



North East Centre for Technology Application and Reach

An Autonomous Institute of the Department of
Science & Technology, Government of India

ANNUAL REPORT 2024-2025

ABOUT NECTAR

The North East Centre for Technology Application and Reach (NECTAR) was established as an autonomous institution in Shillong, Meghalaya, under the Department of Science and Technology, Ministry of Science and Technology, Government of India. The creation of NECTAR was approved by the Cabinet Committee on Economic Affairs on June 7, 2012, and it was officially registered under the Societies Registration Act of 1860 on November 30, 2012. Following a Cabinet decision, two previous technology missions, the National Mission on Bamboo Application (NMBA) initiated in 2004, and the Mission for Geospatial Applications (MGA) started in 2009, were merged into NECTAR, along with their assets and liabilities, beginning January 1, 2014.

NECTAR aims to be a premier institution for promoting, nurturing, and ensuring the application of technology for public and social benefit. Its mission is to expand the reach and advantages of technology to individuals, communities, institutions, and governments, fostering equitable and inclusive socio-economic development in the North Eastern Region of India. The Centre will leverage advanced technologies from central scientific departments and institutions to support regional development.

NECTAR will focus on applying suitable technologies in areas such as agriculture, food processing, water sanitation, biodiversity, watershed management, telemedicine, horticulture, infrastructure planning and development, and education via tele-schooling with cutting-edge technological solutions. The Centre's goal is to generate employment and contribute to the overall development of the North Eastern Region.

The headquarters of NECTAR are located in a leased building of the Survey of India in Shillong, with two operational field offices at Guwahati. NECTAR also operates in Agartala, Tripura, managing the Bamboo & Cane Development Institute (BCDI). While the majority of NECTAR's staff work on various projects throughout the Northeastern Region, a small number of administrative and technical staff operate from the Delhi office located in Viswarkarma Bhawan on the IIT-Delhi campus. A permanent NECTAR campus is planned for New Shillong Town Area, on a 5-acre site allocated by the Government of Meghalaya, which is currently in the construction planning stage with the assistance of a Project Management Consultant.



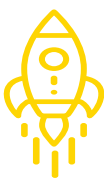
VISION

To be the leading centre to foster, nurture and ensure delivery of established technology applications for public and social good, and to expand the benefits of technology among people, communities, institutions and governments for equitable and inclusive social and economic development of the North Eastern Region.



MISSION

- Housing and leveraging technologied from R&D labs and other origins of repute
- Utilisation of local, natural and other resources
- Demonstration of adaptable technologies
- Associated skill development programs for entrepreneurship and livelihoods
- Workshops, conferences and conclaves for problem identification and solutions



TECHNOLOGY SECTORS

- Agriculture and allied
- Bamboo and allied
- Communication and IT
- Environment and sustainability
- Food processing
- Geospatial
- Health and allied
- Livelihoods
- Natural Fibres and textiles

NECTAR COMMITTEES FY 2024-2025

Governing Council (GC) of NECTAR

| | | |
|-----|--|------------------|
| 1. | Secretary, Department of Science and Technology, GOI | Chairman |
| 2. | Chief Secretary, Govt. of Arunachal Pradesh | Member |
| 3. | Chief Secretary, Govt. of Assam | Member |
| 4. | Chief Secretary, Gov.t of Manipur | Member |
| 5. | Chief Secretary, Govt. of Meghalaya | Member |
| 6. | Chief Secretary, Govt. Mizoram | Member |
| 7. | Chief Secretary, Govt. of Nagaland | Member |
| 8. | Chief Secretary, Govt. of Sikkim | Member |
| 9. | Chief Secretary, Govt. of Tripura | Member |
| 10. | Secretary, North Eastern Council (NEC) | Member |
| 11 | Director General, NECTAR | Member Secretary |

Executive Council (EC) of NECTAR

| | | |
|---|--|--|
| 1 | Director General, NECTAR | Chairman |
| 2 | Smt. S. Lalthangzo, Economiv Adviser & I/C Director (S&T), NEC | Member (Representative of North Eastern Council) |
| 3 | Smt. Zeneikhunuo Vimero, Joint Secretary & Director, Deptt. of Science and Technology, Govt. of Nagaland | Member (Representative of North Eastern States) |

Finance Committee (FC) of NECTAR

| | | |
|---|--|---|
| 1 | Dr. Arun Kumar Sarma, Director General, NECTAR | Chairman |
| 2 | Sh. Vishvajit Sahay, IDAS, Additional Secretary & Financial Adviser, DST | Member |
| 3 | Smt. S. Lalthangzo, Economiv Adviser & I/C Director (S&T), NEC | Member |
| 4 | Smt. Zeneikhunuo Vimero, Joint Secretary & Director, Deptt. of Science and Technology, Govt. of Nagaland | Member (Representative of North Eastern States) |
| 5 | Dr. Krishna Kumar, Advisor(T), NECTAR | Member |
| 6 | Sh. Simon Phukan,Sr. Administrative Officer, NECTAR | Member Secretary |

PROMOTING SCIENTIFIC ORGANIC AGRICULTURE IN NORTH EAST INDIA

BACKGROUND

The project “Promoting Scientific Organic Agriculture in Northeast India” sanctioned under PM-DevINE scheme by the Ministry of DoNER envisions creating 250 organic certified clusters across North East through technical expertise on organic farming, development of demonstrative farm labs, supply of planting materials, setting up of soil testing laboratory, drone data management and MIS and digital agriculture which is aimed at connecting the farm to the market and ensuring its benefits to health and wellness is promoted.

DRONE SURVEY AND CLUSTER LEVEL MAPPING

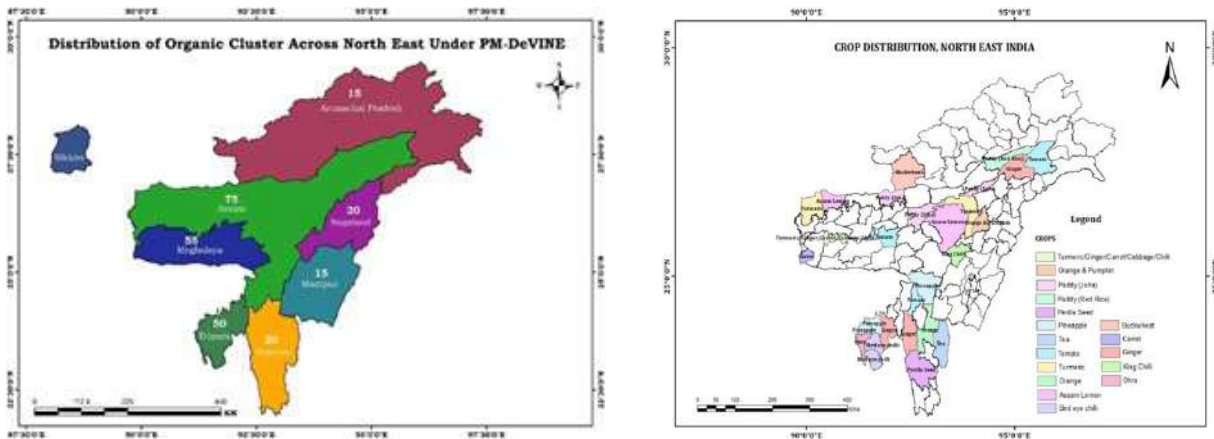
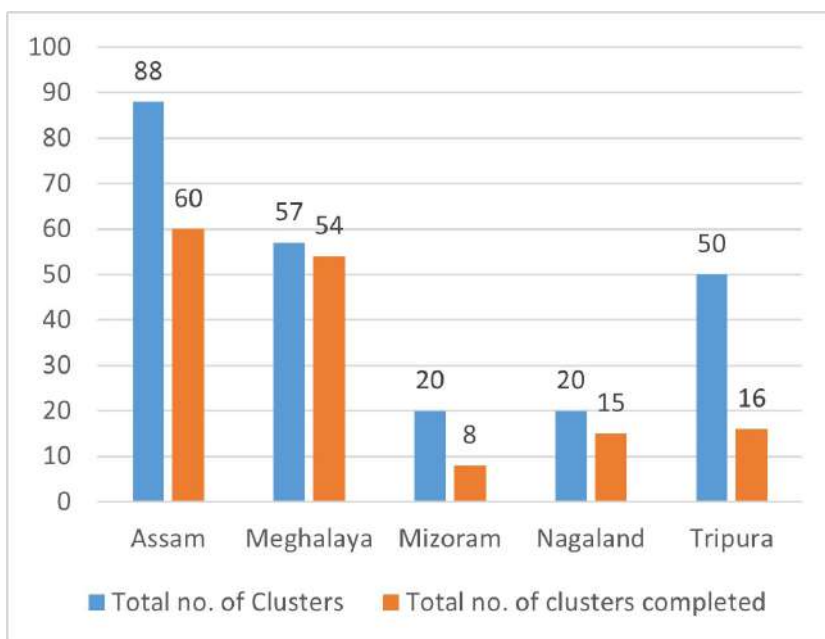


Fig: Distribution of Organic Clusters across NER and crop distribution at Cluster Level

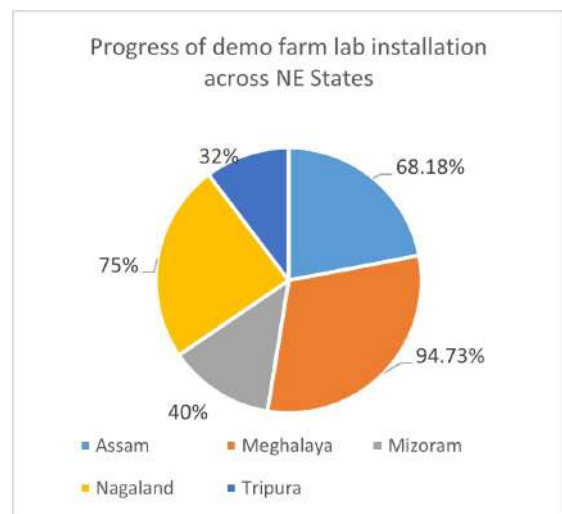
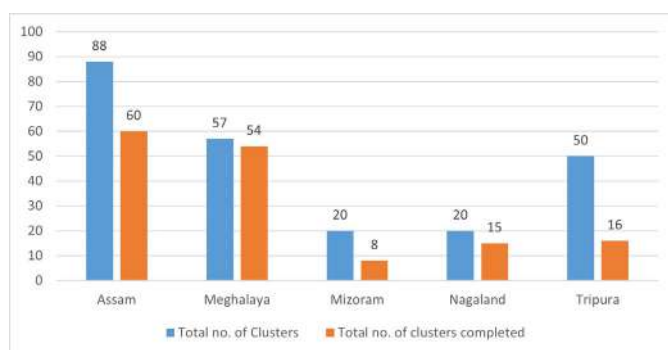


ESTABLISHMENT OF DEMO FARM LAB

The demonstration farm lab is one of the most important components of the project. It serves as farmers field school where 100 farmers at cluster levels will be trained on various aspects of organic farming by the master trainers. The demo farm lab will also have provision for preparation of different types of bio inputs to be used during cultivation. Till date, 150 number of farm labs have been completed at different project implementation sites.



Fig: Inauguration of Demo Farm Lab



TRAINING AND CAPACITY BUILDING OF FARMERS AT CLUSTER LEVEL

Farmers level training is being conducted at cluster level by the master trainers, till date, 58 clusters in Assam, 54 clusters in Meghalaya, 7 clusters in Nagaland, 11 clusters in Tripura, and 3 clusters in Mizoram have been completed the training program. The total number of farmers benefitted through the training program is 13300 farmers. The training program focussed on preparation of different types of biofertilizers and biopesticides, PGS awareness, marketing linkages and crop specific bio input recommendations.

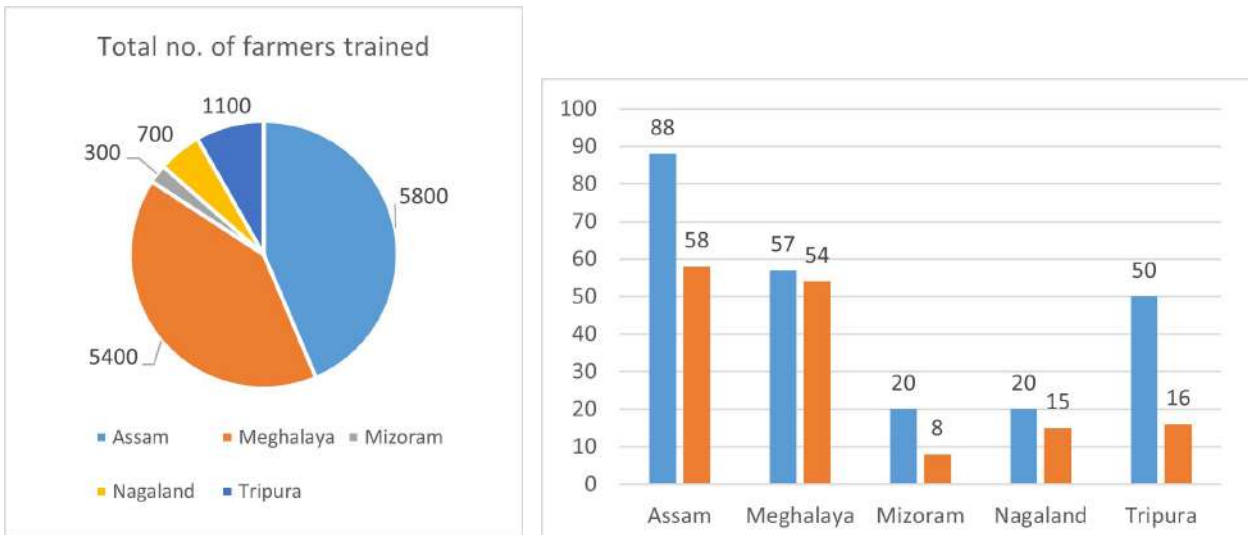


Fig: Trainee farmers training program at cluster level

SEED DISTRIBUTION

Organic planting materials were supplied to the farmers as per the proposed crop commodities, baseline survey and crop cycle which include various crops such as Paddy (Joha, red and black rice), Assam lemon, Buckwheat, pineapple, ginger, turmeric, oranges, banana, bottle gourd and seasonal vegetables.





Fig: Distribution of planting materials to farmers

VASUNDHARA SOIL ORGANIC CARBON DETECTION KIT

NECTAR developed “Vasundhara” soil organic carbon detection kits with the technical support of Bhabha Atomic Research Centre (BARC). A total of 25000 kits will be manufactured and distributed to farmers under PM-DevINE scheme for free of cost. For doing so, a mini lab cum manufacturing unit was established in the NECTAR campus, Shillong and was inaugurated by Shri. D. P. Wahlang, Chief Secretary, Govt of Meghalaya in presence of Dr. M. Mohanty, Head, A I Division, Department of Science & Technology. The kit ma date, 100 farmers from Nagaland have received the soil testing kit and 5000 more farmers are anticipated to receive the kit by the end of July.



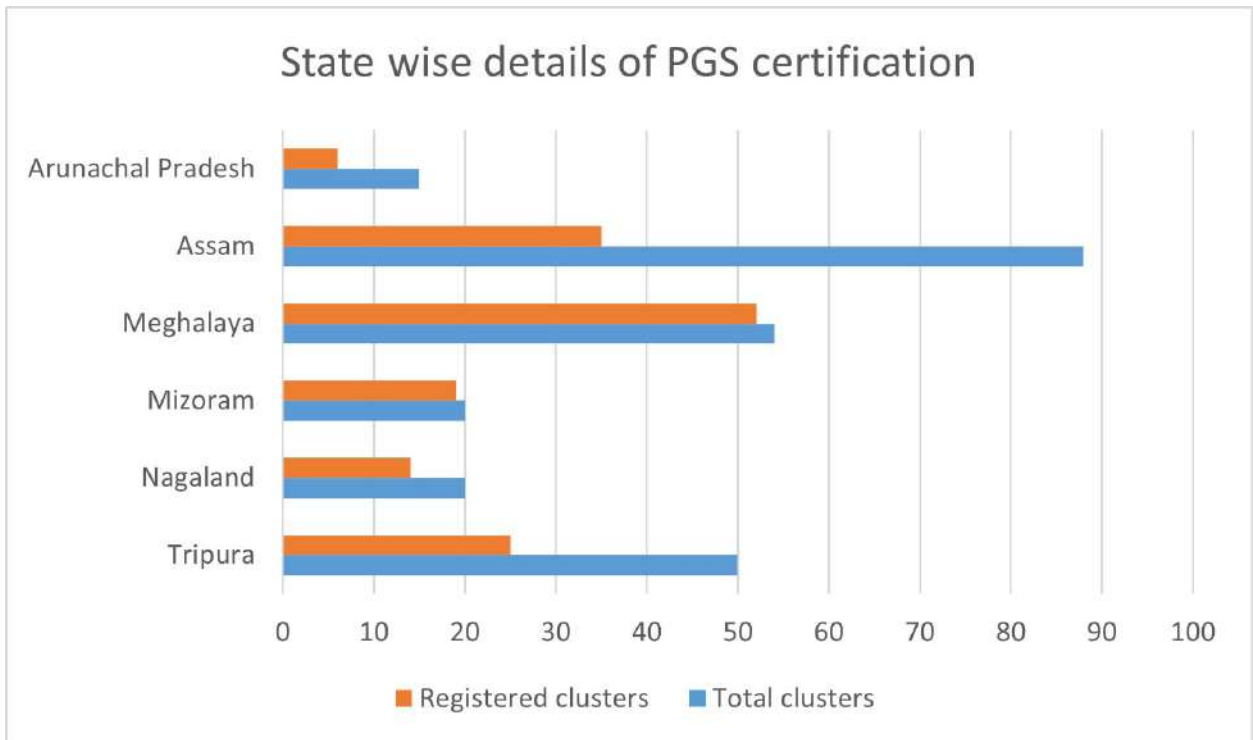
Fig: Inauguration of Vasundhara Soil organic carbon detection lab cum manufacturing unit at NECTAR, Shillong by Sh. D P Wahlang, Chief Secretary, Govt of Meghalaya.



Fig: Distribution of soil testing kits and training materials to farmers in Nagaland by Director General and Advisor (Tech), NECTAR

PGS CERTIFICATION

Till date, 41 local groups (4100 farmers) have received their first PGS Green 1 scope certificate, besides, 151 clusters (15100 farmers) have already been registered at the PGS online portal and the first scope certificate for these clusters is anticipated by the upcoming Kharif season.



PGS - India
 A Participatory Organic Guarantee Programme
 Department of Agriculture & Farmer Welfare
 Govt. of India

Certificate No.: 20250516120841
 Date of Issue (DD/MM/YYYY) - 16/05/2025

Scope Certificate

This is to certify that the product(s) and area(s) belonging to PGS-India HAKUA ABADARI NECTAR PGS GROUP Registered with Regional Council No PGS/NEC/RC-4635 QMARK INTERNATIONAL CERTIFICATIONS PVT LTD are in accordance with requirements of PGS-India National Standards For Organic Production For the process of: "Crop Production" This Scope Certificate valid from(DD/MM/YYYY) 16/05/2025 until 16/05/2026 for those farmers product(s) and area(s) specified in the annexure 257354

The validity of this certificate solely depends on the continued compliance with the required standards and PGS-India guidelines.

Signature of PGS India Group Leader
 Local Group No. LG61158692013

Authorised by : QMARK INTERNATIONAL CERTIFICATIONS PVT LTD
 Regional Council for PGS in ASSAM
 Authorization No. - PGS/NEC/RC-4635
 Date - 16/05/2025

Fig: GS-1 Scope certificate

MANAGEMENT OF INFORMATION SYSTEM

For the management of information system, a web portal and a mobile based app has been developed which will provide real time information on soil data, farmers detail, crop details, geographical specifications etc. This will also serve as a repository and a database for future references to all the stake holders, Government departments and entrepreneurs. The mobile based app was recently launched by HM Dr. Jitendra Singh. To ensure that each cluster is well connected with digital agriculture and database, smart phones are distributed to all the master trainers.



Fig: Launching of mobile app during foundation stone laying ceremony of NECTAR permanent campus



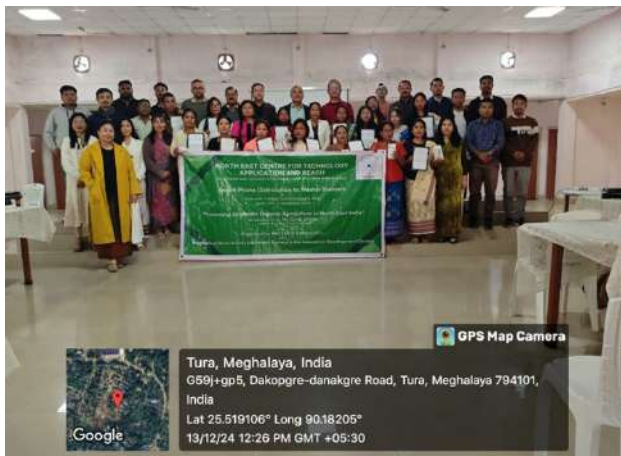


Fig: Distribution of smart phones to master trainers on various occasions organized by NECTAR

RELEASE AND DISTRIBUTION OF TRAINING MATERIAL

NECTAR has compiled two training materials (Volume I and II) for “Promoting Scientific Organic Agriculture in North East”. The training materials encompasses a wide area of organic farming such as overview of organic agriculture, methods of preparation of different type of bioinputs (Jeevamrut, beejamrut, vermicompost, agniastra, neemastra etc.), crop cycle and growing pattern of each potential crops of the region. The training material was released by Shri. Abhya Karandikar, Secretary, Department of Science & Technology, Govt. of India during the Indian International Science Festival held at IIT-Guwahati.



Fig: Release of training materials during IISF 2024 at IIT-Guwahati



Fig: Distribution of training materials to farmers



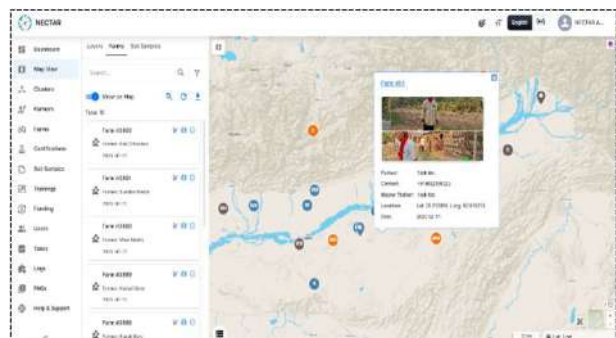
Fig: Inauguration of demo farm lab by Hon'ble Director, M/o DoNER, Shri. Vijay Goel in presence of NECTAR Officials.

DIGITAL AGRICULTURE DATA MANAGEMENT

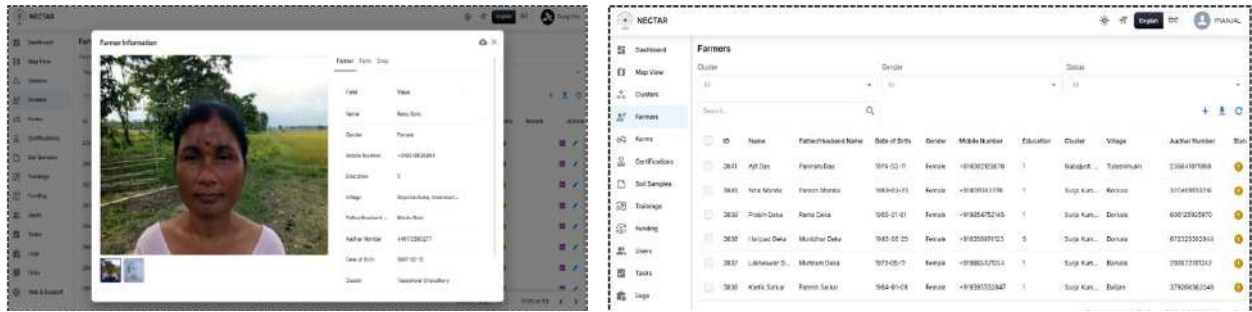
- Management Information System (MIS) and a mobile application has been developed under the project “Promoting Scientific Organic Agriculture in Northeast India” in PM-DevINE scheme, to capture view and monitor the project on a real-time basis. Farmer level data are being captured using the mobile application and sent directly to secured server hosted at NECTAR office Guwahati, which in turn can be viewed and analysed on a real time basis using the dashboard. Farmer level information such as their respective geotagged location of farms, latitude-longitude, date and time taken, calculation of individual farm area, farmer biodata are a few that will be captured using the mobile application.
- The Management Information System is equipped with statistical and graphical interface that will help the user in viewing and monitoring as well as downloading the desired information for intended use. The MIS dashboard and Mobile application is one of the key components that will help to capture, track and store relevant information specific for the project.



HOME PAGE

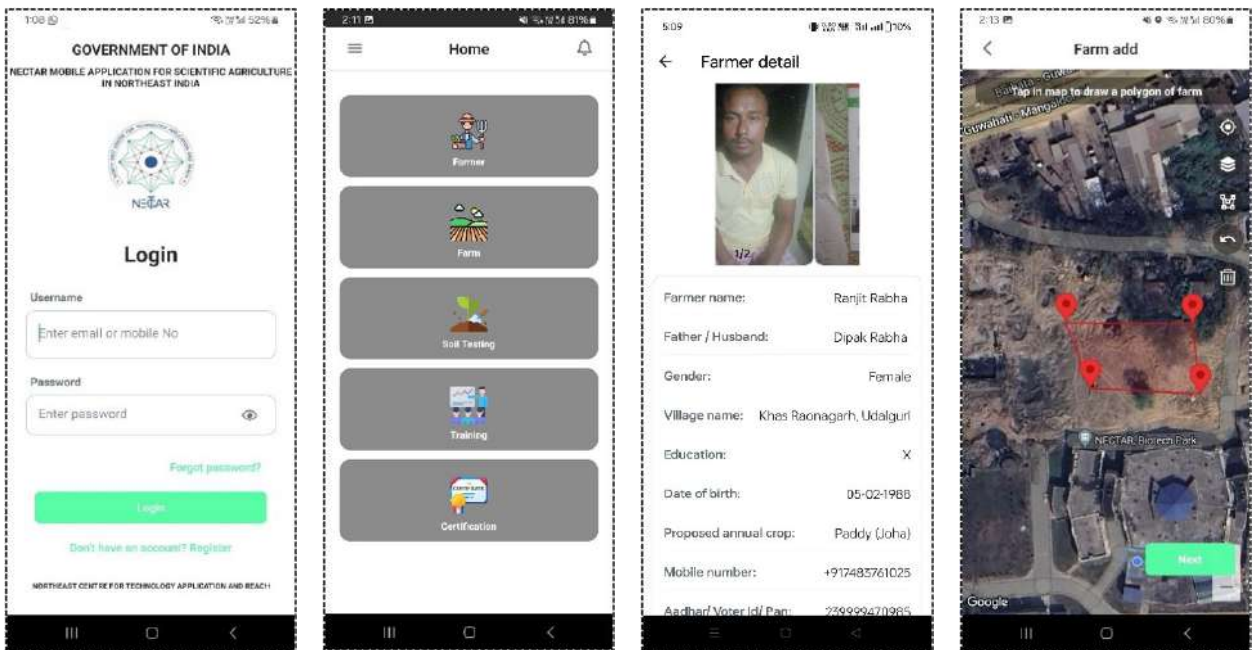


GEO TAGGED LOCATIONS



FARMER DATABASE ENTRY

Fig: Management Information System Dashboard in desktop website view



LOGIN PAGE HOMEPAGE FARMER DETAILS GEOTAGGING FEATURE

Fig: Management Information System Dashboard in mobile view

NECTAR Launches Organic Agriculture Project In Arunachal Under PM-DevINE Scheme



East Kameng/West Kameng, June 3, 2023 - is a significant step towards advancing organic agriculture in Arunachal Pradesh, the North East Centre for Technology Application and Reach (NECTAR), an autonomous body under the Department of Science and Technology Government of India, has initiated key interventions under the project "Promoting Scientific Organic Agriculture in the North East Region."

Funded by the Ministry of Government of North Eastern Region (MGNREGS) under the PM-DevINE scheme, the project is being implemented in 15 clusters across East Kameng and West Kameng districts.

The PM-DevINE Organic Scheme aims to create a robust organic farming ecosystem throughout the Northeastern states by focusing on farmer training and capacity building, facilitating organic certification, establishing demonstrative farm labs at the cluster level, developing community seed banks, and creating a digital architecture using modern technologies such as UAVs. This digital system will integrate key components such as farmers' details, yield, soil characteristics, and more for data-driven decision-making. It also emphasizes market linkage of organic produce through e-marketing platforms and dedicated organic outlets.

The scheme envisages the establishment of 250 organic-certified clusters, each guided by a Master Trainer and involving 100 trainee farmers. The overall goal is to train 25,000 farmers across the Northeast, ensuring their produce is certified and connected to viable markets. The state-wise distribution of these clusters is as follows: Assam (78), Meghalaya (52), Tripura (50), Mizoram (20), Nagaland (20), Manipur (15), and Arunachal Pradesh (15). In Arunachal Pradesh, the project targets 1,300 farmers across 15 clusters. The focus areas include scientific capacity building, land certification under the Participatory Guarantee System (PGS), and digital monitoring of progress.

To enhance field coordination and digital data management, 15 smartphones were distributed to Master Trainers in East and West Kameng districts. These devices will be used to track farming activities, collect field-level data, and ensure efficient communication among trainers, farmers, and agricultural experts to address on-ground challenges effectively.

Additionally, Master Trainers received training materials to support farmer education sessions within the clusters. These materials include modules on organic practices, composting techniques, and natural pest management - designed to strengthen grassroots knowledge on sustainable farming practices.

As part of the seed support initiative, biofertilizer seeds were distributed in several clusters: four clusters in Shergong, one in Jigon, one in Membaruba, and four clusters in Rupa and Thongre.

The distribution ceremony was graced by several senior NECTAR officials, including Shri Rakesh Kumar Samraha (Chief Coordinator, Technical), Dr. Prabhat Borpuuzai (Regional Officer), Shri Pranjal Sanku (MS Coordinator), Shri Dharmendra Kumar Jha (Senior Analyst), and Shri Bipul Seta (Junior Analyst).

A VALUE CHAIN ON UTILIZATION OF BANANA PSEUDOSTEM FOR VALUE-ADDED PRODUCTS

PROJECT OVERVIEW

NECTAR 's Livelihood Improvement Project under the PM-DevINE Scheme is a flagship initiative aimed at building a sustainable, inclusive value chain around banana pseudostem—a traditionally discarded agricultural by-product. Implemented across the North Eastern Region (NER), the project promotes technology-led entrepreneurship, green innovation, and rural income enhancement. At its core, the initiative integrates zero-waste technology, which ensures that every part of the banana pseudostem is transformed into valuable outputs, leaving no residue behind. This approach minimizes environmental impact while maximizing resource efficiency and value creation.

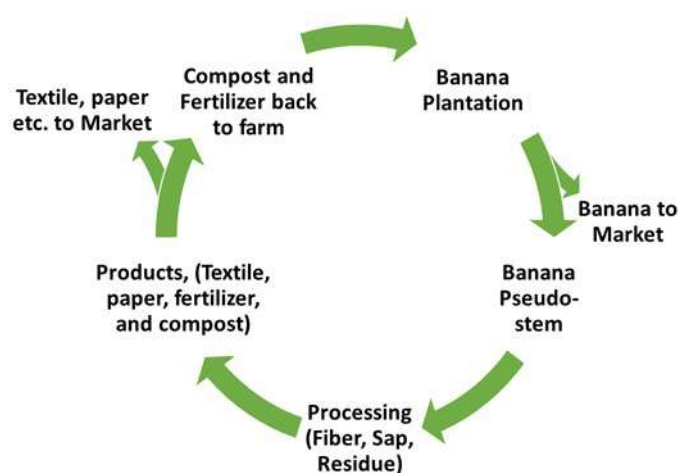


Fig: Zero-Waste Circular Economy Model Based on Banana Pseudostem

By converting the banana pseudostem into fiber, organic bio-fertilizer, paper, yarn, vegan leather, and food products, this initiative opens new streams of income for farmers, artisans, and women entrepreneurs. The project not only emphasizes sustainable agriculture and waste-to-wealth conversion but also empowers local communities to participate in circular economy models and self-reliant development.

PROJECT OBJECTIVES

The project aims to establish Common Facility Centers (CFCs) in twelve locations across the Northeast to enable processing of banana pseudostem into diverse value-added products. These include fiber extraction for nonwoven fabric and handicrafts, sap-based organic liquid fertilizer, edible core-based food items, paper products, and other innovative materials like vegan leather and yarn. It is envisioned that each CFC would become a hub for rural employment, training, and industrial production, benefiting over 175 individuals directly and many more through secondary employment and enterprise development. Farmers are encouraged to utilize every component of the banana plant, enabling them to earn significantly more from what was once considered agricultural waste.

IMPLEMENTATION SITES

The project is rolled out in two phases - Phase I covered six locations: East Siang (Arunachal Pradesh), Boko (Assam), Ri-Bhoi (Meghalaya), Serchhip (Mizoram), Chümoukedima (Nagaland), and Agartala (Tripura).

Phase II will expand to another six districts: Kokrajhar, Kamrup, and Nalbari in Assam; Churachandpur in Manipur; Wokha in Nagaland; and Khowai in Tripura.



Fig: Proposed Sites for 12 CFCs Across the Northeast Region

CLUSTER IDENTIFICATION AND CULTIVATION MAPPING

As part of the preparatory groundwork for establishing Common Facility Centers (CFCs) under the PM-DevINE Livelihood Improvement Project, an extensive cluster identification exercise was undertaken across the six Phase I states using Google Earth-based geo-mapping and ground validation surveys. This effort aimed to pinpoint regions with significant banana cultivation to ensure raw material availability and community participation near each CFC.

Through this exercise, strategically located clusters were identified across the northeastern states. In Arunachal Pradesh (East Siang), two clusters covering villages like Ngorglung, Lingka, and Nari span approximately 3.48 sq. km. Assam (Boko) comprises three clusters—Jongakhuli, Madang, and Singra—collectively covering around 8.18 sq. km. Nagaland (Chumukedima) has two clusters including Chumu, Niuland, and Mengujuma, spread over 3.68 sq. km. In Tripura (Agartala), a single cluster extends over 0.54 sq. km. Mizoram (Serchhip) features one cluster covering 1.54 sq. km, while Meghalaya (Umsiang) includes two clusters in villages such as Umsiang Maiong and Umling, totaling 1.48 sq. km under banana cultivation.

