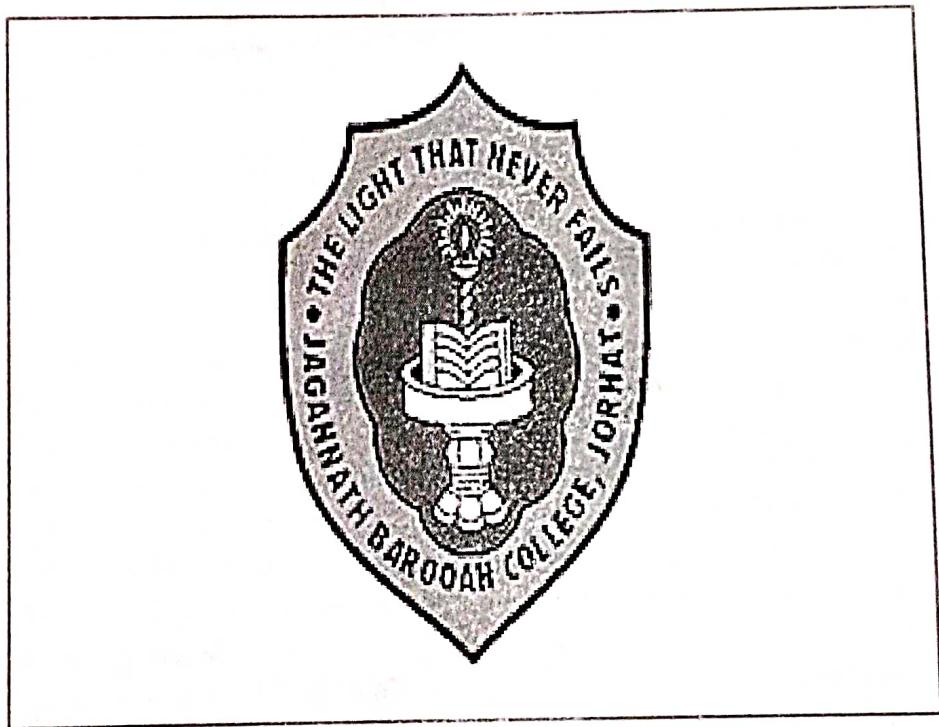


ANNUAL REPORT 2022-2023
ECO CLUB
J.B. COLLEGE (AUTONOMOUS)



Liza Handique
10/6/23

(Dr. Liza Handique)
Co-ordinator
ECO CLUB
J. B. College (Autonomous), Jorhat

Utpal Jyoti Mahanta
16/06/2023

(Dr. Utpal Jyoti Mahanta)
Principal
J. B. College (Autonomous)
Jorhat, Assam

REPORT ON “WORLD BIODIVERSITY DAY” CELEBRATED ON 22ND MAY, 2022 BY ECO CLUB, JAGANNATH BAROOAH COLLEGE (AUTONOMOUS)



22nd May, 2022: World Biodiversity day

World biodiversity Day or International day of Biological diversity is celebrated each year on 22nd May to increase understanding and awareness of biodiversity issues. This year the theme is “Building a shared future for all life.” ECO Club in collaboration with Botanical Society of J.B.College (Autonomous) organised a special day to commemorate the International Day for Biological Diversity, an annual event of the United Nations Calendar on May 22 at J.B.College (Autonomous), Jorhat. The event started off with a mass plantation of a variety of orchids on the college premise by students and faculty of the college. This was soon followed by a popular talk programme on “ Orchid biodiversity of North East India” delivered by Dr.Bhaskar Buragohain, HoD, Department of Botany, Mariani College, Jorhat. The inaugural session was formally declared as open with a warm welcome address by Dr. Utpal Jyoti Mahanta, Principal of the college. Dr.Bhaskar Buragohain began with interesting facts on orchids and its species. NE India alone is home to more than 900 species of orchids out of the total 1,350 species found in our country, pointed out Dr. Buragohain. At the same time, he stressed on its medicinal utilities known and practised in many parts of the region. He also emphasised collective action towards sustainable environment while aiming for orchid conservation.

After a delightful session with interaction among participants, an exhibition cum competition of poster and photography was held with over hundred competitors. A skit themed on ‘Creating a plastic-free environment’ was performed by students that won hearts of the large audience and tried to generate a positive energy for joining hands in rebuilding a safer green environment. The declaration of the winners in the competition was eventually made which also marked the end of the event for the day.



