filed
	16	Symbica Private Limited - Nilotpal Baruah	Development of a market ready multi-articulating, adaptive myoelectric hand using sensory feedback	Assam	TRL 4	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking IP filing CRO connects for certifications Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant MVP developed 1st phase of certification testing initiated Selected for Assam Startup Cohort-10
	17	Nibiaa Devices Private Limited - Aeroshil Nameirakpam	Quality tea production and systematic supply-chain system using IoT and Blockchain	Manipur	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing Team building 	Received BIG Grant MVP Developed Initiated IP filing process
	18	Pepthera Laboratories Private Limited* - Dr. Gaurav Jerath	Biomolecular Surface Disinfectant For Households And Commercial Establishments	Assam	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring IP filing Team building 	Received BIG Grant Formulation Development under progress Initiated IP filing process National level Antimicrobial Resistance Quest 2021

Enterprises from East & North East

	S No	Startup Name	Title	State	Entry TRL Level	Support Provided by KIIT-TBI	Milestone Achieved
BIG	19	Aranyam Innovations Private Limited - Dr. Ananya Barman	Development of microbial bioformulation(s) for tea camellia sinensis growth promotion and blister blight disease control	Assam	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing Team building 	Received BIG Grant Formed spinoff company Formulation Development under progress Initiated IP filing process Best Young Women Innovative Entrepreneur Award
	20	Inochi Care Private Limited - Shivani Gupta	A frugal multi therapeutic wound care solution for resource constraint healthcare settings.	Assam	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building Mentor connect & networking Investor connect IP filing Accelerator Program 	Received BIG Grant Final prototype developed Final IP filed Winner for ASME 2022 Final stages of clinical trials
	21	Primary Healthtech Private Limited - Sahil Jagnani	Nanotechnology Based Affordable, Portable And Easy To Use Multi Diagnostic Point-Of-Care Device For Kidney, Liver, Pancreas, And Thyroid Disorders	Assam	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building Mentor connect & networking Investor connect IP filing Accelerator Program 	Received BIG Grant Received BIRAC SEED Raised from Pontaq Ventures Final product developed Final IP filed Final stages of clinical trials
	22	Senztech Technologies Private Limited - Dr. Rajib Biswas	Development of multimodal optofluidic prototype for sensing heavy metal ions	Assam	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing Team building 	Received BIG Grant Formed spinoff company MVP developed Initial field testing initiated
	23	Primogen Biotech Private Limited - Dr. Pranita Hazarika	Development of an affordable kit for simultaneous and rapid 3 H isolation of DNA, RNA and protein from A single leaf sample for genomic and proteomic analysis	Assam	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing Team building 	Received BIG Grant Formed spinoff company MVP developed Initial validation studies initiated

Enterprises from East & North East

	S No	Startup Name	Title	State	Entry TRL Level	Support Provided	Major Outcomes
BIG	24	Sumit Healthtech Private Limited - Mr. Ravindra Singh Kshatri	Indias only end to end solution for organ transplant	Chhattisgarh	TRL 3	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking Team building Hospital connect for deployment Grant application support Project Monitoring & Mentoring 	Received BIG Grant Final platform developed Onboarded hospital clients
	25	Halder Rehab Private Limited - Mr. Subrata Halder	Adjustable Postural Correction Chair : Cerebral Palsy	Odisha	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Industry connect Physical Incubation space IP filing Team building 	Received BIG Grant MVP developed Product deployed for testing IPs filed and granted
	26	Swayogya Rehab Solutions Private Limited - Ms. Pooja Jha	A portable Biophysically stimulated Therapeutic device for persons with knee osteoarthritis	Odisha	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building Mentor connect & networking Investor connect IP filing Accelerator Program Physical Incubation space 	Received BIG Grant Selected for NIDHI Accelerator MVP developed Final stages of clinical trials Product deployed for testing IPs filed and granted
	27	Balasore Agro Private Limited - Manoranjan Adhikari	Innovated Multi-Crop Seed Drill For Sowing Of Groundnut, Maize, Black/Green Grams, Soyabean, Etc	Odisha	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building Mentor connect & networking Investor connect IP filing Accelerator Program Physical Incubation space 	Received BIG Grant Final product developed IPs filed and granted Multiple products sold
	28	Envisage Medtech Private Limited - Pijush Giri	Highly Biocompatible and Injectable hydrogel for prevention of post-surgical adhesions	West Bengal	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Clinical trials and validation IP filing 	Received BIG Grant MVP developed IPs filed
	29	Losjovenes Clinilogic Private Limited - Dr. Lita Mohapatra	Matricaria chamomilla L. Chamomile nanospheres in the treatment of Skin Hyperpigmentation- a novel approach with stem cell extracts	Odisha	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building Clinical trials and validation IP filing Physical Incubation space 	Received BIG Grant MVP developed IPs filed Awarded Times Health Icon
	30	KNK Square Private Limited - Dr. Swadheena Patro	A Device : An adaptive technology to combat Dental Noise	Odisha	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building IP filing Physical Incubation space 	Received BIG Grant Initial Prototype developed IPs filed