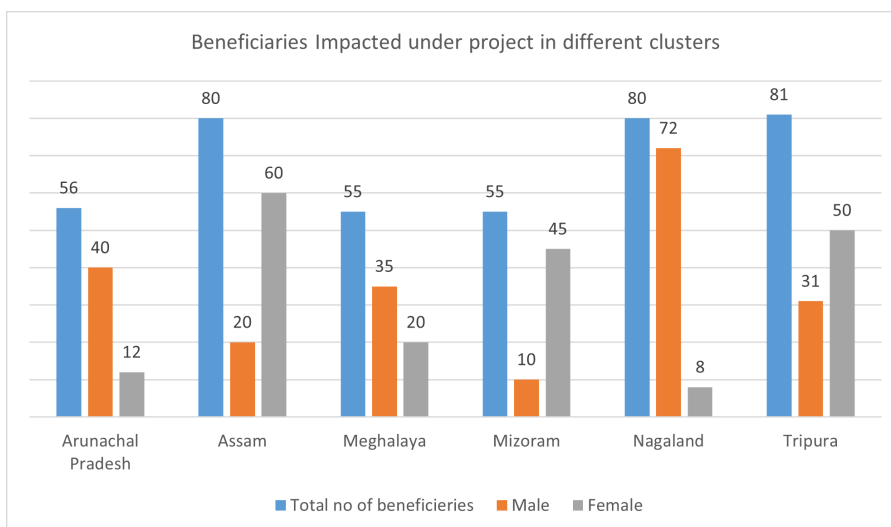


Fig: Cluster Mapping of Banana Plantation Villages Across Northeast India.

While the currently identified area under cultivation may seem modest, further surveys have revealed that the agro-climatic conditions and soil profiles in these regions are highly conducive to banana farming. However, to unlock the full potential of these areas and expand cultivation, there is a pressing need to undertake extensive farmer education and awareness campaigns on the benefits and best practices of banana farming. This will be crucial in ensuring the long-term viability and scalability of the project

MILESTONES ACHIEVED

The PM-DevINE Livelihood Improvement Project has made significant strides across six Phase I sites, showcasing a well-rounded approach to infrastructure development, equipment installation, skill-building, and local engagement. Each site’s development is tailored to its unique geographic and socio-economic strengths, allowing the project to be both inclusive and region-specific.



KEY ACHIEVEMENTS INCLUDE:

- ✓ **INFRASTRUCTURE READINESS:** Chümoukedima and Boko site have completed the civil works, while the Common Facility Centers (CFCs) at Agartala, East Siang, Serchhip, and Umsiang are either nearly completed or in advanced stages of construction. .

- ✓ **MACHINERY INSTALLATION AND COMMISSIONING:** The Pseudostem processing machines have been set up and are fully functional at the Chümoukedima and Boko sites. For the other locations – Agartala, East Siang, Serchhip, and Umsiang – the equipment is under commissioning and procurement process and will be installed soon.
- ✓ **DIVERSIFIED VALUE ADDITION:** Each location focuses on specialized units based on regional potential-ranging from paper making, bakery, and vegan leather to banana fiber yarn production-broadening income avenues and product diversity.
- ✓ **SKILL DEVELOPMENT AND COMMUNITY MOBILIZATION:** In March 2025, Centre for Training and Rural Development (CTRD) on behalf of NECTAR organized extensive training and awareness programs in Goalpara (Assam) and Niuland (Nagaland) to inform farmers and SHGs about income opportunities from banana pseudostem products like fiber, paper, bio-fertilizer, and biodegradable items. Over 160 participants received training on sustainable farming and CFC technologies, supported by experts from CTRD and NECTAR. These efforts are helping build local skills, promote eco-entrepreneurship, and support rural development.
- ✓ **RENEWABLE ENERGY INTEGRATION:** The Ri-Bhoi site is exploring solar energy solutions to enhance sustainability and reduce dependency on traditional power sources.
- ✓ **LOCAL PARTNERSHIPS:** Partnerships with central agencies like EDII and SFAC, state organizations such as MSRLS and HPDCAPL, and institutions like CSIR-NIIST and ICAR-NINFET have played an important role in identifying sites and choosing the right technologies. These collaborations have helped ensure smoother project implementation and make future expansion easier.

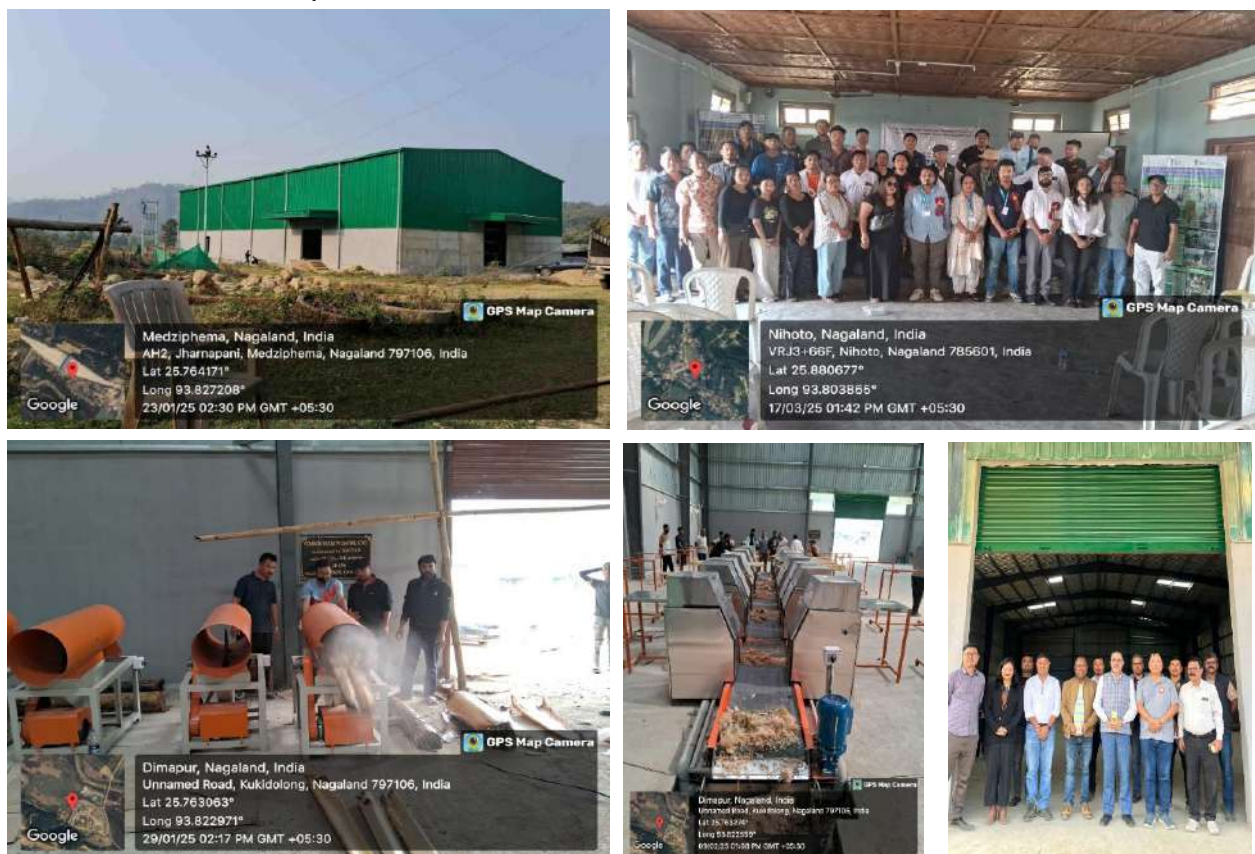


Fig: Common Facility Centre (CFC) at Chumuokedima, Nagaland



Fig: Common Facility Centre (CFC) at Boko, Assam



Fig: Construction of Common Facility Centre (CFC) at East Siang, Arunachal Pradesh



Fig: Construction of Common Facility Centre (CFC) at Serchhip Mizoram



Fig: Construction of Common Facility Centre (CFC) at Agartala, Tripura



Fig: Construction of Common Facility Centre (CFC) at Ri Bhoi, Meghalaya

TECHNOLOGY DEMONSTRATION AND MACHINERY DEPLOYMENT AT CFCs

As part of the PM-DevINE project's implementation phase, a wide range of banana pseudostem processing equipment was successfully installed and commissioned across the Common Facility Centres (CFCs), particularly at Boko (Assam) and Chümoukedima (Nagaland). The process flows covered core operations such as fiber extraction, sap digestion, and bakery production using banana pseudostem core. Each unit has been tested for functionality and optimized for training and production. The following images illustrate the commissioning, trial runs, and actual operations of various units including the fiber extractor, sap digester, and bakery system.



Fig: Visual Documentation of Equipment Installation and Processing Trials

CAPACITY BUILDING AND SKILL DEVELOPMENT

As a crucial component of the PM-DevINE Livelihood Improvement Project, NECTAR has prioritized capacity building through targeted farmer mobilization and skill development initiatives across North Eastern states. On 12th March 2025, dedicated Farmers' Awareness and Mobilization Programs were organized in Goalpara District (Assam) and 17th March 2025 in Niuland District (Nagaland) to sensitize communities on the value chain potential of banana pseudostem. Expert-led technical sessions were conducted by agricultural officers and food technology specialists from our training partner agency CTRD.

These programs aimed to:

- ✓ Promote sustainable agricultural practices for banana cultivation.
- ✓ Raise awareness about the economic opportunities from value-added banana pseudostem products.
- ✓ Train farmers and Self-Help Groups (SHGs) on technologies for fiber extraction, fertilizer production, handmade paper, and biodegradable materials.

Together, the two programs engaged 160+ farmers and SHG representatives across diverse socio-economic backgrounds including ST, SC, and OBC categories.

The training also surfaced key challenges—such as soil degradation and lack of planting material—which informed the need for continued support in soil health management, quality sapling procurement, entrepreneurship mentoring, market linkage facilitation

North East Express, Page 3

Farmers Mobilization & Awareness Programme under PM-Dev INE Scheme Held in Goalpara

NE News Goalpara: A Farmers Mobilization and Awareness Program was held on 12th March 2025 at the Dhanubhanga Anchalik Unnayan Samiti Conference Hall in Rongjuli Tehsil, Goalpara district, Assam. It was part of the PM-DevINE Scheme for the project 'A Value Chain on Utilization of Banana Pseudostem for Value-Added Products' implemented by the North East Center for Technology Application and Reach (NECTAR), an autonomous body under the Department of Science and Technology, Government of India, headquartered at Shillong. The program is a part of the ongoing efforts to promote



sustainable livelihoods and rural entrepreneurship by encouraging the utilization of banana pseudostem for value addition such as banana fiber, liquid fertilizer, compost, paper, yarn, and vegan leather alternatives. The training was conducted by CTRD, with Ms. Nazneen Rafia Medhi, a food technology expert, who guided the participants on developing market-ready products such as banana fiber, bioenzymes, compost, and food-based innovations. This initiative is expected to boost rural entrepreneurship, reduce agricultural waste, and promote sustainable industrial development in Northeast India. (Press Release)

The Assam Post, Page 9

STATE & REGION 9

Farmers Mobilization & Awareness Programme under PM-DevINE scheme held

Goalpara: A Farmers Mobilization and Awareness Program was held on 12th March 2025 at the Dhanubhanga Anchalik Unnayan Samiti Conference Hall in Rongjuli Tehsil, Goalpara district, Assam. It was part of the PM-DevINE Scheme for the project 'A Value Chain on Utilization of Banana Pseudostem for Value-Added Products' implemented by the North East Center for Technology Application and Reach (NECTAR), an autonomous body under the Department of Science and Technology, Government of India, headquartered at Shillong. The program is a part of the ongoing efforts to promote sustain-

The Hills Times, Page 4

NECTAR organises Farmers' Mobilization & Awareness Programme in Nagaland

HT Bureau

GUWAHATI, March 17: North East Centre for Technology Application and Reach (NECTAR), an autonomous institute under the department of science and technology (DST), with its headquarters in Shillong conducted a Farmers' Mobilization and Awareness Programme on March 17.

The programme was held in Nihoto Village of Dimapur district in Nagaland where representatives from eight villages participated. It was part of the PM-DevINE project "NECTAR livelihood Improvement project (Multi State) - A Value Chain on Utilization of Banana Pseudo Stem for Value-Added Products", which is being implemented by NECTAR. Under this scheme, NECTAR constructed a Common Facility Centre (CFC) in Kukidolong village, Chumukedima in Nagaland.

This project is focused on creating sustainable livelihoods and rural entrepreneurship by encouraging the utilisation of Banana Pseudo-stem by converting it into various marketable products, like extraction of fibre from banana pseudo stem, preparing nonwoven fabrics, preparation of organic liquid nutrient using banana pseudo stem and various types of hand-made paper from banana fibre.

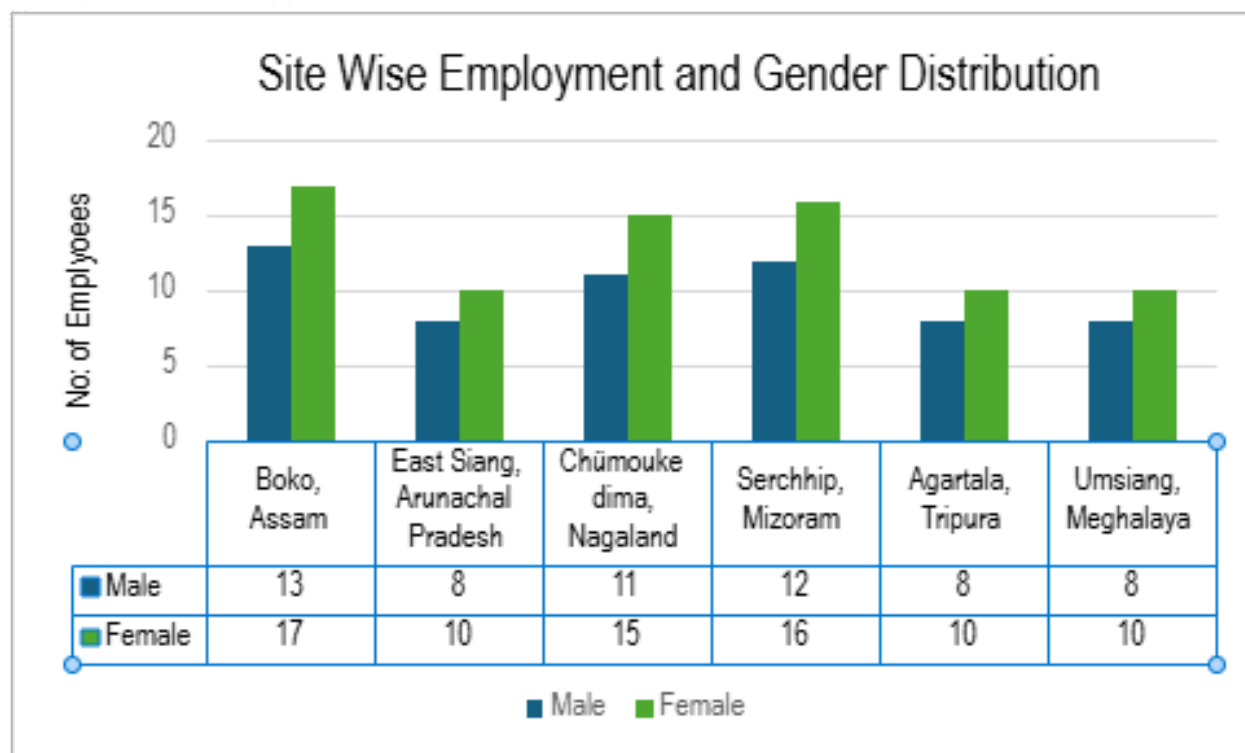
The training was conducted by Consortium for Training, Research and Development (CTRD), Guwahati with support from The Entrepreneurs' Associate, Kohima. The programme also received valuable insights from SDAO Pughoboto, Kitobo Michael Swu of the State Agriculture Department, and progressive farmer Kitobo S Rotokha and officials from NECTAR. They guided farmers on best agricultural practices and emphasised the importance of supporting the Common Facility Center (CFC) for the collective benefit of the community.

This initiative is expected to boost rural entrepreneurship, reduce agricultural waste, and promote sustainable industrial development in North East India.



EMPLOYMENT AND GENDER DISTRIBUTION

A key outcome of the project has been the generation of employment across diverse demographic groups. Each CFC is equipped with one core processing unit and one additional value-added unit tailored to local strengths. More than half of the workforce employed at these centers comprises women, demonstrating the project's success in empowering local women through livelihood opportunities and skill training.



IMPACT AND WAY FORWARD

The project marks a significant step in promoting a bio-resource-based, community-driven economy in the Northeast. It aligns with national priorities of Atma-nirbhar Bharat, sustainable agriculture, and decentralized entrepreneurship. Beyond infrastructure and production, the initiative is fostering a culture of innovation, skill-building, and dignity of labor among rural populations. In the upcoming year, the focus will shift to completing installations at Phase II sites, expanding the portfolio of value-added products, strengthening market linkages, and scaling the model for long-term sustainability. With continuous institutional support, enhanced partnerships, and active community participation, the PM-DevINE Livelihood Improvement Project is well on its way to becoming a model of integrated rural development and green entrepreneurship in India's northeastern states.

EMPOWERING NORTHEAST INDIA THROUGH SOLAR DEHYDRATION TECHNOLOGY

In alignment with its commitment to inclusive growth, clean energy adoption, and sustainable development, NECTAR has successfully deployed 15 solar dehydrators across Meghalaya, Nagaland, and Mizoram. This initiative marks a significant stride in addressing post-harvest losses, enhancing agricultural value chains, and empowering farming communities in the Northeastern region of India.

OVERVIEW OF THE INITIATIVE

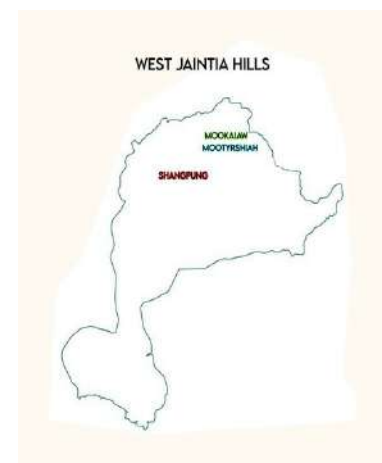
Each solar dehydrator has a capacity of 100 kg per batch, enabling efficient, hygienic, and eco-friendly processing of high-value agricultural commodities such as turmeric, ginger, king chilli, chilli, and bamboo shoot. The technology supports farmers by extending the shelf life of produce, reducing dependence on traditional fuel-based drying methods, and facilitating market linkage through value-added products.



PROJECT SITES AND BENEFICIARY GROUPS

1. MEGHALAYA – WEST JAINTIA HILLS DISTRICT

A region characterized by its favorable climate and vibrant farming communities, West Jaintia Hills has emerged as a hub for turmeric cultivation. With solar dryers installed in villages such as Mootyrshiah, Shangpung, Mowkaiaw, and Nongsder, the initiative has directly impacted cooperative societies, producer groups, and village organizations.



2. NAGALAND – WOKHA DISTRICT

Situated in the mid-western part of the state, Wokha District is home to the Lotha community and has become a key location for processing ginger, turmeric, and chilli varieties. The initiative has been implemented in Baghty Town and Peren Kiteujang Village, benefitting two Farmer Producer Companies (FPCs).



3. MIZORAM – KHAWZAWL DISTRICT

Khawzawl, a newly established district in Mizoram, serves as the project site where bamboo shoot—an important culinary and economic crop for the region—is processed using solar dehydrators. The facility is currently benefitting seven individual farmers, contributing to improved post-harvest management and income diversification.

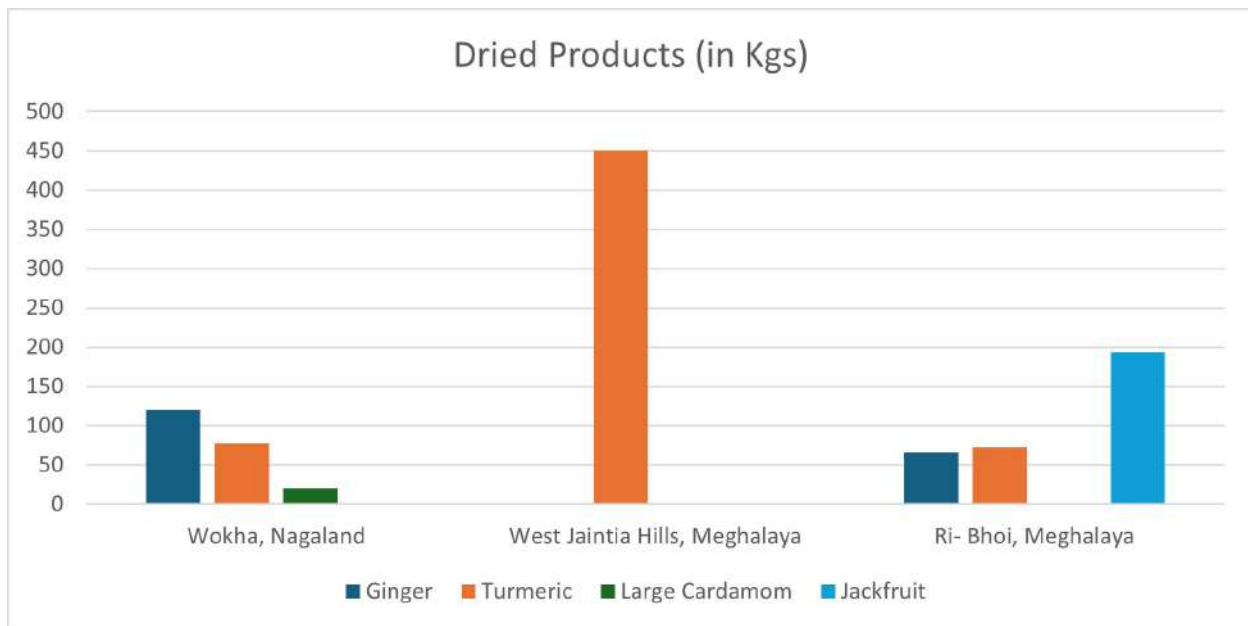
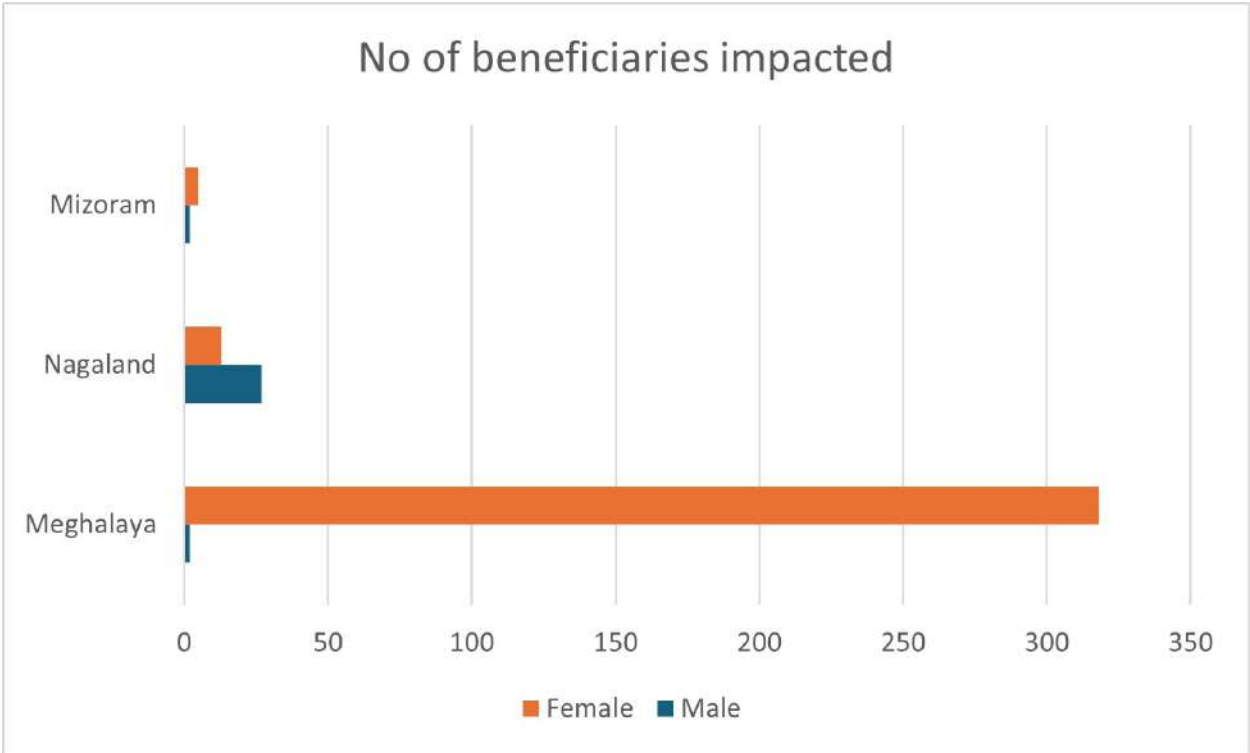


Fig: Products dried through solar dehydration technology



Fig: Production and packaging of dehydrated products





These solar dehydrators are being utilized to dry locally significant products such as turmeric, ginger, and king chilli, which are known for their medicinal and culinary value. The adoption of solar drying not only preserves the nutritional content and quality of these products but also significantly reduces post-harvest losses.

GEOSPATIAL MAPPING AND DRONE ACTIVITIES UNDERTAKEN BY NECTAR

NECTAR AS DGCA-APPROVED REMOTE PILOT TRAINING ORGANISATION (RPTO)

NECTAR (North East Centre for Technology Application and Reach) has been recognized by the Directorate General of Civil Aviation (DGCA), Government of India, as an authorized Remote Pilot Training Organisation (RPTO). The RPTO is strategically located at Jawaharlal Nehru College, Boko, Assam, making it one of the first dedicated drone training centres in the North Eastern region. This initiative aims to promote certified drone pilot training and develop a skilled workforce to meet the growing demand for UAV operations in diverse sectors.

NECTAR's RPTO is playing a crucial role in creating a pool of certified UAV pilots in the North East, a region with vast potential for drone deployment in agriculture, forestry, disaster management, infrastructure monitoring, and environmental conservation. By offering localized, affordable, and accessible drone training, the RPTO is not only empowering youth with job-ready technical skills but also supporting the development of a responsible and safety-compliant drone ecosystem.

The presence of NECTAR RPTO in Boko has significantly expanded opportunities for students and professionals from remote and underserved areas to access high-quality drone education without needing to travel to metropolitan centres. This initiative aligns with the national vision of building a self-reliant drone industry under the Drone Rules 2021 and the Digital Sky initiative, while also supporting the objectives of the Skill India Mission. NECTAR, through its RPTO, is committed to nurturing the next generation of drone professionals and contributing to India's emergence as a global leader in UAV technology and services.





Fig: Inauguration of NECTAR RPTO by Secretary, Department of Science and Technology, Government of Assam, Director General NECTAR Dr Arun Kumar Sarma, MLA – Boko legislative constituency and certificate distribution to trainees



Fig: First all women batch of remote pilot certificate (RPC) under Drone Didi Scheme

FOREST SURVEY & MAPPING FOR MEGHALAYA USING A HYBRID APPROACH

NECTAR (North East Centre for Technology Application and Reach), with funding support from the Meghalaya Biodiversity Board, successfully implemented an innovative project titled “Forest Survey and Mapping for Meghalaya Using a Hybrid Approach (Airborne Sensor/ Helicopter/UAV) to Analyze Carbon Financing and Phyto-diversity Heat Map.” This pioneering initiative adopted a multi-platform strategy involving helicopter-mounted LiDAR and hyperspectral sensors, drone-based UAV imaging, and on-ground validation to deliver high-precision forest data products across the state.

The project focused on generating high-resolution spatial data for 29 reserve forests in Meghalaya. Using hyperspectral imaging and LiDAR data, the project successfully cataloged over 400 tree species, assessed forest health, and identified critical conservation zones. Reserve forests like Baghmara, Tura Peak, and Nongkhylllem emerged as biodiversity-rich and high-biomass areas, while certain patches showing degradation were flagged for restoration. The data also supported the detection of fire-prone and human-disturbed areas, aiding forest planning and management. It also produced a comprehensive Phyto-diversity Heat Map, identifying areas of high species richness and endemic biodiversity. These deliverables are instrumental in enabling carbon financing opportunities for the state under mechanisms such as REDD+, voluntary carbon markets, and other ecosystem service valuation models.

The project was formally launched at a state-level workshop in Shillong, inaugurated by the Hon'ble Chief Minister of Meghalaya, where the final report was released. The Chief Minister emphasized that this project would be a foundation for developing Special Climate Action Zones (SCAZ) and unlocking revenue streams through nature-based solutions, carbon trading, and regenerative forest policies.



Fig: Launching of report of the project by Honorable CM of Meghalaya Shri Conrad Sangma, Head of Forest and PCCF JKS Gill, IFS, Director General NECTAR Dr Arun Kumar Sarma and Commissioner and Secretary Meghalaya Biodiversity Board Shri Shri. P. Bakshi, IAS

AEROSTATIC DRONE FOR FOREST SURVEILLANCE AND WILDLIFE MONITORING

In a pioneering step toward leveraging indigenous technologies for surveillance and environmental monitoring, NECTAR (North East Centre for Technology Application and Reach) has supported the development and demonstration of India's first Aerostatic Drone, designed and developed in collaboration with Airbotix Technologies. This initiative represents a strategic convergence of innovation, sustainability, and national security—particularly tailored to the geographical and socio-political landscape of the North Eastern region.



Fig: DG, NECTAR, Inspecting the trial of Aerostatic UAV model developed for surveillance and other remote monitoring applications.

The Aerostatic Drone is a hybrid unmanned aerial platform that uses both aerostatic lift (buoyant gas) and aerodynamic control surfaces to maintain long-duration flight with minimal energy consumption. Unlike conventional UAVs that require continuous propulsion, this platform can remain airborne for over 4 hours, offering persistent, noiseless surveillance—an essential feature for wildlife monitoring, forest surveillance, and border area patrolling.

This innovative drone system has been equipped with a range of modular payloads, including thermal and optical cameras, telecommunication relays, disaster monitoring sensors, and anti-drone detection systems. Its near-silent operation, low radar visibility, and high endurance make it exceptionally suited for sensitive applications such as anti-poaching operations, monitoring of forest fire-prone areas, and border security in challenging and inaccessible terrains of the Northeast.

NECTAR has played a crucial role in nurturing this innovation by providing technical validation, field-testing opportunities, and inter-agency linkages. As an institution under the Department of Science and Technology (DST), Government of India, NECTAR's mandate to bring appropriate and frontier technologies to the North Eastern states have been the driving force behind the successful demonstration and deployment planning of this drone system.

This initiative aligns with the Government of India's vision of "Aatmanirbhar Bharat", by promoting indigenously developed drone technologies that are affordable, adaptable, and field-tested for Indian conditions. Through this project, NECTAR is not only enhancing India's technological sovereignty in the drone sector but also contributing meaningfully to climate resilience, biodiversity protection, and national security—with a strong regional focus on the under-served North Eastern states.

The Aerostatic Drone project has generated interest among multiple stakeholders including the Ministry of Home Affairs, forest and environment departments, disaster management

authorities, and paramilitary forces, and is poised for scaled implementation in the coming years. NECTAR continues to act as a bridge between developers, end-users, and policymakers, ensuring that this transformative technology reaches the communities and regions that need it most.

DRONE SURVEY UNDER SVAMITVA

SVAMITVA (Survey of Villages and Mapping with Improvised Technology in Village Areas) is a flagship initiative of the Government of India, launched by the Ministry of Panchayati Raj, with the objective of providing an integrated property validation solution for rural India. The scheme aims to demarcate the inhabited (Abadi) land in villages using modern geospatial technologies such as drones, thereby creating accurate land ownership records. This initiative supports the government's broader goal of strengthening rural governance, reducing property disputes, and enabling rural property holders to access formal financial services using their property as a financial asset. By facilitating better planning, revenue collection, and transparent governance, SVAMITVA contributes significantly to the vision of "AatmaNirbhar Bharat"

In a significant initiative to support geospatial planning in India's remote border regions, NECTAR successfully conducted drone-based surveys in 70 villages across the Shi-Yomi and Lower Dibang Valley districts of Arunachal Pradesh. The project was entrusted to NECTAR by the Survey of India, as part of its mandate to support large-scale mapping under national geospatial development programs. The objective of the survey was to generate high-resolution spatial datasets, including orthomosaic maps, digital elevation models (DEMs), and 3D terrain models, to aid in land records modernization, infrastructure planning, disaster risk assessment, and resource management in these strategically and environmentally sensitive regions. The NECTAR team overcame several formidable challenges during this mission—poor road connectivity, adverse weather conditions, and security sensitivities associated with border proximity—to successfully execute the field operations. Detailed planning, deployment of skilled personnel, and adaptive use of drone technology enabled the completion of high-precision surveys within difficult terrains and limited operational windows. This initiative underscores NECTAR's capability in delivering cutting-edge drone-based geospatial solutions in challenging environments and demonstrates its role as a key enabler of technology-led development in the Northeast. The data products and maps generated are being shared with the Survey of India and local administrative bodies to support evidence-based planning and governance.



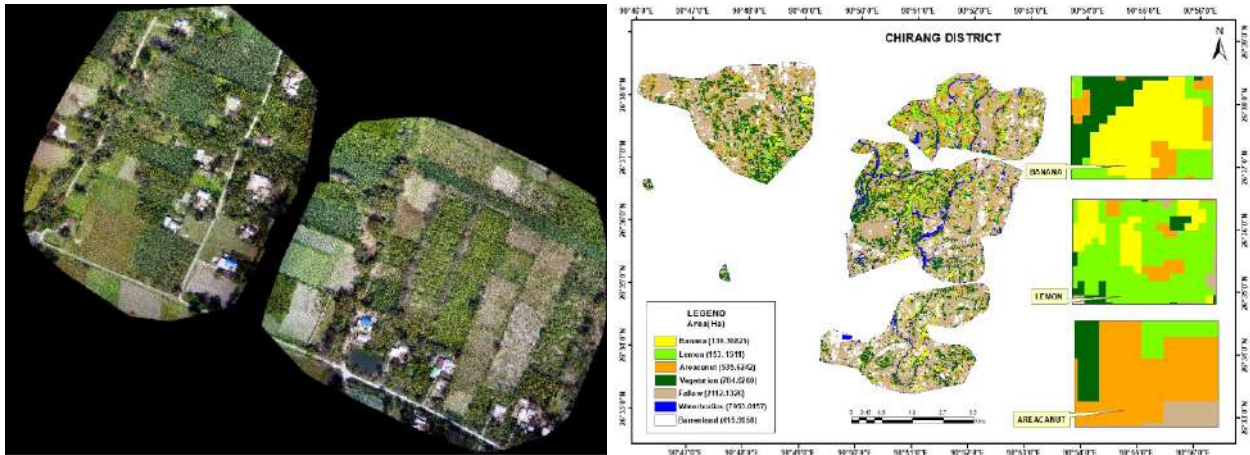


Fig: Drone survey activities at remote village of Lower Dibang Valley district and Shiyomi district, Arunachal Pradesh.

