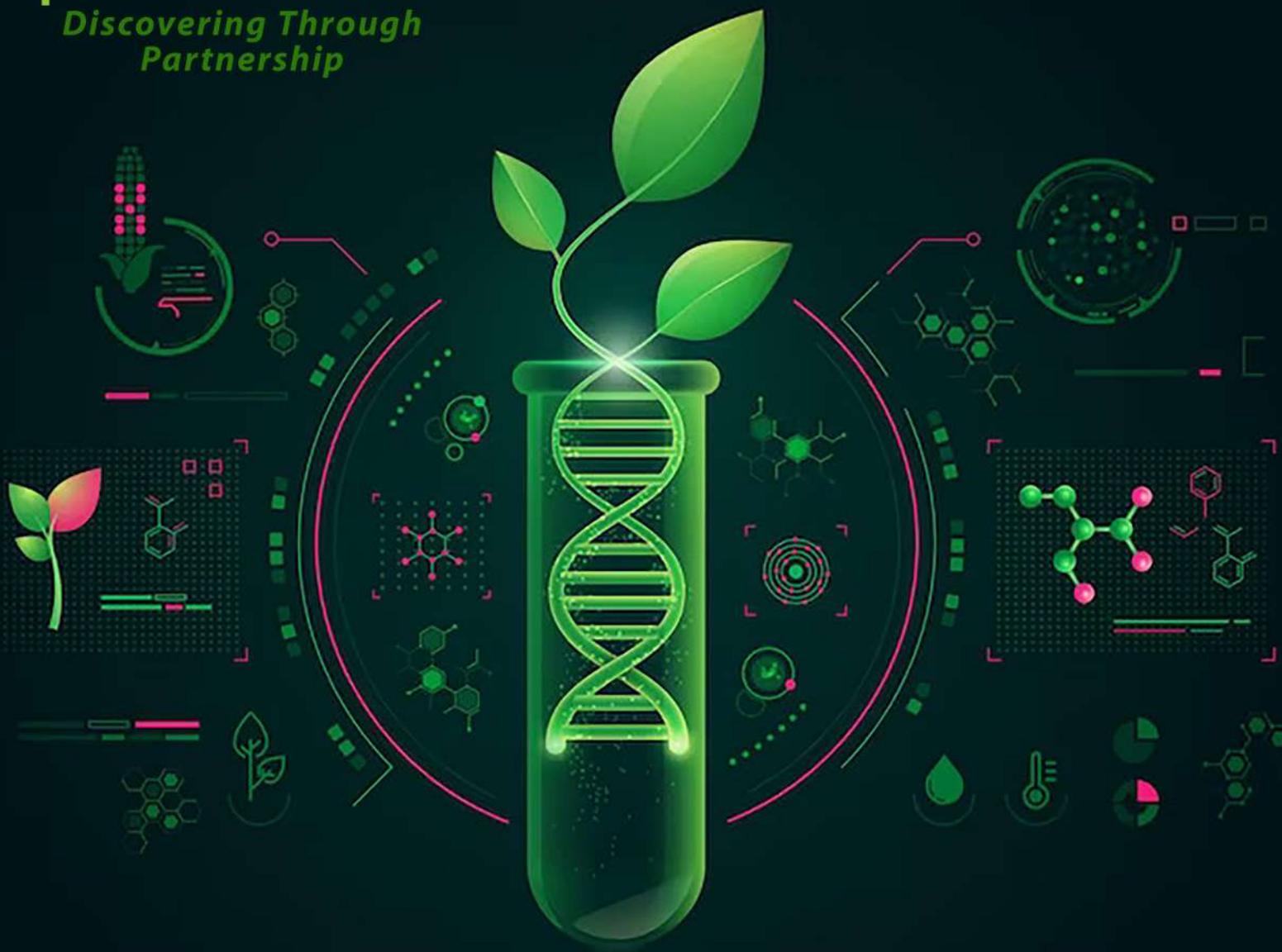




# GBP today

GUWAHATI  
BIOTECH PARK

*Discovering Through  
Partnership*



## July-September, 2023

## Joint IPR workshop with NRDC

The third IPR workshop under the Rashtriya Boudhik Sampada Mahotsav was jointly organised with NRDC at GBP on 19th July 2023. The workshop highlighted the importance of IPR as a strategic business tool to enhance Industrial Competitiveness across the world. The event was conducted in the form of interactive sessions which was delivered by distinguished professionals from the IP community and helped to enrich and bring awareness amongst the individuals attending the workshop. Speakers from DSIR, FINER, ASSAC, NLUJA, IPO, and ICC enlightened the participants with their insights and experiences. A lively interaction with the participants from various sectors such as industries, MSMEs, farmers, artisans, researchers and academia, students from both colleges and universities was also conducted.



