



Department of
Information Technology
Government of Manipur



BCKIC
Bhubaneswar City
Knowledge Innovation
Cluster Foundation



MANIPUR TECHNOLOGY INNOVATION HUB (MTI-HUB)

IMPACT REPORT



GENESIS OF MANIPUR TECHNOLOGY INNOVATION HUB (MTI-HUB)

MTI-HUB commenced on 10th November 2022

Manipur Technology Innovation Hub (MTI-HUB) provides a Holistic platform to catalyze interactions between entrepreneurs, startups, academic institutes, industries, investors and other stakeholders in Manipur and facilitate them in fruitful collaborations and help synergize strengths that already exist in the region, thereby paving the way for technology solutions to various societal challenges.



Department of Information Technology (DIT), Govt. of Manipur signed an agreement with KIIT-Technology Business Incubator (KIIT-TBI), on 5th January 2022 to establish Manipur Technology Innovation Hub (MTI-HUB)

Shri Amit Shah, Hon'ble Union Minister for Home Affairs and Minister of Cooperation virtually inaugurated the Manipur Technology Innovation Hub (MTI-HUB) on 6th January, 2022



Shri N. Biren Singh, Hon'ble Chief Minister of Manipur along with Shri Rajesh Kumar, Chief Secretary, Manipur visited and interacted with representatives of the Manipur Technology Innovation Hub on 12th November 2022

BIRAC BIOTECHNOLOGY IGNITION GRANT TECHNICAL EVALUATION PANEL

Achievements

This NE special call has attracted 185 applications from NE regions & finally 75 innovative startups of NE.

16+ experts from all over the country come down to MTI-HUB to review the final Pitch deck presentation

50 Lakhs grant to the top 25 proposals from the NE region

3 Startups from Manipur got selected

Supported Rs. 50 lakhs



Dr. Ayam Victor Singh, PhD

Project Title: Value addition to the traditional rice wine of North East India & minimizing post-harvest loss of fruits



Supported Rs. 50 lakhs



Shri Okram Premjit

Project Title: Commercial breeding of *Tenebrio Molitor* for the production of chitin & chitosan & for application as an alt. Protein and fertilizer



Supported Rs. 50 lakhs



Dr. Atom Annupama Devi

Project Title: Comparative Studies of Different Banana Pseudo stem Fibers & its quality enhancement for Value Added Products



STARTUPS SUPPORTED BY MTI-HUB & RECEIVED GRANTS

Supported Rs. 3.6 Lakhs

PROBLEM ADDRESSED

1. Manipur's system issue: Water quality

Some of the Drinking Water Supply units have skipped tertiary method i.e. disinfectant stage of water treatment. Hence, removal of bacteria and virus are impossible.

2. Technical issue

Not a single manufacturing unit of portable water filter in Manipur.

3. Financial Issue

People in rural areas cannot afford packaged drinking water.

4. Rural Issue

Water were being fetched from streams and lakes. Used small cloth to filter. Sometimes boiled. But many household skipped that too.

USP

1. Economical (less than Rs. 1000, will try to bring down more).
 2. Highly efficient as compared to other technologies.
 3. Very convenient
 4. Raw materials are easily available.
 5. Can be fitted in the pipe continuously, or else used as separate portable system.
 6. It can purify the most turbid water.
 7. Most importantly, giving jobs to local weavers and farmers.
- Win-win situation.



Supported Rs. 7 Lakhs

PROBLEM ADDRESSED

1. Increasing day to day commuting & transportation costs.
2. Increasing pollution due to automobile emissions
3. No time to exercise
4. Limited fuel resources for future generations.



USP

1. We use advance cell, lifepo4 which provides Longer battery life & nonexplosive.
2. We provide door to door servicing facilities throughout the year.
3. Products are customizable according to the Customer's requirements.