MAPPING OF ORGANIC CLUSTERS FOR PROMOTING SCIENTIFIC AND ORGANIC FARMING IN NORTH EAST

This initiative is being spearheaded by NECTAR's Geomatics Division, which is undertaking a range of advanced field-level interventions aimed at promoting Scientific and Organic Farming practices across the North Eastern region of India. As part of this initiative, IoT-based agro-meteorological sensors have been installed in selected organic farming clusters. These sensors collect real-time data on key environmental parameters such as soil moisture, air temperature, humidity, rainfall, solar radiation, and leaf wetness. The data is transmitted to a centralized digital platform for visualization and analysis, enabling farmers and agricultural extension workers to make informed decisions related to irrigation scheduling, disease prevention, and efficient resource use.

To ensure continuous and accurate monitoring of crop performance, drone-based surveys are conducted twice during each crop season—once during the vegetative stage and again at the pre-harvest stage. These surveys employ both multispectral and RGB sensors to generate high-resolution imagery, assess vegetation indices like NDVI (Normalized Difference Vegetation Index), and identify early signs of crop stress, pest infestation, or nutrient deficiency. In addition, the drone data is processed to produce orthomosaic maps, digital surface models, and crop health reports, which are used for issuing localized advisories and optimizing farm-level interventions.



Another critical component of the project is the field boundary demarcation using KML-based GPS surveys. Accurate mapping of individual farm plots helps in better crop planning, facilitates monitoring of organic practices, and assists in generating documentation required for organic certification. These spatial datasets also support government efforts related to land record modernization, digital agriculture, and targeted policy implementation.

By combining real-time sensor networks, UAV-based crop analytics, and field-level geospatial mapping, NECTAR's initiative is advancing the adoption of scientific, data-driven, and environmentally responsible agricultural practices. The project not only enhances productivity and profitability for farmers but also strengthens the organic farming ecosystem, contributing to sustainable agriculture and food security in the North East region.

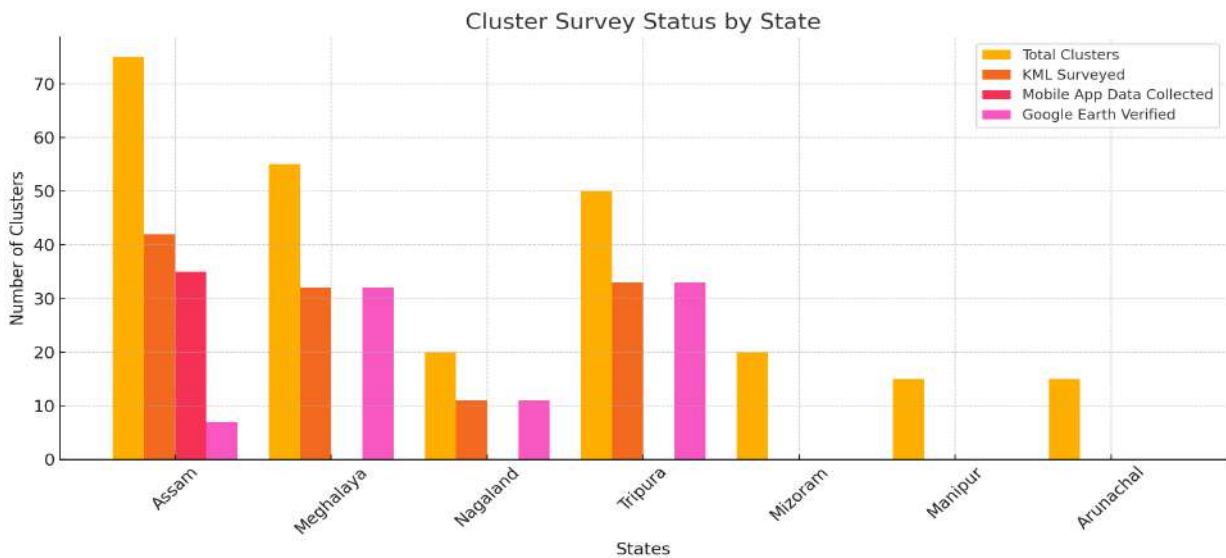


Fig: State-wise KML cluster surveys conducted

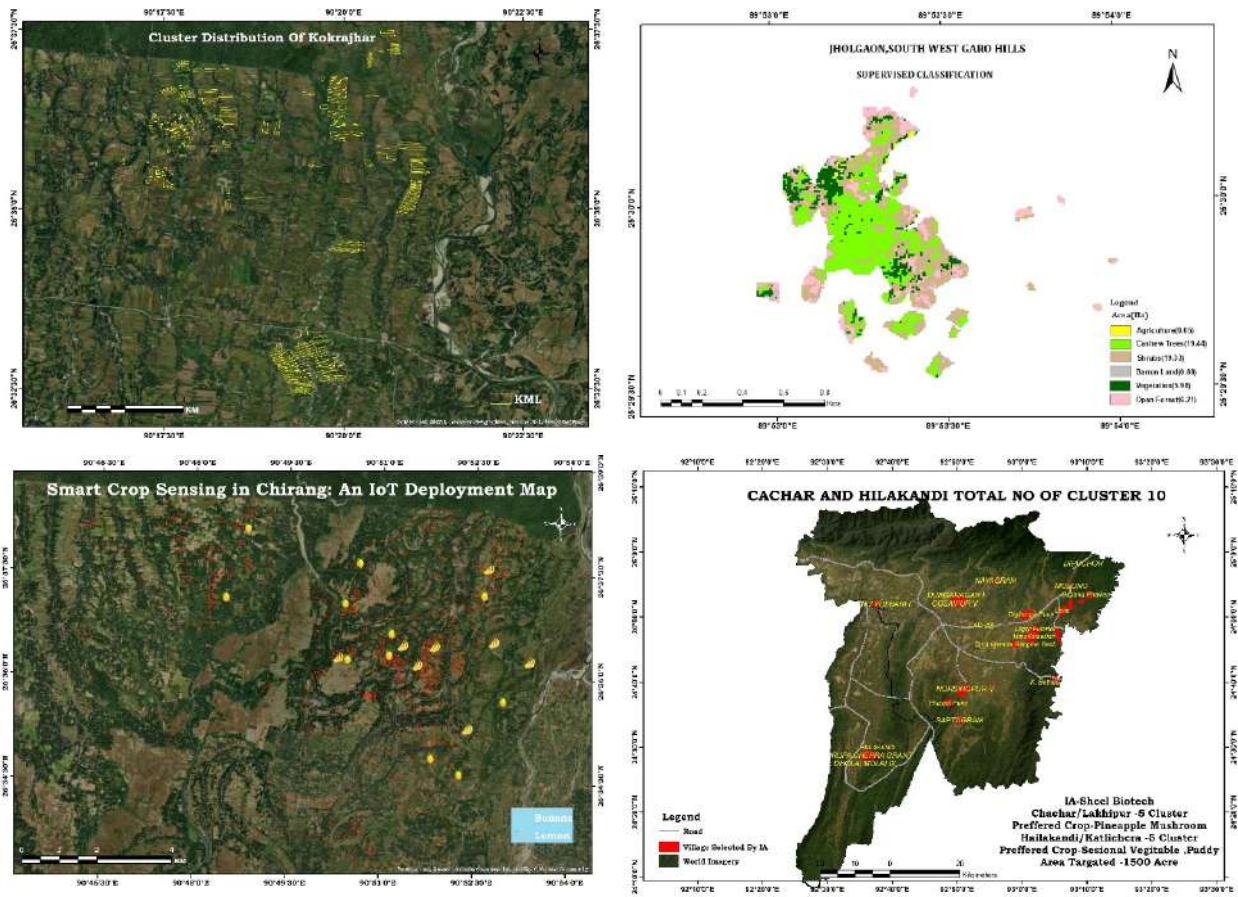


Fig: Drone imagery and crop mapping at different clusters

STEM LAB AT NECTAR HQ, SHILLONG

In a strategic effort to transform education and equip students with essential 21st-century skills, NECTAR in collaboration with the Smart Village Movement (SVM) and Curiosity Gym, has established the Open STEM Lab at NECTAR Headquarters in Shillong, Meghalaya.

This state-of-the-art facility serves as a model for experiential learning in the region, offering students from Grades 3 to 12 hands-on exposure to critical STEM (Science, Technology, Engineering, and Mathematics) domains such as electronics, robotics, coding, and 3D printing.

PURPOSE AND VISION

The Open STEM Lab aims to bridge the learning gap between urban and rural students by delivering high-quality STEM education and real-world technological exposure. Unlike traditional classroom-based instruction, the Lab emphasises hands-on, project-based, and inquiry-driven learning.

Open to students from Class V to Class XII and operating Monday through Friday, the Lab provides structured opportunities for students to engage with diverse STEM modules under the supervision of trained STEM educators and mobilisers.

Through a focus on problem-solving, critical thinking, and creativity-oriented learning, the initiative seeks to spark curiosity, encourage innovation, and prepare students for future careers in STEM fields.



STEM LAB MODULES: IGNITING CURIOSITY AND CREATIVITY

The Open STEM Lab is designed not only to teach science and technology but also to ignite curiosity, nurture creativity, and develop critical thinking skills among students.

Key modules offered include:

- ✓ **ROBOTICS:** Students design, build, and program robots, gaining insights into automation, sensors, and coding logic.
- ✓ **ELECTRONICS:** Hands-on learning with circuits, sensors, and microcontrollers such as Arduino.

- ✓ **3D PRINTING:** Students design digital models and bring them to life through 3D printing technology.
- ✓ **DESIGN THINKING:** Students identify real-world problems in their communities and use STEM tools to design innovative solutions.



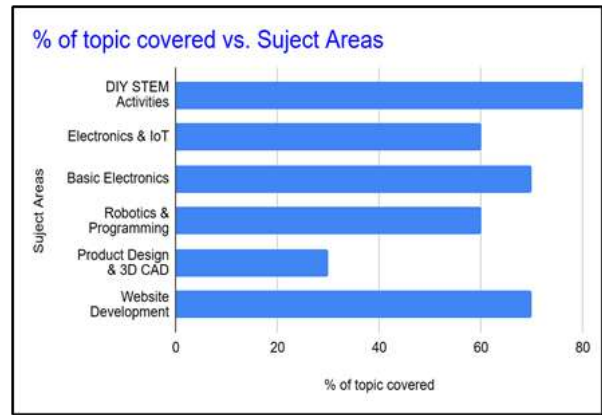
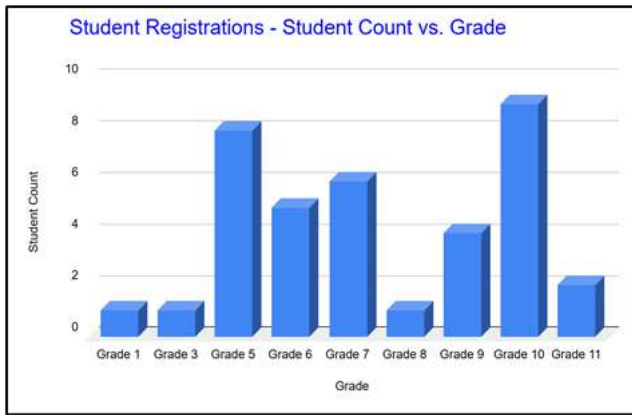
STEM OUTREACH: EXPANDING ACCESS BEYOND THE LAB

Recognising that not all students can visit the NECTAR Lab in person, STEM Mobilisers implemented an extensive school outreach programme.

KEY HIGHLIGHTS:

- Number of Students registered - 43 students
- Number of schools visited - 110 schools visited
- Number of students projects: - 24 (17 completed projects & 7 ongoing)
- Hours of total STEM sessions - 91 hours of STEM sessions
- Number of students profile created - 11 students' profile

This proactive, multi-channel outreach strategy demonstrates NECTAR's commitment to making STEM education accessible to as many students as possible, especially those in remote and underserved areas.



STEMAGINE EXHIBITION-CUM-COMPETITION

A highlight of the STEM Lab's activity calendar was the STEMagine Exhibition-cum-Competition, held on 16 May 2025. Supported and coordinated by the Smart Village Movement (SVM), the event provided a vibrant platform for students to showcase their creativity and STEM innovations. Students presented a wide array of projects, ranging from robotic models and electronic gadgets to 3D-printed prototypes and coding solutions. The exhibition fostered a collaborative learning environment, encouraging students, educators, and visitors to exchange ideas and celebrate innovation.





ASSISTANCE OF QUALITY FODDER SEED PRODUCTION UNDER NATIONAL LIVESTOCK MISSION (NLM)

INTRODUCTION

The initiative to produce quality fodder seeds in Manipur, implemented jointly by the Central Agricultural University, Imphal, and NECTAR under the National Livestock Mission, represents a significant advancement in improving livestock productivity and promoting sustainable agriculture. This project focuses on enhancing the availability of high-quality fodder seeds and planting materials critical for improving animal health, increasing milk yields, and supporting the livelihoods of dairy farmers in the region.

OBJECTIVES

- ✓ To provide quality fodder seed and planting materials.
- ✓ To demonstrate on-farm fodder technologies to increase livestock production.
- ✓ To enhance the capacity of dairy farmers to adopt improved quality fodder production practices.
- ✓ To assess the impact of interventions on farmers' livelihoods.



CROP SELECTION AND PLANTING

During the kharif season, a diverse selection of fodder crops was planted to maximize productivity:

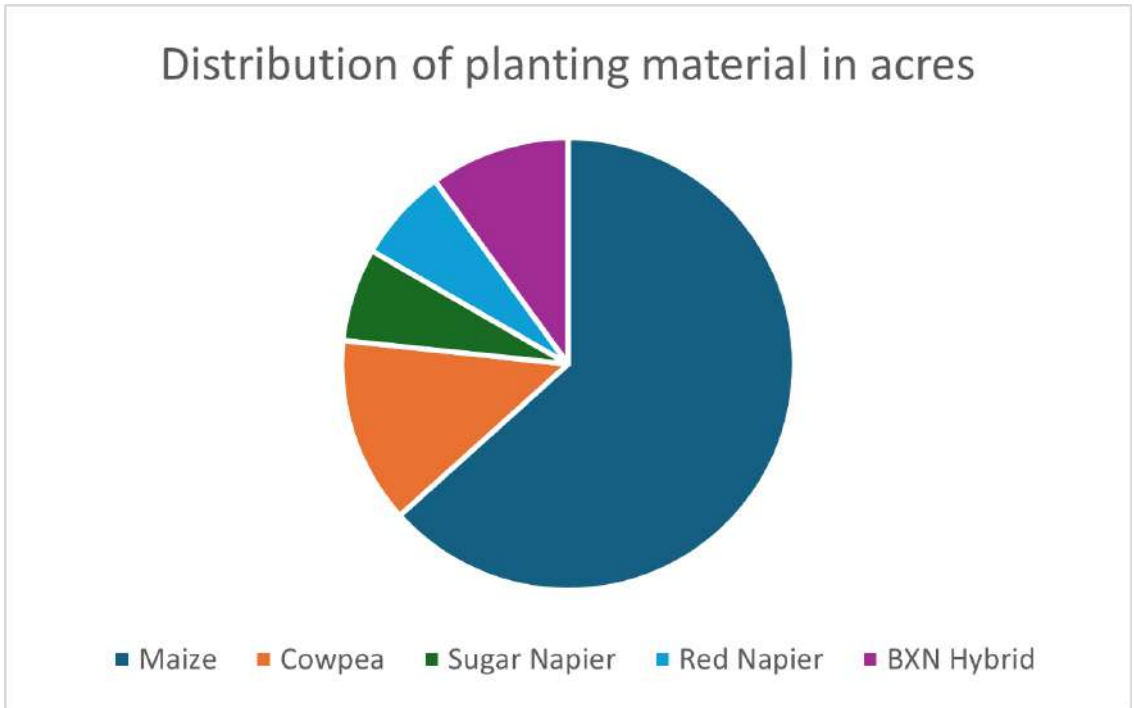
- ✓ Fodder Maize (Var. J-1006)
- ✓ Cowpea (Var. CL-367)
- ✓ Bajra Napier Hybrid Varieties: Co-4, Co-5, Super Napier, and Red Napier

To meet the seed production requirements, the following planting materials were procured from Punjab Agricultural University, Ludhiana:

- ✓ 600 kg foundation seed of fodder maize
- ✓ 100 kg breeder seed of cowpea
- ✓ 50,000 slips of Napier Hybrid

FARMER SELECTION AND DISTRIBUTION

Farmers were selected based on land availability, irrigation facilities, soil suitability, and their interest in fodder seed production. A total of 30 farmers participated.



CAPACITY BUILDING AND TRAINING ACTIVITIES:

Training sessions were conducted for all selected farmers to build their capacity in quality fodder seed production, with a focus on:

Agronomic practices for each crop

- ✓ Post-harvest processing and handling
- ✓ Quality standards for seed certification

Regular field visits by CAU scientists and project staff ensured technical support, monitoring of crop performance, and guidance on processing and storage.



SEED PROCUREMENT AND QUALITY ASSURANCE

In line with the MoU provisions:

- ✓ Harvested seeds and slips underwent physical purity and germination tests.
- ✓ Only seed lots with over 80% germination were procured for further processing and distribution.
- ✓ Sub-standard material was returned to farmers to maintain quality integrity.

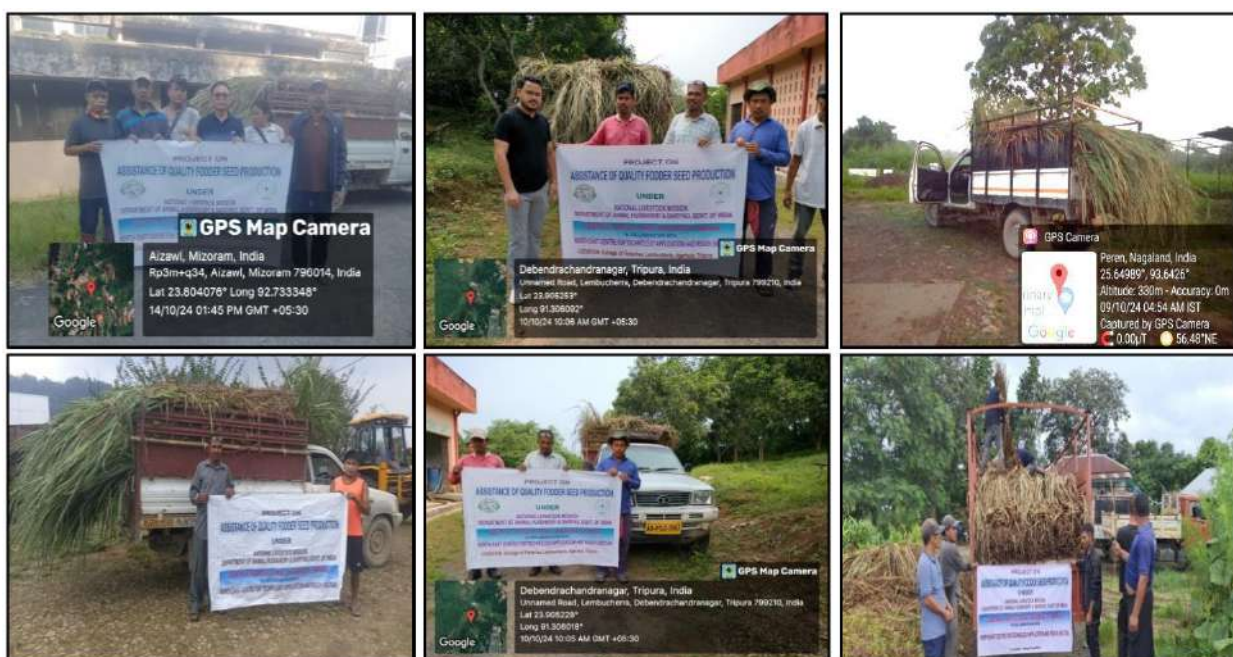


PROGRESS ACHIEVED

- ✓ 30 farmers actively engaged in production of fodder maize, cowpea, and Bajra Napier Hybrid varieties.
- ✓ Approximately 4 lakh Napier slips and cuttings and substantial quantities of certified maize and cowpea seeds were distributed to farmers across Manipur, Mizoram, Tripura, and Nagaland.

- ✓ The project is expected to produce:
 - 60 quintals of certified maize seed (Var. J-1006)
 - 2 lakh Napier slips/cuttings
 - 5 quintals of foundation cowpea seed (Var. CL-367)

This initiative marks a critical step in improving the availability of quality fodder seed and planting materials in the North-East, enhancing livestock productivity, and empowering dairy farmers with better practices and market access. By integrating capacity building, rigorous quality control, and participatory approaches, the project supports sustainable livestock development and contributes meaningfully to farmer livelihoods.



Improving Sustainability of Traditional Terracotta and Pottery Business in Asharikandi, Dhubri, Assam



The riverfront of Gadadhar River cradles the largest hub where traditional terracotta and pottery crafts thrive side by side. This haven, known as Asharikandi, lies within the Debitola development block in Dhubri District, Assam, India. Asharikandi boasts a unique terracotta style, upheld over time. Its fame springs from the age-old technique of crafting Terracotta and Pottery. The essence of this craft lies in the soil named HIRAMATI., is home to over 130 pottery families and nearly 500 artisans who have preserved the ancient craft through generations. Despite the cultural richness of the

village, the community faced growing challenges due to outdated manual processes, health-risking nature of the traditional pottery process, worsened by inadequate compensation, poor productivity, and decreasing interest among the youth. In response, a pilot project titled *“Improving Sustainability of Traditional Terracotta and Pottery Business in Asharikandi”* was initiated by NECTAR to introduce modern technology and revive this valuable heritage. A total of 16 artisans from the Omkareshwar SHG were directly trained under the project, while around 500 beneficiaries stand to benefit from the shared infrastructure and improved business models, including centralized processing and firing services.

The initial success of the pilot project led NECTAR to submit an expanded proposal to the SEED Division of the Department of Science and Technology, Government of India. The project aimed at validating and implementing improved mechanized processes, enhancing skills, generating employment, and promoting income growth and tourism in the region.

Under the SEED initiative, three Common Facility Centres (CFCs) were constructed and equipped with modern machinery to replace traditional manual labour. Technologies introduced included the De-airing Pugmill, Wood-fired kilns, Hydraulic press tile-making machines, and other equipment such as jigger-jollys and disintegrators. These interventions significantly improved working conditions by eliminating harmful postures and smoke-emitting kilns, leading to better health outcomes and environmental safety.



A strong focus was also placed on skill development. Technology partner Technology & Action for Rural Advancement (TARA) conducted both basic and advanced training sessions to familiarize artisans with the new machinery and improved production techniques. Under the initiative, 10

artisans received hands-on training at the Mahamana Ceramic Institute, Khurja, and 53 artisans were trained in operating the newly introduced machines, including pugmills and kilns. This training helped artisans to enhance productivity, maintain product quality, and reduce physical strain, resulting in increased efficiency and income generation.



Marketing support was another integral component. An Asharikandi Pottery Product Catalogue was developed, and e-marketing training was provided through Market Mirchi to facilitate online sales. Artisans were given exposure through cultural exhibitions, while new product lines were developed based on market demand. A key marketing success was the supply of earthen Kulhads to Assam State offices. Additionally, a *Craft Mela* was organized to showcase local products and promote the art to a wider audience.



To further ensure the suitability of raw materials, technical soil testing of local clay samples was carried out. This step was essential to validate the quality and consistency of the materials used in terracotta production.

In conclusion, the integration of modern machinery, capacity building, and strategic market engagement has rejuvenated the Asharikandi terracotta community. The initiative not only improved artisan livelihoods but also inspired neighbouring villages to adopt similar practices. With rising global demand for handcrafted pottery and sustained institutional support, Asharikandi stands as a replicable model for traditional craft revival and rural entrepreneurship.

NECTAR SUPPORTED PROJECTS

PILOT PROJECT FOR INSTALLATION OF SOLAR POWERED COLD STORAGE UNIT FOR REDUCING CROP WASTAGE IN MEGHALAYA

- ✓ **IMPLEMENTED BY:** Meghalaya New and Renewable Energy Development Agency (MNREDA), Government of Meghalaya
- ✓ **PROJECT OBJECTIVES:** Installation of Solar Powered Cold Storage at East Khasi Hills District and South West Garo Hills District, Meghalaya
- ✓ **Beneficiaries:**
 - DIRECT:** Nongkrem Youth Development Agency at East Khasi Hills District; Farmers union of Greater Babelapara, South West Garo Hills District.
 - INDIRECT:** Local Farmers in the surrounding villages
- ✓ **Milestones:**
 - Two no's 2 MT solar cold storage units set up at both locations
 - Handing over of units to primary beneficiaries completed
 - More than 200 farmers are expected to be benefitted at both locations as secondary beneficiaries



MICROBIAL CONSORTIUM ASSISTED ORGANIC COMPOSTING FOR WASTE MANAGEMENT AND SUSTAINABLE FARMING

- ✓ Implemented by: Mizoram Science Centre, Government of Mizoram
- ✓ Project Objectives: Establishment of 2 nos of Organic Waste Composting facility at Aizawl District for composting of organic waste from surrounding villages
- ✓ Beneficiaries: Smt Roahlpuia and 8 others
- ✓ Milestones:

First Unit at Sesawng Village, Aizawl Inaugrated by Director General, NECTAR in presence of Officials from Dept of Agriculture, Govt. of Mizoram

First batch of 4000 kgs of organic compost successfully produced and marketed under brand name "Mawitei Manure".

Soil organic carbon testing kits were distributed to the beneficiaries and local farmers and waste collection bins were also distributed to nearby local partners for organic waste collection.



DEVELOPMENT OF TRAINING CUM PRODUCTION UNIT OF BELL METAL ITEMS AT SARTHEBARI VILLAGE, ASSAM.

- ✓ Implemented by: School of Agro and Rural Technology, IIT Guwahati
- ✓ Project Objectives: Production of bell metal items using standardized process through machineries
- ✓ Milestones:
 - Installation of workstation with latest working tools and equipment completed
 - Training workshop of artisans successfully conducted at IIT Campus
 - Production capacity of 50-55 bell metal items per day
 - Beneficiaries include Shri Anup Bhuyan, Local Bell Metal Artisan and 5 others



PROJECT: LARGE-SCALE PRODUCTION OF ECO-FRIENDLY PAPER CUPS

- ✓ Implementing Agency: M/s Bonton Ext
- ✓ Proprietor: Mr. Christopher Lalfakawma
- ✓ Location: Aizawl, Mizoram

This project aims to mitigate plastic packaging waste by producing and distributing eco-friendly paper cups throughout Mizoram. Supported with budgetary assistance of ₹25 lakhs, the unit has established reliable commercial operations to replace single-use plastic packaging with sustainable alternatives.

The initiative also contributes to local economic development by creating significant livelihood opportunities for people in and around Aizawl through production, distribution, and allied activities.



PROJECT: SETTING UP OF GINGER AND TURMERIC PROCESSING UNIT

- ✓ Location: Sukhanjan, Karbi Anglong District, Assam

This processing unit focuses on value addition to locally grown organic ginger and turmeric. The facility directly employs 2-4 workers for processing activities, while benefiting approximately 800 farmers in Karbi Anglong District who supply organic raw materials. To date, the unit has produced approximately 3-4 tons of processed ginger and turmeric, enhancing market access for farmers and supporting the region's agricultural economy.



PROJECT: MANUFACTURING OF BIODEGRADABLE CUTLERY FROM ARECANUT SHEATHS

✓ Location: Nalbari, Assam

This initiative, led by a young woman entrepreneur in Nalbari, Assam, is dedicated to manufacturing biodegradable cutlery from locally sourced Arecanut sheaths. The unit promotes sustainable alternatives to plastic cutlery while directly providing employment opportunities to 2 individuals. By combining traditional materials with eco-friendly production techniques, the project contributes to environmental conservation and local livelihood generation



PROJECT: APICULTURE AND INTEGRATED FARMING TRAINING PROGRAM

- ✓ Location: Dalapchand, Pakyong District, Sikkim
- ✓ Implementing Agency: Sikkim State Council of Science and Technology, Government of Sikkim
- ✓ Collaborating Agency: NECTAR, Department of Science and Technology, Government of India

The Sikkim State Council of Science and Technology, in collaboration with NECTAR, successfully conducted a week-long training program on Apiculture and Integrated Farming. The program was designed to empower local farmers with sustainable agricultural practices and to promote apiculture as a viable supplementary livelihood.

A total of 25+ local farmers, including significant participation from women and youth, received hands-on training in modern beekeeping techniques. To support practical implementation, each participant was provided with a bee box and colonies to enable them to establish their own beekeeping enterprises.

The initiative aligned with broader goals of rural development, ecological conservation, and income diversification for farming communities in Sikkim.



PROJECT: SILK PRODUCT DEVELOPMENT USING INDIGENOUS AND MODERN HANDLOOM TECHNIQUES

The project aims to enhance silk production capacity by blending traditional craftsmanship with modern equipment to improve quality and productivity.

Progress to Date:

- ✓ 11 semi-automatic fly shuttle looms have been procured and installed.
- ✓ 1 warping drum has been procured and installed.
- ✓ Training has been provided to 5 weavers on loom operation and to 2 individuals on the use of the warping drum.

Upon full implementation, the project is expected to generate direct employment for approximately 22 workers, contributing to local skill development and livelihood generation.

PROJECT: MUSHROOM SPAWN PRODUCTION UNIT

- ✓ Location: Khagarpur, Bongaigaon District, Assam
- ✓ Project Status: Completed
- ✓ Implementing Agency: M/s Diamond Mushroom Farm

Non-availability of quality spawn has been a major constraint in mushroom cultivation in Bongaigaon District, where nearly 200 families grow oyster mushrooms during winter with an annual spawn requirement of 15–16 quintals. Previously, farmers had to rely on suppliers from other districts and states due to a lack of local production.

This project was sanctioned to M/s Diamond Mushroom Farm with financial support to procure all necessary machinery and equipment for producing quality spawn. The unit commenced operations in January 2024 and is now producing approximately 800 kg of spawn per month, supplying not only Bongaigaon but also other districts and states.



PROJECT: GREENHOUSE AQUAPONICS UNIT

- ✓ Location: Laitkor, Shillong, Meghalaya
- ✓ Project Status: Ongoing
- ✓ Implementing Agency: M/s AngelGreen Agro Products

Food security and environmental sustainability are increasingly critical concerns, given the negative impacts of traditional agriculture and shrinking farmlands. Aquaponics offers a highly productive, resource-efficient, and organic alternative that reduces environmental impact while ensuring food safety.

NECTAR has extended support for setting up a Greenhouse Aquaponics Unit in Shillong. Upon successful completion, this project will produce pest-free, highly nutritious vegetables and fish. It will also create employment opportunities and raise awareness among youth about sustainable, alternative farming methods.



PROJECT: ELEPHANT APPLE POWDER PRODUCTION UNIT

- ✓ Location: Guwahati, Assam
- ✓ Project Status: Ongoing
- ✓ Implementing Agency: M/s R2W Bio Solutions and Engineering

Elephant apple holds a special place in Assamese cuisine and traditional medicine. Recognizing its potential, NECTAR is supporting the establishment of an Elephant Apple Powder Production Unit in Guwahati.

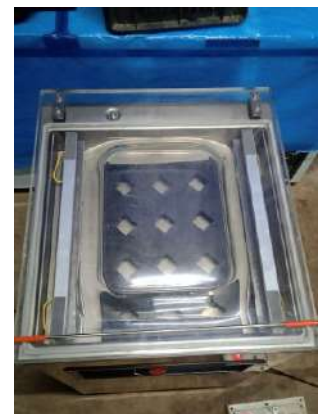
The facility will produce healthy elephant apple powder and juice products for the emerging healthy beverage market, utilizing the widespread cultivation of this fruit in Assam's villages and adding value to a traditional resource.

**PROJECT: PRODUCTION OF EMULSIFIED MEAT PRODUCTS AND LOCAL CURED SMOKED PRODUCTS**

- ✓ Implementing Agency: Open Up Eats
- ✓ Location: Upper Nongjri, Umsning, Ri-Bhoi District, Meghalaya – 793105

This project focuses on scaling up the production of frozen meat-based products and promoting traditional cured and smoked products by integrating indigenous curing methods with scientific preservation techniques. The unit aims to utilize locally sourced livestock, spices, and herbs to meet regional market demand while supporting local producers.

- ✓ Current Status:
 - Civil works are nearing completion, with pending installation of shutters and doors, and final painting works. The unit is expected to be fully operational soon.





PROJECT: INFUSION OF SCIENTIFIC TECHNOLOGY FOR INTEGRATED DAIRY PRODUCT DEVELOPMENT AS AN ALTERNATIVE LIVELIHOOD TO RURAL FARMERS

✓ Project Status: Ongoing

India has been a leading producer and consumer of dairy products worldwide since 1998 with a sustained growth in the availability of milk and milk products. Dairy activities form an essential part of the Indian rural economy, serving as an important source of employment and income.

NECTAR is setting up a Dairy processing Unit in Jhagarpar, Dhubri, Assam through M/s Gramin Dugdhwa Udyog under its TOSS scheme well equipped with all the necessary equipment like pasteurizer, coagulation tank, refrigeration plant, chilling plant, incubation plant, cold storage, etc. Upon successful completion, the project is expected to make readily available pure cow milk and other products like paneer, khoya, dahi, ghee, etc for consumers of the region.



PROJECT: LOW-COST USER-FRIENDLY BROOM BINDING TECHNOLOGY AND PINEAPPLE PEELING TECHNOLOGY

✓ Location: North East Region

✓ Project Status: Completed

✓ Implementing Agency: M/s U K B Agrotech

Broom grass is an important semi-domesticated non-timber forest product in Northeast India. With NECTAR's financial support, M/s U K B Agrotech has developed a simple, efficient broom-binding technology that enables even rural laypersons to produce PHOOL-ZHARU (traditional brooms) with ease.

This innovation promotes local entrepreneurship and value addition to a traditional forest product.