A



B



C

Pic Plate 1(A-C): Orchid plantation programme in the college campus



A



B



C



D



E

Pic Plate 2: A- Group photo of the talk programme on “Orchid diversity of N.E. India”; B,C- Lecture by Invited speaker; D,E- Part of the audience of the talk programme



A



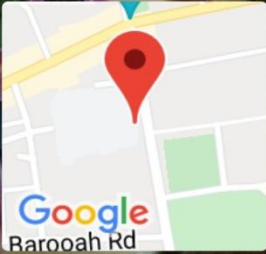
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C



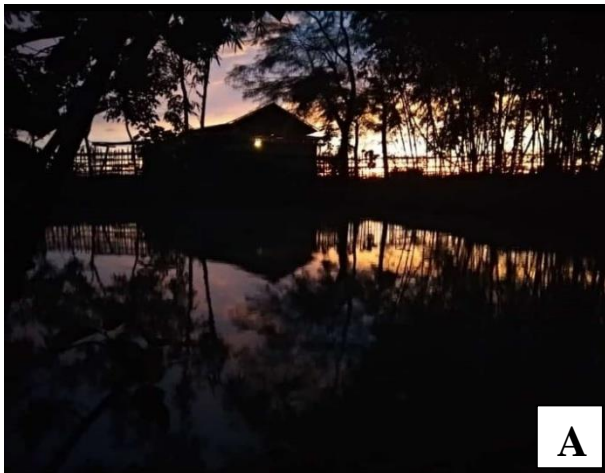
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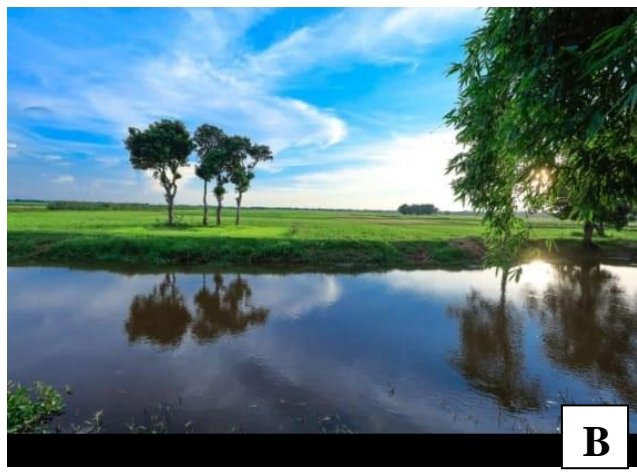
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 Jorhat, Assam 785001, India
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Pic Plate 3: A- Team of street play who acted on use of plastic; B- Poster competition; C- Photography Competition; D- Viewer's of the competition.

Winners of Photography competition along with the photographs



A



B



C



D



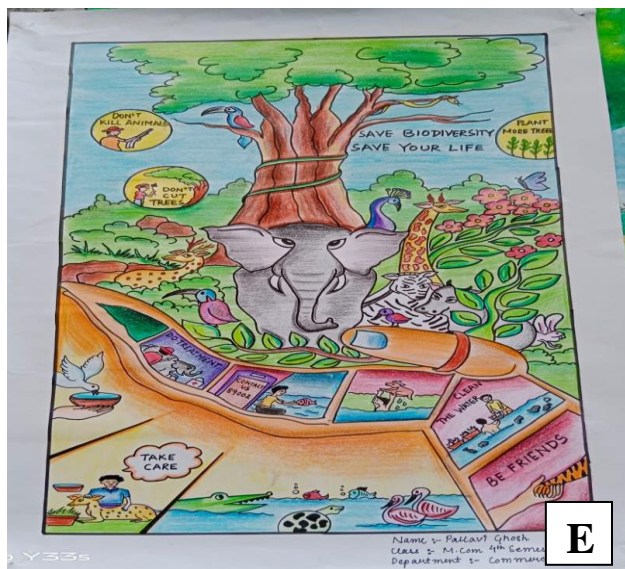
E



F

Pic Plate 4: A- 1st prize (Isha Sonowal), B- 2nd prize (Kasturi Bhuyan); C- 2nd prize joint (Abhihotry Bharadwaj); D-3rd Prize (Bhargav Changmai); E- Consolation Prize (Daisy Sharma); F- Consolation Prize (Upasha Roy)