18 STARTUPS FROM MANIPUR WHO HAVE SIGNED MOU FOR FREE INCUBATION SERVICES IN MTI-HUB

Sl. No	Name of the Company	Name of the Founder	Thematic Area	Stage
1	Ashatech	Ashok Phairembam	Healthcare	ideation
2	Yakairol Engineering Services Pvt. Ltd.	Thokchom Sanju Singh	IT	Prototype
3	Healthy Mystic Enterprises	Sarju Meitankeisangbam	Beverages	Commercialization
4	Primal Care Health Services	Devashis Thoudam/ Preety Thockchom	Healthcare	Commercialization
5	Foodwif - Wigistic Ventures Pvt. Ltd.	Bickychand Khangjirakpam	Service	Commercialization
6	Picasoid Health Technology Pvt. Ltd.	Rojen Leimapokpam	Healthcare	Commercialization
7	M/S Nga Keithal Pvt Ltd	Hemam Rojesh Singh	Aquaculture	Prototype
8	I.R.M ROBOT	Irom Roshan Meitei	Robotics	Prototype
9	Ezanvel Solutions Pvt. Ltd.	Panam Leishangthem	IT	Prototype
10	Korou Food Processing	Keisam Premkumar Singh	Manufacturing	Prototype
11	Riptrip	Padmini Konsam	Pottery	Commercialization
12	Wang E Services	Ngangom Chitrajit	E vehicle	Prototype
13	MAK Industries	M. Manihar Sharma	Silk	Prototype
14	Sintha Automobile	Laishram Premjit Singh	E vehicle	Ideation
15	M/S Henna Foods	Moirangthem Rosy	Food	prototype
16	PPMF	Liankhan Siam	Aromatic	Commercialization
17	Korou's Water	Dr. Binota Thokchom	Water	Validation
18	M/S Midas Touch	M. Bidyakanta Singh	E cycle	Commercialization

FIVE CLUSTERS UNDER SFURTI SCHEME IMPLEMENTED IN THE STATE OF MANIPUR



PROJECT COST: 476.86 LAKHS



Agro & Food Processing

CHURACHANDPUR AROMATIC PRODUCTS CLUSTER

VILLAGES COVERED	Bungmual, Singnat, Tangpizawl, Suangdoh, Mualnuam, Noney
TOTAL NO. OF BENEFICIARIES	860 (Male - 538, Female - 322)
APPROVED FUNDS UNDER SFURTI	476.86 Lakhs
PRODUCTS BASKET	Oil - Lemongrass & Citronella, Fragrance Cones, Herbal Tea – Tea bag and Granules, Herbal Liquid Hand Wash
STATUS	Functional
PROJECT APPROVAL DATE	MARCH 2020

Cluster Location: Bungmual, Churachandpur, Manipur
Website: <https://www.tcherbs.in/>

Mr. LIANKHANSIAM, Secretary
Partnership in Progress Mission Foundation (PPMF)
9862466125

ABOUT THE CLUSTER

Churachandpur is one of the largest district, multi-ethnic and cosmopolitan city in the state of Manipur. It is considered to be one of the most potential cluster area focused on planting aromatic and medicinal products. The texture of land in the area is suitable for organic farming on a higher scale. Churachandpur being naturally endowed with fertile soil content, the essential oil produced from this region is much superior to the rest of India. The citral content is higher than 80%, which already has an international repute. But due to lack of connectivity, poor technology and finance, business from the aromatic grass cultivation was not able to flourish.

Through the intervention of the SFURTI scheme, the cluster was immensely supported to produce aromatic products. Since the global demand for essential oils is increasing drastically, it motivates the cluster to go ahead with such production. Currently, the cluster is engaged in producing essential oils like **lemongrass and citronella, herbal liquid hand wash, herbal tea and fragrance cones**. The farmer beneficiaries have been provided with adequate finance and modern technologies for better production.

USP

- Erection of Fractionation Distillation Unit, GC-MS QC lab, Spray Dryer & Spin Flash Dryer has been installed for the first time in the state of Manipur.
- The cluster case study on Sustainable Rural Development: Lemongrass Processing and Value Creation was awarded the 2nd Runner Up for the Access Livelihood Sitaram Rao Competition 2021.