Enterprises from East & North East

	S No	Startup Name	Title	State	Entry TRL Level	Support Provided	Major Outcomes
BIG	31	Renewable Envirogic Private Limited - Mr. Debasis Tripathy	Development of Novel Products from Biomedical Plastic Waste Recycling Facility	Odisha	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building Mentor connect & networking IP filing Physical Incubation space 	Received BIG Grant Initial Prototype developed Field testing initiated IPs filed
	32	ProCyto Labs Private Limited - Dr. Neera Singh	Development of a novel, preservative-free mechanical barrier gel formulation for eye allergies.	Odisha	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building Mentor connect & networking IP filing Physical Incubation space 	Received BIG Grant Formulation development under progress IPs filed Hospital collaborations forged
	33	JAS Biotech LLP - Dr. Sikha Mandal	Bio-sunscreen Product formulation using Mycosporine-Like Amino Acids MAAs of Cyanobacteria	West Bengal	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building IP filing 	Received BIG Grant Formulation development under progress IPs filed
	34	Felis Leo Widgets Private Limited - Ms. Nikita Baliarsingh	A Novel bio-degradable, non-toxic battery for Electric Vehicles and other Industrial applications from natural bio wastes	Odisha	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building Mentor connect & networking Investor connect IP filing Physical Incubation space Accelerator Program 	Received BIG Grant MVP Developed IPs filed Listed under Forbes 30 Under 3 Raised INR 2 Cr from JITO Angel Network
	35	Villa Mart Private Limited - Dr. Ramesh Chandra Biswal	IR imaging for auto detective quality assessment of Fruits and Vegetables	Odisha	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building Mentor connect & networking Investor connect IP filing Accelerator Program Physical Incubation space 	Received BIG Grant MVP Developed IPs filed Received innovation grant from MSME Filed deployment initiated
	36	Tech Sumo Services Private Limited - Shakeb Ameen	To demonstrate POC for a low cost and novel AIoT sensor for monitoring bovine behavior and early detection of bovine diseases	Jharkhand	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building IP filing 	Received BIG Grant Initial prototype development under progress IP filing under progress

Enterprises from East & North East

	S No	Startup Name	Title	State	Entry TRL Level	Support Provided	Major Outcomes
BIG	37	Leofelis Instruments Private Limited - Mr. Javed Akhtar Barbhuiya	Unmanned Surface Vessel - Fish Feeding System	Assam	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building IP filing 	<p>Received BIG Grant</p> <p>Initial prototype development under progress</p> <p>IP filing under progress</p>
	38	Babycue Private Limited - Mr. Manish Swain	A disposable paper analytical platform for rapid differentiation of childhood diarrhea	Odisha	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building IP filing 	<p>Received BIG Grant</p> <p>Initial prototype development under progress</p> <p>IP filing under progress</p>
	39	Bariflo-labs Private Limited - Mr. Mrutyunjaya Sahu	Intelligent mobile multipurpose dispenser and its integration with in-house developed aquaculture management system	Odisha	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building Mentor connect & networking Investor connect IP filing Accelerator Program Physical Incubation space 	<p>Received BIG Grant</p> <p>Final product has been developed</p> <p>Deployed the product across multiple sites</p> <p>Recognised as top 10 Agri-startup in Agri-Udaan</p> <p>Received govt grant support of 94 lakhs</p>
	40	Articulus Surgical Private Limited - Mr. Saurya Prakash Mishra	Design and Development of a Portable and Affordable Surgical Robotic System for Abdominal Surgery	Odisha	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building IP filing 	<p>Received BIG Grant</p> <p>Initial prototype development under progress</p> <p>IP filing under progress</p>
NIDHI Prayas	41	Inofinity Research and Development Private Limited - Dr. Ashok Kumar Badamali	Sanjivani qcpr : a resuscitation ecosystem connecting cardiac arrest victim with emergency health care service	Odisha	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building Mentor connect & networking Investor connect IP filing Accelerator Program Physical Incubation space 	<p>Received BIG Grant</p> <p>MVP Developed</p> <p>IPs filed</p> <p>Raised 25 lakhs from Pontaq</p> <p>Final stages of Clinical trials</p> <p>Hospital linkages forged</p>