## World Bio Fuel Day

World Bio Fuel Day 2023 was successfully organized and celebrated at GBP by Blue Core Energy (Redlemon Technologies Pvt. Ltd) in association with Honda (Spectrum Honda) with support from NECTAR, Govt. of India and Industry and Commerce Dept. Govt. of Assam.

Mr. Pankaj Gogoi, founder of Blue Core Energy started with the welcome address and shared the insights of organizing the World Bio Fuel day in Guwahati for the first time and showcased the 5TPD CBG plant initiative across Guwahati region to convert wastes to energy. Mr. Sajjad Alam, Joint Secretary to Industries and Commerce and Public Enterprise, Govt. of Assam, Mr. Narendra Sarawgi, Sr. Policy Advisor, ARIAS Society, Govt. of Assam,

Dr. Loh Siawee, Sobono Energy, Singapore, Mr. Simanta Das, Chief Radio Officer, NECTAR also provided their valuable insights during the program.

A discussion was undertaken where in GBP, Blue Core Energy and Sobono Energy will work to find a solution for the landfill at Boragaon, Guwahati to make the city cleaner. Dr. Bula Choudhury, SS, GBP initiated the discussion and the team will work with the support of different stakeholders on the problem. Mr. Abinash Kumar, ADE, (NRDC) showcased the IPR benefits and offerings for start-ups and entrepreneurs during the program.



## Ozone Day Celebration at GBP

We celebrated Ozone Day with ASTEC and our guests Shri Keshab Mahanta, Hon'ble Minister, ST&CC Department; Smt. Laya Madduri, IAS, Secretary, ST&CC Department; Dr. Jaideep Baruah & Dr. S.S. Kundu. They inspired us to protect the ozone layer & fight climate change. We also had a quiz and a plantation drive in GBP as part of the program.



## Workshop in Birjhora Mahavidyalaya, Bongaigaon

A team of officials comprising of Dr. Bula Choudhury, SS, GBP, Dr. Rajiv Ch. Dev Goswami, RA, GBP and Mr. Kamal Gaudi, SA, GBP were invited as resource persons for two



day workshop on “Basics of Bioinformatics” from 29-30th September 2023 organized by Department of Zoology, Birjhora Mahavidyalaya, Bongaigaon.

Degree students of Science streams from Birjhora Mahavidyalaya and students from Pandit Deendayal Upadhyaya Adarsha Mahavidyalaya, Bongaigaon, were present during the program, where GBP officials delivered a lucid explanation and presentation on Bio-entrepreneurship, Applications of Bioinformatics including an interactive practical session. The program was as a part of faculty and students exchange program and new education policy under MOU signed between the organizations.

## Popular Talk on “Bio-Entrepreneurship: Bridging Science and Business”

Dr. Saurav Dey, Scientist, GBP was invited to deliver a popular talk on “Bio-Entrepreneurship: Bridging Science and Business” on 27th September 2023 in the incubation centre of North Gauhati College, North Guwahati. A number of students from the departments of Botany, Zoology, Mathematics and Physics attended the program along with a number of faculty members of the college.



## New Incubatee joining

Our new incubatee EREC India Research Lab (an NABL accredited lab) joined GBP on 1st September 2023. Promoter cum CEO Dr. Mahidhar Pathak, Mr. Pritam Pathak and his team along with GBP officials and other resident incubates of GBP, were present as part of the inaugural ceremony.



## Internships

Four Post Graduate students from Adamas University Kolkata underwent one-month Internship on the topic “Basic techniques in Molecular Biology, Microbiology and application of sophisticated analytical instruments” under supervision of Dr Saurav Dey, Scientist GBP and Dr Prajjalendra Barooah, RA, GBP. The students were Mr. Sayantan Ghosal, Mr. Sayan Ghosh, Mr. Abhijit Manna and Mr. Rahul Ganguly.