Common Facility Center of CHURACHANDPUR AROMATIC CLUSTER



FRACTIONATION DISTILLATION UNIT ARRIVED ON 16-05-2021



FIVE CLUSTERS UNDER SFURTI SCHEME IMPLEMENTED IN THE STATE OF MANIPUR



PROJECT COST: 497.35 LAKHS



Agro & Food Processing

UKHRUL LEMON & BANANA PROCESSING CLUSTER

Cluster Location: Ukhrul, Manipur
Website: <https://www.tcherbs.in/>
Mr. LIANKHANSIAM, Secretary
Partnership In Progress Mission Foundation (PPMF)
9862466125

VILLAGES COVERED	Awang Kasom, Chingai, Nungshung Khullen, Kachai, Somdal		
TOTAL NO. OF BENEFICIARIES	769 (Male - 424, Female - 345)		
APPROVED FUNDS UNDER SFURTI	497.35 Lakhs		
PRODUCTS BASKET	Lemon Pickle, Lemon Essential Oil, Lemon Juice, Lemon Fruit Powder, Banana Powder, Poultry Feed		
STATUS	Under Implementation	PROJECT APPROVAL DATE	DECEMBER 2021

ABOUT THE CLUSTER

Ukhrul District is a hilly district located in the north of Manipur. Ukhrul district head quarters is linked with Imphal, the state capital, by 84 Km long NH-150.

The cluster area is famous for Lemon cultivation. The Lemon grown in the area which is commonly known as Kachai lemon has earned GI tag owing to its unique taste and flavour. It also contains the highest recorded ascorbic acid among the citrus fruits. Because of favorable agro climatic conditions; fertile, deep and well-drained soil; the region is suitable for cultivation of large varieties of fruits, because of its unique nutritional quality and high demand from other states, Kachai lemon cultivation and processing in large scale will improve the economic condition of farmers in Ukhrul district.

The major developmental constraints in Ukhrul district include inadequate water supply, health and sanitation facilities, poor housing, transport & communication facilities, electricity supply and poor access to institutional credit.

In order to strengthen the farmers' productivity and income throughout the year, this cluster project has been proposed to encourage people to expand Lemon cultivation which can be processed in the CFC by engaging local people to make different value added products. With this vision, the Implementing Agency has been looking for support and help to improve necessary infrastructure for Lemon processing unit in the cluster area for further empowerment of the local farmers by providing livelihood support to the farmers and their family members. The cluster area has large number of unemployed, skilled and unskilled people to be employed under the project.

USP

- For the 1st time a cluster has been proposed in Manipur where a GI product – Kachai Lemon is being used for value addition with a better price potential than value added products from lemon.



FIVE CLUSTERS UNDER SFURTI SCHEME IMPLEMENTED IN THE STATE OF MANIPUR



PROJECT COST: 389.61 LAKHS



Agro & Food Processing

TENGNOUPAL GINGER PROCESSING CLUSTER

VILLAGES COVERED	Sinam, Sita, Phaichambung, Molnom, Khodamphai, Tampak, Ngairong
TOTAL NO. OF BENEFICIARIES	646 (Male - 326, Female - 320)
APPROVED FUNDS UNDER SFURTI	389.61 Lakhs
PRODUCTS BASKET	Dried Ginger, Ginger Powder, Ginger Oil, Ginger Paste, Ginger Tea, Ginger Candy
STATUS	Under Implementation
PROJECT APPROVAL DATE	SEPTEMBER 2022

ABOUT THE CLUSTER

Tengnoupal is a beautiful town at the highest point of a road (NH-39) between Imphal and North-Western Myanmar (Burma).

Tengnoupal Block is one of the most fertile hills with vast areas of cultivable land. With its fertile soil and irrigation facilities from Konglen river, there is large scale cultivation of Ginger, Turmeric, Maize etc. The agro-climatic condition is favorable for ginger cultivation in the cluster area which are of good quality, taste and unique flavor. Further, poor infrastructure in terms of cold storage, warehousing, inefficient supply chain and non availability of processing facilities forces the farmers to sell their produce of fresh ginger to the middle men at very low prices about Rs 40 per Kg. Most of the unsold raw ginger often gets rotten and wasted.