Enterprises from East & North East

	S No	Startup Name	Title	State	Entry TRL Level	Support Provided	Major Outcomes
NIDHI Prayas	42	ASPIC Innovations Private Limited - Mr. Indrajit Chatterjee	Development of deep learning models for early screening of ovarian cancer through detection and classification of ovarian lesions by the variations in their sonological characteristics	West Bengal	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building IP filing 	Received BIG Grant Initial prototype development under progress IP filing under progress
	43	Imedtech LLP - Suman Chakraborty	Developing a hybrid fluorescent-colorimetric nano-bio conjugation platform technology and its application to distinguish between common flue versus novel coronavirus infection	West Bengal	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building IP filing 	Received BIG Grant Initial prototype development under progress IP filing under progress
	44	Jayma Bio Innovations Private Limited - Dr. Bunushree Behera	Fortified Biochar - Algal Biostimulants Nutrimix for Precision Agronomic-Fertilization	Odisha	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building IP filing 	Received BIG Grant Initial prototype development under progress IP filing under progress
	45	Poohar Essence Private Limited - Debajit Kalita	Development of microbial based spreading agents for agriculture	Assam	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing Team building 	Received NIDHI Prayas Grant Product Development ongoing
	46	Dr Dipankar Laboratories Private Limited - Dipankar Kalita	Novel and cost effective technology for organoleptic preservation and long duration storage of the heritage Assamese rice beverage "Apong"	Assam	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building IP filing 	
	47	Darubrahma Automation Robotics Private Limited - Rajendra Prasad Das	Platyrrhynchos vehicle	Odisha	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing Team building 	Received NIDHI PRAYAS Final product developed Academic & Industry collaboration forged Deployment & Field testing initiated

Enterprises from East & North East

	S No	Startup Name	Title	State	Entry TRL Level	Support Provided	Major Outcomes
NIDHI Prayas	48	iSAT System Private Limited - Mridul Kumar Sarkar	iSAT Smart Glass	West Bengal	TRL 4	<ul style="list-style-type: none"> Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing Team building 	Received BIG Grant Initial prototype development under progress IP filing under progress
	49	Jal Jaivik Bazaar Private Limited - Papan Das	Blockchain Technologies based Farm Management System	Odisha	TRL 5	<ul style="list-style-type: none"> Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing Team building 	Received SISFS fund Platform technology developed Field trials under progress IP filing under progress Awarded the Best Blockchain Startup by STPI
SISFS	50	Mokkomotto (OPC) Private Limited - Subhendu Satpathy	65W GaN USB Multiport Power Adaptor	Odisha	TRL 5	<ul style="list-style-type: none"> Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing Team building Investor connect Industry connect Physical Incubation space 	Received SISFS fund Final product developed Field trials under progress IP filing under progress Industry collaborations forged
	51	Ovest Technologies Private Limited - Asish Kumar Das	Numbr – A micro-investing app	Odisha	TRL 4	<ul style="list-style-type: none"> Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking Investor connect Industry connect 	Received SISFS fund Final app developed Standard validation under progress
	52	Yoshino Energy Private Limited - Anurag Thakur	Electric Cycle with Hub Motor	Odisha	TRL 5	<ul style="list-style-type: none"> Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing Team building 	Received SISFS fund Product developed Market linkages forged and clients onboarded
Incubation	53	Elementoz Private Limited - Dr. Jayshankar Das	Industrializing insect farming technology and development of IoT enabled decentralized reactor for the large scale sustainable protein production for live stock through circular economy	Odisha	TRL 5	<ul style="list-style-type: none"> Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking Physical incubation space IP filing Team building 	Received SISFS fund Initial stages of formulation development