PROJECT: ALTERNATIVE LIVELIHOOD GENERATION THROUGH TOFU VALUE ADDITION

- ✓ Location: Guwahati, Assam
- ✓ Project Status: Completed
- ✓ Implementing Agency: M/s AKS Dairy

With growing demand for vegan and plant-based foods, tofu (soya paneer) represents a healthy, affordable alternative protein source. NECTAR supported M/s AKS Dairy in establishing a tofu production unit in Guwahati, which began operations in 2024.

The unit produces high-quality tofu and soya milk, promoting healthier dietary options and supporting local livelihood generation through value addition in soya-based products.



PROJECT: MOBILE PROCESSING UNIT – “FACTORY ON WHEELS”

- ✓ Collaboration: CSIR-Central Food Technological Research Institute (CFTRI)

This innovative “factory on wheels” concept has been implemented to address the needs of farmers in rural areas while also serving as a mobile demonstration centre for food processing technologies. Developed in collaboration with CSIR-CFTRI, the Mobile Processing Unit enables on-site processing of fruits, vegetables, and spices directly in farming communities. This approach reduces post-harvest losses, adds value at the source, and empowers farmers with practical knowledge of food processing techniques.

Key features include fully equipped mobile facility for fruit, vegetable, and spice processing, on-site service delivery to remote farming areas, demonstration and training platform for farmers on food preservation, value addition, and best practices.



PROJECT: TECHNICAL INTERVENTION FOR ESTABLISHING GREEN BRIQUETTES ENTERPRISE

- ✓ Location: Dhubri, Assam
- ✓ Project Status: Ongoing
- ✓ Implementing Agency: Society for Technology & Action for Rural Advancement (TARA)

Assam generates large quantities of agro-residues such as rice husk, jute sticks, bagasse, and sawdust, which are often inefficiently used and contribute to pollution. Biomass briquetting offers an environmentally friendly alternative by compressing these wastes into high-calorific-value briquettes that can replace conventional fuels.

NECTAR is supporting TARA in establishing a Green Briquettes Enterprise in Dhubri, Assam under the TOSS scheme. The project aims to reduce environmental impact, promote efficient residue utilization, and provide sustainable fuel alternatives for industrial thermal applications.



GLUTEN-FREE BLACK RICE-BASED FOODS FOR THE ELDERLY TO PROMOTE HOLISTIC DIETARY NUTRITION

- ✓ Location: Ukhrul District, Manipur
- ✓ Implementing Agency: Hill Area Development Society

This project aimed to develop and promote gluten-free, nutrient-rich food products using indigenous black rice varieties to address the specific dietary needs of the elderly population. Renowned for its high antioxidant and fiber content, black rice functions as a nutraceutical food supporting gut health, heart health, and protection against age-related nutritional deficiencies. The initiative successfully developed a range of gluten-free bakery items—including cupcakes, donuts, cookies, cakes, and muffins—designed for elderly individuals with gluten intolerance. By blending traditional knowledge with nutritional science, the project delivered a holistic approach to elderly nutrition in the region.

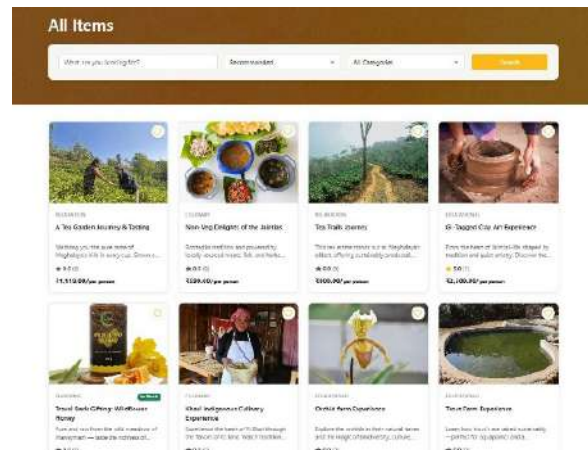


MYSATKARA – HYPER-LOCAL DIGITAL TOURISM MARKETPLACE

- ✓ Location: Meghalaya
- ✓ Implementing Agency: Rodeka Innovations
- ✓ Status: Ongoing

MySatkara is a digital booking platform developed by Rodeka Innovations to promote Meghalaya’s rich cultural heritage through authentic, community-based experiences. It connects travelers with local vendors offering farm stays, guided nature walks, traditional healing practices, home-cooked meals, and indigenous crafts.

MySatkara achieved over 60 curated listings across 13 sectors with 35 active local vendors, many new to digital commerce, while hosting demonstration events such as farm experiences and cultural evenings. The platform expanded market access for grassroots tourism entrepreneurs, promoted inclusive and sustainable economic growth, preserved cultural heritage, and supported gender and community empowerment through digital participation. Looking ahead, MySatkara will focus on validating traditional knowledge, strengthening local businesses, advancing sustainable tourism, and deepening collaboration with youth, professionals, and civil society.



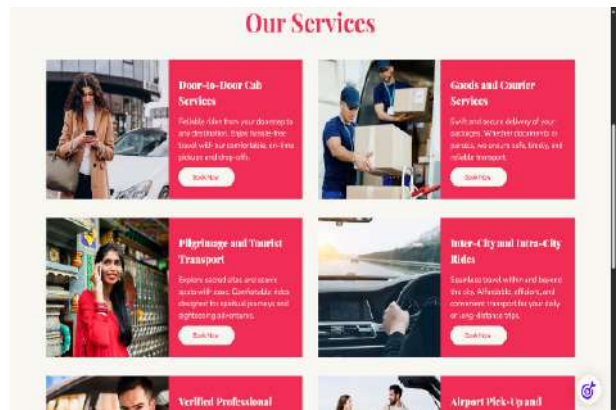
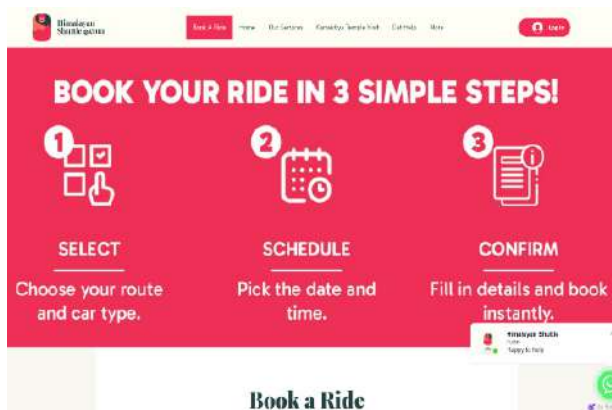
KAMAKHYA DARSHAN PORTAL – TECHNOLOGY-ENABLED PILGRIMAGE & TRANSPORT SOLUTION

- ✓ Location: Assam and North-Eastern Region
- ✓ Implementing Platform: Himalayan Shuttle

The Kamakhya Darshan Portal, developed within the Himalayan Shuttle platform with NECTAR’s support, is a technology-enabled solution designed to transform the pilgrimage experience to Assam’s Kamakhya Temple. By offering an integrated online system for pre-booking darshan slots and reliable transportation, the portal addresses longstanding challenges such as long queues, disorganized crowd management, and inaccessible travel options for elderly and interstate visitors.

This user-friendly platform improves safety, reduces wait times, and provides door-to-door convenience through seamless booking of local shuttles, taxis, and interstate transport—all within a single digital interface. By promoting fair pricing and verified transport partners, it aligns with Digital India’s goals and Meghalaya’s vision for smart, connected infrastructure.

The Kamakhya Darshan Portal represents a scalable, replicable model for enhancing visitor experience at other religious and tourist destinations, fostering regional tourism, strengthening local livelihoods, and advancing digital inclusion across North-East India.



PROJECT: MANUFACTURE OF COMPOSTABLE BIOPLASTIC BAGS FROM CASSAVA STARCH

- ✓ Location: Nagaland
- ✓ Project Status: Ongoing

This project addresses the persistent challenge of single-use plastic pollution by establishing a manufacturing unit for biodegradable films and carry bags made from locally sourced cassava starch. The initiative aims to develop a sustainable alternative for food packaging and grocery bags, while promoting cassava cultivation among local farmers.

Under this initiative, a “Model Cassava Village” approach is being adopted to strengthen farmers’ groups and Self-Help Groups (SHGs), providing alternative livelihood opportunities. Farmers are being trained in cassava cultivation and supplied with necessary inputs.

Current Capacity: 6,000 kg of bioplastic bags per month (8-hour daily operation with continuous power). Despite high demand (approx. 150,000 kg/month across Nagaland), production currently meets a small fraction of market needs.



PROJECT: SETTING UP OF GINGER AND TURMERIC PROCESSING UNIT

- ✓ Location: Bokakhat, Assam
- ✓ Project Status: Completed

This unit has been established with machinery to process turmeric powder, dried ginger powder, and dried ghost chilli powder. Production is currently on-demand, engaging 4 workers directly.

The facility empowers local farmers by enabling them to process their produce for sale as unbranded products. To date, partnerships have been established with 20 farmers from nearby villages in Bokakhat, as well as farmers from Karbi Anglong District (near Kaziranga National Park) and North Garo Hills District.



PROJECT: MOTIF DESIGN AND REPLICATION SYSTEM OF TRADITIONAL MIZO PUAN

- ✓ Location: Mizoram
- ✓ Project Status: Completed
- ✓ Implementing Agency: Directorate of Science & Technology, Government of Mizoram

This project developed a digital system for replicating traditional Mizo Puan motifs. Outputs include digital representations, standard designs in print and on-screen formats for weavers, and a mobile-friendly motif design system to improve existing patterns.

✓ Outcome:

Software made freely available for mobile download and use.

30 weavers trained in the application of the software.



PROJECT: SUSTAINABLE DEVELOPMENT OF ILLICIUM GRIFFITHII IN WEST KAMENG DISTRICT

✓ Location: West Kameng District, Arunachal Pradesh

✓ Project Status: Completed

The project aimed to improve the population of *Illicium griffithii*—a commercially valuable species whose fruit is traded in tonnes—while supporting local livelihoods.

✓ Key Achievements:

14,000 successful seedlings raised in nurseries for spot conservation.



PROJECT: DIGITIZATION AND DOCUMENTATION OF CULTURAL HERITAGE AND LITERATURE IN MEGHALAYA

✓ Location: Meghalaya

✓ Project Status: Completed

✓ Implementing Agency: Ramakrishna Mission Ashrama, Sohra, with local partners

This project digitally documented the rich cultural heritage of Khasi, Jaintia, and Garo Hills, including museum collections, art, books, manuscripts, audio files, and more. It also ensured open-access availability on Wikimedia Commons to support cultural preservation and global access.

✓ Key Achievements:

- Dedicated Wikimedia gallery.
- 305 photos and 25 videos uploaded.
- Digitization of ~20,000 pages, with 5,426 pages (41 books) uploaded.
- Skill training for 24 volunteers (including 18 from Ramakrishna Mission).
- Wikimedia awareness sessions for ~50 participants across key cultural institutions.



PROJECT: SCIENTIFIC BEEKEEPING FOR DEVELOPMENT OF RURAL COMMUNITIES

- ✓ Location: Assam and Arunachal Pradesh
- ✓ Project Status: Completed

This initiative promoted sustainable and environmentally sound beekeeping practices, integrating forestry and agriculture to improve nutrition, income, and ecological balance. Training motivated farmers to adopt beekeeping as a supplementary livelihood, increasing agricultural productivity and generating revenue.

✓ Notable Achievements:

- Launch of “Kanyaka Honey” brand by Bharaliporiya Kanyaka Bohumukhi Pam.
- Launch of “Nectar Real” brand by CREED.



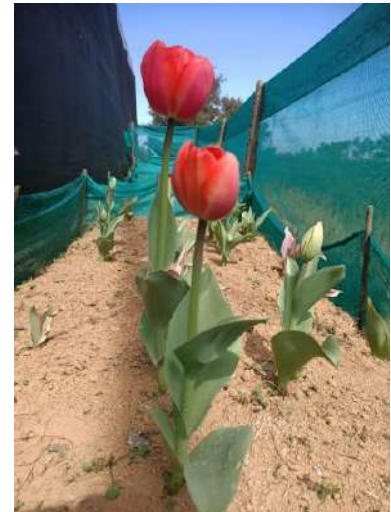
PROJECT: TULIP CULTIVATION AS A NEW CASH CROP IN NORTHEAST INDIA

- ✓ Location: Meghalaya
- ✓ Project Status: Ongoing

NECTAR initiated this pilot project to introduce tulip cultivation as a promising alternative cash crop, taking advantage of the region's unique climatic and soil conditions.

✓ Planting Details:

- Mairang Horti Hub, Eastern West Khasi Hills District (started 29/10/23): 1,300 bulbs.
- NECTAR Office, Shillong (started 04/12/23): 200 bulbs.



PROJECT: PROMOTING LIVELIHOODS THROUGH MEDICINAL AND AROMATIC PLANT-BASED INTERVENTIONS

- ✓ Location: Umsning, Ri Bhoi District, Meghalaya
- ✓ Project Status: Completed
- ✓ Implementing Agency: Meghalaya Integrated Mountain Development Initiative (MIMDI)

With NECTAR’s financial assistance, the Meghalaya Integrated Mountain Development Initiative (MIMDI) has established a state-of-the-art distillation facility in Umsning, Ri Bhoi District. This unit is unlocking the region’s economic potential by sustainably utilizing spices and medicinal & aromatic plants (MAPs). The facility produces a diverse portfolio of high-value products that serve both domestic and international markets, providing a sustainable alternative to traditional agriculture while promoting environmental conservation and biodiversity-based livelihoods. Key Products include essential Oils such as Lemongrass oil, Patchouli oil, Geranium oil, Cinnamon oil and herbal Powders such as Cinnamon, Stevia, Vetiver, Dalchini.



Training, Capacity Building

NECTAR-PMKVY 4.0

Pradhan Mantri Kaushal Vikas Yojana (PMKVY) is the flagship scheme of the Ministry of Skill Development and Entrepreneurship (MSDE) implemented by National Skill Development Corporation (NSDC). Under the Scheme, NECTAR has emerged as a key implementing agency for skill development initiatives in the Northeastern region of India. Its comprehensive approach ensures inclusive and impactful training delivery across multiple states.

KEY HIGHLIGHTS OF NECTAR'S ROLE UNDER PMKVY:

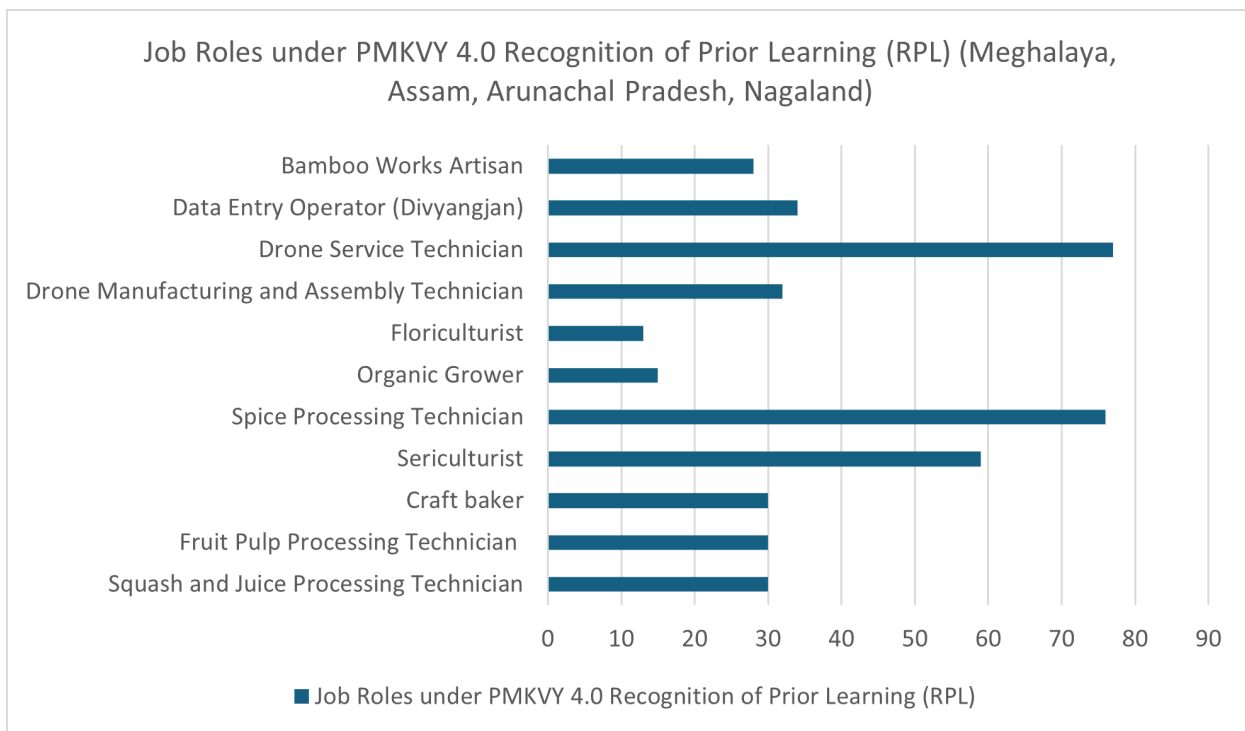
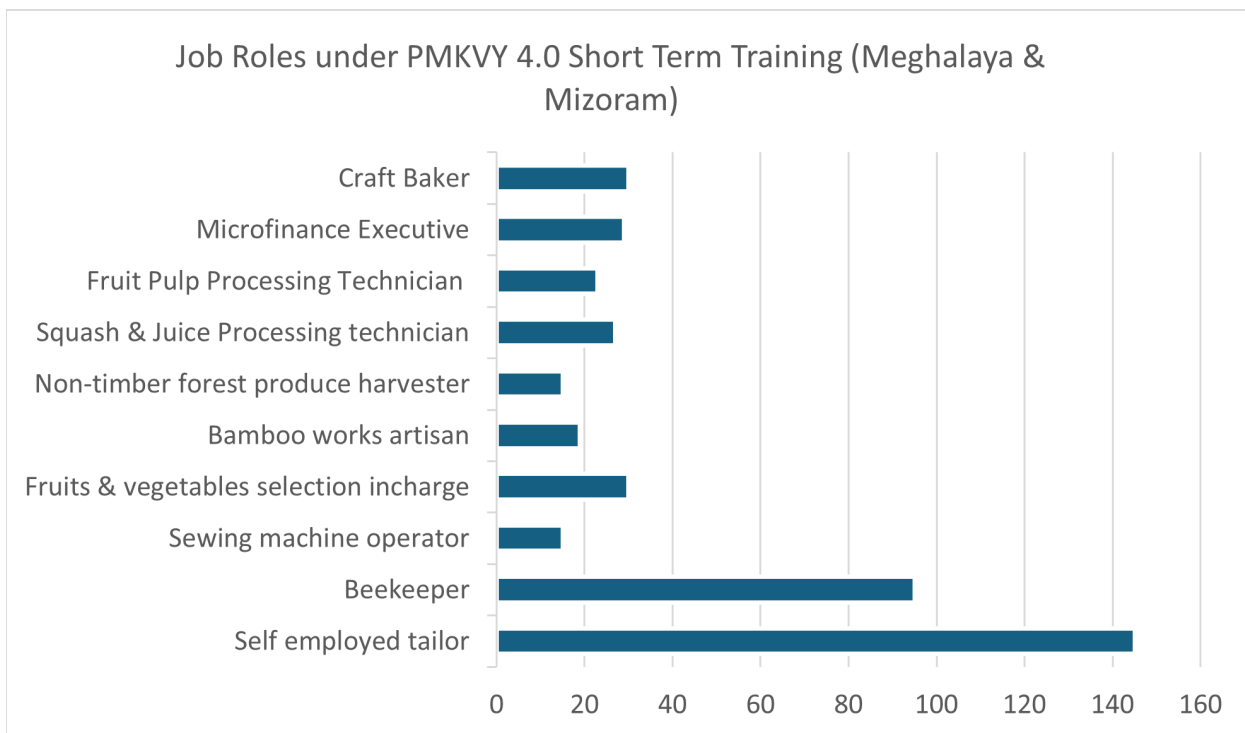
- ✓ **Regional Focus:** Operates across Meghalaya, Assam, Nagaland, Sikkim, Mizoram, Tripura, and Arunachal Pradesh.
- ✓ **Collaborative Approach:** Identifies and partners with suitable collaborating partners and Training Centres.
- ✓ **Inclusive Mobilization:** Engages candidates from diverse socio-economic backgrounds to ensure equitable access.
- ✓ **Livelihood Promotion:** Contributes to sustainable livelihood generation through skill enhancement.
- ✓ **Training and certification**

KEY HIGHLIGHTS OF STT IMPLEMENTATION BY NECTAR (2024-25):

- ✓ **NSQF-Aligned Courses:** Courses range from 300 to 600 hours, designed as per National Skills Qualification Framework (NSQF).
- ✓ **Candidate Target & Sector Coverage:**
 - Approximately 1,300 candidates targeted during 2023-24.
 - Conducted in collaboration with Indian Institute of Entrepreneurship (IIE).
 - Training covered sectors such as agriculture, food processing, handicrafts, and traditional skills.

KEY HIGHLIGHTS OF RECOGNITION OF PRIOR LEARNING IMPLEMENTATION BY NECTAR:

- ✓ **Candidate Coverage:**
 - Approximately 2,450 candidates were targeted under the RPL component.
 - Sectors included agriculture, handicrafts, and other traditional and industry-relevant fields.
- ✓ **Mode of Implementation:**
 - 240 candidates were trained through RPL Camps conducted in 2023-24.
 - 2,210 candidates were certified under RPL at Industry Premises during 2024-25, enabling skill recognition in real work environments.



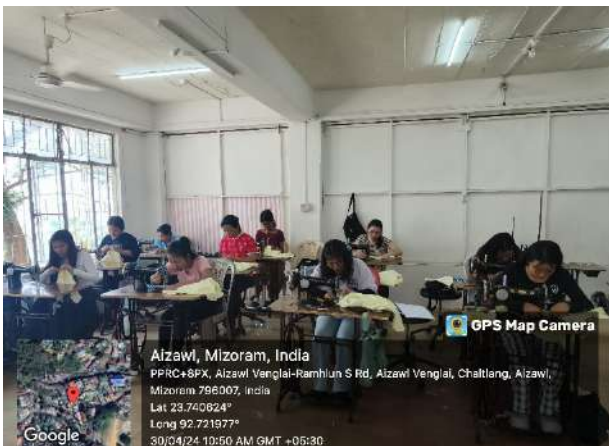


Fig: PMKVY Short-Term Training (STT) pictures on various job roles

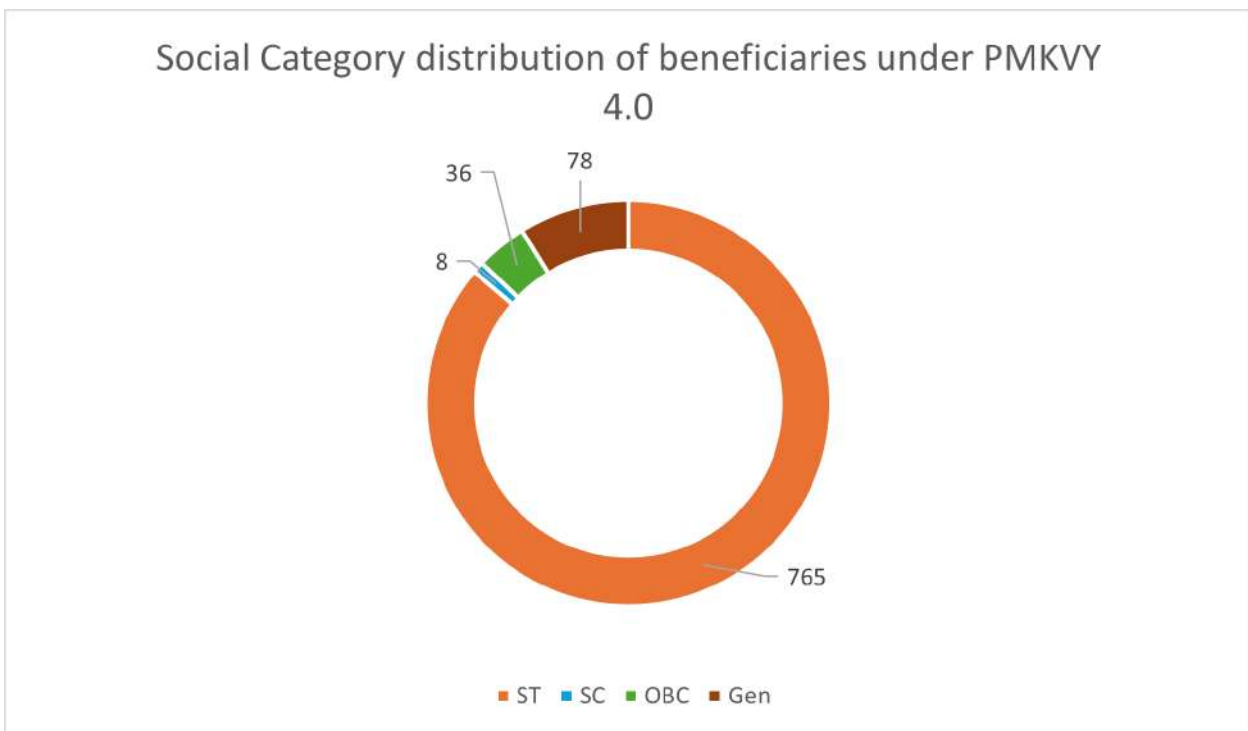
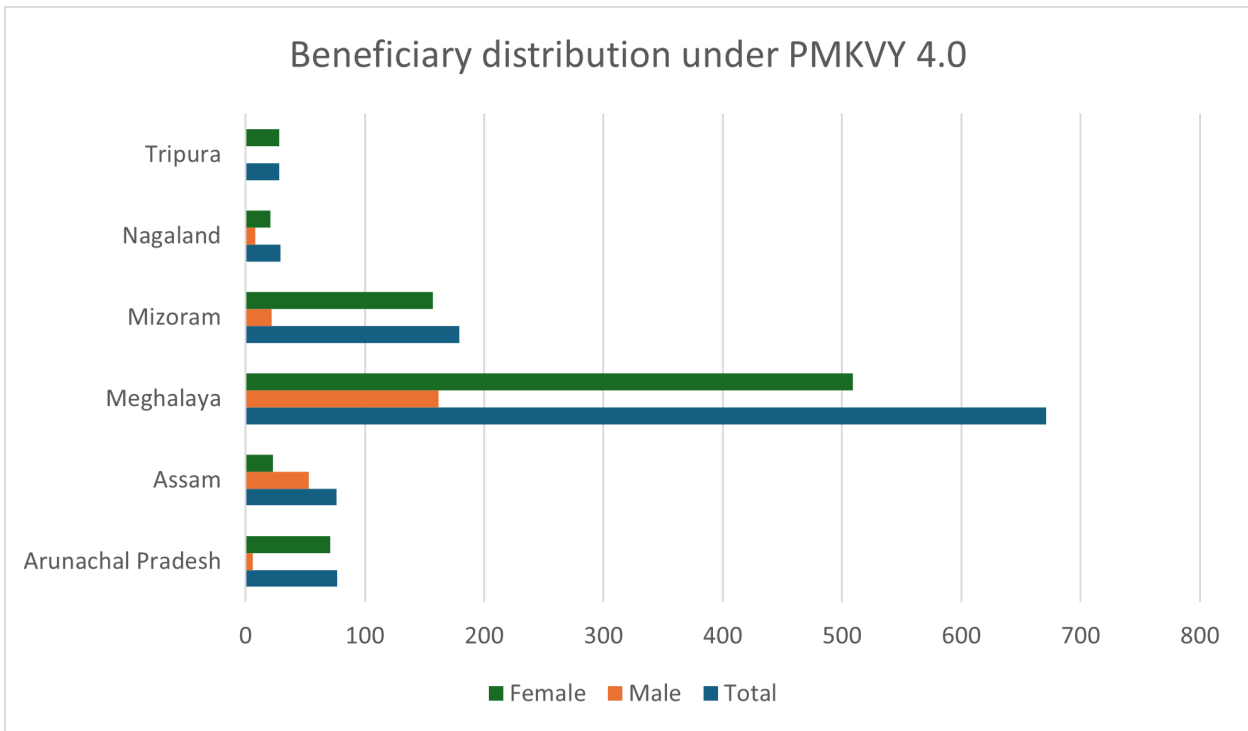








Fig: Recognition of Prior Learning (RPL) on various job roles

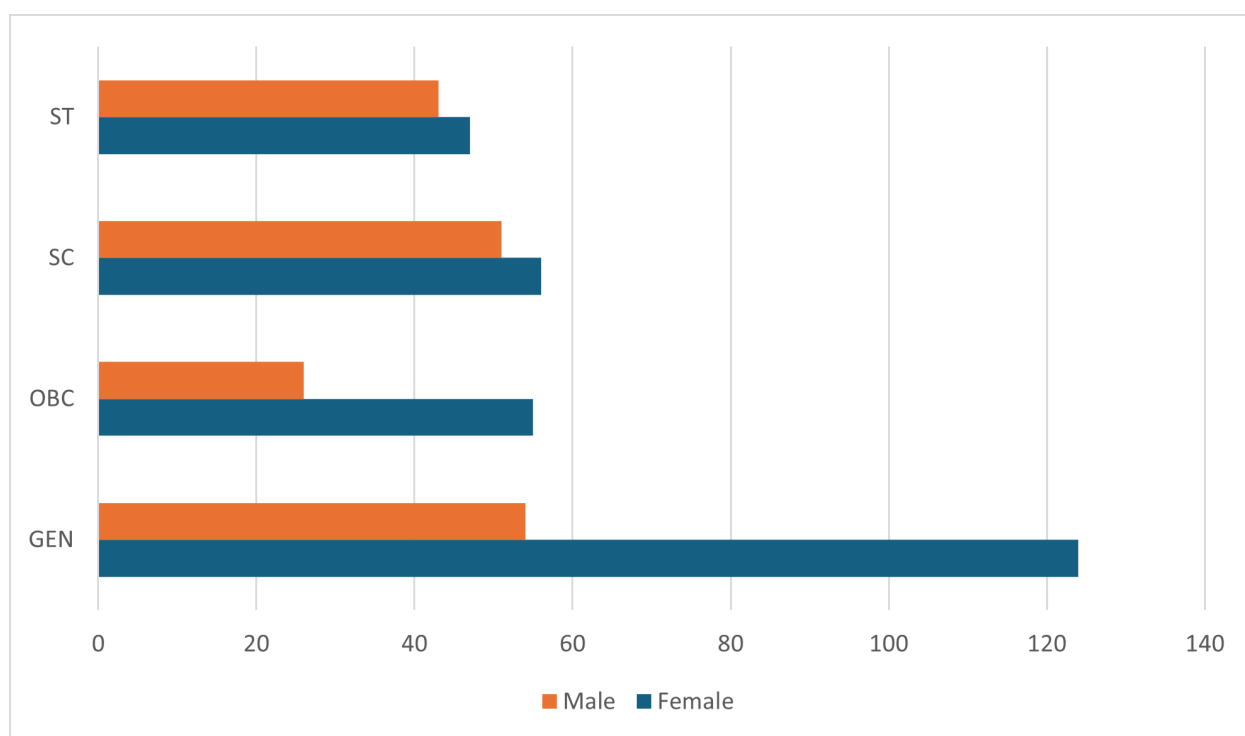
NECTAR - BCDI, TRIPURA

To promote sustainable livelihoods, preserve traditional skills, and support local economies, a series of capacity building and skill development programs focusing on bamboo were organized in Tripura between 2024 and 2025. These initiatives were supported by organizations such as NECTAR, Tripura Bamboo Mission, India Exim Bank, Tripura Climate Change Cell, and the Ministry of Micro, Small, and Medium Enterprises (MSME), Government of India. The Bamboo & Cane Development Institute (BCDI), Agartala served as the primary venue for many of these programs.

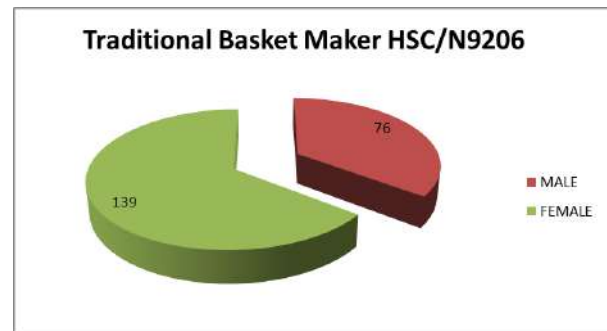
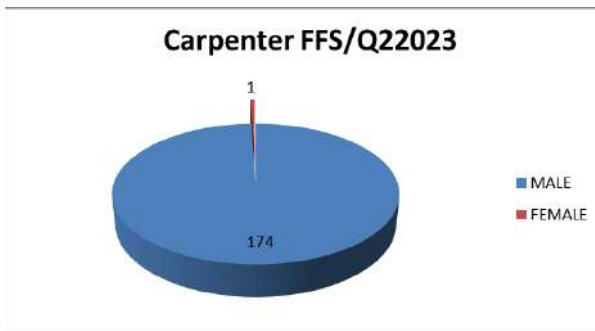
These programs aimed to impart practical skills in bamboo processing, product development, and design innovation while raising awareness of bamboo’s role in climate change mitigation. Participants included local artisans, members of handicraft centres, officials from bamboo missions, and even international trainees, reflecting both local and global interest in bamboo as a sustainable resource.

KEY HIGHLIGHTS:

- ✓ Total programs conducted: 8 (including repeated batches)
- ✓ Total participants trained: Over 439 people (including international participants)
- ✓ Sponsors and partners: NECTAR, Tripura Bamboo Mission, India Exim Bank, Tripura Climate Change Cell, DSTE
- ✓ Key locations: BCDI, Agartala (primary training venue)
- ✓ Focus areas: Bamboo utility products, bottle making, jewellery design, primary processing, climate change mitigation awareness.



In addition to these programs, BCDI currently also operates as a Training Centre under the PM Vishwakarma Scheme (PMVKY) of the Ministry of Micro, Small, and Medium Enterprises (MSME), Government of India. Under this initiative, BCDI provides continuous, high-quality training in the traditional crafts of bamboo basketry and carpentry. These programs are designed to preserve and promote important heritage skills, enhance artisan livelihoods, and contribute to the region's sustainable development. By offering hands-on training and expert guidance, BCDI plays a crucial role in empowering individuals, fostering entrepreneurship, and supporting the growth of small and medium enterprises within the community.