The current production of ginger in the cluster is estimated at 11.28 tons. The cluster is producing 2800kg of ginger per acre at a rate of Rs. 40/kg. So on an average the total revenue generated per acre is Rs. 1,12,000. There is very little value addition to the ginger produced in the cluster at present. The ginger is collected from the villages by the agents and transported to different parts of the country, after meeting the local consumption requirements, either for direct sale to the consumers or for value addition in the processing centres.

In order to improve the farmers' productivity and income level, Tengnoupal cluster has been proposed to encourage people to expand Ginger cultivation, adopt modern scientific methods of cultivation and to procure the produce which can be processed in the CFC to make different types of value added products.

USP

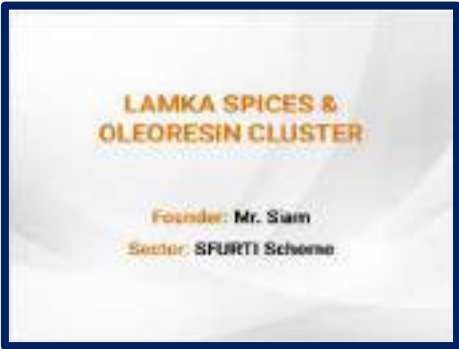
- The cluster is set up near the international border and is having great export potentialities with innovative product basket.

Cluster Location: Tengnoupal, Manipur

Mr. Haokholen Haokip, Secretary
LEIMATAK AREA SOCIAL TRANSMISSION ORGANISATION
8114615594



FIVE CLUSTERS UNDER SFURTI SCHEME IMPLEMENTED IN THE STATE OF MANIPUR



PROJECT COST: 481.09 LAKHS



Agro & Food Processing

LAMKA SPICES & OLEORESIN CLUSTER

VILLAGES COVERED	Pearsonmun, Bukpi, Munpi, Parbung, Parvachawm, Songtal, Tuima		
TOTAL NO. OF BENEFICIARIES	870 (Male - 418, Female - 452)		
APPROVED FUNDS UNDER SFURTI	481.09 Lakhs		
PRODUCTS BASKET	Ginger Oleoresin, Turmeric Oleoresin, King Chilly Oleoresin		
STATUS	Under Implementation	PROJECT APPROVAL DATE	JULY 2021

Cluster Location: Lamka, Churachandpur, Manipur

Ms. Thanglianmung, Secretary
JAMES CONNECTION TRUST (JCT)
9862466125

ABOUT THE CLUSTER

Churachandpur District is the largest district of Manipur measuring over 4,570 km² and occupies 20.5 % of state's area.

Lamka cluster has been proposed to encourage local people to go for large scale cultivation of Ginger, King chilli & Turmeric crops which can be processed in the CFC by engaging local people to develop value added products. Farmers will be able to earn more by supplying their produce to the CFC and get paid timely. This will encourage growing of more spices as they will be assured of better prices. The cluster area also has large number of unemployed, skilled and unskilled people to be employed in the CFC. Through soft intervention, there will be skill enhancement of local people not only on the processes of production of varied value added products but also in the adoption of modern scientific cultivation methods for Ginger, Turmeric and King Chilli. The farmers will earn more and there will be more employment opportunities for local people.

USP

- For the 1st time a cluster has been proposed in Manipur where an oil based product is getting developed from raw spices for value addition with a better price potential than powders developed from their raw materials.



FIVE CLUSTERS UNDER SFURTI SCHEME IMPLEMENTED IN THE STATE OF MANIPUR



PROJECT COST: 483.71 LAKHS



Cluster Location: Kangpokpi, Manipur

Ms. Lhaineihohi H., Secretary
Society for Health & Educational Development for All (SHEDA)
8114615594

KANGPOKPI PINEAPPLE PROCESSING CLUSTER

VILLAGES COVERED	AlmolTuikhang, Tingkaikhullen, Joupri , BungteChiru, Nungangkabui, Wainemkabui	PROJECT APPROVAL DATE	AUGUST 2020
TOTAL NO. OF BENEFICIARIES	700 (Male - 416, Female - 284)		
APPROVED FUNDS UNDER SFURTI	483.71 Lakhs		
PRODUCTS BASKET	Pineapple Jam, Pineapple Squash, Pineapple Pickle, Pineapple Juice, Pineapple Candy		
STATUS	Functional		

ABOUT THE CLUSTER

Kangpokpi district is the 7th largest district of Manipur measuring over 5,725 km² and occupies 15.4 % of state's area.