Enterprises from East & North East

	S No	Startup Name	Title	State	Entry TRL Level	Support Provided	Major Outcomes
Incubation	54	Medilane HealthTech and Consultancy Services Private Limited - Dayananda Meetei	India Heath Card TM - A digital healthcare loyalty card	Manipur	TRL 7	<ul style="list-style-type: none"> Business mentoring Market linkage Clients onboarding Networking opportunities 	Winner of NE India Launchpad Cohort 1 Product Commercialized in Manipur
	55	Elgae Tech Private Limited - Bony Yumnam	Spirulina beverage in contained environs, closed-loop control production system	Manipur	TRL 3	<ul style="list-style-type: none"> Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking Team building 	Winner of NE India Launchpad Cohort 1.0 Product development ongoing
	56	Foundation for Advancement of Essential Diagnostics - Anamika Baruah	Point of care diagnostics	Assam	TRL 4	<ul style="list-style-type: none"> Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking Team building 	
	57	Sanajing Sana Thambal Private Limited* - Tongbram Bijayshanti Devi	Eco-friendly approach to produce garments from lotus fiber	Manipur	TRL 7	<ul style="list-style-type: none"> Business mentoring Market linkage Clients onboarding Networking opportunities 	Product Commercialized Received INR 10L funding from the State Govt of Manipur
	58	M/S Kumshungbam - Dr Wangkheirakpam Sujata	Herbal products	Manipur	TRL 3	<ul style="list-style-type: none"> Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking Team building 	Product formulation ongoing Patent granted
	59	M/S Ble & Zing - Chanreiphi Raising	Black pottery: eco-friendly homeware	Manipur	TRL 4	<ul style="list-style-type: none"> Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking Team building 	Product in pre-commercialization stage
	60	Vedam Agro Enterprise - Kshetrimayum Vedmani Devi	Processed locally available indigenous food	Manipur	TRL 4	<ul style="list-style-type: none"> Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking Team building 	Product Validation initiated
	61	Brahmaputra Techno Pharmaceuticals Private Limited - Somnath Chanda	Bioresource utilization of green tea leaves for preparation of products i.e. Green tea based nutraceutical spread	Assam	TRL 3	<ul style="list-style-type: none"> Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking Team building 	Winner of NE Changemaker, BRTC Product Development ongoing

* Startups / Innovators previously supported under **Changemakers**
Innovator previously supported under **NE Launchpad**

NE

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Entrepreneurs from East & North East

	S No	Innovator Name	Title	State	Entry TRL Level	Support Provided by KIIT TBI	Milestone Achieved
BIG & BIG-NE	1	Spaarsh Therapeutics Private Limited - Dr. Deepak Bharadwaj PVP	Bioactive reprogrammed nano-herbal formulation for photothermal therapy based cancer theranostics	Assam	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing 	Received BIG NER Call-1 Company Registered Initial Product development Provisional IP filed
	2	Dr. Lightson NG	Paper-based kits for onsite detection of methanol and formaldehyde	Assam	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing 	Received BIG NER Call-1 Company Registered Initial Product development
	4	Melinda Nongbet	Biodegradable adult diapers	Meghalaya	TRL 2	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing 	Received BIG NER Call-1 Initial Product development
	5	Dr. Prachuriya Dutta	Protein hydrolysate from bio-waste of Indian silk industry to fight malnutrition	Assam	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing 	Received BIG NER Call-1 Company Registration initiated Initial Product development Provisional IP filed
	6	Dr. Sangeeta Saikia	Development of three value- added functional food products from carambola pomace	Assam	TRL-3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing 	Received BIRAC BIG 21
	7	Spectramind Private Limited - Dr. Ajanto Kumar Hazarika	Development of portable spectroscopic instrument for on-site estimation of quality compounds in tea	Assam	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing 	Received BIG Call-18 Company Registered Initial Product development Provisional IP filed
	9	Knowledgepie Pvt. Ltd. -Dr. Madhulekha Gogoi	Novel synthesis of iron-platinum nanoparticle composite and their multifunctional applicability as MRI contrast agent and therapeutic agent	Assam	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing 	Received BIG Call-18 Provisional Patent Filed Company Registered Initiated Product Development
	10	Nutriciana Health Care Private Limited -Dr. Sanjay K Banerjee	Developing Nutritional Product from Musa balbisiana (Family: Musaceae, Genus: Musa) fruit to combat Malnutrition	Assam	TRL-3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing 	Received BIG NER Call-1 Company Registered Initial Product development
BIG & BIG-NE	11	Dr. Shubhankar Kumar Singh	Development of antigen detection based novel and accurate diagnostic approach to detect leishmaniasis	Bihar	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing 	Received BIG Grant Initial prototype development under progress IP filing under progress
	12	Dr. Akash Bihari Pati	A novel device for detecting the proximal extent of pathology leveling in Hirschsprung Disease	Odisha	TRL 4	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing Team building 	Received BIG Grant Initial prototype development under progress IP filed