## **Biomolecule Profiling, Phytochemical Analysis and Antimicrobial Assay**

Ms Krishita Sarma, M.Sc Microbiology, Amity University, Uttar Pradesh and Ms Ishika Jain, B.Sc Biotechnology, Amity University, Rajasthan, have successfully completed their internship at GBP. They have worked on a project on “Herbal Extraction, Biomolecules Profiling technique and Antimicrobial Assay” from 1st June - 28th July under supervision of Dr Bula Choudhury, SS, GBP and Dr Rajiv Ch. Dev Goswami, RA, GBP.



## **Bio-surfactant Production**

Ms Sneha Choubey, Mr. Aayush Paul and Ms Srijita Das from Royal Global University have completed their summer internship at GBP on a fascinating project on “Valorization of Food Waste as Substrate for Biosurfactant Production using Bacillus paramycoides” from 5th – 25th July under supervision of Dr Bula Choudhury, SS,GBP and Dr Rajiv Ch Dev Goswami, RA, GBP.



## Phytochemical Analysis of Few Medicinal Plants of NE Region and Their Antimicrobial Assay

Ms Bidisha Biswas and Ms Sushmita Boro, M.Tech students from IIT, Kharagpur, have successfully completed their project work on “Bio-molecular profiling and phytochemical analysis of few medicinal plants of North-East region and their antimicrobial activities” from 15th June – 28th July at GBP under supervision of Dr Bula Choudhury, SS, GBP and Dr Rajiv Ch Dev Goswami, RA, GBP.



## Microbiology, Molecular Biology and Imaging Techniques

The summer internship program on “Microbiology, Molecular Biology and Imaging Techniques” was conducted for the month of July under supervision of Dr Bula Choudhury, SS, GBP and Dr Rajiv Ch Dev Goswami, RA, GBP, from 1st-15th July. Sharmistha Deb, Simran Barua, Keni Das, Hiakshi Saloi, Nurjahan Begum, Sangita Barman from Cotton University and Mahmuda Aman Haque from Gauhati university participated in the program.



## Extraction Techniques, Identification of Phytochemicals and Antimicrobial Assay

Ms. Rafia Farooque from University of Science and Technology, Meghalaya and Ms. Trishna Kashayap from Birjhora Mahavidyalaya, Bongaigaon, completed their internship program on “Extraction Techniques, Identification of Phytochemicals and Antimicrobial Assay “ under supervision of Dr Bula Choudhury, SS, GBP and Dr Rajiv Ch Dev Goswami, RA, GBP from 15th -28th July, 2023.



## Molecular Biology, Microbiology and Bioinformatics

Another summer internship program on “Molecular Biology, Microbiology and basics of Bioinformatics” for the month of July under supervision of Dr Bula Choudhury, SS, GBP and Dr Rajiv Ch. Dev Goswami, RA, GBP was conducted at GBP from 16th – 31st July, 2023. The participants from various institutes joined the program and acquired knowledge on the different techniques of Microbiology, Molecular Biology and Bioinformatics. Mr. Partha Pratim Das, Jochuyhunle Khing from Assam Royal Global University, Anlizo Kezo, Takam Akash, Lanoi Nobin, Madhurjya Borah, Iftiker Hussain Ahmed, Usha Rani Bora from Assam Don Bosco University, Bhanita Bora and Rimpi Dhar from Cotton University joined the program.



## Summer internship

Ms. Suari Debbarma and Ms. Insan Hamesha Lyndem, have successfully completed their internship program on Herbal extraction, biomolecule Profiling and basics of Molecular Biology at GBP from 3rd August to 8th September, 2023 under supervision of Dr Bula Choudhury, SS, GBP and Dr Rajiv Ch. Dev Goswami, RA, GBP.



## Basic techniques of Molecular Biology and Microbiology

Five students of BSc Biochemistry and Biotechnology from Adamas University, Kolkata underwent a 2-week internship on “Basic techniques of Molecular Biology and Microbiology” from 1st -15th July under supervision of Dr Saurav Dey, Scientist GBP and Dr Prajjalendra Barooah, RA, GBP. The students were Ms. Soumya Maity, Mr Ankan Dinda, Ms Soumili Pati, Ms Anwesha Mandal and Mr. Kanistha Kashiv.