The cluster area is famous for pineapple cultivation with the supportive agro-climatic and soil conditions, productivity of pineapple is high in the cluster area, but the local farmers are heavily dependent on middle man to sell their produce. Presently, middlemen purchase the Pineapple at a very low price of about ₹10 per pineapple. Although majority of the ripen pineapples are sold during the season to the middlemen, some left over gets rotten and wasted. As the market is currently controlled by middlemen, farmers are forced to sell their produce at throw away prices in absence of any facilities for cold storage, processing, quality control, testing infrastructure, inefficient supply chain and high transportation cost.

In order to further strengthen the farmers' productivity and income throughout the year, Kangpokpi cluster was proposed in the area to encourage people to expand pineapple cultivation which can be processed in the Common Facility Centre (CFC) by engaging local people to make different types of value added products.

Through the intervention of the SFURTI scheme, it is to elevate the standard of living of more than 700 farmers by providing gainful sustained employment in cultivation.

USP

- 700 farmers are immediately benefitted by selling their produce of pineapple to the CFC at better prices of ₹20 per pineapple . They are imparted training on scientific method of cultivation of pineapple. 39 local youth are trained in using modern machineries and employed in the CFC.



ROADSHOWS ON MTI-HUB CONDUCTED



Roadshow # 1
Venue : **MIT, Imphal**
Date : **16th November, 2022**



Roadshow # 2
Venue : **MTU, Imphal**
Date : **17th November, 2022**



Roadshow # 3
Venue : **NIELIT, Imphal**
Date : **22nd November, 2022**



Roadshow # 5
Venue : **NIT, Manipur**
Date : **24th November, 2022**



Roadshow # 4
Venue : **CIPET, Imphal**
Date : **23rd November, 2022**



Roadshow # 6
Venue : **MIU, Manipur**
Date : **26th November, 2022**

Reaching out to the unreachable...



Roadshow # 7

Venue: **IIIT, Manipur**

Date: **06th December, 2022**

Roadshow # 8

Venue: **DM University**

Date: **16th December, 2022**



Roadshow # 9

Venue: **Modern College**

Date: **29th March, 2023**

Outcome Of Roadshows

- **1000+ people** attended and get benefitted about the various support system provided by MTI-HUB
- **4-5 innovative ideas** have been selected from each roadshows for further refining.
- **1 participant** of the roadshow was finalist of the BOEING BUILD 2.0 program.
- Provided the **12 problem statement** given by DONER Ministry to come up with the solution.
- **Motivated the youths** with the success story sharing by BIG grant winners from Manipur.
- **MTI-HUB office** is becoming a centre of attraction for the youths of Manipur venturing into the startup ecosystem.

NESS SUMMIT (NORTH EAST STARTUP SHOWCASE SUMMIT 1.0)

1st & 2nd February, 2023 at MTI-HUB

Achievements

Inaugurated the summit by **Dr. Sapam Ranjan Singh**, Hon'ble Minister of Medical, Health and Family Welfare & Publicity and Information, Govt. of Manipur.

40 startups showcase their product, including 35 from Manipur and 5 from outside Manipur.

35 startups from Manipur Pitched their idea on day 2.

16 Startups signed MOU with MTI-HUB for incubation and mentoring support

Five Startups namely-

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

have been recognized and achieved the best Startup and will provide help and support to them



BUILDING SUSTAINABLE INCUBATOR ECOSYSTEM IN NORTH EAST REGION (BINER) 2.0

3rd & 4th of February, 2023

Achievements

25 + potential incubation managers participate in the program.

Participants from major institutions from Manipur including MIT, DMU, MASTEC, MIU, IIITM, Incubation Hub Imphal, PDDUIAS, Green Foundation and Maolkeki Foundations attended the program.

Important topics on "**Planning the Incubator & developing Incubator's strategy**" were taught by **Dr. Mrutyunjay Suar, PhD** CEO of KIIT-TBI and Dr. Namrata Misra, Head Bioinnovation.