Entrepreneurs from East & North East

	S No	Innovator Name	Title	State	Entry TRL Level	Support Provided by KIIT TBI	Milestone Achieved
BIG & BIG-NE	13	Dr. Atul Anand Bajoria	Development of first ever bromelain containing muco-adhesive buccal patch for management of oral submucous fibrosis	Odisha	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Team building Mentor connect & networking IP filing Team building Physical Incubation space 	Received BIG Grant Initial prototype development under progress IP filed Hospital linkages forged
	14	Dr. Sitabja Mukherjee	A unique oral spray Oro-InflaMin for alleviating Inflammation in Chronic lung diseases.	Odisha	TRL 3	<ul style="list-style-type: none"> Grant application support Project Monitoring & Mentoring Technical & business mentoring Mentor connect & networking IP filing Team building Physical Incubation space 	Received BIG Grant Initial prototype development under progress IP filing under progress
BIG-NE	15	Dr. Naba Kamal Nath	Multi-component Pharmaceutical Solid for Developing Skin Rejuvenating Facial Peel-Off Mask	Meghalaya	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking Team building Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant
	16	Manika Buragohain	Development of a cell culture adapted duck plague virus vaccine formula	Assam	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connects Networking Opportunities IP filing Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant
	17	Tholua Pratisthan Private Limited - Mr. Trailukya Dutta	Development of a deep penetrating anti-inflammatory Aged Garlic Oil VIPILIC DOLOR OIL from Brahmaputra Valley for the management of Arthritic Inflammation and allied pain.	Assam	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Networking IP filing Clinical testing and validation Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant
	18	Gloria Nyenthang	Commercialization of Shiitake mushroom cultivation in Nagaland	Nagaland	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking IP filing CRO connects for certifications Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant
	19	Dr. Naba Kamal Nath	Multi-component Pharmaceutical Solid for Developing Skin Rejuvenating Facial Peel-Off Mask	Meghalaya	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking Team building Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant

Entrepreneurs from East & North East

	S No	Startup Name	Title	State	Entry TRL Level	Support Provided by KIIT-TBI	Milestone Achieved
BIG-NE	20	Manika Buragohain	Development of a cell culture adapted duck plague virus vaccine formula	Assam	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connects Networking Opportunities IP filing Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant
	21	Tholua Pratisthan Private Limited - Mr. Trailukya Dutta	Development of a deep penetrating anti-inflammatory Aged Garlic Oil VIPILIC DOLOR OIL from Brahmaputra Valley for the management of Arthritic Inflammation and allied pain.	Assam	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Networking IP filing Clinical testing and validation Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant
	22	Gloria Nyenthang	Commercialization of Shiitake mushroom cultivation in Nagaland	Nagaland	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking IP filing CRO connects for certifications Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant
	23	Zosang Agro Pvt Ltd - Ms. Zosangzeli Chhakchuak	Affordable Smart Greenhouse scientifically designed for Northeast region	Mizoram	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking IP filing CRO connects for certifications Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant
	24	Jakoi Private Limited - Dr. Kiran Gogoi	Development of a Novel Low Cost Modular Orchidarium to create a Community led Orchid Value Chain involving Tribal Women SHGs supported by a Central Laboratory, QC and Commercial center.	Assam	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking IP filing CRO connects for certifications Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant
	25	Ms. Akumtoshi Lkr	Affordable and sustainable animal feed production	Nagaland	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking IP filing CRO connects for certifications Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant

Entrepreneurs from East & North East

	S No	Startup Name	Title	State	Entry TRL Level	Support Provided by KIIT-TBI	Milestone Achieved
BIG-NE	26	Maiyon Agro LLP - Mr. Premjit Okram	Commercial breeding of Tenebrio Molitor for the production of chitin and chitosan and for application as an alt. Protein and fertilizer	Manipur	TRL 1	<ul style="list-style-type: none"> • Technical & business mentoring • Mentor connect & networking • IP filing • CRO connects for certifications • Grant application support • Project Monitoring & Mentoring 	Received BIG NE Grant 5 Lakhs Raised from RKVY from CHF Arunachal Pradesh
	27	- Daphilari Nongkhaw	Production of degenerated varieties of Potato in Meghalaya through Apical Rooted Cutting ARC technology	Meghalaya	TRL 1	<ul style="list-style-type: none"> • Technical & business mentoring • Mentor connect & networking • IP filing • CRO connects for certifications • Grant application support • Project Monitoring & Mentoring 	Received BIG NE Grant
	28	- Dr. Kalyan Kumar Sethi	Economical scale-up process for the high yield and high purity Lutein production from marigold flowers	Assam	TRL 1	<ul style="list-style-type: none"> • Technical & business mentoring • Mentor connect & networking • IP filing • CRO connects for certifications • Grant application support • Project Monitoring & Mentoring 	Received BIG NE Grant
	29	Chayi Trails Private Limited - Mr. Nayan Jyoti Kalita	Producing Kombucha and other products from Assam tea collected from the different small tea growers of Assam	Assam	TRL 1	<ul style="list-style-type: none"> • Technical & business mentoring • Mentor connect & networking • IP filing • CRO connects for certifications • Grant application support • Project Monitoring & Mentoring 	Received BIG NE Grant
	30	- Shabiha Nudrat Hazarika	Development and validation of microbial formulation against Fusarial dieback disease and to reduce the chemical inputs in tea plantation	Assam	TRL 1	<ul style="list-style-type: none"> • Technical & business mentoring • Mentor connect & networking • IP filing • CRO connects for certifications • Grant application support • Project Monitoring & Mentoring 	Received BIG NE Grant
	31	- Atom Annapama Devi	Comparative Studies of Different Banana Pseudostem Fibers and its quality enhancement for Value Added Products	Manipur	TRL 1	<ul style="list-style-type: none"> • Technical & business mentoring • Mentor connect & networking • Team building • Grant application support • Project Monitoring & Mentoring 	Received BIG NE Grant Participated in BOEING BUILD 2.0 and was the top Finalist
	32	AmbyGOLD Manorama Food Pvt Ltd - Monalisha Borthakur	To develop nutritious, non-sticky, gluten free noodles and pasta from indigenous anthocyanin rich rice variety of NER	Mizoram	TRL 1	<ul style="list-style-type: none"> • Technical & business mentoring • Mentor connects • Networking Opportunities • IP filing • Grant application support • Project Monitoring & Mentoring 	Received BIG NE Grant

Entrepreneurs from East & North East

	S No	Startup Name	Title	State	Entry TRL Level	Support Provided by KIIT-TBI	Milestone Achieved
BIG-NE	33	InventGrid India Private Limited - Mr. Sambit Prasad Parida	Drone based soil and plant health analysis for precision agriculture in tea garden	Odisha	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Networking IP filing Clinical testing and validation Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant
	34	- Sayed Zahid Mustabin	Development of a modified process for minimizing the extraction cum processing time of Agarwood Oil without compromising quality.	Assam	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking IP filing CRO connects for certifications Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant
	35	Vertex Labs Private Limited - Mrs. Salomi Dabral	Integrated Robotic system for value creation from water hyacinth from municipality domestic sewage ponds	Odisha	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking IP filing CRO connects for certifications Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant IIT-Hyderabad (TiHAN) Fund StartUp Development Grant by ACIR Fund IIM Bangalore StartUp fund
	36	Melvyn Vanlalhlmpuia	Vegan Omega 3-6-9 Fatty Acids Emulsion from Sacha Inchi Plukenetia Volubilis Oil	Mizoram	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking IP filing CRO connects for certifications Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant
	37	Brahmaputra TechnoPharmaceuticals Private Limited - Mr. Somnath Chanda	Food & Pharmaceuticals Grade, High Surface Area Activated carbon	Assam	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking IP filing CRO connects for certifications Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant Proposal selected for Assam Biotech Conclave 2015, organized by GBP for final pitching 1st Prize at IITG-TIC Innovation competition 2016, organized by IITG. (Rs.20,000/-) 3rd Prize in Action Plan under Pryatna 2018, organized by IIT Guwahati. (Rs.5,000/-) 2nd Prize at NE-Hackathon-2019 organized by ASTU, Govt. of Assam. (Rs.75,000/-)