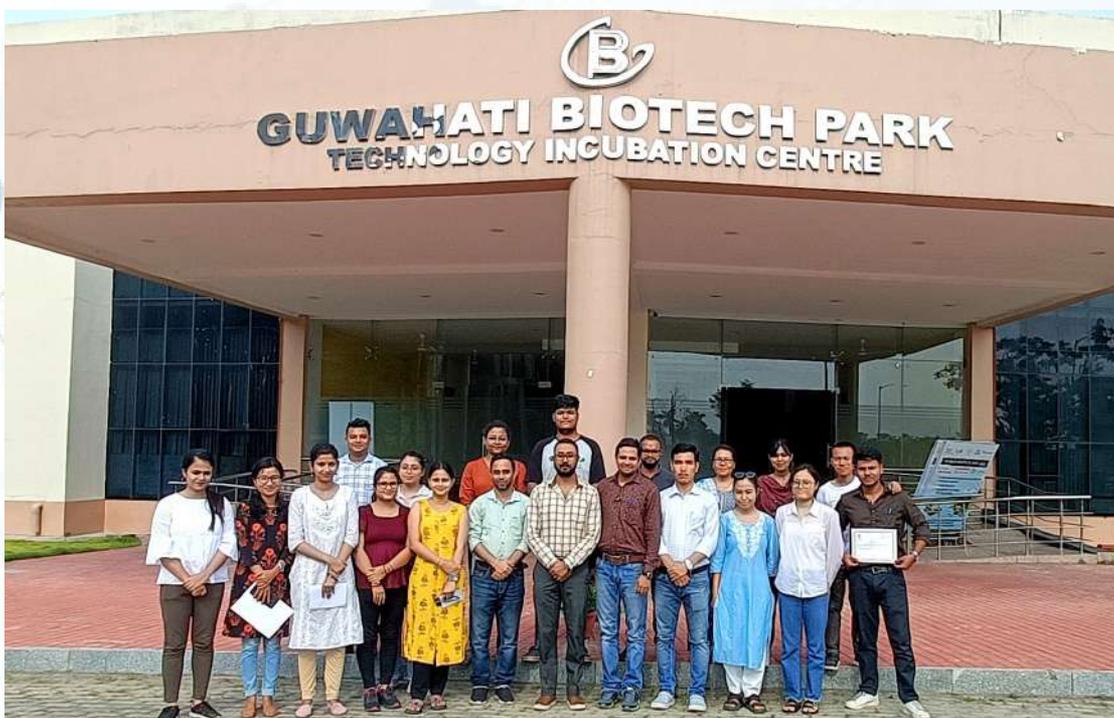
## Bioinformatics and phytochemical analysis

Two Post Graduate students Mr. Sayantan Ghosal and Mr. Sayan Ghosh, of MSc Biotechnology, Adamas University Kolkata underwent one-month Internship on the topic “Application of Bioinformatics in Biological Sciences & phytochemical analysis of Important Medicinal Plants”. The students were supervised by Dr. Saurav Dey, Scientist, GBP and Dr. Prajjalendra Barooah, RA, GBP.

## Training programs

### Training program on HPLC and GCMS techniques

A hands-on training program on HPLC and GCMS techniques was held at GBP on 10th and 11th August, 2023 under supervision of Dr Saurav Dey, Scientist, GBP and Dr. Rajiv Ch. Dev Goswami, RA, GBP. Many participants from various academic and professional backgrounds across the state have joined and successfully completed the program. During the program, participants also interacted with GBP's incubates and observed their various scientific endeavors.



### Training program on Advanced Molecular Biology

GBP in collaboration with SHRM Biotechnologies Pvt Ltd. Conducted a joint one-week hybrid Session, training on "Advanced Molecular Biology". A one-day dedicated session on "Primer designing in Molecular Biology" in online mode was conducted by Dr. Prajjalendra Barooah, RA, GBP during the training. Candidates were awarded a joint certificate and the top three students visited GBP to get a glimpse of all the sophisticated instruments GBP on 13-14th July 2023.