MTI-HUB is going to help institutes from Manipur to set up a new incubation center with financial assistance from central government agencies.



G20 DIA NATIONAL PROGRAM

“DIGITALIZATION: ENABLING INDIA’S TECH GROWTH

24th March 2023

Achievements

The program was organized by **MTI HUB** in collaboration with **MEITY, Govt. of India**

Dr. Sapam Ranjan Singh, Hon’ble Minister of Health and family welfare and DIPR addressed the audience & highlighted the importance of Digitization.

Leadership sessions were delivered by **Dr. Dhabali Thangjam, Dr. Palin Khundongbam, Uttam Ningthoujam, Lairenjam Nirnan Singh, & Omkarnath Suprabhat Rath**.

Panel discussions were focused on NE startups working in Digitalization in emerging areas and were participated by **8 startups** working in **health tech, IT and other areas**.

250+ people participated the program



MTI-HUB DURING STARTUP INNOVATION CONCLAVE 1.0

9th & 10th December, 2022 at Bhubaneswar

Achievements

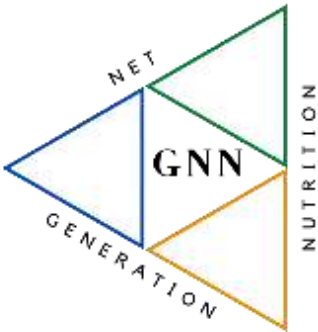
- ❖ Release of **"Impact Report on North East Startup Ecosystem"** by DoNER, Secretary Sh. Lok Ranjan.
- ❖ **Inaugurated North East Pavilion** where in 16 Startups from North East **9 startups from Manipur** through MTI HUB have showcase their products and services.
- ❖ Several **Startup Products were launched** during the conclave including **2 from Manipur**.
- ❖ The North East pavilion Including MTI Hub was visited by a number of officials from, **TDB, NRDC, DST, BIRAC, MSME, DAAD** along with several investors, and venture capitalists.



MTI-HUB SIGNED MEMORANDUM OF UNDERSTANDING (MOU) WITH DIFFERENT INSTITUTES IN MANIPUR



Patent/IP filling support system to Startups





IMPACT SO FAR

10+ Total Programs	1000+ Innovators Reached	3 To promote MTI HUB, attended events organized by various org.	10+ Mentors identified	Hosted G20-DIA National Roadshow at NIELIT, Imphal
9 Start-ups from Manipur Attended innovation conclave	2 Start-up Product from Manipur launched by DoNER secretary	25+ Innovation Idea pitch	9 Physical Roadshows Conducted	MTI Hub Outreach video
2 MOU signed with PDDUIAS & MIU	10+ Startup and holding and mentoring	60+ Start-ups Connected so far	21 Start-ups identified for incubation at MTI HUB and KIIT-TBI	1 Technical Evaluation Panel for BIG NER
Completion of MTI Hub website	40+ Startups identified	BOEING 2.0 1 Applicant from Manipur reached the final presentation	9 Institutional Collaborations	BIG NER 3 Startups got selected for a sum of Rs. 50 Lakhs



FUTURE ACTIVITIES OF MTI-HUB

- ❖ To launch the MTI HUB Annual Program Calendar by the **Hon'ble Chief Minister of Manipur, Shri. N. Biren Singh**.
- ❖ To collaborate with the Department of Planning, Government of Manipur the **Nodal Department for Startup Manipur** in scouting youths looking for funding opportunities and mentoring.
- ❖ To identify & recognize the Manipur Technology Innovation Hub as one of the as a **State Incubation Center of Manipur**.
- ❖ Identification of **ready-to-deploy** Technology in various sectors for the state of Manipur
- ❖ Inclusion of the achievements of **MTI HUB** in social media posts of *myGov.in*



The Gateway to South-East Asia & now
**The Next Hot-Spot
For Startups**



Manipur Technology Innovation Hub (MTI-HUB)

Manipur Information Technology Park, Mantripukhri,
Imphal West, Manipur – 795002

E-mail : info@mtihub.in Website : www.mtihub.in