Entrepreneurs from East & North East

	S No	Startup Name	Title	State	Entry TRL Level	Support Provided by KIIT-TBI	Milestone Achieved
BIG-NE	38	- Laldingngheti Bawitlung	Production of a hair care formulation from Litsea cubeba and Tithonia diversifolia, plants native to Mizoram with potential activity against dandruff causing pathogens	Mizoram	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking IP filing CRO connects for certifications Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant
	39	ChemSus Technologies Pvt Ltd - Nageswara Rao Peela	Process validation of bamboo biomass conversion to levulinic acid and its derivatives for pharmaceutical applications	Assam	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking IP filing CRO connects for certifications Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant
	40	- Ayam Victor Singh	Value addition to the traditional rice wine of North East India and minimizing post-harvest loss of fruits	Arunachal Pradesh	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking IP filing CRO connects for certifications Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant
	41	Nima D. Namsa	Development of an ELISA detection kit for the early diagnosis of scrub typhus	Arunachal Pradesh	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking IP filing CRO connects for certifications Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant
	42	Labdig Innovations and Systems Private Limited - Dr. Chayanika Deka Nath	All phone-based multimodal microscopic system for laboratory applications in resource-poor settings	Assam	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking IP filing CRO connects for certifications Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant Received NRL IDEATION
	43	- Dr taraknath Kundu	Efficacy studies to design smart self-breathable nano-bandage for chronic wound management	Sikkim	TRL 1	<ul style="list-style-type: none"> Technical & business mentoring Mentor connect & networking Team building Grant application support Project Monitoring & Mentoring 	Received BIG NE Grant

Entrepreneurs from East & North East

	S No	Innovator Name	Title	State	Entry TRL Level	Support Provided by KIIT TBI	Milestone Achieved
SIIP	44	Chandralekha Ayekpam#	Non conventional method of cultivation of medicinal mushrooms (Cordyceps Sp.)	Manipur	TRL 1	<ul style="list-style-type: none"> Idea validation Technology development Technical Mentoring Mentor connect Academia linkage 	Winner of Changemakers of NE, BRTC Initiated Product Development
	45	Romi Kumari	Formulation of a Lotion/Antiseptic/Cold Management Stick from Mustard Oilcakes	Odisha	TRL 1	<ul style="list-style-type: none"> Idea validation Technology development Technical Mentoring Mentor connect Academia linkage 	Initiated Product Formulation

* Startups / Innovators previously supported under **Changemakers**

Innovator previously supported under **NE Launchpad**

NE

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NE Startups Onboarded through NESS Summit 1.0 *(Extension Period)*

18 Startups signed the Incubation Agreement with KIIT-TBI and MTI-Hub. The startups will be provided pro bono incubation for 1 year along with product development support, IP filing and raising follow on funding assistance.

1 Anguki Industries Pvt Ltd

Founder: Mr. Kapil Thapa
Innovation: A novel technology to manufacture Furniture & Engineering materials from waste Banana pseudo stem
State: Nagaland

2 M/S Ashatech

Founder: Mr. Ashok Phairembam
Innovation: Developing a remote health monitoring device for rural areas
State: Manipur

3 Healthy Mystic Enterprises

Founder: Mr. Sarju Meitankeisangbam
Innovation: Manufacturing & Marketing of traditional tea from Manipur
State: Manipur

4 Yakairol Engineering Pvt Ltd

Founder: Mr. Thokchom Sanju Singh
Innovation: Advance Home Switch based on STEM Kit for education purpose
State: Manipur

5 Nga Keithel

Founder: Mr. Hemam Rojesh Singh
Innovation: A one-stop solution regarding commercializing the fish products
State: Manipur

6 Dianthe

Founder: K Chokhone
Innovation: Digital commercialization of flower and floral products
State: Manipur

7 Primal Care Health Services

Founder: Mr. Devasish Thoudam
Innovation: A platform that provides multiple healthcare services like Nursing Services, Doctor on-call, in-house medications, etc.
State: Manipur

8 Wang E-Services

Founder: Mr. Ngangom Chitrajit Singh
Innovation: Electric cycles & scooters with easily installable lithium-ion battery packs
State: Manipur