## Bioinformatics Training

A one day hands-on Training program on “Basics of Bioinformatics” was held on 22nd September 2023 for students of Asian Institute of Management and Technology, Guwahati in the Bioinformatics Facility of GBP. 17 students participated in the program which was conducted by Dr. Prajjalendra Barooah, RA, GBP and Dr. Saurav Dey, Scientist, GBP.



## Training On Mushroom Production and Processing At KVK, Kamrup

Mr. Kamal Gauli, SA, GBP attended in a two-day training on mushroom production and processing at KVK Kamrup on 18th – 19th July. The training was conducted by Dr. Madhusmita Kotoky, Scientist, KVK, Kamrup, and her team. The training was focused on how to farm mushroom production, also their value addition by various processing.



## Signing of MOUs

### Girijananda Institute of Pharmaceutical Sciences

GBP has recently signed a MOU with Girijananda Institute of Pharmaceutical Sciences for knowledge exchange and conduction of joint training, workshops and internship programs for their students in the various fields of life science and entrepreneurship development. As per the MOU, there will be various mutual academic and research endeavours for the benefit of the students and the faculty members.



### Biswanath College

GBP recently signed a MoU with Biswanath College, Biswanath Chariali, Assam. Mr. Ajoy Kumar Dey, Asst. Professor and Dr. Debashish Sharma, Asst. Professor, Dept. of Physics; Dr. Nilofer Sheikh, Asst. Professor, Dept. of Botany; Dr Sunayana Goswami, Asst. Professor, Dept. of Zoology, Biswanath College, visited GBP on 29th August, 2023. They interacted with GBP staff and were keen towards collaborative academic as well as research programs in future. Through the MOU, there will be various academic/research endeavours that will benefit both the students and the faculty members of the institutions.



### North Gauhati College

GBP has recently signed a MOU with North Gauhati College for knowledge exchange and conduction of joint training and internship programs for their students in the various fields of life Science and entrepreneurship development.

## iDEATE-23

A Boot Camp of iDEATE-23 “an event for innovation” was organized at GBP on 4th July 2023. Participants were thrilled to know about the funding opportunities and had a great time learning from each other and interacting with delegate from IIT Guwahati Research Park.



## Grant Writing Workshop

GBP in association with KIIT TBI organized a session on Grant Writing for BIG 23rd Call on 12th July 2023 in online mode. A number of participants joined the session to get useful advice on grant writing for BIG Grant proposals.



### BIG –23RD CALL GRANT WRITING SESSIONS

Join us to know everything about the BIG application and the tips to succeed!



**Wednesday, 12th July 2023**  
**11:00 A.M to 01:00 P.M**

#### TOPICS-TO-BE-COVERED

- About the incubator
- Approach to a successful grant writing.
- Navigating through the BIG application components-
- Benefits of choosing KIIT TBI as a partner
- Taking up the queries

Register at:

<https://cutt.ly/GuwahatiBiotechPark>



## Visit by officials from Software Technology Park of India

Smti Vandana Srivastav, Director, Software Technology Park of India, Guwahati & team visited GBP on 7th July 2023. During their visit discussion took place regarding various ways to collaborate and scale up the Agritech start-up ecosystem in the region.



## Visit by Dr Chayanika Deka Nath

Dr Chayanika Deka Nath, MD & CEO M/S Labdig Innovations and Systems Pvt. Ltd. and her team visited GBP for future association in developing a next gen microscope. Dr Chayanika has already developed a prototype which she showed to GBP team for a valuable feedback to improve its different working aspects. The company's main goal is to commercialize alternative microscopic tools for various fields of applications.



## Exposure Visits

### St. Joseph University, Nagaland

Students from the Department of Biotechnology, St. Joseph University, Nagaland, accompanied by faculty members visited GBP on 22nd September, 2023. The students visited the equipment facilities and laboratories at GBP and also interacted with our scientific staff and learnt the working of various sophisticated analytical instruments at GBP labs. The group also visited modular laboratory division of our resident incubates and observed their research activities.



### Visit from Dept. of Zoology, Kokrajhar Govt. College

Graduate students from the Department of Zoology, Kokrajhar Govt. College, Kokrajhar, Assam, accompanied by Dr Nijira Brahma and Mrs Moromita Roy, Faculty, Kokrajhar Govt College visited GBP on 26th-27th September, 2023 for an exposure cum hands-on training session on basic techniques in Molecular Biology. The program was supervised by Dr. Bula Choudhury, SS, GBP and Dr. Rajiv Ch. Dev Goswami, RA, GBP.