Winners of poster competition



Pic Plate 5: A- - 1st prize (Priyanka Sharma), B- 2nd prize (Triveni Sonowal); C- 3rd prize (Bhagyashree Hazarika); D-Consolation Prize (Baishali Borah); E- Consolation Prize (Pallavi Ghosh)

**A REPORT ON
WORLD ENVIRONMENT DAY CELEBRATION IN
JAGANNATH BAROOAH COLLEGE
(AUTONOMOUS),
JORHAT, ASSAM**



c

**ECO CLUB OF JAGANNATH BAROOAH COLLEGE
(AUTONOMOUS) CELEBRATES**



**WORLD
ENVIRONMENT
DAY**

**ALONG WITH NCC, NSS, J.B. COLLEGE WOMEN CELL AND GREEN
PLUS SOCIETY OF J.B. COLLEGE (AUTONOMOUS)**

IN COLLABORATION WITH

JORHAT SCIENCE CENTRE AND PLANETARIUM

DATE: 5TH JUNE, 2022

**A SEMINAR ON
UNDERSTANDING OF CARBON -DIOXIDE, GREEN HOUSE GASES AND
CLIMATE CHANGE**

Organised by
ECO CLUB along with NCC, NSS, J.B. College Women cell and Green Plus Society of
Jagannath Barooah College (Autonomous)
In collaboration with
Jorhat Science Centre and Planetarium, Jorhat, Assam



INVITED SPEAKER
DR. PRANABJYOTI CHETIA
CURATOR & I/C
JORHAT SCIENCE CENTRE AND
PLANETARIUM,
JORHAT., ASSAM, INDIA



Date: 5th June, 2022,
Time : 11 A.M. Onwards
Venue: Auditorium (Jorhat Science Cen-
tre and Planetarium), Jorhat



INVITED SPEAKER
DR. VIPIN PARKASH
SCIENTIST F & HEAD OF THE DI-
VISION , PLANT PATHOLOGY
FOREST RESEARCH INSTITUTE
DEHRADUN, INDIA



TREE PLANTATION PROGRAMME

On the occasion of



Only One Earth

**WORLD
ENVIRONMENT
DAY**

5th June, 2022

Organized by
ECO CLUB along with NCC, NSS, J. B. College Women Cell & Green Plus Society
J. B. College (Autonomous), Jorhat
In Collaboration with
Jorhat Science Centre & Planetarium, Jorhat

5th of June, 2022:

World Environment Day (WED) is celebrated annually on 5 June and is the United Nations' principal vehicle for encouraging awareness and action for the protection of the environment. First held in 1973, it has been a platform for raising awareness on environmental issues such as marine pollution, overpopulation, global warming, sustainable development and wildlife crime. World Environment Day is a global platform for public outreach, with participation from over 143 countries annually. Each year, the program has provided a theme and forum for businesses, non government organizations, communities, governments and celebrities to advocate environmental causes. The theme of World Environment day 2022 is “**Only One Earth**” Under this theme, World Environment day was observed, highlighting the need to live sustainably in harmony with nature. This day provides us with an opportunity to take responsible steps to preserve and enhance the environment.

This year too, World environment Day was celebrated in the college with a detailed programme schedule. ECO CLUB of the College along with NCC, NSS, J.B. College Women cell and Green Plus Society in collaboration with Jorhat Science Centre and Planetarium celebrated the day. The celebration started with a plantation programme on 2nd of June, 2022. Around 20 saplings were planted in the main campus and commerce campus of the college. The planted saplings were mostly tree species viz. *Mimusops elengi*, *Delonix regia*, *Terminalia chebula*, *Syzygium cumini*, *Caesalpinia pulcherrima*, *Psidium guajava* and *Syzygium jambos*. Altogether 20 students participated in the plantation programme (Plate 1).

The next programme was a human rally that started from the J.B. College (Main campus) to the District Science centre and Planetarium on 5th of June, 2022. Altogether 90 students and 7 teacher members participated in the event (Plate 2). Around 20 NCC cadets and 15 NSS members, 50 members of ECO CLUB along with the members of the J.B. College Student Union actively participated in the event. A slogan Competition was also organised in the rally and three students were declared as winners of the slogan competition. The award winning slogan was “Stop littering the Lungs of Earth.”