TRAININGS UNDER GEOSPATIAL DIVISION

NECTAR has delivered a diverse and impactful range of training and outreach programs to strengthen technology capacity in the North East through its Geo-Spatial Division, focusing on practical skills and industry readiness. These initiatives directly support national priorities under Digital India, the National Education Policy, and the National Geospatial Policy, while fulfilling NECTAR's mission of technology diffusion in underserved regions. By demystifying frontier technologies and linking academic learning with industry needs, NECTAR's programs are helping unlock the region's innovation potential while advancing national development goals.

NECTAR has organized a wide range of awareness and training workshops to popularize Drone Technology, Geospatial Technologies, and AI/ML among students across academic levels in the North East.

- ✓ In partnership with National Skill Development Corporation (NSDC), NECTAR trained Drone Assembly and Service Technicians. 150 students have completed this training, opening doors to jobs in drone companies, service firms, start-ups, and self-employment in mapping and inspection services.
- ✓ 1,000 students joined a major awareness program at Dibrugarh University with expert talks, live demonstrations, and interactions on remote sensing, GIS, drone-based data acquisition, and AI/ML applications.
- ✓ 250 school students of Classes 8 -12 attended outreach sessions using simplified modules

to explain drone technology and career pathways in the UAS sector in Bongaigaon and Tamulpur in Assam

- ✓ 50 engineering students were given training on technical drone components, flight handling, and safe SOPs, including live flying sessions at CIT, Kokrajhar.
- ✓ 30 students learned about geospatial data at Assam Down Town University, Assam
- ✓ 10-Day Mobile Campus Training on Remote Sensing and GIS at Cotton University, Pragjyotish College, Dimoria College, and St. Anthony's College, Shillong, reaching 80 students preparing students for careers in fields like farming technology, urban planning, and disaster management.







WORKSHOPS AND MISCELLANEOUS ACTIVITIES



Three day training cum exposure visit was organized for the trainees from the Central Institute of Horticulture, Nagaland by NECTAR from 12th – 14th June 2024



Inauguration of NECTAR's Manipur Liaison office at the Manipur Khadi & Village Industries Board, Lamphelpat, Imphal on 03.08.2024

Wahong 90.0 MHz Community Radio, a project supported by NECTAR was Inaugurated in Thoubal Manipur



Workshop on Plasma Technologies for Entrepreneurship at NIT Meghalaya and Cotton University



National Space Day organized by NECTAR in collaboration with St. Anthony's College Shillong on 14.8.2024



Workshop on Digital Transformation today organised by NECTAR in association with Dibrugarh University on 3.09.2024



Two-day workshop, 17th and 18th of September, held by SMART (Seeking Modern Applications for Real Transformation) at the Indian International Centre, New Delhi, on «Gender Inclusion in Community Radio».





NECTAR Activities under Swachhata Hi Seva 2024, Special Campaign



Inspection meeting of the second sub-committee of the Honorable Parliamentary Official Language Committee on 18.11.2024



MoA signing Ceremony between North East Centre for Technology Application and Reach (NECTAR) & Indian Council of Agricultural Research-Agricultural Technology Application Research Institute (ICAR-ATARI) (Zone VI) cum Smart phone distribution to Master trainers for “Promoting Scientific Organic Agriculture in Northeast India” on 18.10.2024



SIAL India 2024; Director General, NECTAR alongside Ms. Piret Hartman, Honourable Minister of Regional Affairs and Agriculture, Government of Estonia, APEDA Chairman and others



Hindi Workshop and Prize and Certificate Distribution to the winners of the Hindi Pakhwada on 30.12.2024



Workshop on “Calibration of Medical Devices” by NECTAR held in Downtown hospital in collaboration with Anna University on 20.01.2025



NECTAR conducts workshop on STEM for teachers at St. Edmunds College, Shillong



Agreement Signing between NECTAR & Khadi & Village Industries Board, Manipur



MOU Signing between NECTAR and CSB-CMERTI during the Bharat Tex 2025 on 17th Feb 2025



MOU Signing between NECTAR and Bhattadev University, Assam on 28.02.2025



Visit of Smt. Pankaja Munde, Minister of Environment, Forest & Climate Change, Govt. of Maharashtra, along with Smt. Vinita Singhal, Principal Secretary, Govt of Maharashtra visited for exposure on Bamboo at BCDI Tripura on 18.2.2025



Inauguration of Organic waste Composting facility at Sesawng Mizoram including distribution of Vasundhara Organic Carbon Testing kit to Beneficiaries by Nectar Competent authority alongwith officials from Mizoram Science Centre and external expert member from Agri Dept, Govt of Mizoram.



Foundation Stone Laying Ceremony at Umsawli, Meghalaya inaugurated by Hon'ble Union Minister Of State (IC) Of The Ministry Of Science & Technology, Shri Jitendra Singh on 13.3.2025



NECTAR IN THE NEWS



THE ASSAM POST ■ GUWAHATI EDITION ■ SATURDAY, NOVEMBER 30, 2023

Inauguration of demo farm lab by nectar at Karbi Anglong

Etso Teron, Karbi Anglong: On Tuesday, Demo Farm Lab and Training Center under Prime Minister's Development Initiative for North East Region (PM-

Mazumdar (State Officer, NECTAR), Dr. Raktim Borkotoky (Research Associate, NECTAR), Dr. Sunita Upadhaya (Research Associate, NECTAR), Ms. Sulkshana Borah (Research Associate, NECTAR), Shri. Bharat Phukan (Technical Officer, NECTAR) and Shri. Pranjal Saikia (MIS-Coordinator, NECTAR).



NECTAR (North East Centre for Technology Application and Reach) is implementing the project titled "Promoting Scientific Organic Agriculture in North East India" which aims to create 250 organic clusters across North-eastern states targeting 250 Master trainers and 25000 Trainee farmers. One of the major components under this project is the establishment of Demo Farm Lab. The programme laid focus on the importance of Demo Farm Lab and its role in organic agriculture with an interaction session with all the Master Trainers and Trainee Farmers

DevINE) scheme, was officially inaugurated by Dr. Arun Kumar Sarma (Director General, NECTAR). On this day, an interaction was held with the farmers to mark the inauguration of this Demo Farm, in which the Chief Guests were Dr. A.K. Yadav (Chief Consultant, MOVCD-NER), Dr. Usha Dixit (Scientist-F, AI Division, Dept. of Science and Technology), Dr. Meraj Alam Ansari (Sr. Scientist, Agriculture, ICRAR, Bongaigaon)

Assam: NECTAR launches drone pilot training center in North East India to address job needs

NECTAR's initiative aims to bridge the gap between demand and supply by providing comprehensive drone operation training at Jawaharlal Nehru College, Boko, starting from May 8.

ADVERTISEMENT

India TodayNE
Apr 21, 2023,
Updated Apr 21, 2023, 7:23 PM IST

North East Centre for Technology Application and Reach (NECTAR) has taken a significant step towards addressing the demand for skilled drone pilots in India by launching a new employment opportunity for unemployed youth in the North East. With an estimated one million government and private jobs in need of skilled drone pilots, NECTAR's initiative aims to bridge the gap between demand and supply by providing comprehensive drone operation training at Jawaharlal Nehru College, Boko, starting from May 8.

Tapan Dutta, the Principal of JN College Boko, expressed his enthusiasm for the collaboration with NECTAR, stating that the drone technology training center at their college will offer professional training for aspiring drone pilots, leading to DGCA (Director General of Civil Aviation) approved certification. He highlighted the importance of drone technology as a crucial skill in the 21st century and the potential for employment opportunities in the field.

Somnath, a professional drone pilot and trainer from NECTAR, explained that earlier there were no guidelines for drones, but the DGCA introduced new guidelines in 2021, allowing anyone who has passed 10th grade to become a

diatbdyae.in/assam/br/assam-nectar-launches-drone-pilot-training-center-in-north-east-india-to-address-job-needs-54657202...

7:11:04, 12:57 PM NECTAR office inaugurated in Mizoram to enhance tech advancements - NECTAR office inaugurated in Mizoram to enhance tech advancements

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News / Mizoram / NECTAR office inaugurated in Mizoram to enhance tech advancements

NECTAR office inaugurated in Mizoram to enhance tech advancements

Mizoram Liaison Office of North East Centre for Technology Application and Reach (NECTAR) was inaugurated within the premises of the office building of the Directorate of Science by Vanlaldina Fanai, Commissioner & Secretary, Planning and Programme Implementation Department.

ADVERTISEMENT

Jun 13, 2024,
Updated Jun 13, 2024, 10:35 AM IST

Mizoram Liaison Office of North East Centre for Technology Application and Reach (NECTAR) was inaugurated within the premises of the office building of the Directorate of Science by Vanlaldina Fanai, Commissioner & Secretary, Planning and Programme Implementation Department.

Vanlaldina Fanai said that Science and Technology is the backbone for the development of Mizoram and the state needs more and more development in the field and hoped that the office would be a blessing for Mizoram in the field of the applications of science and technology.

Dr. Arun Kumar Sarma, Director General, NECTAR presided over the Inauguration function and presented the works and projects of NECTAR.

Also Read: Mizoram CM Laiduhoma Inaugurates renovated maternity ward at Aizawl Civil Hospital

North East Centre for Technology Application and Reach (NECTAR) is an autonomous society, set up under the Department of Science & Technology, Government of India in 2012 with its headquarters at Shillong, Meghalaya.



SPORTS WRITERS COLUMN LETTERS TO THE EDITOR

Jongksha on air: Community radio station launched

by HP News Service - March 10, 2024 in East Khasi Hills



SHARES 74 VIEWS

is.in/highlandpost.com/oneksha-on-air-community-radio-6260r-launched

1/9



Prof. Akali Seno, PCC, NU & STINER-TFC with resource persons and Master Trainers at PCC, Medziphema Campus

Science and Technology Intervention in North-Eastern Region-Technology Facilitation Centre (STINER-TFC), NU-SAS, Medziphema Campus in collaboration with North East Centre for Technology Application and Reach (NECTAR) conducted five-day Master Trainers' Training Programme to Promote Scientific Organic Agriculture in North-East India at STINER-TFC, NU-SAS, Medziphema campus from July 15 to 19, 2024.

In a press release by STINER-TFC, Project Incharge, Prof. Akali Seno informed that the training was conducted under the PM-DevINE scheme funded by the Ministry of DoNER. The training brought together 20 Master Trainers from four implementing agencies i.e., ICCOA, KVSS, Sheel Biotech and Access Development Service.

STINER-TFC, Project Incharge highlighted that the objective of the training was to demonstrate various bio pesticide use, application processes, and discussing the importance of bio-control agents in organic farming and create organic clusters in North-East.

STINER-TFC, Project Incharge said that Research Associate, NECTAR, Dr. Sunita Upadhyay, highlighted the importance of farm and organic farm lab designs and management. Assistant professor, Living India College, Dr. Chit. Ananta, College demonstrated bio bio pesticides and discussed plant protection in sustainable agriculture, showcasing indigenous preparations of bio pesticide like Neemazone and Agriazone. NU-SAS, Medziphema campus, Prof. L. Tinsung Longkumer provided detailed insights on organic farming inputs, economic and social benefits, and application methods.

NECTAR Launches Organic Agriculture Project In Arunachal Under PM-DevINE Scheme



East Kameng/West Kameng, June 5, 2025 - In a significant step towards advancing organic agriculture in Arunachal Pradesh, the North East Centre for Technology Application and Reach (NECTAR), an autonomous body under the Department of Science and Technology, Government of India, has initiated key interventions under the project "Promoting Scientific Organic Agriculture in the North East Region." Funded by the Ministry of Development of North Eastern Region (MIDWER) under the PM-DevINE scheme, the project is being implemented in 15 clusters across East Kameng and West Kameng districts.

The PM-DevINE Organic Scheme aims to create a robust organic farming ecosystem throughout the Northeastern states by focusing on farmer training and capacity building, facilitating organic certification, establishing demonstrative farm labs at the cluster level, developing community seed banks, and creating a digital architecture using modern technologies such as IIoTs. This digital system will integrate key components such as farmers' details, yield, soil characteristics, and more for data-driven decision-making. It also emphasizes market linkage of organic produce through e-marketing platforms and dedicated organic outlets.

The scheme envisages the establishment of 250 organic certified clusters, each guided by a Master Trainer and involving 100 trainee farmers. The overall goal is to train 25,000 farmers across the northeast, ensuring their produce is certified and connected to viable markets. The state-wise distribution of these clusters is as follows: Assam (75), Meghalaya (55), Tripura (50), Mizoram (20), Nagaland (20), Manipur (15), and Arunachal Pradesh (15).

In Arunachal Pradesh, the project targets 1,200 farmers across 15 clusters. The focus areas include scientific capacity building, land certification under the Participatory Guarantee System (PGS), and digital monitoring of progress.

To enhance field coordination and digital data management, 15 smartphones were distributed to Master Trainers in East and West Kameng districts. These devices will be used to track farming activities, collect field-level data, and ensure efficient communication among trainers, farmers, and agricultural experts to address on-ground challenges effectively.

Additionally, Master Trainers received training materials to support farmer education sessions within the clusters. These materials include modules on organic practices, composting techniques, and natural pest management—designed to strengthen grassroots knowledge on sustainable farming practices.

As part of the seed support initiative, bio/inhabet seeds were distributed in several clusters: four clusters in Shitagonj, one in Jigson, one in Membaohu, and four clusters in Rupa and Thongre.

The distribution ceremony was presided by several senior NECTAR officials, including Shri Rakesh Kumar Samah (Chief Coordinator, Technical), Dr. Prabhat Bopasara (Regional Officer), Shri Pransal Salkia (IMS Coordinator), Shri Dharmendra Kumar Jha (Senior Analyst), and Shri Bisul Sinha (Junior Analyst).

Climate trend prediction needs tech teeth: CM

By Our Reporter

SHILLONG, Aug 2: Chief Minister Conrad K. Sangma on Friday laid thrust on leveraging technology to have stronger models of predictability and analysing climate trends and monitoring mechanisms.

Addressing the inaugural function of a workshop for forest officials on "Forest Survey & Mapping for Meghalaya Using Hybrid System to Analyse Carbon Financing and Phyto-diversity Heat Map & Provisions of the BD Act (Amendment)" here, he spoke at length on the importance of the use of technology for data collection and usage, mapping and synchronizing the data collected.

"Using the data (collected) from different departments and observing the trends will allow government to make the right policies," Sangma said, adding that effective interventions will have a larger impact.

He said the implementation of the Biological Diversity Act and its 2023 amendment are important for Meghalaya, a state renowned for



its rich biodiversity and traditional knowledge.

"The provisions of the Act will enable us to protect our biological resources and associated traditional knowledge from exploitation and ensure that local communities benefit from the sustainable use of these resources," he added.

Sangma further stated that the goal of implementing the provisions of the Act in Meghalaya is to foster a

sustainable relationship with nature where conservation and development go hand in hand.

He expressed satisfaction over the results of a recent survey of the state's reserve forests, conducted using advanced aerial LiDAR and Hyperspectral imaging technologies.

"These cutting-edge methods have enabled an in-depth analysis of Meghalaya's reserve forest biodiversity, health and environmental

challenges," the CM said.

He said Meghalaya's new framework involves creating an inventory of its natural assets and assessing the economic value of its ecosystem services. The idea is to develop innovative financial tools and secure funding for conservation efforts.

"We aim to establish a new revenue model around nature conservation and climate action, ranging from carbon farming and regenerative agriculture to monetising ecosystem services of our forests," Sangma said.

He released the final report on "Forest Survey & Mapping for Meghalaya Using Hybrid System to Analyse Carbon Financing and Phyto-diversity Heat Map".

RS Gill, PCCF & Hoff; Dr Anu Kumar Sarma, DG, NECTAR; and Pravin Bakshi, Commissioner & Secretary, Forest & Environment and Chairman of Meghalaya Biodiversity Board were among dignitaries present.



Plasma Technology For Entrepreneurship Concluded By NECTAR In Collaboration With AIC



<https://nefocus.com/%E0%A6%8B%E0%A7%81%E0%A6%96%E0%A6%AC%E0%A7%80/plasma-technology-for-entrepreneurship-concluded-by-nectar-in-collaboration-with-aic>



'Plasma Technologies for Entrepreneurship' concludes


80 participants including students, faculties and entrepreneurs had participated in the awareness programme




along with other officials and experts from NECTAR and CPP-IPR, Sonapat. The program enlightened the opportunities and prospects of using Plasma Technology for a successful technology-based enterprise. It covered topics related to Plasma Technology and case studies on how these technologies can be game changer in several areas. It also introduced the participants with the role of Intellectual Property and how Patenting could help them safeguard innovations. The access to Plasma Technology and applications in the North Eastern region was also elaborately discussed.

the awareness programme was graced by Prof Pinkeshwar Mahanta, director of NIT, Mezhalaya; Anus Kumar Sarma, director general of NECTAR and Niranjan Kumar Head, AIC - IPR, Plasmatech Innovation

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NECTAR and AIC-IPR Plasmatech host awareness programme on Plasma Technologies for Entrepreneurship at Cotton University



<https://www.indiatodayne.in/lifestyle/story/nectar-and-aic-ipr-plasmatech-host-awareness-programme-on-plasma-technologies-for-entrepreneurship-at-cotton-university-1067558-2024-08-08>

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Assam: ISRO's 'Space on Wheels' Awareness Programme Held at Darrang College, Tezpur



Assam News

Assam: ISRO's 'Space on Wheels' Awareness Programme Held at Darrang College, Tezpur

A significant awareness programme, a part of the ISRO ongoing "Space on Wheels" initiative was jointly organized by Vignan Bharti, North East Space Movement (NESM), NECTAR in collaboration with Assam State Commission for Protection of Child Rights ASCPCR and North East Space Application Centre (NESAC) in the auditorium of Darrang College, Tezpur.



Sentinel Digital Desk
Published on: 19 Sep 2024, 7:09 am

Tezpur: A significant awareness programme, a part of the Indian Space Research Organization's (ISRO) ongoing "Space on Wheels" initiative was jointly organized by Vignan Bharti, North East Space Movement (NESM), North East Centre for Technology Application Reach (NECTAR) in collaboration with Assam State Commission for Protection of Child Rights (ASCPCR) and North East Space Application Centre (NESAC) in the auditorium of Darrang College, Tezpur.

<https://www.sentinelassam.com/truth-east-india-news/assam-news/assam-space-on-wheels-awareness-programme-held-at-darrang-college-...>

10/7/24, 2:39 PM

Shillong teachers given a crash course in advanced Science, Technology & Maths Skills



Hubnews

Shillong teachers given a crash course in advanced Science, Technology & Maths Skills

By HubNetworks September 23, 2024 0 376



Shillong, Sept 21: The North East Centre for Technology Application and Reach (NECTAR), in collaboration with the Indian Institute of Science Education and Research (IISER), Pune and Smart Village Movement (SVM), Meghalaya, recently organized a one-day workshop titled "STEM - Mobilising Science and Technology-Based Learning for Schools."

Held at St. Edmund's College in Shillong, the workshop aimed to equip educators with innovative teaching techniques in Science, Technology, Engineering and Mathematics (STEM).

A total of 100 teachers from schools in Shillong and surrounding areas participated in the event, which focused on fostering inquiry-based learning, creativity, and curiosity among students.

Pre-event of Metapoise V1.0 at Dibrugarh University



A CORRESPONDENT

DIBRUGARH, Sept 4: Dibrugarh University's Department of Computer Science and Engineering at DUIET, in collaboration with the Office of the Dean, Student Affairs, and North East Centre for Technology Application and Reach (NECTAR) hosted on Tuesday a pre-

event for Metapoise v1.0. The event titled, "Digital Transformation", featured distinguished speakers who highlighted key advancements in technology. Prof. Surajit Borkotokey, Dean, Student Affairs at Dibrugarh University, delivered the welcome address. Prof. Jiten Hazarika, Vice Chancellor of Dibrugarh Univer-

sity inaugurated the session. Dr. Arun Kumar Sarma, Director General of NECTAR, discussed S&T interventions for Northeast India, while Guruprasad Potdar, AVP of Product Line Service Components, presented on Advanced Surface Technology. Sukdeb Barman, Application Engineer at Adroitec Information System Pvt. Ltd., captivated

the audience with insights on 3D Printing Technology and its role in Industry 4.0. Dr. Ganesh Khadanga, Scientist 'F' at the National Informatics Centre, explored the uses of Generative AI and Blockchain in industry and security.

Dhirendra Kumar from IoTech World Aviation introduced innovations like AGROBOT and AGRINET, focusing on agri-entrepreneurship. Rajendra Jena, Chief Geomatics Officer at NECTAR, provided insights into the applications of drone technology.

The event also included hands-on demonstrations by Sukdeb Barman on 3D printing, Dhirendra Kumar on agricultural drones, and Sattyam, Geomatics Officer at NECTAR, alongside Nitin Sharma, drone pilot and Senior Analyst at NECTAR, on drone data acquisition and mapping.

The session concluded with a vote of thanks from Dr. Kaushik Das, Assistant Professor at the Department of CSE, DUIET.

Guwahati, English Edition Edition
Sep 05, 2024 Page No. 5
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To promote organic farming, NECTAR gives away smartphones to farmers

By Our Reporter

SHILLONG, Oct 19: As part of its project, 'Promoting Scientific Organic Cultivation in Northeast India', NECTAR distributed smartphones to farmers from various districts of Meghalaya.

According to a statement, the project, sanctioned by the Ministry of DoNER under the PMDevINE scheme, aims to create 250 organic-certified clusters across the Northeast.

In Meghalaya, the initiative includes establishing 55 farm labs across all districts in collaboration with Meghalaya State Rural Livelihoods Society (MSRLS) and the Bio Resources Development Centre (BRDC).

"55 lead farmers were earlier trained as master trainers by BRDC who will manage the demo farm labs and train 100 farmers in the respective clusters for organic farming," the statement said.

In a bid to support digital agriculture and the management of information systems,

smartphones were distributed to the master trainers during a programme at NECTAR's Shillong Office on Friday.

During the programme, Director of ICAR-ATARI, Dr. AK Mohanty, emphasised reducing the use of chemical fertilisers for long-term agricultural benefits.

He also stressed the importance of bio-stimulant and bio-control startups with rigorous lab and field trials.

The programme also saw farmers engaged in one-on-one interactions with scientists, including Prof. Pranab Dutta from CPGS-CAU, Umiam, who shared his expertise in organic farming in Meghalaya and discussed local solutions for local challenges.

On the other hand, NECTAR Director General, Dr. Arun K. Sarma, expressed concern over inefficient market linkages between farmers and consumers and assured that the project would address this issue, benefiting 25,000 farmers across the Northeast.

The Shillong Times

ESTABLISHED 1945

MEGHALAYA

To promote organic farming, NECTAR gives away smartphones to farmers

By: By Our Reporter October 20, 2024

By Our Reporter

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PM-DevINE initiative: Demo farm lab inaugurated to boost organic farming in northeast



<https://www.indiatodayne.in/assam/story/pm-devine-initiative-demo-farm-lab-inaugurated-to-boost-organic-farming-in-northeast-1128491-2024-11-28>



Assam: NECTAR Inaugurates Demo Farm Lab At Karbi Anglong



<https://www.sentinelassam.com/north-east-india-news/assam-news/assam-nectar-inaugurates-demo-farm-lab-at-karbi-anglong>



Assam's Karbi Anglong gets new demo farm lab



<https://www.eastmojo.com/assam/2024/11/28/assams-karbi-anglong-gets-new-demo-farm-lab/>



PM-DevINE initiative: Demo farm lab inaugurated to boost organic farming in northeast



<https://northeastmonitor.com/2024/11/28/pm-devine-initiative-demo-farm-lab-inaugurated-to-boost-organic-farming-in-northeast/>

Training module on GIS, Remote Sensing under way

The vital role of GIS and remote sensing in addressing pressing environmental challenges such as climate change, urbanization, disaster management, and resource planning underscored

STAFF REPORTER

GUWAHATI, Jan 28: The Cotton University in collaboration with the North East Centre for Technology Application and Reach (NECTAR) organized a comprehensive 10-day training module on Geospatial Information Systems (GIS) and Remote Sensing recently.

The training, hosted at the Physics department's conference room, brings together students, researchers, academicians, and professionals eager to enhance their technical expertise in geospatial technologies.

According to a press release, the inaugural programme commenced with a warm welcome and felicitation of the chief guest, the Director General of NECTAR, Dr Arun Sharma and the guest of honour, the Vice-Chancellor of Cotton University Prof Ramesh Ch Deka.

The ceremony was led by Sattiyam Tripathi and Nikita Gogoi of NECTAR. The Registrar of Cotton University, Dr Arindam Garg delivered the welcome address, acknowledging the collaborative efforts of both institutions in organizing the programme.

The director of the Centre for Clouds and Climate Change Research (CCCCR), Cotton University, Dr Rabul Mahanta presented an overview of the training programme.

He underscored the vital role of GIS and remote sensing in addressing pressing environmental challenges such as climate change, urbanization, disaster management, and resource planning.

Vice-chancellor Prof Deka expressed pride in hosting the training module, emphasizing the importance of equipping participants with state-of-the-art knowledge and tools to contribute effectively to regional and national development.

Director general of NECTAR, Dr Sharma delivered the keynote speech focusing on the transformative potential of geospatial technologies in enhancing policy decisions and sustainable development.

He commended Cotton University for its dedication to building capacities in this critical field and highlighted NECTAR's ongoing efforts to promote technological advancements in Northeast India.

Running from January 21 to January 30, 2025, the training programme promises to deliver an enriching blend of theoretical knowledge and practical applications.

The programme will feature expert lectures, hands-on sessions with advanced geospatial software, and case studies focusing on Northeast India's unique environmental and developmental challenges. Participants will receive certifications upon successful completion.

Speaking on the occasion, the Director of CCCCCR, Dr Mahanta said, "The collaboration between Cotton University and NECTAR underscores our commitment to fostering technological advancements and capacity building. GIS and remote sensing are not just tools but transformative technologies that can shape the future of sustainable development in Northeast India."

This training module is the first in a series of 12 programmes planned for the 2025-26 financial year. With two programmes scheduled every quarter, the programme aims to ensure that students from across the Northeast region, both from urban and rural colleges, have access to this transformative initiative.

Training module on GIS, remote sensing held at Dimoria College

The mobile campus course is designed to equip students, researchers, and professionals with practical expertise in GIS, remote sensing, digital image processing, and cartography

STAFF REPORTER

GUWAHATI, Feb 04: A 10-day training module on GIS and remote sensing, jointly organized by the Centre for Clouds and Climate Change Research (CCCCR), Cotton University and the North East Centre for Technology Application and Reach (NECTAR), Dimoria, was held at Dimoria (Autonomous) College.

The mobile campus course is designed to equip students, researchers, and professionals with practical expertise in GIS, remote sensing, digital image processing, and cartography.

The vice-chancellor of Cotton University, Prof R Ch Deka inaugurated the event, emphasizing the university's commitment to fostering technological advancements and capacity building in the region.

Dr Arun Sharma, Director General of NECTAR, delivered the keynote address, highlighting the critical role of GIS and remote sensing in global and regional development.

In his keynote address, the director general of NECTAR provided a comprehensive overview of how GIS and remote sensing have transformed modern research, decision-making, and governance.

"The world today is witnessing rapid advancements in geospatial technology. GIS and remote sensing are no longer confined to specialized fields but have become indispensable tools in multiple domains, including climate monitoring, disaster management, resource management, and urban planning," he said.

"The region of Northeast India, which has unique socio-economic challenges, the application of these technologies can bring about changes from improving agricultural productivity and biodiversity conservation to better disaster preparedness and infrastructure planning. GIS and remote sensing provide a data-driven approach to decision-making. Training programmes like these are essential for ensuring that students, researchers, and professionals gain the necessary skills to contribute meaningfully to India's technological growth and environmental resilience," he added.

The special secretary to the Government of Assam and director of Assam State Space Application Centre, Mr Nhas shared his perspectives on the growing importance of geospatial technologies in governance, environmental management, and sustainable development.

He provided an expert insight into how space-based technologies and remote sensing applications are being integrated into policy frameworks for effective governance.

On the occasion of the programme, the director of the Centre for Clouds and Climate Change Research, Cotton University, Dr Rabul Mahanta, emphasized the comprehensive nature of the training module and its potential to empower future professionals in geospatial science.

The 10-day mobile campus course covers an extensive range of topics, ensuring a balance of theoretical knowledge and practical skills. Following the training, participants will undergo assessments, culminating in a certification ceremony recognizing their expertise in GIS and remote sensing technologies.

AdtU hosts workshop on Antibigram, Audiometer Devices, and Calibration with NECTAR, Anna University

Date- 21st Jan 2025



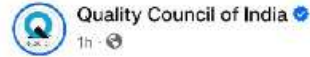
Assam down town University, in collaboration with North East Centre for Technology Application and Reach (NECTAR), Anna University Chennai, and down town hospital, successfully hosted a one-day hands-on workshop and brainstorming session focused on "Antibiogram, Audiometer Devices, and Calibration".

The event aimed to enhance the knowledge and practical skills of participants in key areas of medical diagnostics and device calibration. It brought together a diverse group of experts, academicians, and medical professionals from across the city.

The workshop was inaugurated by Dr. N.C. Talukdar, Vice Chancellor of AdtU, along with key speakers including Mrs. Mayurakshi Dutta, Executive Director of down town Hospital, Dr. Abhijit Dutta, Dean of Paramedical Science at AdtU, Dr. Shila Singh, Associate Dean of the Institute of Paramedical Studies at AdtU, Dr. Arun Kumar Sarma, Director General of NECTAR, Dr. Pompei Das from NECTAR, and experts from Anna University. Paramedical faculty and students from AdtU also participated in the session.

The event featured sessions on three critical topics: Antibiogram, a tool for determining antibiotic resistance patterns; Audiometer Devices, equipment for hearing tests; and Device Calibration, ensuring accuracy and reliability in medical equipment. Dr. N.C. Talukdar, Vice Chancellor, AdtU, highlighted the importance of collaborative efforts in improving healthcare standards, especially in Northeast India.

Dr. M. Sasikala from Anna University delivered a comprehensive lecture on combating antibiotic resistance, emphasizing the critical role of antibiograms. Dr. S. Muttan demonstrated the latest advancements in audiometer technology, showcasing calibration procedures essential for accurate hearing assessments, alongside Dr. K. Shankaran and Dr. Rohit Radhakrishnan, who contributed expertise from their respective fields.



Driving Quality for the North East India

QCI Secretary-General, Shri Chakravarthy T. Kannan, Dr. A. Raj (CEO NBQP), and Shri Subroto Ghosh (Head PPID) met with Dr. Arun Kumar Sarma, Director General of NECTAR, an autonomous body under the Department of Science and Technology, Government of India, to discuss the pivotal role of quality in driving social and economic development in the North Eastern Region.

The discussion centered on leveraging technology to empower communities, institutions, and people, ensuring inclusive growth and sustainable progress in the region.

Kannan Chakravarthy | Dr. Aishvarya Raj | Subroto Ghosh | Dr. Arun Kumar Sarma | [North East Centre for Technology Application and Reach](#) | NBQP - National Board for Quality Promotion



Workshop highlights bamboo's role in climate change mitigation

Agartala, Feb 11, 2025, TRIPURATIMES Desk

Agartala, Feb 11: The Forest Minister Animesh Debbarma on Tuesday emphasized the importance of bamboo cultivation in combating climate change at a one-day workshop titled "The Role of Bamboo in Climate Change Mitigation" at the Bamboo and Cane Development Institute in Lichubagan. The event was attended by officials from the Science and Technology Department, including the secretary, along with students from various colleges.



Addressing the gathering, Debbarma stressed the need to raise awareness about climate change and promote carbon-neutral practices to restore environmental balance. "We are making efforts to help people understand the mitigation process, and bamboo cultivation plays a crucial role in this," he said.

The workshop explored various strategies to enhance bamboo cultivation and its potential to absorb carbon dioxide efficiently. Experts discussed how large-scale bamboo plantations could serve as a sustainable solution for reducing carbon footprints.

With Tripura's favorable climate for bamboo growth, officials highlighted the need for policy support and community participation to maximize its benefits. The event also included discussions on innovative cultivation techniques to expand bamboo production in the state.



GET IN TOUCH

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সং-২৩৭৯
 আগরতলা, ১১ ফেব্রুয়ারি, ২০২৫

জলবায়ু পরিবর্তন প্রশমনে কর্মশালা
বাঁশ চাষের মাধ্যমে জলবায়ু পরিবর্তন
প্রশমিত করা সম্ভব : পরিবেশমন্ত্রী



‘জলবায়ু পরিবর্তন প্রশমনে বাঁশের ভূমিকা’ বিষয়ে এক কর্মশালা আজ লিচুবাগানস্থিত ব্যাঙ্গু অ্যান্ড কেইন ডেভেলপমেন্ট ইনস্টিটিউট (বিসিডিআই)-এর কনফারেন্স হলে অনুষ্ঠিত হয়। এই কর্মশালার উদ্বোধন করেন বিজ্ঞান, প্রযুক্তি ও পরিবেশ দপ্তরের মন্ত্রী অনিমেয় দেববর্মা। অনুষ্ঠানে তিনি উপস্থিত ছাত্রছাত্রীদের সঙ্গে স্বাস্থ্যের অর্থনৈতিক ব্যবস্থা ও পরিবেশের উপর বাঁশের ভূমিকা নিয়ে বিস্তারিত আলোচনা করেন। পরে সাংবাদিকদের সাথে মতবিনিময়ে পরিবেশমন্ত্রী বলেন, বাঁশ ত্রিপুরার অর্থনৈতিক উন্নয়নের জন্য একটি অনন্য বনজ সম্পদ। প্রচুর পরিমাণে বাঁশ চাষের মাধ্যমে রাজ্যের জলবায়ু পরিবর্তন প্রশমিত করা সম্ভব।

সাংবাদিকদের সঙ্গে মতবিনিময়ে তিনি আরও বলেন, ত্রিপুরার মাটি বাঁশ উৎপাদনের জন্য যথেষ্ট ভালো। বাঁশ অর্থনৈতিক দিক দিয়ে খুবই গুরুত্বপূর্ণ। বাঁশকে কাজে লাগিয়ে ত্রিপুরার জনগণ অর্থনৈতিক দিক দিয়ে সমৃদ্ধ হতে পারবে। কর্মশালায় দাগত বক্তব্য রাখেন বিসিডিআই-এর ইনচার্জ ড. অভিনব কাশ্য। কর্মশালায় সম্মানিত অতিথি হিসেবে উপস্থিত ছিলেন সংশ্লিষ্ট দপ্তরের সচিব ড. শশী কুমার, ইনচার্জ অব ক্লাইমেট চেঞ্জ সেল সুশান্ত বণিক। একদিন বাঁশী কর্মশালায় ত্রিপুরা বিশ্ববিদ্যালয়, ইকফাই বিশ্ববিদ্যালয়, টিআইটি ও কৃষি মহাবিদ্যালয় থেকে ৫৩ জন ছাত্রছাত্রী অংশগ্রহণ করে।

Training module on GIS, remote sensing begins at Dimoria College

HEALTH REPORTS

CONCEPTS This is a 10-day training module on GIS and remote sensing organized by the Centre for Quality and Choice Change Research (CQCR), Cotton University and North East Centre for Technology Application and Reach (NECTAR), Guwahati. The module covers the use of remote sensing data for various applications in agriculture, urban planning, and environmental monitoring. The training is being conducted at Dimoria College, Guwahati.