Students got a chance to visit all the facilities as well as observe the working of various research equipments available at GBP. They also visited labs of our resident incubates and had an interaction with them about their startup

journey and research activities. They carried out practicals on Isolation of genomic DNA and plasmid DNA from E. coli; Restriction digestion of plasmid DNA; Calculation of transformation efficiency from the data provided and demonstration of various instruments (PCR, ELISA, Electrophoresis, Blotting techniques).



**Student exposure visit to GBP under CM’s AAROHAN Scheme:**

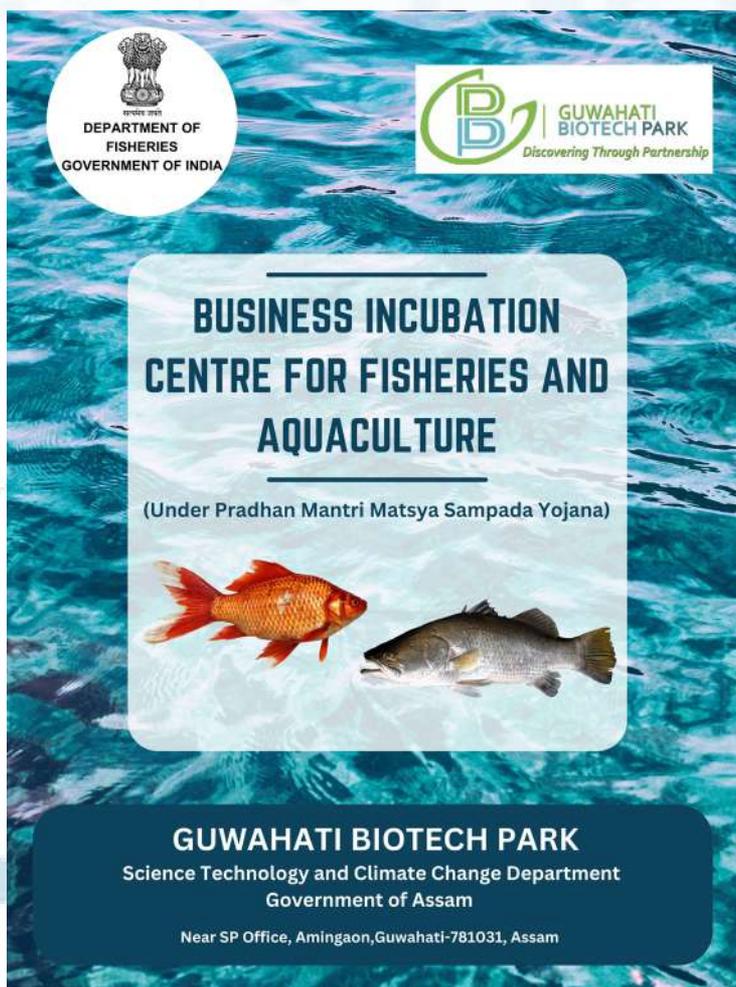
The Government has initiated “AAROHAN’ program which is an ambitious program to improve the quality of Secondary Education segment for the identification of talented students from the remote, rural and poor families for the mentoring and monitoring of their academic career. The students from different districts are visiting various institutes in the state and getting exposure to various Scientific and cultural activities ongoing in the state. Under this initiative student from a number of districts have visited GBP.

Nagaon and Hojai Districts	8th September	295 students
Biswanath and Sonitpur Districts	14th September	256 students
Udalguri and Darrang Districts	16th September	282 students
Jorhat and Dima Hasao Districts	21st September	223 students
Baksa and West Karbi Anglong Districts	27th September	235 students



## Setting up Business Incubation Center in Fisheries and Aquaculture (BICFA) under PMMSY at GBP

GBP has been granted a new project entitled “Business Incubation Centre for Fisheries and Aquaculture” under Pradhan Mantri Matsya Sampada Yojana (PMMSY) Ministry of Fisheries, Govt. of India. This will be the First Business Incubation Centre for Fisheries and Aquaculture in North East India.



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**Editor : Dr. Prajjalendra Barooah, Research Associate, GBP**

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