Followed by Slogan Competition, a street play was performed by NSS members in the streets of Baruah Chari-Ali, Jorhat (Plate 3). The theme of the play was “Earth- Our Home.” In the play the members showed the process of origin and evolution of mother earth, the layers of atmosphere and how green house gases have affected the ozone layer and lastly the effect of man made activities in the depletion and degradation of the earth’s atmosphere and gradual loss of biodiversity.

After reaching the Jorhat Science centre and planetarium, a light refreshment was given followed by a seminar on “Understanding of Carbon –di-oxide, green house gases and climate change.” in blended mode, i.e. both online and offline mode (Plate 4). Altogether 120 participants joined the seminar in offline mode and 7 participants in online mode. The seminar hosted by Lalsanlevis Nampui started with a welcome address by the respected Principal Sir of the college, Dr. Utpal Jyoti Mahanta followed by a lecture by Dr. Pranabjyoti

Chetia, Curator and i/c of the District Science centre and Planetarium . He presented his lecture on “Threats on anoxic ocean.” He emphasized on the affect of anthropogenic activities on the ocean life. **Oceanic anoxic events** or **anoxic events** (anoxia conditions) describe periods wherein large expanses of Earth's oceans were depleted of dissolved oxygen (O₂), creating toxic, euxinic (anoxic and sulfidic) waters. He described how these events have affected the marine life and ultimately leading to depletion of marine resources. The next seminar presentation was given by Dr. Vipin Parkash, Scientist F and Head of the Division of Plant Pathology, Forest Research Institute, Dehradun, India. He is also the M.Sc Program Co-ordinator of Forest Research Institute (Deemed) University. He delivered his lecture on the “Effect of green house gases and climate change in the Forest resources.” He showed in his power point presentation how natural resources specially forest resources have depleted in the short span of time and the effect of environmental degradation in the forest resources. Moreover he also pointed out the chief ways to mitigate the climate change. He also further spoke about the role of beneficial microorganisms such as PGPR, PGPF, endophytes and endomycorrhizae in the growth and development of forest trees and how they play vital role against the ill effects of deforestation. The student members and other participants were highly benefitted from the seminar.

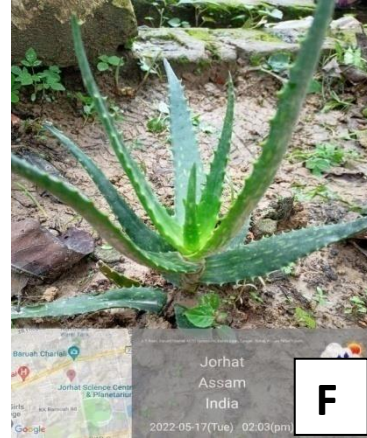
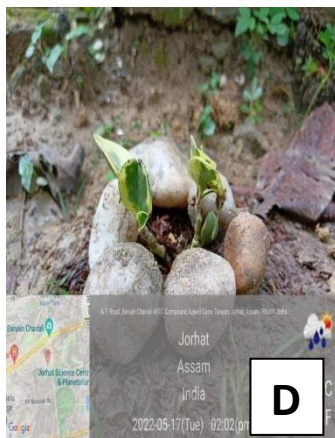
At the end of the programme, a short film was screened named “Carry bag.” The film was directed by Dr. Dibya Jyoti Bora based on environmental pollution with special emphasis on Plastic Pollution. Lastly the programme came to an end with the prize distribution ceremony, where the winners of the Photography competition and Poster competition organised by ECO CLUB on the occasion of world Biodiversity day on 22nd May, 2022 were presented with a trophy and certificate. At last the program came to an end with a Vote of thanks given by Dr. Liza Handique Bhattacharyya, Co-ordinator, ECO CLUB, J.B. College, Jorhat, Assam.

An inventory was also prepared in which the floral diversity of the J.B.College Campus (Main campus and commerce campus) was assessed on that day post seminar. The list of plants present in the campus are documented in the table 1 below. Some of the species in the college campus are shown in the pic plate below.