The training module is being conducted by NECTAR, an autonomous institute under the Department of Science and Technology, Government of India. The module covers the use of remote sensing data for various applications in agriculture, urban planning, and environmental monitoring. The training is being conducted at Dimoria College, Guwahati.

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AGM of Assam Financial Corporation held

The Assam Financial Corporation (AFC) held its Annual General Meeting (AGM) on Monday at the Assam State Convention Centre, Guwahati. The meeting was presided over by the Chairman, Dr. Anjan Kumar Choudhury, and attended by over 500 members. The AGM discussed the company's performance for the year and approved the dividend for the members.

Farmers' Mobilization & Awareness Programme organised by NECTAR under PM-DevINE Scheme in Nihoto Village

Dimapur: North East Centre for Technology Application and Reach (NECTAR), an autonomous institute under the Department of Science and Technology (DST), Government of India, has organized a Farmers' Mobilization and Awareness Programme in Nihoto Village, Nagaland. The programme was held on Monday, 11th March, 2025. The programme was held in Nihoto Village of Dimapur district in Nagaland. This project is focused on creating sustainable livelihoods and rural entrepreneurship by encouraging the utilization of banana pseudostem by converting it into various marketable products. The extraction of fibre from banana pseudo stem, preparing natural fibres, preparation of organic liquid nutrient using banana pseudo stem and various types of hand-made paper from banana fibre. The training was conducted by Consortium for Training, Research and Development (CTRD), Guwahati with support from the Entrepreneurs' Association, Kohima. The programme also received valuable insights from SDAO, Dimapur, Khebi Mibak, SDAO of the State Agriculture Department, and progressive farmers. The programme emphasized the importance of supporting the Common Facility Centre (CFC) for the collection, processing, and marketing of products. This initiative is expected to boost rural entrepreneurship, reduce agricultural

waste, and promote sustainable industrial development in North East India. The North East Centre for Technology Application and Reach



NECTAR is an autonomous body under the Department of Science and Technology (DST), Government of India. It was established to leverage cutting-edge technologies for the socio-economic development of the North Eastern Region (NER). NECTAR primarily focuses on applying advanced technologies in agriculture, horticulture, and allied sectors. The organization promotes the use of geo-spatial technology, cross-border solutions, hardware applications, and bio-processed to boost rural entrepreneurship, reduce agricultural waste, and promote sustainable industrial development in North East India. The North East Centre for Technology Application and Reach

Inauguration of CFC under PM-DevINE Scheme at Chümoukedima

Nagaland: The North East Centre for Technology Application and Reach (NECTAR), an autonomous institute under the Department of Science and Technology, Government of India inaugurated a Common Facility Centre (CFC) at a new Chümoukedima village, Chümoukedima, Nagaland. The facility has been established under the Ministry of DoNER's PM-DevINE scheme as part of the "NECTAR Livelihood Improvement Project - A Value Chain on Utilization of Banana Pseudostem for Value-Added Products", which aims to promote sustainable livelihoods, skill development, and value addition through the efficient utilization of agricultural waste in the entire North East India. The event was graced by Shri Chanchal Kumar, Secretary, Ministry of DoNER as the Chief Guest. Several other dignitaries from central and state departments, including senior officials from the Ministry of DoNER, Government of Nagaland, and representatives from developmental institutions, were also present and expressed their support for the initiative. Former minister of Nagaland, Doshree V Sema was also present in the event. Another key highlight of the event was the formal launch of an organic biofertilizer derived from banana pseudostem sap - a product developed under the same project to provide eco-friendly fertilizer alternatives for farming communities. This initiative not only promotes circular economy but also directly supports soil health and sustainable agriculture practices in the region. Dr. Anjan Kumar

Sarma, Director General, NECTAR, delivered a detailed presentation showcasing the broader objectives of the PM-DevINE project and NECTAR's portfolio of livelihood-oriented technological interventions across the Northeast. He highlighted how this specific project addresses a critical gap in agricultural waste management by converting banana pseudostem - typically discarded as waste into different useful and marketable products, including natural fibres, biodegradable sheets, and hand-made paper. He emphasized that this model offers both environmental and economic benefits and can be replicated across other regions and crops with similar challenges. Another important milestone marked during the ceremony was the signing of a Memorandum of Understanding (MoU) between NECTAR and The Entrepreneurs' Associate (IEA) based in Nagaland, formalizing

their collaboration for implementation and operation of the CFC. The MoU outlines joint responsibilities for technology demonstration, community mobilization, training, and enterprise development. The Entrepreneurs' Associate is a grassroots development group with extensive local experience in fostering entrepreneurship, having helped thousands of farmers and more than 1,000 first-generation business owners in the area. The establishment of this CFC is a step in leveraging region-specific resources and technologies to enhance rural livelihoods, entrepreneurship, and sustainable waste management. As one of twelve such centers planned under the PM-DevINE initiative, it reflects the government's commitment to integrated development in the North Eastern Region through targeted infrastructure, innovation, and community partnerships. Another important project under the Prime Minister's Development Initiative for North East Region (PM-DevINE) scheme supported by the Ministry of Development of North Eastern Region (MDoNER) is "Promoting Scientific Organic Agriculture in NE India" which is an initiative by North East Centre for Technology Application and Reach (NECTAR). The aim of the project is to create 250 organic certified clusters (75 in Assam, 55 in Meghalaya, 50 in Tripura, 20 in Mizoram, 20 in Nagaland, 15 in Arunachal Pradesh and 15 in Manipur) with capacity building of 250 Master Trainers and 25,000 Trained Farmers.



Cotton University, NECTAR and St. Anthony's College Collaborate to conduct Geospatial Learning

Shillong: Utilizing the Power of Geospatial Technology, NECTAR is launching the "Digital Mapping GIS and Remote Sensing Training Program" in Shillong, Meghalaya. In a collaborative initiative to promote education, research, and professional development in geospatial skills, the Centre for Technology Application and Reach (NECTAR) is collaborating with Cotton University and St. Anthony's College, Shillong. The program is designed to equip students with the latest skills in GIS, remote sensing, and digital mapping. The program is being conducted at St. Anthony's College, Shillong. The program is designed to equip students with the latest skills in GIS, remote sensing, and digital mapping. The program is being conducted at St. Anthony's College, Shillong.

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Farmers Mobilization & Awareness Programme held in Serchhip

Serchhip: In a continued effort to bring technology and value-added opportunities closer to grassroots communities, a Farmers' Mobilization and Awareness Programme was organized on 11th April 2025 at the Serchhip Press Club, Mirooram. The event was conducted by North East Centre for Technology Application and Reach (NECTAR), Shillong an autonomous institute under the Department of Science and Technology, Government of India. The programme witnessed the participation of 50 local farmers and stakeholders, including 37 women and 13 men, reflecting strong community interest and notable female participation. Key attendees included Mr. Kapilana Pachua, Journalist, Editor of Serchhip Times, and Chairman of Zolwipi Serchhip FPC, and Mr. Lawmlhira Raite, Correspondent, Doordarshan Kendra (DDK), Serchhip District. The session focused on sensitizing farmers to the potential of banana pseudostem processing, covering key topics such as sustainable banana cultivation practices, the significance and properties of the pseudostem, advantages of banana fiber, stages of fi-

ber extraction, water usage, and emerging business opportunities. Participants were also introduced to the project that NEC-



TAR is implementing titled "A Value Chain on Utilization of Banana Pseudo Stem for Value-Added Products" under the PM-DevINE Scheme funded by the Ministry of DoNER. Under this project, NECTAR is constructing a Common Facility Centre (CFC) in Serchhip for extraction of fibre from banana pseudo stem and other value-added products and banana-based vegam leather. This program has generated immense interest among the farmers in the zero-waste system. This awareness program supports the main goals of the PM-DevINE scheme helping farmers grow stronger, encouraging development that includes everyone, and bringing modern facilities closer to villages across the North Eastern Region.

World: NSE MD & CEO Ashishkumar Chauhan

With over 50 years of history, NSE has achieved the position of global eminence, leading 119 in terms of IPOs raised in the world, with 178 IPOs from the NSE sector. Overall, India's contribution to the world's IPO market is significant. NSE's IPO market is expected to continue to grow, with a focus on sustainable and green investments. The NSE is committed to providing a platform for companies to raise capital and grow their businesses. The NSE is committed to providing a platform for companies to raise capital and grow their businesses.

Cotton University, NECTAR and St Anthony's College collaborate to conduct Geospatial Learning in Shillong

10-Day Training Module on GIS and Remote Sensing Inaugurated at St Anthony's college



HT Bureau CUWAHATI, April 9 In a groundbreaking initiative to empower students, researchers, and professionals with essential geospatial skills, the North East Centre for Technology Application and Reach (NECTAR), in collaboration with Cotton University and St Anthony's College, Shillong, has launched the fourth batch of its highly anticipated 10-day Mobile Campus-based GIS and Remote Sensing training program. This dynamic training, aimed at honing practical skills and expertise in GIS, remote sensing, digital image processing, and cartography, commenced from Wednesday at St Anthony's College. The Geology Department of St Anthony's College, in association with NECTAR, has spearheaded this training program, designed to equip participants

with hands-on experience and in-depth knowledge in cutting-edge geospatial technologies. This initiative serves as a vital platform for developing the skill set necessary for tackling regional challenges in the Northeast, particularly in the difficult terrain of Meghalaya and other parts of the region. Arun Kumar Sarma, Director General of NECTAR, inaugurated the training program with an inspiring address to the students. He emphasized the significance of this opportunity for students to dive into the world of geospatial applications through expert-led practical sessions and advanced software tools. Sarma also highlighted NECTAR's unwavering commitment to advancing geospatial research in the Northeast, underscoring the role of GIS and remote sensing in addressing regional issues such as environmental man-

agement, disaster control, and resource mapping. "The world is experiencing a rapid evolution in geospatial technology, with GIS and remote sensing transforming not only research and decision-making but also governance. These technologies are crucial for addressing climate challenges, enhancing disaster preparedness, managing resources, and supporting sustainable urban planning," said Sarma during his keynote speech.

Sarma also encouraged students and faculty to engage with NECTAR's geospatial infrastructure and contribute their innovative ideas to furthering research in this vital sector. He assured participants that NECTAR remains committed to expanding geospatial research programs, bridging the gap between theoretical knowledge and practical application in the region.

The event is graced by the Principal of the College, Sr. Arcadia Puvira, by his warm welcome address, urging students to explore the expertise facilities of NECTAR and Sri Rajendra Jena, Chief Geomatics Officer highlighted the objective of this unique off-campus program of NECTAR with meticulously designed to the comfort of students and curriculum is synchronized more towards the practical application. Dr. Colin Z. Renthlei, Advisor (Technical), NECTAR, also joined the event and discussed about the future collaboration on faculty development programs for better learning ecosystem in the sector of Geospatial Technology Application through the initiatives of St Anthony's college.

NECTAR launches new initiative in East and West Kameng



EAST KAMENG, Jan 6: A major initiative to promote scientific organic farming has been launched in Arunachal Pradesh's East Kameng and West Kameng districts. The North East Centre for Technology Application and Reach (NECTAR), an autonomous body under the Department of Science and Technology, is implementing the project under the PM-DevINE scheme funded by the Ministry of Development of North Eastern Region (M-DNER).

The project aims to support 1,500 farmers across 15 selected clusters in the two districts. The focus is on building farmer capacity, providing organic certification, setting up demonstration farms, creating community seed banks, and using digital tools like drones to monitor crop health and farm activities. As part of the launch, 15 smartphones were distributed to Master Trainers in East and West Kameng. These devices will help them collect real-time data from the fields and communicate directly with experts and farmers.

Trainers also received educational materials covering topics like composting, pest control, and other organic practices to support farmer learning. To kickstart seed support under the programme, back-to-back seeds were distributed to several clusters — including four in Shegrom, one each in Jigaon and Mombachan, and four more in Bapa and Thongpa. Officials from NECTAR, including Rajesh Kumar Sarma (Chief Coordinator), Dr. Prab-

hat Bopparai (Regional Officer), Pranjali Sankha (MIS Coordinator), Dharmendra Kumar Bha (Senior Analyst), and Bipul Sobha (Junior Analyst), attended the distribution programme and interacted with the trainers. The project is part of a larger goal to develop 230 organic-certified clusters and train 25,000 farmers across the Northeast. In Arunachal Pradesh, demonstration farm labs and training centres are also being set up to offer hands-on experience in sustainable farming.

Pynlong jingialang ka St. Anthony's College na ka bynta ki samla pule BSC

Ka jingthmu ba thymmal ha ka pule puthi lyngba ka Jingiatrellang jong ka North East Center for Technology Application and Reach (NECTAR), ka Cotton University bad ka St Anthony's College Shillong, ka la pynlong ia...

Posted on: Iaiong 9, 2025



Shillong, Iaiong 08

Ka jingthmu ba thymmal ha ka pule puthi lyngba ka jingiatrellang jong ka North East Center for Technology Application and Reach (NECTAR), ka Cotton University bad ka St Anthony's College Shillong, ka la pynlong ia ka jingialang halor ka "Mobile Campus-Based Geospatial Training Program on GIS and Remote Sensing" na ka bynta ki samla pule BSC (final year) jong ka jingthmu ha St. Anthony's College.

Ia kane ka prokram la pynlong ha ka 8 tarik mynta u bnai ha Noel Conference Hall, St. Anthony's College, Shillong ha kaba la iadon lang u Director General, NECTAR, Dr. Arun Kumar Sarma, Sh. Rajendra Jena, Dr. Collin Z Renthlei, Sattyam Tripathi, Roshni Rai bad ka Nikita Gogoi.

La sdang ia kane ka prokram da ka jingkren ai khublei na u Dr. Viji Wallang, HoD ka tnat Geology, bad bud sa ka jingkren plie na u Rev. Fr. u Dr. Arcadius Puwein SDB. Ka jingkren sdang ba la ai da u Rajendra Jena uba la pynpaw ia ka jingthmu bad ka jingdonkam jong ka jingbit ha ka ki jong ki built stad lyngba ka prokram ai jinghikai shaphang ka khyndew kaba la pynshong nongrim ha ki jaka pule ba iaid lyngba jong ka jaka pule ba la tyrwa da ka NECTAR.

U Dr. Arun Kumar Sarma u la ai ia ka jingkren da kaba pynpaw lumno kine ki prokram ki lah ban ai ka ryntan ym tang ban kyntiew ia ka jingpyrchat kaba jylliew bad ki jingbit ba treikam, hynrei ban pynroi ruh ia ka jingiatrellang hapdeng ki nonglashim bynta, ha kaba iut ban pynkreh ia ki na ka bynta ki jingeh ba shisha lyngba ki jingpule ia ki jingia kiba lah ban pynmih hadien habud.



Vegan Leather Revolution in Northeast India: From Agro-Waste to Sustainable Growth

by: nongsaikol@gmail.com • June 9, 2025

Short Summary

CSIR-NIIST has signed an MoU with NECTAR to establish vegan leather production units in Meghalaya and other Northeastern states. This initiative will transfer a sustainable, agro-residue-based leather technology, empowering farmers, MSMEs, and women's self-help groups. The aim is to boost local entrepreneurship, create jobs, reduce agro-waste, and align with Atmanirbhar Bharat and Make in India objectives.

Introduction

Have you ever wondered what becomes of all that pineapple leaf, banana stem, or rice straw waste strewn across farms? What if I told you it could end up as vegan leather bags, shoes, or car interiors? Intrigued? Let's dive in.

Under a new collaboration between CSIR-NIIST and NECTAR, India's Northeast is about to witness a groundbreaking transformation. We're not just talking about experimenting with plant-based materials — we're talking about setting up full-fledged manufacturing units that empower local communities while championing sustainability. Ready for the deep dive?

1. What Is Vegan Leather and Why It Matters

Traditional leather production relies on animals and toxic chemicals — tanning processes often involve chromium, which is harmful to both people and the environment. Vegan leather, in contrast, is plant-based. CSIR-NIIST has pioneered a method to convert agro-residues like pineapple leaves, banana stems, and rice straw into biodegradable leather that's durable, water-resistant, and heat-proof.

Banana pseudostem project sparks interest among Serchhip farmers

Correspondent Serchhip, April 12: In a move to promote sustainable farming and value-added opportunities at the grassroots level, a Farmers' Mobilisation and Awareness Programme was held at the Serchhip Press Club on April 11. The event was organised by the North East Centre for Technology Application and Reach (NECTAR), Shillong—an autonomous body under the Department of Science and Technology, Government of India.

The programme attracted 50 participants, including 37 women and 13

men, highlighting strong community engagement and notable female participation.

Among those present were Kapliana Pachuau, journalist and editor of Serchhip Times and chairman of Zawlpu Serchhip Farmer Producer Company (FPC), and Lawmhilra Ralte, correspondent for Doordarshan Kendra, Serchhip district.

The session focused on the potential of banana pseudostem processing, with resource persons shedding light on topics such as sustainable ba-

nana cultivation practices, the properties and benefits of the pseudostem, fibre extraction techniques, water usage, and emerging business opportunities.

Participants were also introduced to NECTAR's ongoing initiative-A Value Chain on Utilisation of Banana Pseudostem for Value-Added Products-which is being implemented under the PM-DevINE scheme, funded by the Ministry of Development of North Eastern Region (DoNER). As part of the project, NECTAR is constructing a Common Facility Centre (CFC) in Serchhip

for the extraction of banana fibre and the production of value-added products, including banana-based vegan leather.

The programme generated significant interest among the farming community, particularly for its focus on a zero-waste system that aligns with both environmental sustainability and economic empowerment.

The initiative under PM-DevINE aims to empower farmers, bridge technological gaps in rural areas, and foster inclusive development across the North Eastern region.

Drone Technology Training Programme held in Tamulpur

A CORRESPONDENT

GOESWAR, May 31: A Drone Technology Training Programme was conducted at Tamulpur Higher Secondary School on Friday by Yuvaan Educative LLP, in collaboration with the North East Centre for Technology Application and Reach (NECTAR).

The initiative aimed to empower students of classes 9 to 12, pursuing vocational education in elective subjects such as "Agriculture" and "Private Security," under the centrally sponsored scheme aligned with the National Skill Qualification Framework (NSQF), implemented by Samagra Shiksha, Government of Assam.

The training programme was inaugurated by Jahurul Islam, Inspector of Schools, Baksa district. In his inaugural address, he emphasized the importance of integrating advanced technologies into vocational education to align with modern industry demands and improve students' livelihood opportunities.

The technical session was led by Satyam Tripathy, Senior Geomatics Officer of NECTAR, who provided comprehensive insights into drone technology and its applications in agriculture—such as crop monitoring and spraying—as well as in security for surveillance and reconnaissance.

The training combined theoretical sessions with live demon-

strations, giving students hands-on experience with this cutting-edge technology. Students appreciated the practical approach, recognizing the importance of blending classroom learning with real-world applications.

This programme is part of Yuvaan Educative LLP's broader mission to equip students in Assam's government schools with industry-relevant skills and exposure to emerging technologies.

The initiative highlights the growing importance of drone technology in boosting agricultural productivity and enhancing modern security systems, thereby preparing students for future careers in these evolving sectors.

Turning banana stems into fibre & fertiliser in Nagaland

Common Facility Centre for Banana Fibre Extraction Inauguration

CORRESPONDENT

Dimapur, June 11: The North East Centre for Technology Application and Reach (NECTAR), an autonomous institute under the Union science and technology department, inaugurated a Common Facility Centre (CFC) for banana fibre extraction at New Chemoakadima village under Chimoakadima district on Wednesday.

The centre aims to promote sustainable livelihoods, skill development, and value addition through efficient utilisation of agricultural wastes.

The facility has been established under the ministry of DoNER's PM-DevINE

near Serna, director general, NECTAR, showcased the broader objectives of the PM-DevINE project and NECTAR's portfolio of livelihood-oriented technological interventions across Northeast.

He highlighted how this specific project addresses a critical gap in agricultural waste management by converting banana pseudostem - typically discarded as waste into different useful and marketable products, including natural fibre, biodegradable sheets, and handmade paper.

He emphasised that this model offers both environmental and economic benefits and can be replicated across other regions and crops.

New CFC centre inaugurated in Nagaland

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are forced to halt flight due to a lack of ground connections. ... necessary action. The submission included a copy of an earlier memorandum dated December 14, 2023. ... submerged, severely affecting vehicular movement, especially at night. If the water level continues to rise, the ... ilies have suffered extensive losses, including stored paddy and livestock such as ducks and chickens.

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CFC for banana fibre extraction inaugurated at Chumoukedima



DIMAPUR: Common Facility Centre (CFC) for Banana Fibre Extraction at Chumoukedima supported by NECTAR - North East Centre for Technology Application and Reach with The Entrepreneurs Association (IEA) as the implementing agency was inaugurated on June 11 at Chumoukedima. The inauguration was graced by secretary, ministry of DoNER, Chanchal Kumar, as chief guest and chairman of MARCOFED, Dr. M. Chandra Ais as guest of honour. Officials from NECTAR, led by director general, attended the inauguration ceremony. Speaking at the program, Chanchal Kumar, expressed his excitement at the CFC launch, saying it would inspire many more such projects in the region. He highlighted that under PM DevINE, several initiatives are underway for regional development. He said that the CFC will strengthen both the state and the region's resilience. Dr. Sarma highlighted the government of India's

implemented by IEA with different livelihood solutions through banana waste to nurseries farmers and rural communities in the vicinity of the plant and the year and shared that it is the first of its kind in the North East region. Dr. Sarma, NECTAR, for setting up the CFC and praised Dr. Arun Kumar Sarma's leadership for driving key initiatives in the region. He also thanked chief minister Dr. Neighojit Barua for his Nagasaki City vision, mentioning that CFC was the first factory under this framework. He believed the area would grow into an economic hub and shared that IEA had begun coordinating with nearby villages for raw material sourcing and production linkage. Participants who also spoke at the meeting included Dr. M. Chandra Ais, chairman, Nagaland Entrepreneurs Association, Dr. Akash Sarma, and Director, ministry.

During the program, NECTAR also provided the farmers with training materials and the Youth Skill Development Centre, Chumoukedima, around 200 farmers from around that state attended the event.

India's Immense progress towards becoming a semiconductor hub, market size reached \$4.6 lakh crore in 2024
Optical Fibre Cable length reached 22.4 lakh route KM; 2.54 lakh Gram

NECTAR launches new initiative in East and West Kameng




EAST KAMENG, Jun 4: A major initiative to promote scientific organic farming has been launched in Arunachal Pradesh's East Kameng and West Kameng districts. The North East Centre for Technology Application and Reach (NECTAR), an autonomous body under the Department of Science and Technology, is implementing the project under the PM-DevINE scheme funded by the Ministry of Development of North Eastern Region (MIDR). The project aims to support 1,300 farmers across 13 selected clusters in the two districts. The focus is on building farmer capacity, providing organic certification, setting up demonstration farms, creating community seed banks, and using digital tools like drones to monitor crop health and farm activities. As part of the launch, 13 smartphones were distributed to Master Trainers in East and West Kameng. These devices will help them collect real-time data from the fields and communicate directly with experts and farmers. Trainers also received educational materials covering topics like composting, pest control, and other organic practices to support farmer learning. To kickstart seed support under the programme, back-to-back seeds were distributed to several clusters—including four in Shorgon, one each in Jigajon and Mombach, and four more in Ripu and Thongre. Officials from NECTAR, including Rakesh Kumar Sarma (Chief Coordinator), Dr. Prab-

NECTAR launches organic agriculture project in Arunachal under PM-DevINE scheme

PM-DevINE Organic Scheme aims to create a robust organic farming ecosystem




In Arunachal Pradesh, the project aims to create a robust organic farming ecosystem. The initiative is part of the PM-DevINE scheme, which focuses on promoting organic agriculture and sustainable farming practices. The project involves setting up demonstration farms, providing training to farmers, and creating a robust organic farming ecosystem. The project is implemented by NECTAR, an autonomous body under the Department of Science and Technology, Government of India. The project aims to support 1,300 farmers across 13 selected clusters in the two districts. The focus is on building farmer capacity, providing organic certification, setting up demonstration farms, creating community seed banks, and using digital tools like drones to monitor crop health and farm activities. As part of the launch, 13 smartphones were distributed to Master Trainers in East and West Kameng. These devices will help them collect real-time data from the fields and communicate directly with experts and farmers. Trainers also received educational materials covering topics like composting, pest control, and other organic practices to support farmer learning. To kickstart seed support under the programme, back-to-back seeds were distributed to several clusters—including four in Shorgon, one each in Jigajon and Mombach, and four more in Ripu and Thongre. Officials from NECTAR, including Rakesh Kumar Sarma (Chief Coordinator), Dr. Prab-



NEWS / Meghalaya / Meghalaya: STEM lab, soil testing facility launched to advance education and sustainable farming

Meghalaya: STEM lab, soil testing facility launched to advance education and sustainable farming

NECTAR in Meghalaya has launched initiatives to boost STEM education and organic farming. The STEM Lab and soil testing kits aim to empower students and farmers.



The North East Centre for Technology Application and Reach (NECTAR), an autonomous society under the Department of Science & Technology, Government of India, is headquartered in Shillong, Meghalaya. The Centre is dedicated to harnessing and leveraging advanced frontier technologies from central scientific departments and institutions.

NECTAR's mission is to lead the way in fostering, nurturing, and delivering sustainable technology applications for public and social good. The organization aims to extend the benefits of technology to people, communities, institutions, and governments, thereby promoting equitable and inclusive social and economic development in the North Eastern Region of India.

In an exclusive conversation with *The Interview World* at the [2024 Global Education Conference](#), hosted by the [Sethi Ashwini Kumar Group of Educational Institutions](#), Dr. Anur Kumar Sarma, Director General of NECTAR, highlighted the organization's core mandate. He outlined key programs aimed at driving economic development in the North East, emphasized NECTAR's role in improving the economic conditions and livelihoods of the region's people, and provided insights into capacity-building initiatives. Here are the key takeaways from his enlightening interview.

News / Meghalaya / Meghalaya: STEM lab, soil testing facility launched to advance education and sustainable farming

Meghalaya: STEM lab, soil testing facility launched to advance education and sustainable farming

NECTAR in Meghalaya has launched initiatives to boost STEM education and organic farming. The STEM Lab and soil testing kits aim to empower students and farmers.

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India Today NE
Jan 31, 2025,
Updated Jan 31, 2025, 5:15 PM IST

Meghalaya's North East Centre for Technology Application and Reach (NECTAR), under the Department of Science and Technology, Government of India, jointly inaugurated two programmes at the NECTAR Headquarters, in Shillong, aiming to enhance education and agriculture in the region.

A transformative 'STEM Education Lab' has been established to empower students with hands-on learning in science and technology, while a 'Mini Laboratory' for soil testing kits supports sustainable organic farming across Northeast under the PM-DevINE project.

The STEM Lab developed in NECTAR Headquarters, in collaboration with the Smart Village Movement (SVM), Meghalaya, Curiosity Gym, Mumbai and Indian Institute of Science Education and Research (IISER), Pune marks a transformative step towards advancing STEM (Science, Technology, Engineering, and Mathematics) education in Meghalaya. It aims to create a holistic environment to empower students from around 100 schools in Shillong with STEM components like Electronics, Robotics, 3D printing, among others.

Inauguration of "STEM Education Lab" and "Vasundhara Soil Organic Carbon Detection Laboratory cum Manufacturing Unit"

North East Centre for Technology Application and Reach (NECTAR), an autonomous institute under the department of Science and Technology, Government of India, inaugurated the following two programs jointly at NECTAR Headquarters in Shillong



Deepak Verma • January 31, 2025 • 312 • 1 minute read

The Shillong Times ESTABLISHED 1945

MEGHALAYA | News Alert

STEM Education Hub to benefit farmers, students: Wahlang

By: By Our Reporter January 31, 2025

Shillong, Jan 31: State Chief Secretary DP Wahlang on Friday inaugurated STEM Education Hub and Soil Organic Carbon Detection lab at NECTAR office, Survey of India campus.

He said that these initiatives are for helping the farmers and the other the students will immensely benefit the State.

Talking about the STEM Education lab, he said Class 9 students are learning coding which is path breaking as usually coding is at under graduate level and they are developing robotics state-of-the-art technology here at the school level.

Stating that this will ensure that the students will go to a different level altogether, he said the project director has been asked to ensure that the STEM lab is spread across hundreds of schools so that the students will benefit.

On Soil Organic Carbon Detection lab, he said checking the carbon contents of the soil will be very helpful to all the farmers in the State.

Pointing out that this is the first initiative from file to field, he said, "This is very important that we have to take this transformation and make sure that the farmers not only see during the capacity building programmes and trainings but also see what is happening in the field".

"It is very important to know and map the soil content what is there how much nutrients, carbon, the content of the soil of which crop," he added.

Meanwhile, Founding member and CEO of Curiosity Gym who is partnering with NECTAR, Girish Naik informed that when the whole world is moving technology, this effort is to provide access to school students especially in rural and semi urban areas to have this activity based learning and they are doing that through STEM Education hub lab.

According to him, this initiative is to help spread science and technology learning across the State.

He informed that currently they are working with two schools and they want to expand to another 20 schools for which the identification process is underway.

The inaugural courses are being provided free of cost for those schools who have registered with NECTAR. There will also be workshops organised for the schools.

Assam: NECTAR Inaugurates Demo Farm Lab At Karbi Anglong

Demo Farm Lab and Training Center under Prime Minister's Development Initiative for North East Region (PM-DevINE) scheme, was officially inaugurated by Dr. Arun Kumar Sarma (Director General, NECTAR).



Sentinel Digital Desk

Published on: 28 Nov 2024, 5:02 pm

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KARBI ANGLONG: Demo Farm Lab and Training Center under Prime Minister's Development Initiative for North East Region (PM-DevINE) scheme, was officially inaugurated by Dr. Arun Kumar Sarma (Director General, NECTAR) on Tuesday.

On this day, an interaction was held with the farmers to mark the inauguration of this Demo Farm, in which the Chief Guests were Dr. A.K. Yadav (Chief Consultant, MOVCB-NER), Dr. Usha Dixit (Scientist-F, AI Division, Dept. of Science and Technology), Dr. Meraj Alam Ansari (Sr. Scientist -Agronomy, ICAR-IIFSR), Dr. Birman Chandra Barua (Scientific Officer and Head (IC), ASTEC), Dr. P.K. Singh (Principal Scientist, NBPGR), Dr. Krishna Kumar (Advisor-Technical, NECTAR), Dr. Collin Z Renthlei (Advisor-Technical, NECTAR), Shri Simon Phukan (Senior Administrative Officer, NECTAR), Shri Rakesh Kumar Sarma (Chief Coordinator -Technical, NECTAR), Dr. Prabhat Borpuzari (Regional Officer, NECTAR), Sh. Bakul Saikia (State Officer, NECTAR), Dr. Harajyoti Mazumdar (State Officer, NECTAR), Dr. Raktim Borkotoky (Research Associate, NECTAR), Dr. Sunita Upadhaya (Research Associate, NECTAR), Ms. Sulokshana Borah (Research Associate, NECTAR), Shri. Bharat Phukan (Technical Officer, NECTAR) and Shri. Pranjal Saikia (MIS-Coordinator, NECTAR).

Navigation bar with logos and menu items: Home, News, Features, About, Contact, etc.

বকোত ৰিমট পাইলট ট্ৰেইনিং অৰ্গেনাইজেছ্যন মুকলি - Remote Pilot Training - REMOTE PILOT TRAINING

Remote Pilot Training- বকোত উদ্বোধন কৰা হয় ৰিমট পাইলট ট্ৰেইনিং কেন্দ্ৰ। নৰ্থ-ইষ্ট চেণ্টাৰ অফ টেকন'লজি এপ্ৰিকেশ্বন এণ্ড ৰিচ অফ বকোত জৱাহৰলাল নেহৰু কলেজৰ সৈতে স্থাপন কৰা হয় এই কেন্দ্ৰটো।



বকোত ৰিমট পাইলট ট্ৰেইনিং অৰ্গেনাইজেছ্যন মুকলি (ETV (Bharat Assam))

3 Min Read

By ETV Bharat Assamese Team
Published: June 26, 2024 at 10:08 PM IST

বকোত ২৬ জুন: অসমৰ বাবে এক যুগান্তকাৰী পদক্ষেপ হিচাপে ভাৰত চৰকাৰৰ নৰ্থ-ইষ্ট চেণ্টাৰ অফ টেকন'লজি এপ্ৰিকেশ্বন এণ্ড ৰিচ (মেক্সাৰ) এ বকোত জৱাহৰলাল নেহৰু কলেজৰ সৈতে অংশীদাৰিত্বৰ মৰ্যাবিদ্যালয়ৰদ্বাৰা বকোত ৰিমট পাইলট ট্ৰেইনিং অৰ্গেনাইজেছ্যন (আৰ পি টি ছি)। অসমত মৰ্যাবিদ্যালয়ৰ পৰ্যায়ত প্ৰথমবাৰৰ বাবে ড্ৰ'নৰ প্ৰশিক্ষণ প্ৰদান কৰা হ'ব। যোৱা ২৫ জুনত উদ্বোধন কৰা

Topic: Assam - বকোত ৰিমট পাইলট ট্ৰেইনিং অৰ্গেনাইজেছ্যন মুকলি

বকোত ৰিমট পাইলট ট্ৰেইনিং অৰ্গেনাইজেছ্যন কা কিয়া যুগান্তকাৰী

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NECTAR inaugurates Remote Pilot Training Organisation to extend Drone Technology

3 Min Read

Assam: In a significant stride towards empowering the youth and boosting the regional economy, the North East Centre for Technology Application and Research (NECTAR) has recently inaugurated the Remote Pilot Training Organisation (RPTO). This pioneering initiative, launched in collaboration with the renowned Bokoto College, Bokoto and the Ministry of Skill Development and Entrepreneurship (MSDE), is a first-of-its-kind endeavour in the North East region. The RPTO will offer a comprehensive training programme for drone pilots, covering theoretical knowledge, practical skills, and safety protocols. The inauguration ceremony was held at the Bokoto College, where NECTAR officials, government representatives, and local community members gathered to mark the occasion. NECTAR Director General, Dr. Arun Kumar Sarma, expressed his pride in this initiative, highlighting its potential to create employment opportunities and foster technological growth in the region. He stated that the RPTO will provide a structured learning environment, equipping students with the necessary skills and knowledge to operate drones safely and effectively. The programme will be conducted in accordance with the standards set by the Directorate General of Civil Aviation (DGCA), ensuring that graduates are well-prepared to enter the drone industry. The RPTO's establishment is a testament to NECTAR's commitment to promoting technological education and skill development in the North East. It is expected that the RPTO will attract a large number of students, contributing to the region's economic and technological advancement.