9 Picasoid Health Pvt Ltd

Founder: Mr. Leimapokpam Rojen Singh
Innovation: API platform to hospitals for online appointments and e-prescriptions
State: Manipur

10 Korou Food Processing

Founder: Mr. Keisam Premkumar Singh
Innovation: Developing a technology for flexible retort pouch packaging
State: Manipur

11 Ezanvel Solutions Pvt Ltd

Founder: Mr. Panam Leishangthem
Innovation: bTX Lively-A SaaS Video Contextual Digital Marketing
State: Manipur

12 October Pumpkin

Founder: Rinchon Kashung
Innovation: Home Fragrance to Elevate Your Atmosphere
State: Manipur

13 PPMF

Founder: Mr. Liankhan Siam
Innovation: Providing employment opportunities to the farmers and also making education accessible to the remote areas.
State: Manipur

14 Riptrip

Founder: Ms. Padmini Konsam
Innovation: Organizing Manipur's Community Potters as a Sustainable Industry
State: Manipur

15 Midas Touch (DST NIDHI PRAYSAS)

Founder: Ms. Moirangthem Rosy
Innovation: Affordable EV bicycles
State: Manipur

16 Wigistic Ventures Pvt Ltd

Founder: Mr. Moirangthem Bidya Kanta Singh
Innovation: Online food ordering & delivery for remote locations
State: Manipur

17 I.R.M Robots

Founder: Mr. Irom Roshan Meitei
Innovation: Remote controlled bomb disposal robot equipped with camera for monitoring
State: Manipur

18 Korous Water (DST NIDHI EIR)

Founder: Dr. Binota Thokchom
Innovation: Novel water filtration device
State: Manipur

NE India Launchpad 2.0 - **Winners** (*Extension Period*)

The top 16 startups will be provided cash prizes, pro bono incubation for 1 year along with mentorship, product development support, IP filing and raising follow on funding assistance.

1 PiCaSoid- Rojen Leimapokpam

Innovation: Picasoid - Health Platform For Everyone
State: Manipur

2 Imphal machines- Dayanidhi Huidrom

Innovation: Fruit Peeling Machine
State: Manipur

3 Dianthe-K Chokhone

Innovation: Floriculture As An Entrepreneurial Venture
State: Manipur

4 Karter Lombi

Innovation: An Initiative For Handmade Pottery
State: Manipur

5 Prem Ningombam

Innovation: Exoskeleton Suit which improves work performance by allowing them to lift heavier loads with less pain and discomfort.
State: Manipur

6 Sinnai Loom- Saikhom Surjit Singh

Innovation: Power Fly Shuttle Loom And Motorized Spinning Wheel.
State: Manipur

7 CLAY TECH- Padmini Konsam

Innovation: CLAY-TECH: Clay Technology For Establishing Ceramics Hub
State: Manipur

8 PurpledTV-Dustin Thangjam

Innovation: PurpledTV-an OTT platform which aims to become the multi-lingual directory of entertainment contents of Northeast India.
State: Manipur

9 Wairok Tomuishang Makunga Maring

Innovation: BANANA & MANIPURI GLUTINOUS RICE FORTIFIED NOODLES
State: Manipur

10 PIM Biotech- Pangambam Ingoba Metei

Innovation: Development of herbal based fish pharmaceuticals products for modern aquaculture
State: Manipur

11 M/S Ashatech-Ashok Phairembam

Innovation: Location & Network Independent, Standalone Remote Health Monitoring Device
State: Manipur

12 QONECT-Lian Thangvung

Innovation: Qonect-Access To Credit And Affordable Healthcare For All
State: Manipur

13 Kshetrimayum Tojo Singh

Innovation: Air Purifier with heap filter using bamboo
State: Manipur

14 KangleiTech Robotics- Md. Iquebal Ahmed & Md. Umar Khan

Innovation: A Sustainable Enterprise
State: Manipur

15 RunoFresh-Siddharth Das

Innovation: To Transform Fresh Meat Buying Experience in Tier 2 & Tier 3 Cities
State: Manipur

16 M/s TC Bakery- Sanjib Das

Innovation: Replacing wheat flour by using Assam's Special Joha Rice flour along with few natural herbs in Bakery Industry
State: Manipur

Key Stakeholders



MINISTRY OF DEVELOPMENT OF
NORTH EASTERN REGION



Department of
Information Technology
Government of Manipur



Glimpses



KIIT Technology Business Incubator

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