Hub news

Shillong teachers given a crash course in advanced Science, Technology & Maths Skills

By Hub Network September 23, 2024 1436



Shillong, Sept 23: The North East Centre for Technology Application and Reach (NECTAR), in collaboration with the Indian Institute of Science Education and Research (IISER), Pune and Smart Village Movement (SVM), Meghalaya, recently organized a one-day workshop titled "STEM – Mobilising Science and Technology-Based Learning for Schools."

Held at St. Edmund's College in Shillong, the workshop aimed to equip educators with innovative teaching techniques in Science, Technology, Engineering and Mathematics (STEM).

A total of 100 teachers from schools in Shillong and surrounding areas participated in the event, which focused on fostering inquiry-based learning, creativity, and curiosity among students.

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Meghalaya: Foundation Stone Laid For NECTAR's Permanent Campus In Shillong

BNE News Desk, March 13, 2025



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Shillong: The [North East Centre for Technology Application and Reach \(NECTAR\)](#), an autonomous institute under the [Department of Science and Technology \(DST\)](#), Government of India, has officially laid the foundation stone for its permanent campus at Umsaali, Shillong, Meghalaya.

The ceremony was graced by Union Minister of State (Independent Charge) for the Ministry of Science & Technology and Earth Sciences, as well as Minister of State in the Prime Minister's Office, Ministry of Personnel, Public Grievances & Pensions, Department of Atomic Energy, and Department of Space, Anum Kumar Samra, Director General of NECTAR, along with senior officials from NECTAR, DST, and various state and central government organisations also attended the event.

This milestone marks a significant step in NECTAR's commitment to fostering innovation, technological advancement, and sustainable development in Northeast India. The construction of the new NECTAR office is expected to be completed within two to three years, with

Ministry of Science & Technology



Northeast to Become India's Next Saffron Hub, NECTAR to Lead Agri-Tech Revolution: Dr. Jitendra Singh

NECTAR's New Campus to Boost Innovation as Union Minister Calls for Northeast's Tech-Driven Growth

Dr. Jitendra Singh Lays Foundation Stone for NECTAR Permanent Campus, Highlights Northeast's Transformational Growth

Posted On: 13 MAR 2025 5:31PM by PIB Delhi

Union Minister of State (Independent Charge) for Science and Technology; Earth Sciences and Minister of State for PMO, Department of Atomic Energy, Department of Space, Personnel, Public Grievances and Pensions, Dr. Jitendra Singh said here today that Mission Saffron initiative, which since 2021 has expanded saffron cultivation across Sikkim, Arunachal Pradesh, and Meghalaya. Large-scale cultivation is now underway in Menchukha (Arunachal Pradesh) and Yuksom (Sikkim), with plans to extend to Nagaland and Manipur, making the Northeast India's next saffron hub after Jammu and Kashmir's Pampore. The initiative strategically utilizes uncultivated land, enhancing agricultural potential without disrupting existing crops.

The Minister highlighted the government's ambitious plans to turn the Northeast into India's next saffron hub, as he laid the foundation stone for the new permanent campus of the North East Centre for Technology Application and Reach (NECTAR) in Shillong. He emphasized that the region's rapid transformation under Prime Minister Narendra Modi's leadership has opened new opportunities for technological and agricultural advancements.



A DST institute, NECTAR showcases Innovative Aerostatic Drone for Enhanced Surveillance and Disaster Management

Posted On: 22 APR 2025 3:54PM by PIB Delhi

Forest surveillance, wildlife monitoring, border and disaster surveillance in the North East, may soon be much easier -- thanks to the Aerostatic Drone developed with support from North East Centre for Technology Application and Reach (NECTAR).

NECTAR, an autonomous body under Department of Science and Technology, Government of India organized a live demonstration of the technology developed by Airbotix Technologies, Gurgaon.

It is the first of its kind in India, designed with high endurance and aero-statically stable capabilities to deploy for forest surveillance, wildlife monitoring, border and disaster surveillance application. Aerostatic drones are aerial platforms that derive their lift from both buoyancy and aerodynamics.

This makes them very energy efficient making them a better alternative for tethered drones. Aerostatic drones are silent as they do not require constant thrust to stay afloat, making them cost-effective and versatile solution for providing persistent surveillance.

The aerostatic drone provides a silent aerial platform that can persistently stay afloat for surveillance with an endurance of over 4 hours. The system is designed to be modular and could be integrated with any ground vehicle or can be installed at any site. The drone can be utilized for a variety of use cases such as wildlife monitoring, forest surveillance, crowd monitoring, border security and disaster surveillance to name a few.

The flexibility to equip the drone with both day and night camera as well as any other payload such as telecommunication relay and anti-drone payload. The Day and Night Vision Camera cameras further enhances its utility, especially in tracking monitoring forests for illegal activities such as poaching, smuggling and logging, as well as by providing support for security operations along borders.

Participants from various organizations interacted with Airbotix Technology about the drone's technical capabilities. The Drone has features related to surveillance using thermal imaging and detection capabilities.

Officials from the CRPF showing a keen interest in how the drone could enhance their operations, particularly in border surveillance and security in challenging terrains. The ability of the drone to operate in both daylight and low-visibility conditions using thermal cameras could be a significant asset for security personnel.



Fig: Aerostatic Drone for Enhanced Surveillance and Disaster Management

The drones could play a crucial role in monitoring forest health and wildlife populations, enabling conservationists to track animal movements and assess habitat conditions without disturbing the ecosystem as they are silent. In military and security contexts, aerostatic drones are employed for ISR missions, providing real-time data and situational awareness, which enhances strategic planning and operational effectiveness. Furthermore, as they have very little metal components, they are practically invisible to the RADAR.

Aerostatic drones can serve as temporary communication relays in remote areas or during emergencies, ensuring connectivity where traditional infrastructure may be lacking or compromised. Aerostatic drones can also be integrated into systems designed to detect unauthorized drone activity, enhancing security measures at sensitive locations such as airports and military bases.

During public events, these drones could assist law enforcement by monitoring crowd behavior, helping to ensure safety and manage potential disturbances effectively. Moreover, they can be utilized to monitor traffic conditions in urban areas, providing valuable data for traffic management systems and aiding in the reduction of congestion through real-time information dissemination.

The officials from Brahma Putra Board expressed their keenness to use the aerostatic drone for disaster management and for monitoring civil construction such as roads.

The Aerostatic Drone is expected to be a game-changer in its field, with its versatility and high-performance features setting a new standard for unmanned aerial vehicle technology in India.

NKR/PSM

(Release ID: 2123451)

Read this release in: Urdu , Hindi , Tamil

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 Felicitations from Dr. Arun Kumar Sarma, Director General, "North East Center for Technology Application & Reach" #NECTAR, Dr. B.P. Goel, Director IIM Shillong and Dr Mohanta, Director NIT Shillong, during the Foundation Stone laying ceremony of NECTAR's permanent campus at



PIB In Meghalaya @PIBShillong
 Union Minister lays foundation stone for #NECTAR Permanent Campus in #Shillong today calling it a "landmark moment"
 #Northeast to become India's next Saffron Hub: @DrJitendraSingh
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NECTAR @NECTAR_DST · Sep 25, 2024
 Waste to Art Competition organized by NECTAR an autonomous body under DST, GoI, under the campaign #SwachhataHiSeva2024 #SpecialCampaign4



DSTIndia and 2 others
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NECTAR @NECTAR_DST · Sep 27, 2024

Distribution of Safety Gears and Kits to Sanitation Workers of Shillong Municipal Board by NECTAR, an autonomous body under DST, GoI, under the campaign #SwachhataHiSeva2024 #SpecialCampaign4

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NECTAR @NECTAR_DST · Sep 24, 2024

Mass scale cleanliness drive at NECTAR, an autonomous body under DST, under the campaign #SwachhataHiSeva2024 #SwachhataLakshitEkayi #SpecialCampaign4

DSTIndia and PMO India

NECTAR @NECTAR_DST · Sep 26, 2024

Waste to Art Competition organized by NECTAR, an autonomous body under DST, GoI, in its headquarters under the campaign #SwachhataHiSeva2024 #SpecialCampaign4

NECTAR @NECTAR_DST · Sep 25, 2024

Awareness Rally organized by NECTAR, an autonomous body under DST, GoI, under the campaign #SwachhataHiSeva2024 #SpecialCampaign4

NECTAR @NECTAR_DST · Sep 24, 2024

NECTAR, an autonomous body under DST organized a One Day Workshop on "STEM Education for Teachers", in collaboration with IISER, Pune and Smart Village Movement, Meghalaya at St. Edmund's College, Shillong on 23rd Sep 2024. A total of 100 Teachers participated in the Workshop

NECTAR @NECTAR_DST · Aug 14, 2024

NECTAR, an autonomous body under DST, GoI, conducted National Space Day, 2024 in collaboration with St. Anthony's College, Shillong. Activities like demonstration of Drones, Essay, Quiz and Poster competitions were held. More than 200 students participated in the event.

DSTIndia and 2 others

NECTAR @NECTAR_DST · Sep 17, 2024

Swachhata Hi Seva (SHS) 2024 pledge taking ceremony at NECTAR Office, Guwahati Biotech Park.

#SwachhataHiSeva
#SpecialCampaign4

North Guwahati, AS, India
Assagada, North Guwahati, 781031, AS, India
Tel: 26134459, Email: 91-671355

NECTAR @NECTAR_DST · Sep 27, 2024

Distribution of "ATATA" (Aquatic Trash Avoiding Tool and Accessories) to sanitation workers by NECTAR, an autonomous body under DST, GoI, under the campaign #SwachhataHiSeva2024 #SpecialCampaign4

DSTIndia and 2 others

NECTAR @NECTAR_DST · Aug 5, 2024

NECTAR, an autonomous body under DST, Govt. of India, inaugurated its Manipur liaison office at the Manipur Khadi & Village Industries Board, Lamphelpat, Imphal on 3rd August 2024



NECTAR @NECTAR_DST · Aug 8, 2024

NECTAR, an autonomous body under DST, GOI, conducted a 1 day awareness program on 6th & 8th Aug 2024, on "Plasma Technologies for Entrepreneurship" in collaboration with AIC - IPR Plasmatech Innovation Foundation, IPR, Gandhinagar, NIT, Meghalaya & Cotton University, Guwahati.



NECTAR @NECTAR_DST · Sep 19, 2024

Preventive Health Checkup for Sanitation Workers under #swachhatahsevacampaign #SpecialCampaign4 #SafalMitraSuraksha at NECTAR, an autonomous body under DST.



NECTAR @NECTAR_DST · Dec 2, 2024

Inauguration of NECTAR Stall at India International Science Festival (IISF) 2024, in IIT Ghy by Hon'ble Minister Shri Jitender Singh, Minister of Science and Technology & Minister of Earth Sciences; and Prof. Abhay Karandikar, Secretary, Department of Science and Technology, Gol.



NECTAR @NECTAR_DST · Jul 11, 2024

A groundbreaking 5 day Innovative Academic Research Connect & Immersion Program, was organized by Jio Institute in collaboration with NECTAR, from 1st to 5th July at the Jio Institute, Mumbai. This unique initiative brought together PhD & MSc students from diverse fields.



NECTAR @NECTAR_DST · Aug 5, 2024

Wahong 90.0 MHz Community Radio, a project supported by NECTAR, an autonomous body under DST, Govt of India, was inaugurated on 3rd August 2024 in Thoubal, Manipur



NECTAR @NECTAR_DST · Aug 14, 2024

National Flags distributed to staffs in NECTAR, an autonomous body under DST, Gol on account of Har Ghar Tiranga Campaign.



PMO India and DSTIndia

NECTAR @NECTAR_DST · Aug 1, 2024

NECTAR, an autonomous body under DST, Govt. of India conducted a 5 day Master Trainer Training Program from 26-30 July, 2024 on "Promoting Scientific Organic Agriculture for Northeastern states" under the PM-DevINE scheme in collaboration with Krishi Vigyan Kendra, West Kameng.



**NORTH EAST CENTRE FOR TECHNOLOGY
APPLICATION AND REACH (NECTAR)
MEGHALAYA, SHILLONG-793001**



**AUDIT REPORT
FOR THE FINANCIAL YEAR ENDED ON 31st MARCH, 2025**

R. M KOTHARI & CO.

Chartered Accountants

96, II Floor, GNB Road, Silpukhuri, Near SBI Evening Branch,
Guwahati -781003

Phone No: +91 88225 53345

Email: rmkco.ghy@gmail.com



R.M. KOTHARI & Co.
Chartered Accountants

INDEPENDENT AUDITOR'S REPORT

To the Members of NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH (NECTAR)

Report on the Financial Statements

We have audited the financial statements of NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH (NECTAR) ("the Society"), which comprise the Balance Sheet as at March 31, 2025, the Statement of Income and Expenditure, the Receipt and Payment Account for the year then ended and schedules to the financial statements, including a summary of significant accounting policies.

Basis for Opinion

We conducted our audit in accordance with the Standards on Auditing (SAs) issued by ICAI. Our responsibilities under those Standards are further described in the Auditor's Responsibilities for the audit of the Financial Statements section of our report. We are independent with the Code of Ethics issued by ICAI and we have fulfilled our other ethical responsibilities in accordance with the Code of Ethics. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibilities of Management and Those Charged with Governance for the Financial Statements

The Society's management is responsible for the preparation of these financial statements according to its Bye Laws that gives a true and fair view of the financial position and financial performance of the Society in accordance with the accounting principles generally accepted in India.

This responsibility also includes maintenance of adequate accounting records for safeguarding the assets of the Society and for preventing and detecting frauds and other irregularities; selection and application of appropriate accounting policies; making judgments and estimates that are reasonable and prudent; and design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement, whether due to fraud or error.

Auditor's Responsibilities for the Audit of the Financial Statements

Our responsibility is to express an opinion on these financial statements based on our audit. We have conducted our audit in accordance with the Standards on Auditing issued by "ICAI". Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.



2nd Floor, 96, GNB Road, Silpukhuri, Near SBI Evening Branch, Guwahati -781003, Assam

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Br: Jaipur, Delhi, Pali & Arunachal Pradesh



R.M. KOTHARI & Co.

Chartered Accountants

An audit involves performing procedures to obtain audit evidence about the amounts and the disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal financial control relevant to the Society's preparation of the financial statements that give a true and fair view in order to design audit procedures that are appropriate in the circumstances. An audit also includes evaluating the appropriateness of the accounting policies used and the reasonableness of the accounting estimates made by the Society's management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion on financial statements.

Opinion

Subject to our audit observations in "Annexure 1" of the report, we report that:

- a) We have sought and obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purposes of our audit.
- b) In our opinion, proper books of account as required by law have been kept by the Society so far as it appears from our examination of those books.
- c) The Balance Sheet and the Statement of Income and Expenditure dealt with by this Report are in agreement with the books of account.
- d) In our opinion and to the best of our information and according to the explanations given to us the said financial statements read with the schedules/notes thereto give the information required and give a true and fair view: -
 - i. In case of Balance Sheet, of the state of affairs of the Society as at 31 "March, 2025; and
 - ii In case of Income and Expenditure, of excess of expenditure over income for the year ended on that date.

Date: 14/06/2025
Place: Guwahati

Yours faithfully,
For, R.M. Kothari & Co.
Chartered Accountants
FRN: -000143C



Harsh Agarwal

CA Harsh Agarwal
Partner
Membership No. 315605
UDIN: 25315605BMKREZ6056

2nd Floor, 96, GNB Road, Silpukhuri, Near SBI Evening Branch, Guwahati -781003, Assam
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Annexure 1: Audit Observations

1. Non-availability of Balance Confirmations:

During the course of the audit, no balance confirmations as on 31/03/2025 were obtained from debtors, creditors, and parties pertaining to TDA loan outstandings. As a result, the balances of all such accounts remain **unconfirmed and unreconciled**. In most of these cases, it has been observed that the society has already initiated legal action against the concerned parties.

2. Legal Status against TDA outstandings.

During the course of audit, it was observed that various TDA loans are in arbitration and legal process. Society has to take necessary steps to sought out the same as early as possible. There are total 75 cases in legal proceedings as on 31.03.2025 in which 30 cases are in arbitration and 45 other cases u/s 138.

3. Long-Standing Inventory Without NRV Assessment:

It was observed that inventory amounting to ₹28,74,229.27 has been lying in stock for a prolonged period. However, no assessment of the Net Realizable Value (NRV) has been carried out by the management as of 31/03/2025. In the absence of an NRV evaluation, we are unable to ascertain whether the inventory is stated at the lower of cost or NRV, as required under the applicable accounting standards (AS 2 / and AS This may result in overstatement of inventory and profitability in the financial statements, if the realizable value is lower than the carrying amount.

4. Non-Compliance with GST Provisions – Failure to Obtain Registration as TDS Deductor:

During the course of audit, it was observed that the Society has not obtained registration under Section 51 of the Central Goods and Services Tax Act, 2017, which mandates registration for persons required to deduct tax at source (TDS) under GST. As a deductor, the Society was liable to deduct tax at source on specified taxable supplies exceeding the prescribed threshold and to deposit the same with the Government within the stipulated time frame.

The failure to obtain GST registration as a TDS deductor and to comply with the related provisions constitutes **non-compliance with statutory requirements** under the CGST Act. This may attract **interest, penalties, and other legal consequences**, and may impact the Society's statutory obligations and vendor compliance under GST law.

5. TDS Irregularities Observed During Audit:

TDS Default: During the course of our audit for the financial year ended 31st March 2025, we observed that there are defaults in the payment of Rs.79,510/- TDS pertaining to earlier financial years.

6. Partial Deduction and Non-Payment of Professional Tax for FY 2024–25

During the course of our audit, it was observed that Professional Tax (PT) for the financial year 2024–25 has been partly deducted from employees but not yet remitted to the respective state government authority.



7. Uncertainty Regarding Status of Land Allotment/Lease from Government of Meghalaya

During the course of our audit, it was observed that a parcel of land has reportedly been provided by the Government of Meghalaya for the use of the society. However, the society is unable to confirm whether the land has been formally allotted or given on lease, and no supporting documentation such as an allotment letter, lease agreement, or title deed was available for verification.

8. Long-Standing Balances Under Current Assets:

During the examination of the **Current Assets** schedule, multiple balances of Rs.48,61,091/- have been identified that have **remained stagnant or unadjusted for an extended period**

9. Non-Compliance with EC and FC Meeting Requirements in FY 2024-25:

As per the Society's governance framework:

- The Executive Council (EC) is mandated to meet at least once every three months, i.e., 4 times a year.
 - The Finance Committee (FC) is required to meet at least twice a year.
- However, during FY 2024-25, only one EC meeting and one FC meeting were held, both on 31.07.2024.

10. During the F.Y. 2021-22 (w.e.f. 06.08.2021), an agreement has been executed between the President of India represented by Sh. Shantmanu, Development Commissioner (Handicrafts), Ministry of Textiles, Govt. of India and NECTAR through which the operational and management control of Bamboo & Cane Development Institute (BCDI) has been entrusted to NECTAR for efficient running of Bamboo Technology to support diverse kind of livelihood in Tripura and North East as well as rest of India initially for a period of three years and further extended for next three years.

After taking the operational and management control of BCDI, NECTAR started the activities as a project. The financial summary as at 31.03.2025 and 31.03.2024 respectively has been summarized below and dully incorporated in the financial statements of NECTAR:-

| Particulars | Amount Rs. Lakh | |
|---|----------------------------|-----------------------------|
| | Current Year 31.03.2025 | Previous Year 31.03.2024 |
| Total Grant received for the Training Programmes / Sales & Services | 87.93 | 105.67 |
| Total Amount Incurred for Training Programmes | 89.49 | 101.89 |
| Surplus/Deficit | (1.56) | 3.78 |
| Corpus/ Capital Fund | 164.87 | 164.87 |
| Current Liabilities | 11.53 | 33.85 |
| Total | 176.40 | 198.72 |
| Cash and Bank Balance | 72.72 | 97.18 |
| Other Assets F/A & CA | 103.68 | 101.54 |
| Total | 176.40 | 198.72 |



NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH

REPLIES TO AUDIT OBSERVATIONS "ANNEXURE I"

The point-wise replies regarding the observations of the Audit are given below:

1. Emails were posted to all the debtors/creditors to confirm their o/s balance and from TDA loan parties to confirm their TDA loan outstanding balance. No responses have been received so far. NECTAR has taken legal action against most of the TDA defaulters.
2. Arbitration has been initiated against almost all TDA loan defaulters. In some of the cases new reschedulement of repayment has been signed and PDCs have been received after reschedulement. In other cases, the parties started paying the outstanding amount after a legal case was filed against them.
3. Some of the Stock items lying at other locations of NECTAR. Most of the items are bamboo based, and it is planned to be consumed in production of bamboo related items of NECTAR / BCDI. The assessment to carry out the Net Realizable Value (NRV) are under process.
4. Registration as a TDS deductor under GST is under process, and compliance with the statutory requirements under the CGST Act will be ensured."
5. The TDS default amount of Rs. 79,510/- pertains to FY 2013-14 and FY 2014-15. The necessary compliance in this regard will be undertaken."
6. NECTAR has recently obtained professional tax registration effective from 23.01.2025, and the deduction of professional tax commenced from 01.02.2025. Payment of professional tax is currently in process in coordination with the department concerned."
7. Land has allotted to NECTAR on a lease basis and the lease agreement is under process to obtain from Meghalaya governments.
8. Legal proceedings have been carried out against the suppliers and the recoveries are under process.
9. One executive council meeting was held, and another meeting of the executive council could not be held due to the unavailability of time of EC members.
10. All activities of BCDI are taken up as per MOU signed with DC (Handicrafts) Ministry of Textiles and NECTAR.



NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH

BALANCE SHEET AS AT 31.03.2025

Amount in Rs.

| Particulars | Schedule | Current Year | Previous Year |
|--|------------|-------------------------|-------------------------|
| CORPUS/CAPITAL FUND AND LIABILITIES | | | |
| Corpus / Capital Fund | Schedule 1 | 1,102,122,502.54 | 1,105,391,028.83 |
| Reserves and Surplus | | - | - |
| Earmarked / Endowment Funds | Schedule 2 | (13,917,809.00) | 12,105,868.00 |
| Secured Loans and Borrowings | | - | - |
| Unsecured Loans and Borrowings | | - | - |
| Deferred Credit Liabilities | | - | - |
| Current Liabilities and Provisions | Schedule 3 | 28,285,853.75 | 25,823,327.91 |
| TOTAL | | 1,116,490,547.29 | 1,143,320,224.74 |
| ASSETS | | | |
| Fixed Assets (Net) | Schedule 4 | 275,264,048.00 | 278,678,002.45 |
| Investments-From Earmarked / Endowment Funds | | - | - |
| Investments-Others | | - | - |
| Current Assets, Loans and Advances etc. | Schedule 5 | 841,226,499.29 | 864,642,222.29 |
| TOTAL | | 1,116,490,547.29 | 1,143,320,224.74 |
| Significant Accounting Policies | Annexure A | | |

As per our report of even date annexed herewith;

For, R.M. Kothari & Co.
Chartered Accountants
FRN:- 000143C



CA Harsh Agarwal

Partner

Membership No. 315605

UDIN: 25315605 0MKR24056

Dated: 14/06/2025

Place: Guwahati



Accounts Manager
(NECTAR)


Sr. Admin Officer
(NECTAR)


Director General
(NECTAR)

सिमोन फुकन Simon Phukan
बिम्बित प्रशासनिक अधिकारी Sr Administrative Officer
उत्तर पूर्वी प्रौद्योगिकी अनुप्रयोग एवं प्रसार केंद्र (नेक्टर)
North East Centre for Technology Application & Reach (NECTAR)
विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार Department of Science &
Technology, Government of India शिलांग-793001/Shillong - 793001

डॉ. अरुण कुमार शर्मा / Dr. ARUN KUMAR SARMA
महानिदेशक / Director General
उत्तर पूर्वी प्रौद्योगिकी अनुप्रयोग एवं प्रसार केंद्र (नेक्टर)
North East Centre for Technology Application & Reach (NECTAR)
विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार
Department of Science & Technology, Government of India
शिलांग- 793001 / Shillong - 793001

NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH
INCOME AND EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2025

Amount in Rs.

| Particulars | Schedule | Current Year | Previous Year |
|--|-------------|-----------------------|-----------------------|
| INCOME | | | |
| Income From Promotional Activities | Schedule 6 | 15,945,562.00 | 17,549,246.00 |
| Grants/Subsidies | Schedule 7 | 132,984,783.00 | 151,984,810.00 |
| Fees / Subscriptions | Schedule 8 | 25,040.00 | 83,500.00 |
| Income from Investment | | - | - |
| Income from Royalty, Publication Etc. | | - | - |
| Interest Earned | Schedule 9 | 14,551,424.02 | 14,250,424.00 |
| Other Income (Including Partner Cont.) | Schedule 10 | 3,853,268.01 | 7,962,988.00 |
| Increase/Decrease in Stock of Finished Goods & Work in Progress | Schedule 11 | - | - |
| TOTAL (A) | | 167,360,077.03 | 191,830,968.00 |
| EXPENDITURE | | | |
| Establishment Expenses | Schedule 12 | 54,676,988.00 | 52,216,488.00 |
| Other Administrative Expenses etc. | Schedule 13 | 46,503,910.81 | 42,115,518.07 |
| Expenditure on Grant ,Subsidies Etc.(Project Expenditures) | Schedule 14 | 57,073,501.00 | 85,111,330.00 |
| Interest | | - | - |
| Prior Period Expenditure | Schedule 15 | 1,510,696.00 | 2,189,129.00 |
| Depreciation on (Net Total at the Year end) | Schedule 4 | 21,396,522.43 | 22,908,449.34 |
| TOTAL (B) | | 181,161,618.24 | 204,540,914.41 |
| Balance being excess of Income over Expenditure (A-B) | | | |
| Balance being excess of Expenditure over Income (B-A) | | (13,801,541.21) | (12,709,946.41) |
| Surplus of Bamboo & Cane Development Institute (BCDI) | | (155,794.33) | 378,233.69 |
| Balance being Surplus transferred to Corpus/Capital Fund | | | |
| Balance being Deficit transferred to Corpus/Capital Fund | | (13,957,335.54) | (12,331,712.72) |

As per our report of even date annexed herewith;

For, R.M. Kothari & Co.
 Chartered Accountants
 FRN: -000143C

Harsh Agarwal

CA Harsh Agarwal
 Partner
 Membership No. 315605
 UDIN: 25315605 BMRRE26056



Accounts Manager (NECTAR)
 Sr. Admin Officer (NECTAR)
 Director General (NECTAR)

सिमोन फुकन Simon Phukan
 चरिष्ठ प्रशासनिक अधिकारी Sr Administrative Officer
 उत्तर पूर्वी प्रौद्योगिकी अनुप्रयोग एवं प्रसार केंद्र (नेक्टार)
 North East Centre for Technology Application & Reach (NECTAR)
 विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार Department of Science & Technology, Government of India शिलांग-793001/Shillong - 793001

Dated: 14/06/2025
 Place: Guwahati

डॉ. अरुण कुमार शर्मा / Dr. ARUN KUMAR SARM
महानिदेशक / Director General
 उत्तर पूर्वी प्रौद्योगिकी अनुप्रयोग एवं प्रसार केंद्र (नेक्टार)
 North East Centre for Technology Application & Reach (NECTAR)
 विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार
 Department of Science & Technology, Government of India
 शिलांग- 793001 / Shillong - 793001

NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2025

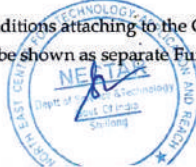
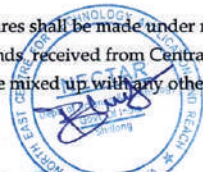
Amount in Rs.

| Schedule 1 - Corpus / Capital Fund | Current Year | Previous Year |
|-------------------------------------|-------------------------|-------------------------|
| NECTAR | | |
| Opening Balance | 1,105,391,028.83 | 885,873,308.55 |
| Add:-TDA adjustment | - | 750,000.00 |
| Add:-Received Capital fund from DST | 28,000,000.00 | 238,500,000.00 |
| Less: Deferred Revenue Grant | (3,150,970.75) | (6,594,336.00) |
| Less: Fund reufnd to DST | (14,160,220.00) | (806,231.00) |
| TOTAL | 1,116,079,838.08 | 1,117,722,741.55 |
| Excess of Expenditure over Income | (13,957,335.54) | (12,331,712.72) |
| TOTAL | 1,102,122,502.54 | 1,105,391,028.83 |
| Closing Balance | 1,102,122,502.54 | 1,105,391,028.83 |
| Total | 1,102,122,502.54 | 1,105,391,028.83 |

| Schedule 2 - Farmarked/Endowment Funds | Current Year | Previous Year |
|---|------------------------|-----------------------|
| a) Opening Balance of the funds | 12,105,868.00 | 45,917,336.00 |
| b) Additions to the Funds: | | |
| i) Donations / Grants | | |
| a) Grants for SEED Project | 1,646,025.00 | 130,632.00 |
| b) Grants for PM DeVINE Project | 121,633,000.00 | 33,046,601.00 |
| c) Grants for Geo-Spatial Project | 19,827,174.00 | 226,449.00 |
| d) Grants for Meghalaya MBB Project | 81,575,385.00 | 122,668,207.00 |
| e) Grants for CSR Project | 400,000.00 | - |
| f) DC&H (HGH Exhibition) | - | 6,486,978.00 |
| g) NERAMAC CBBO Project | - | 50,644.00 |
| h) NBB Project | 7,336,000.00 | - |
| ii) Income from investments made on account of Fund | - | - |
| iii) Other Additions (Specify) | - | - |
| TOTAL (a+b) | 244,523,452.00 | 208,526,847.00 |
| c) Utilization /Expenditure towards objectives of funds | | |
| i) Capital Expenditure | | |
| a) Toss/Baans/SDR Scheme | - | - |
| b) Seed Project | 1,100,072.00 | 7,343,540.00 |
| c) PM DeVINE Project | 71,721,717.00 | 36,456,377.00 |
| ii) Revenue Expenditure | | |
| a) Toss/Baans/Sdr Scheme | - | 7,931,351.00 |
| b) Seed Project | 2,870,059.00 | 3,873,288.00 |
| c) PM DeVINE Project | 79,579,333.00 | 13,312,731.00 |
| d) Geo Spatial Project | 4,816,278.00 | 10,388,382.00 |
| e) Meghalaya MBB Project | 93,882,821.00 | 108,759,762.00 |
| f) CSR Project | 42,981.00 | - |
| g)HGH Exhibitions Epenses | - | 4,405,548.00 |
| h)NLM Project Expenses | 564,000.00 | 3,950,000.00 |
| I)NBB Project | 3,864,000.00 | - |
| TOTAL (c) | 258,441,261.00 | 196,420,979.00 |
| NET BALANCE AT THE YEAR END (a + b- c) | (13,917,809.00) | 12,105,868.00 |

Notes

- 1) Disclosures shall be made under relevant Heads based on conditions attaching to the Grants.
- 2) Plan Funds received from Central /State Governments are to be shown as separate Funds and not to be mixed up with any other Funds.



NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2025

Amount in Rs.

| Schedule 3 - Current Liabilities and Provisions | Current Year | Previous Year |
|---|----------------------|----------------------|
| A. CURRENT LIABILITIES | | |
| 1. Acceptances | - | - |
| 2. Sundry Creditors: | | |
| a) For Goods | 5,155,506.00 | 855,506.00 |
| b) Others | 486,477.00 | 750,869.00 |
| 3. Advance Received | | |
| Partner contribution payable | 820,785.00 | 820,785.00 |
| 4. Interest accrued but not due on: | | |
| a) Secured Loans/borrowings | - | - |
| b) Unsecured Loans /borrowings | - | - |
| 5. Statutory Liabilities: | | |
| a) Over dues | - | - |
| b) Others: TDS Payable | 1,371,348.00 | 1,440,397.00 |
| c) GST Payable | 78,036.00 | 16,660.00 |
| d) Professional Tax Payable | 18,400.00 | - |
| 6. Other current Liabilities | | |
| Administrative Expenses Payable (Annexure-1) | 1,873,147.00 | 1,478,140.00 |
| Establishment Expenses Payable (Annexure-2) | 4,187,727.00 | 4,107,730.00 |
| Bamboo & Cane Development Institute (BCDI) | 4,171,747.75 | 6,461,560.91 |
| SDR technology | 9,434,880.00 | 9,434,880.00 |
| Earnest Money- | | |
| Security Retention Money- RS Softech | 46,800.00 | 46,800.00 |
| OVN Bio Energy P.Ltd. ,Gurgaon | 100,000.00 | 100,000.00 |
| Sree Engineers, Hyderabad | 100,000.00 | 100,000.00 |
| Deva Bamboo & Allied Ind., Imphal | 5,000.00 | 5,000.00 |
| Dhanjal Mechanical Works P. Ltd. | 100,000.00 | 100,000.00 |
| Prince Carbon & Charcoal Ind. | 5,000.00 | 5,000.00 |
| R.D. Industrial Corp., Kolkatta | 100,000.00 | 100,000.00 |
| EMD Payable | 239,000.00 | - |
| TOTAL (A) | 28,285,853.75 | 25,823,327.91 |
| B. PROVISIONS | | |
| 1. For Taxation | - | - |
| 2. Gratuity | - | - |
| 3. Superannuation /Pension | - | - |
| 4. Accumulated Leave Salary / Encashment | - | - |
| 5. Trade Warranties/Claims | - | - |
| 6. Others (Specify) | - | - |
| TOTAL (B) | - | - |
| TOTAL (A+B) | 28,285,853.75 | 25,823,327.91 |



NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2025

SCHEDULES FORMING PART OF TECHNOLOGY APPLICATION AND REACH

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2025

| SCHEDULE 4-FIXED ASSETS- NECTAR | Rate of Depreciation | GROSS BLOCK | | | DEPRECIATION | | | Amount in Rs. | | | | | | | |
|--|----------------------|---|---|---|--|---|--|-------------------------------|--|--|---------------------------|-------------------------------------|--------------------------------------|-----------------------|--------------------------------------|
| | | Cost/valuation as at beginning of the year 01.04.2024 | Additions during the year 01.04.2024 - 30.09.2024 | Additions during the year 01.10.2024 - 31.03.2025 | Deductions during the year 01.04.2024 - 31.03.2025 | Cost/valuation at the year end 31.03.2025 | As at beginning of the year 01.04.2024 | On Opening balance 01.04.2024 | On Additions during the year 01.04.2024 - 30.09.2024 | On Additions during the year 01.10.2024 - 31.03.2025 | Depreciation for the year | Total up to the year end 31.03.2025 | As at the current year end 31.3.2025 | NET BLOCK | As at the current year end 31.3.2025 |
| A. FIXED ASSETS | | | | | | | | | | | | | | | |
| 1. LAND | | | | | | | | | | | | | | | |
| 2. BUILDING | | | | | | | | | | | | | | | |
| a) On Freehold Land | | | | | | | | | | | | | | | |
| b) On Leasehold Land | | | | | | | | | | | | | | | |
| c) Ownership Flats/Premises | | | | | | | | | | | | | | | |
| d) Superstructures on Land not belonging to the entity | | | | | | | | | | | | | | | |
| e) Interior Works | 0% | | | | | | | | | | | | | | |
| 3. Plant Machinery & Equipment | 15% | 28,521,994.59 | - | - | - | 28,521,994.59 | 8,221,317.38 | 3,045,101.59 | - | - | 3,045,101.59 | 11,266,418.97 | 17,255,575.62 | 20,300,677.21 | |
| 4. Vehicles | 15% | 889,675.00 | - | - | - | 889,675.00 | 625,856.29 | 39,572.81 | - | - | 39,572.81 | 665,429.10 | 224,245.90 | 263,818.71 | |
| 5. Furniture & Fixtures | 10% | 10,528,590.41 | 1,348,386.00 | 172,914.00 | - | 12,049,890.41 | 3,683,620.73 | 684,496.97 | 134,838.60 | 8,645.70 | 827,881.27 | 4,511,602.00 | 7,538,288.41 | 6,844,569.68 | |
| 6. Office Equipment | 15% | 9,461,946.13 | 1,483,755.00 | 334,970.00 | 27,409.00 | 11,253,262.13 | 4,482,870.84 | 746,861.29 | 222,563.25 | 25,122.75 | 994,547.29 | 5,477,418.13 | 5,775,863.99 | 4,979,075.29 | |
| 7. Computer/ Peripherals | 40% | 38,174,879.07 | 3,876,268.00 | 800,000.00 | 3,905.00 | 42,847,242.07 | 25,071,963.33 | 5,241,166.30 | 1,550,507.20 | 160,000.00 | 6,951,673.50 | 32,023,636.83 | 10,823,605.25 | 13,102,515.74 | |
| 8. Electric Installations | | | | | | | | | | | | | | | |
| 9. Library Books | 100% | 15,904.67 | - | - | - | 15,904.67 | 15,904.67 | - | - | - | - | 15,904.67 | - | - | |
| 11. Intangible Assets- Website | 25% | 37,067,567.00 | 2,122,173.00 | 2,950,000.00 | - | 42,139,740.00 | 16,892,463.00 | 5,043,776.00 | 530,543.25 | 366,750.00 | 5,943,069.25 | 22,835,532.25 | 19,304,207.74 | 20,175,104.00 | |
| 12. Drones & Accessories | 40% | 18,864,987.00 | - | 750,000.00 | - | 19,614,987.00 | 10,253,945.18 | 3,444,576.73 | - | 150,000.00 | 3,594,576.73 | 13,848,121.91 | 5,766,865.09 | 8,611,411.82 | |
| TOTAL OF CURRENT YEAR (A) | | 143,525,543.87 | 8,830,582.00 | 5,007,884.00 | 31,314.00 | 157,332,695.87 | 69,247,541.42 | 18,245,551.68 | 2,838,452.30 | 712,518.45 | 21,396,522.43 | 90,644,063.85 | 66,688,632.00 | 74,278,002.45 | |
| B. CAPITAL WORK IN PROGRESS | | 204,400,000.00 | - | 4,175,416.00 | - | 208,575,416.00 | - | - | - | - | - | - | 208,575,416.00 | 204,400,000.00 | |
| TOTAL (A+B) | | 347,925,543.87 | 8,830,582.00 | 9,183,300.00 | 31,314.00 | 365,908,111.87 | 69,247,541.42 | 18,245,551.68 | 2,438,452.30 | 712,518.45 | 21,396,522.43 | 90,644,063.85 | 275,264,048.00 | 278,678,002.45 | |



NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH

SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2025

| | Amount in Rs. | |
|---|-----------------------|-----------------------|
| <u>Schedule 5 - Current Assets, Loans, Advances Etc.</u> | Current Year | Previous Year |
| A. CURRENT ASSETS | | |
| 1. Inventories: | | |
| a) Stores and Spares | - | - |
| b) Loose Tools | - | - |
| c) Stock-in-trade | | |
| Finished Goods | 2,874,229.27 | 2,874,229.27 |
| Work-in-progress | - | - |
| Raw Materials | - | - |
| d) Software Defined Radio-SDR | - | - |
| 2. Accounts Receivables:(Promotinal Activities) | | |
| a) Debts Outstanding for a period exceeding six months | 24,831,388.54 | 25,180,388.54 |
| b) Others | 1,976,134.00 | 3,814,417.00 |
| 3. Cash balances in hand (including cheques / drafts and Imprest) | - | - |
| 4. Bank Balances: | | |
| a) <u>With Scheduled Banks:</u> | | |
| On Current Accounts | - | - |
| On Deposit Accounts (Short term deposits) | 114,431,894.00 | 111,124,434.00 |
| On Savings Accounts | 212,977,426.48 | 224,153,764.99 |
| On Bamboo & Cane Development Institute (BCDI) | 7,272,895.33 | 9,718,502.82 |
| b) <u>With non-Scheduled Banks:</u> | | |
| On Current Accounts | - | - |
| On Deposit Accounts | - | - |
| On Savings Accounts | - | - |
| 5. Post Office-Savings Accounts | - | - |
| TOTAL (A) | 364,363,967.62 | 376,865,736.62 |



NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH
SCHEDULES FORMING PART OF BALANCE SHEET AS AT 31.03.2025

| | Amount in Rs. | |
|---|-----------------------|-----------------------|
| Schedule 5 - Current Assets, Loans, Advances Etc | Current Year | Previous Year |
| B. LOANS, ADVANCES AND OTHER ASSETS | | |
| 1. Loans | | |
| a) Technology Development Assistance Loan | 454,185,554.00 | 461,856,249.00 |
| b) Staff and other loans | | |
| a) Staff : Advance (Annexure - 3) | 4,083,461.00 | 5,076,961.00 |
| b) Other: Entities engaged in activities/ objectives similar to that of the | | |
| to be received. | | |
| a) On capital Account | | |
| b) Prepayments for Projects | | |
| c) Security Deposits | | |
| Security Deposit:E-Sign (CDAC) | 100,000.00 | 100,000.00 |
| Security Deposit: MTNL | 1,500.00 | 1,500.00 |
| Security Deposit: Rent TDC Guwahati | 166,662.00 | 166,662.00 |
| Security Deposit: Qutab Service Station | 10,000.00 | 10,000.00 |
| Security Deposit: NECTAR G/H | 200,000.00 | 200,000.00 |
| Security Deposit: BSNL | 2,499.00 | 2,499.00 |
| Security Deposit: Water Bottel | 3,000.00 | 3,000.00 |
| Security Deposit: SOI Shillong | 236,700.00 | 236,700.00 |
| Security Deposit: GAS shilong | 3,550.00 | 3,550.00 |
| Security Deposit: APDCL (Electricity) | 537,060.00 | 537,060.00 |
| Security Deposit: Reliance Jio shilong | 3,536.00 | 3,536.00 |
| Security Deposit: NECTAR G/H-G | 200,000.00 | 200,000.00 |
| Security Deposit: NECTAR GBP | 217,125.00 | 217,125.00 |
| EMD Deposite Krishi Bhawan | | 500,000.00 |
| d) Others | | |
| Arbitration expenses recovery | 54,313.00 | 54,313.00 |
| Recovery from TIFAC | 911,796.00 | 911,796.00 |
| Insolvency Charges | 45,436.00 | 45,436.00 |
| Prepaid Insurance Charges | | 8,120.00 |
| Prepaid AMC Charges | | 3,837.00 |
| Land Revenue Charges | | 1,000.00 |
| Prepaid Website Maintenance Charges | 200.00 | 825.00 |
| SDR Installation Arunachal Pradesh | 435,963.00 | 435,963.00 |
| A. B. Composites Pvt. Ltd. | 1,797,982.95 | 1,797,982.95 |
| Advances to Suppliers and Others (Annexure-5) | 4,861,091.00 | 5,350,532.00 |
| 3. Income Accrued | | |
| a) On Investments from Earmarked/ Endowment Funds | | |
| b) On Investment - Others | | |
| c) On Loans and Advances | | |
| d) Others: Interest Accrued | 2,931,028.00 | 5,197,827.00 |
| 4. Claims Receivable | | |
| GST Receivable | 5,380,891.72 | 4,543,665.72 |
| TDS (A.Y.- 2025-26) | 493,183.00 | |
| TDS (A.Y.- 2024-25) | | 310,346.00 |
| TOTAL (B) | 476,862,531.67 | 487,776,485.67 |
| TOTAL (A+B) | 841,226,499.29 | 864,642,222.29 |



NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2025

| Schedule 6 - Income From Promotional Activities | Current Year | Previous Year |
|--|-----------------------|-----------------------|
| 1. Income from Promotional Activities | | |
| a) Sale of Finished Goods/Traded | | |
| b) Sale of Raw Material | | |
| c) Sale of Scraps | | |
| d) Miscellaneous | | |
| 2. Income from Services | | |
| a) Labors and Processing Charges | | |
| b) Professional/Consultancy Services | 8,826,004.00 | 3,250,846.00 |
| c) Agency Commissions and Brokerage | | |
| d) Maintenance Services (Equipment/Property) | | |
| e) Others (Specify) | 869,558.00 | 48,400.00 |
| f) NERAMAC Project Receipts | 6,250,000.00 | 14,250,000.00 |
| TOTAL | 15,945,562.00 | 17,549,246.00 |
| Schedule 7 - Grants / Subsidies | Current Year | Previous Year |
| (Irrevocable Grants & Subsidies Received) | | |
| 1. From Central Government | - | - |
| Grants in Aid (General) | 92,000,000.00 | 115,400,000.00 |
| Less: Returned | (15,217.00) | (129,165.00) |
| Grant in Aid (Salary) | 41,000,000.00 | 37,200,000.00 |
| Less: Returned | - | (486,025.00) |
| 2. Central Government other projects | - | - |
| 3. State Government projects | - | - |
| 4. Institutions/Welfare Bodies | - | - |
| 5. International Organizations | - | - |
| 6. Others (Specify) | - | - |
| TOTAL | 132,984,783.00 | 151,984,810.00 |
| Schedule 8 - Fees / Subscriptions | Current Year | Previous Year |
| 1. Entrance Fees | - | - |
| 2. RTI Receipts | - | - |
| 3. Seminar/Program Fees | - | - |
| 4. Processing Fees | - | - |
| 5. Others (Tender Money) | 25,040.00 | 83,500.00 |
| TOTAL | 25,040.00 | 83,500.00 |



| Schedule 9 - Interest Earned | Current Year | Previous Year |
|--|----------------------|----------------------|
| 1. On Term Deposits: | | |
| a) With Scheduled Banks | 10,563,004.00 | 6,833,785.00 |
| b) With Non-Scheduled Banks | - | - |
| c) With Institutions | - | - |
| d) Others | - | - |
| 2. On Savings Accounts: | | |
| a) With Scheduled Banks | 3,986,266.02 | 7,416,639.00 |
| b) With Non-Scheduled Banks | - | - |
| c) Post Office Savings Accounts | - | - |
| d) Others | - | - |
| 3. On Loans: | | |
| a) Employees/Staff | - | - |
| b) Others (Long term advances) | - | - |
| 4. Interest on Debtors and Other Receivables | | |
| a) Penal Interest | - | - |
| b) Interest on Income tax refund | 2,154.00 | - |
| TOTAL | 14,551,424.02 | 14,250,424.00 |

| Schedule 10 - Other Income | Current Year | Previous Year |
|---|---------------------|---------------------|
| 1. Profit on Sale/ disposal of Assets | - | - |
| a) Owned assets | - | - |
| b) Assets acquired out grants, of received free of cost | - | - |
| 2. Export Incentives realized | - | - |
| 3. Fees for Miscellaneous Services-(HGH Project) | - | 1,294,942.00 |
| 4. Miscellaneous Income | - | - |
| Deferred Revenue Grant | 3,150,970.75 | 6,594,336.00 |
| Other Receipt | 594,195.26 | 25,710.00 |
| User Charges | - | 48,000.00 |
| Recovery of Renovation Cost | 108,102.00 | - |
| TOTAL (A) | 3,853,268.01 | 7,962,988.00 |
| Partner Contribution | - | - |
| TOTAL (B) | - | - |
| Refunds from Projects-Grant | - | - |
| TOTAL (C) | - | - |
| Refund of Working Capital Loan | - | - |
| TOTAL (D) | - | - |
| Total (A) + (B) + (C)+(D) | 3,853,268.01 | 7,962,988.00 |



NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2025

| <u>Schedule 11 - Increase / (Decrease) in stock of Finished Goods & Work in Progress</u> | Current Year | Previous Year |
|--|--------------|---------------|
| a) Closing stock | | |
| Finished Goods | 2,874,229.27 | 2,874,229.27 |
| Work-in-progress | - | - |
| b) Less: Opening Stock | | |
| Finished Goods | 2,874,229.27 | 2,874,229.27 |
| Work-in-progress | - | - |
| NET INCREASE/(DECREASE) [a-b] | - | - |

| <u>Schedule 12 - Establishment Expenses</u> | Current Year | Previous Year |
|--|----------------------|----------------------|
| 1. Salaries | 48,040,244.00 | 45,489,777.00 |
| 2. Allowances and Leave encashment | 732,426.00 | 784,207.00 |
| 3. Employer Contribution to Provident Fund | 493,740.00 | 574,821.00 |
| 4. Wages | 172,113.00 | 636,018.00 |
| 5. Expenses on Employees' Retirement and Terminal Benefits | - | - |
| 6. Staff Welfare Expenses | - | - |
| 7. NPS Contribution | 4,419,548.00 | 4,104,442.00 |
| 8. Others (Specify) | | |
| Medical Reimbursement | 569,245.00 | 441,751.00 |
| Tuition Fee / CEA | 229,512.00 | 162,000.00 |
| EPF Administration Charges | 20,160.00 | 23,472.00 |
| TOTAL | 54,676,988.00 | 52,216,488.00 |



NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH
SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2025

| Schedule 13 - Administrative Expenses etc. | Current Year | Previous Year |
|--|----------------------|----------------------|
| a) Repairs and Maintenance | 255,214.00 | 886,702.00 |
| b) Rent, Rates and Taxes | 2,150,430.00 | 4,191,900.00 |
| c) Car Hire Charges | 455,575.00 | 1,076,619.00 |
| d) Postage & Courier Charges | 184,415.00 | 55,108.00 |
| e) Printing and Stationary | 690,479.00 | 652,182.00 |
| f) Traveling Expenses | 2,641,659.00 | 2,769,638.00 |
| g) Expenses on Seminar/Workshops | 1,459,289.00 | 2,543,780.00 |
| h) Meeting Expenses | 270,277.00 | 175,936.00 |
| i) Audit Fee | 153,000.00 | 119,250.00 |
| j) Advertisement Charges | 687,466.00 | 387,062.00 |
| k) Conveyance Charges | 205,720.00 | 148,565.00 |
| l) Telephone and Communication Charges | 130,140.00 | 170,398.00 |
| m) Internet Charges | 1,362,431.00 | 1,377,057.00 |
| n) Anti Virus Charges | | 514,946.00 |
| o) Hindi Work Expenses | 676,837.00 | 202,871.00 |
| p) Legal & Professional Charges | 1,910,230.00 | 1,639,518.00 |
| q) Testing & Installation Charges | 438,033.00 | - |
| r) Arbitration Expenses | 1,079,638.00 | 382,500.00 |
| s) Membership & Fees | 1,072,109.00 | 296,315.00 |
| t) AMC Charges | 62,143.00 | 12,750.00 |
| u) Shipping/Transportation Charges | 645,045.00 | 283,054.00 |
| v) Website Maintenance Charges | 29,694.00 | 161,630.00 |
| w) Promotion & Publicity | 515,222.00 | 465,467.00 |
| x) MISC. Office Expenses | 1,955,653.00 | 937,935.00 |
| y) Electricity | 740,310.00 | 225,320.00 |
| z) Bank Charges | 16,468.81 | 13,089.07 |
| aa) Newspaper & periodicals | 64,256.00 | 53,986.00 |
| ab) Exhibition Expenses /Conclave Expenses | 13,557,852.00 | 3,588,576.00 |
| ac) Honorarium -Non Official | 189,297.00 | 226,234.00 |
| ad) Security Charges | 725,561.00 | 375,101.00 |
| ae) Gest House Maintenance Expense | 992,747.00 | 347,124.00 |
| af) Insurance Charges | 94,634.00 | 22,738.00 |
| ag) Training Expenses | 315,462.00 | 574,990.00 |
| ah) TDC Guwahati Expenses | 2,892,117.00 | 7,602,768.00 |
| ai)Renovation of NECTAR office Shillong & Quarters | 2,698,814.00 | 2,679,824.00 |
| aj)House Keeping Charges | 1,132,251.00 | 886,209.00 |
| ak) Consumable Items | 457,302.00 | 166,416.00 |
| al) Consultancy Charges/Service Charges | 3,038.00 | 1,246.00 |
| an)E-office Service Charges | 3,593,102.00 | 5,900,714.00 |
| TOTAL | 46,503,910.81 | 42,115,518.07 |



NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH
 SCHEDULES FORMING PART OF INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31.03.2025

| Schedule 14 - Expenditure on Grants, Subsidies etc. | Current Year | Previous Year |
|---|----------------------|----------------------|
| a) Grants given to Institutions/Organizations | | |
| Grant (Annexure 4) | 47,581,436.00 | 66,451,315.00 |
| Loan | - | - |
| Other Project Expenses | 9,492,065.00 | 18,660,015.00 |
| b) Subsidies given to Institutions/Organizations | | |
| TOTAL | 57,073,501.00 | 85,111,330.00 |

| Schedule 15 - Prior Period Expenses | Current Year | Previous Year |
|--------------------------------------|---------------------|---------------------|
| a) Taxes | | 34,020.00 |
| b) Misc Office Expense | 40,563.00 | 12,400.00 |
| c) CRA Charges | - | 845.00 |
| d) Car Hire Charges | - | 129,040.00 |
| e) Legal & Professional fess | 67,500.00 | 77,495.00 |
| f) News Paper & Periodicals | - | 603.00 |
| g) Telephone Expenses | 13,093.00 | 13,803.00 |
| h) House Keeping Charges | 71,515.00 | - |
| i) Rent Warehouse/Shillong office | - | 1,044,000.00 |
| j) Honorarium | 2,500.00 | - |
| k) Security Charges | 131,736.00 | - |
| l) Travelling Expenses | 245,536.00 | - |
| m)Gratuity | 227,769.00 | 876,923.00 |
| n)Conveyance | 3,858.00 | - |
| o)Internter Charges | 55,085.00 | - |
| p)Courier and Postage Charges | 11,062.00 | - |
| q)Fees & Subscription | 24,000.00 | - |
| r)Project Expenses | 489,441.00 | - |
| s)Shipping and Transportaion Charges | 100,158.00 | - |
| t)Transallation Charges | 26,880.00 | - |
| TOTAL | 1,510,696.00 | 2,189,129.00 |



NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH

Annexure - 1

Administrative Expenses Payable

| <u>PARTICULARS</u> | <u>Current Year</u> | <u>Previous Year</u> |
|--|---------------------|----------------------|
| Conveyance expenses Payable | 23,268.00 | |
| Travelling Expenses Payable (Domestic) | 97,973.00 | |
| Medical Expenses Payable | 7,249.00 | |
| Legal & Professional Fees Payable | 78,480.00 | 78,480.00 |
| Intern Stipend payable | - | 10,000.00 |
| Salary payable for project staff | 1,666,177.00 | 1,389,660.00 |
| TOTAL | 1,873,147.00 | 1,478,140.00 |

Annexure - 2

Establishment Expenses Payable

| <u>PARTICULARS</u> | <u>Current Year</u> | <u>Previous Year</u> |
|---------------------|---------------------|----------------------|
| NPS/EPF Payable | 725,489.00 | 703,353.00 |
| Salary Payable | 3,445,790.00 | 3,327,093.00 |
| QTR Charges Payable | 13,064.00 | 13,064.00 |
| Wages Payable | 3,384.00 | 64,220.00 |
| TOTAL | 4,187,727.00 | 4,107,730.00 |

Annexure - 3

Staff Advance

| <u>PARTICULARS</u> | <u>Current Year</u> | <u>Previous Year</u> |
|----------------------------------|---------------------|----------------------|
| Petty Cash Advance: | | |
| BK Manthan | - | 3,000.00 |
| Gavin Vandroff | - | 30,000.00 |
| Fedlia Diengdoh | - | 20,000.00 |
| Bharat Phukan | - | 20,000.00 |
| Ajit kumar | - | 20,000.00 |
| Rajdeep Sinha | - | 20,000.00 |
| Simon Phukan | - | 20,000.00 |
| LTC advance | | |
| Debabrata Gogoi | - | 62,000.00 |
| Dr Colline Z Renthlei | - | 26,000.00 |
| HBA advance | | |
| Ankit Shrivastava | 1,946,000.00 | 2,138,000.00 |
| Somanath Nath | 2,035,000.00 | 2,179,000.00 |
| Tour & Other Advance: | | |
| B K Manthan | - | 24,000.00 |
| Manoranjan Deka | - | - |
| Ravi Singh | 11,840.00 | 11,840.00 |
| Akashay Kumar Padhi | - | 46,000.00 |
| Ram Kumar | - | 16,000.00 |
| Virender Kumar Yadav | - | 30,000.00 |
| Simanta Das | - | - |
| Birendra Kumar Sharma | - | 30,000.00 |
| Simon Phukan | - | 100,000.00 |
| Dhrubajyoti Barman | 9,500.00 | - |
| Ravi Kumar Singh | 81,121.00 | 81,121.00 |
| Dr Colline Z Renthlei | - | 100,000.00 |
| Dr. Abhinav Kant | - | 100,000.00 |
| TOTAL | 4,083,461.00 | 5,076,961.00 |



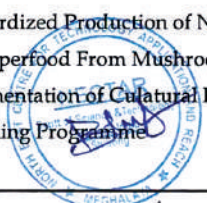
NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH

Annexure - 4

Grant

| <u>PARTICULARS</u> | <u>Current Year</u> | <u>Previous Year</u> |
|---|---------------------|----------------------|
| Ass to St Govern in Technology Aided Decision Supp | | |
| Honey Testing Laboratory-Dimapur(NBHM) | - | 1,050,000.00 |
| Mobile Clinic Patient Monitoring System | - | 1,494,429.00 |
| Settingup Solar Power Cold Storage-Meghalaya | - | 1,500,000.00 |
| Total (A) | - | 4,044,429.00 |
| Technology Assistance to State Government | | |
| Motif Design and Replication System of traditional Stem Education Lab | - | 1,440,000.00 |
| | 1,610,903.00 | |
| Total (B) | 1,610,903.00 | 1,440,000.00 |
| Technology Consultation Projects | | |
| Physiochem & Shelf Life Evaluation of Products-NIFT | - | 234,500.00 |
| Dev.of Food Box amd Liquid Container-IIT Delhi | 40,539.00 | - |
| Total (C) | 40,539.00 | 234,500.00 |
| Technology Demonstartin and Induction Grant | | |
| CSIR-CIMAP(Development of Solar Aroma Distillation) | - | 374,645.00 |
| Development of Kombucha-Paras Biosciences | - | 180,000.00 |
| Dev.of Software for Gamusa Loom Type | - | (6,583.00) |
| Infra Upgradation of Textile & Fashion- RKM | 500,000.00 | - |
| Low Cost Water Treatment Plant-NIT,Manipur | - | 352,000.00 |
| Tulip Cultivation | - | 265,230.00 |
| Beekeeping Colony | 67,500.00 | 270,000.00 |
| Emulsified Meat Products Projects | - | 1,000,000.00 |
| Bottel Sugarcane Juice Projects | 950,000.00 | - |
| Setting Up of Ginger & Turmeric Processing -Kamrup | 336,000.00 | - |
| Setting Up Smoking Unit with Electric Smoker-DO Nam | 151,800.00 | 303,600.00 |
| E-Portal for Maa Kamakhya Darshan Sewa Project | 370,440.00 | - |
| Low Cost User Friendly Broom Binding | 160,000.00 | 640,000.00 |
| Aerostatic Drones for Forest Surveillanc | - | 944,000.00 |
| Agriculture Integrated Farming Sikkim | 472,800.00 | 315,200.00 |
| Biodegradable Low-Cost Kit (IIT-Delhi) | - | 246,400.00 |
| Catalyzing the Traditional Kouna Craft | 1,376,160.00 | - |
| Development of Illicium Griffithi - Monyul | - | 1,380,000.00 |
| Development of Proeject Monitoring Dashboard -CEM | - | 752,435.00 |
| Dev.Instantaneous Hypochlorite Generator-AMPRICARE | - | 621,600.00 |
| Dev. of Training / Production-Bell Met Unit-IIT Guw | 264,416.00 | - |
| Dimoria Eri Cluster | 160,000.00 | 320,000.00 |
| Estblishment of Spice & Aromatic Distillation Unit | - | 1,077,000.00 |
| Extraction and Processing of Lotus Fiber | - | 485,000.00 |
| Extraction of Pineapple Leaf Fiber-NIT Megh. | - | 506,352.00 |
| Silk Production Dev by Using Indigenous & Modern Tech | 399,380.00 | - |
| Innovation in Colored Pearls Production-Cotton Uni | - | 260,000.00 |
| Tech Revitalization For Extruction and Production -Ecofibers | 931,795.00 | - |
| Integrated Innovations Utlising Thermal Engery Sto | - | 264,224.00 |
| Manufacturing of Compostable Bioplastic -Ecostarch | - | 198,600.00 |
| Multipurpose Eco Enzyme Processing Unit (MEEPU) | - | 1,180,620.00 |

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|---|----------------------|----------------------|
| E-Tourism Portal for Enhancing Tourist Experience | 1,919,707.00 | - |
| Mushroom Spawn Production Unit | 328,000.00 | - |
| Recycling of Wast Wood to Make Furniture | - | 250,000.00 |
| Setting Up Hand and Homemade Chocolate Making Plant | - | 555,600.00 |
| Setting Up Mustard Processing Unit-Data Consultancy | - | 852,000.00 |
| Setting Up Product Dev Unit-NER | - | 500,000.00 |
| Setting Up Rubber Plants-Ichamati Megh | - | 117,420.00 |
| Establishment of a Mini Processing Fish Feed Mill | 1,976,000.00 | - |
| Greenhouse Aquaponic Farming -Shillong | 1,589,600.00 | - |
| Greenhouse Cultivation of Anthurium and Rose | 2,000,000.00 | - |
| Manufacturing of Medical and Fashion Garments in NE | 950,000.00 | - |
| Milk Processing Unit in Jhagrapar-Assam | 690,000.00 | - |
| Mobile Processing Unit in NE for Fruit and Veg | 2,624,596.00 | - |
| Poultry and Fish Feed Manufacturing Unit | 548,000.00 | - |
| Production of larg cardamon | 932,000.00 | - |
| Establishment of Fruit Processing Unit | - | 1,000,000.00 |
| Manufacturing of Biodegradable Cups and Plates | - | 511,098.00 |
| Pineapple Peeling Technology-UKB | 296,000.00 | 1,184,000.00 |
| Replacing Wheat Flour in Bakery Insustry-Project | 990,000.00 | 990,000.00 |
| Setting Up Fruit Wine Processing Unit | 1,000,000.00 | 1,000,000.00 |
| Setting Up King Chili Cultivation and Processing Un | - | 1,000,000.00 |
| Setting Up Lemon Processing Unit | 500,000.00 | 2,000,000.00 |
| Setting Up Micro Cashew Processing Unit | 475,000.00 | 2,000,000.00 |
| Setting Up of Language Cum Multimedia Lab | - | 1,628,028.00 |
| Setting Up Tea Proceing Unit-Mizoram | 475,000.00 | 2,000,000.00 |
| Total (D) | 23,434,194.00 | 27,518,469.00 |
| Technology Delivery & Services | | |
| Microbial Consortium Assisted Organic Compositing-Mizoram | 1,500,000.00 | - |
| Bamboo Weaving Handicraft - Training | 956,800.00 | - |
| Inclusive Sustainable and Income Generation | 651,152.00 | 651,152.00 |
| Training & Skill Development at IITDC, Agartala | - | 3,200,000.00 |
| Mobile Skill Development Course in Assamese | 1,200,000.00 | 800,000.00 |
| Skill Development training for Visual Impairment | 339,000.00 | 1,356,000.00 |
| Intigrated Dairy Technology Initiative for Rural | 935,292.00 | - |
| Training Programme on Bmaboo Products | - | 2,276,603.00 |
| Training Programme on Handsa on Training | (367,000.00) | 367,000.00 |
| Skill Development Training-NIT (A.P.) | - | 2,620,900.00 |
| Skill Development Education Programme-GIS | 4,324,075.00 | - |
| Training on Banana Fiber Handloom and Handicraft- | - | 327,500.00 |
| Training Programme on Micropropagation | - | 162,035.00 |
| Promoting Techno-Entrepreneurship in NER | - | 1,339,200.00 |
| Awakening the Hiden Culture NER Music for Living | - | 1,497,500.00 |
| Safe Hygienic & Standardized Production of Naga Food | 1,000,000.00 | - |
| Creating Nutritional Superfood From Mushrooms | - | 958,800.00 |
| Digitization and Documentation of Culatural Heritag | 330,000.00 | - |
| Drone Awareness Training Programme | 420,220.00 | 938,490.00 |



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|--|----------------------|----------------------|
| Livelihood Generation Through Tofu Value Addition | 225,000.00 | 450,000.00 |
| Gluten Free Black Rice Based foods | 1,793,600.00 | - |
| Smart Agri Ai-Driven Soil Parameter Mointoring for Organic Farming | 555,660.00 | - |
| Total (E) | 13,863,799.00 | 16,945,180.00 |

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|---|----------------------|----------------------|
| Technology Extension & Consolidation | | |
| Elephant Apple Powder Production Unit | 1,900,000.00 | - |
| Cocoa Primary Processing and Value Addition | - | 680,000.00 |
| Empowerment of Rural Farmers Tech Intervention-Must | 822,500.00 | - |
| Livelihood Enhancement of of Rulral Farmers- | - | 398,165.00 |
| Tech. Intervention& Upgrad in Yoga Mat Prod-Simang | - | 1,469,243.00 |
| Plant for Qucik Mixing & Drying of Manu. | 320,000.00 | - |
| Enhancement of the Existing Food Manu. | - | 2,000,000.00 |
| Establishing Green Briquette Enterprise | 997,391.00 | 997,391.00 |
| Establishment of Community Radio (CRS) | 489,400.00 | 2,307,598.00 |
| Estb. of Tea Manufacturing Unit-Nagaland | 381,210.00 | 1,524,840.00 |
| Est.of Eri Spun Mill | 1,000,000.00 | 1,000,000.00 |
| Large Scale Production of Eco Friendly Paper Cups | 970,000.00 | 970,000.00 |
| Livehood Enhancement -Integrated Spiece Pro-Unit | - | 1,000,000.00 |
| Production of Vegan Leather Products Banana Fiber | 751,500.00 | 751,500.00 |
| Promotion of Traditional Naga Tribal Food Products | - | 1,000,000.00 |
| Recycling & Reusing Wood Wast to Usable Products | 1,000,000.00 | 1,000,000.00 |
| Scientific Beekeeping for Develop of RC-Kanyaka/CRE | - | 1,170,000.00 |
| Total (F) | 8,632,001.00 | 16,268,737.00 |
| TOTAL EXPENDITURE ON GRANTS (A+B+C+D+E+F) | 47,581,436.00 | 66,451,315.00 |

Annexure - 5

| Advances to Suppliers and Others | Current Year | Previous Year |
|---|---------------------|----------------------|
| Hari Om Sales and Service | 2,860,089.00 | 2,860,089.00 |
| S. P. Engineers | 1,658,197.00 | 1,658,197.00 |
| FPV Model International | 83,667.00 | 83,667.00 |
| RC Bazar | 87,388.00 | 87,388.00 |
| Vyom Vista | 171,750.00 | 171,750.00 |
| Karunesh Enterprises | - | 489,441.00 |
| TOTAL | 4,861,091.00 | 5,350,532.00 |



NORTH EAST CENTRE FOR TECHNOLOGY APPLICATION AND REACH (NECTAR)

SIGNIFICANT ACCOUNTING POLICIES AND NOTES ON ACCOUNTS

1. The Society has adopted accrual basis of accounting. The annual accounts have been prepared in the uniform format of accounts applicable to Central autonomous bodies.
2. Fixed assets are stated at cost less accumulated depreciation. Cost comprises the purchase price and any other cost of bringing the asset to its present location and condition.
3. Depreciation on fixed assets is computed on the written down value (WDV) method at the rates and in the manner prescribed under the provisions of Income Tax Act.
4. Retirement benefits in the form of provident fund and superannuation fund are defined benefit contribution schemes and the contributions are charged to the statement of income and expenditure in the year when such contribution is due.
5. Gratuity benefits is accountant for and paid as per the internal calculations made by the management without any actuarial valuation method.
6. Inventory is valued at Cost Price or NRV, whichever is lower.
7. Amount released under various projects are accounted as expenditure of the year in which payment is made irrespective of the fact whether the amount is fully utilized towards the specific objective or not.
8. All disbursements (irrespective of its utilization) for projects are treated as expenditure during the financial year and assets created, if any, out of the said disbursement to the project, are not accounted for as assets in the books of the society.





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