Table 1: List of plant species in the campus of J.B. College

Sl no.	Local Name	Scientific name	Family
1	Neem	<i>Azadirachta indica</i>	Meliaceae
2	Bokul	<i>Mimusops elengi</i>	sapotaceae
3	Devadaru	<i>Polyalthia longifolia</i>	Annonaceae
4	Aam	<i>Mangifera indica</i>	Anacardiaceae
5	Aamlokhi	<i>Emblica officinalis</i>	Phyllanthaceae
6	Krishnachura	<i>Delonix regia</i>	Fabaceae
7	Sashi	<i>Aquilaria malaccensis</i>	Thymelaeceae
8	Kanchan	<i>Bauhinia variegata</i>	Fabaceae
9	Hunaru	<i>Cassia fistula</i>	Fabaceae
10	Silikha	<i>Terminalia chebula</i>	Combretaceae
11	Jamu	<i>Syzygium cumini</i>	Myrtaceae

Sl no.	Local Name	Scientific name	Family
12	Palm	<i>Areca sp.</i>	Arecaceae
13	Bogori	<i>Zizyphus mauritiana</i>	Rhamnaceae
14	Radhachura	<i>Caesalpinia pulcherrima</i>	Caesalpinaceae
15	Palash	<i>Butea monosperma</i>	Fabaceae
16	Tulsi	<i>Ocimum sanctum</i>	Lamiaceae
17	Madhuri	<i>Psidium guajava</i>	Myrtaceae
18	Boga jamu	<i>Syzygium jambos</i>	Myrtaceae
19	Posotia	<i>Vitex negundo</i>	Lamiaceae
20	Jom lakhuti	<i>Cheilocostus speciosus</i>	Zingiberaceae
21	Boga bahok	<i>Adhatoda vasica</i>	Acanthaceae
22	Bird's of paradise	<i>Heliconia rostrata</i>	Heliconiaceae
23	Arjuna	<i>Terminalia arjuna</i>	Combretaceae
24	Joba	<i>Hibiscus rosa-sinensis</i>	Malvaceae
25	Kordoi	<i>Averrhoa carambola</i>	Oxalidaceae
26	Kaju	<i>Anacardium occidentale</i>	Anacardiaceae
27	Sewali	<i>Nyctanthus arbour tristis</i>	Oleaceae
28	Nuni	<i>Morus alba</i>	Moraceae
29	Kaji nemu	<i>Citrus lemon</i>	Rutaceae
30	Jolfai	<i>Elaeocarpus serratus</i>	Elaeocarpaceae
31	Aam ada	<i>Curcuma amada</i>	Zingiberaceae
32	Halodhi	<i>Curcuma longa</i>	Zingiberaceae
33	Mussaenda	<i>Mussaenda erythrophylla</i>	Rubiaceae
34	Salvia	<i>Salvia officinalis</i>	Lamiaceae
35	Rose	<i>Rosa sp.</i>	Rosaceae
36	Khorikajai	<i>Jasminum officinalis</i>	Oleaceae
37	Ashok	<i>Ixora coccinea</i>	Rubiaceae
38	Hasnahana	<i>Cestrum nocturnum</i>	Solanaceae
39	Robab	<i>Citrus maxima</i>	Rutaceae
40	Mediterranean cypress	<i>Cupressus sp.</i>	Cupressaceae
41	Latuguti	<i>Gnetum gnemon</i>	Gnetaceae
42	Pine	<i>Araucaria sp.</i>	Araucariaceae
43	Sal kunwori	<i>Aloe vera</i>	Asphodelaceae
44	Hagor fena	<i>Opuntia dillenii</i>	Cactaceae
45	Cactus	<i>Cacti sp.</i>	Cactaceae
46	Pate goza	<i>Kalanchoe pinnata</i>	Crassulaceae
47	Kapou phul	<i>Arundina graminifolia</i>	Orchidaceae
48	Kapou phul	<i>Rhynchosyris sp.</i>	Orchidaceae
49	Kapou phul	<i>Dendrobium sp.</i>	Orchidaceae
50	Kapou phul	<i>Phylonaenthe tere</i>	Orchidaceae



PIC Plate : A- *Dendrobium anosmum*, B, C- *Papilionanthe teres*, , D- A succulent, E,F,G- Different varieties of *Aloe* sp.



Plate 1: Plantation programme in the main campus and commerce campus of the College



Plate 2: Rally and slogan competition from College to District science centre and Planetarium.



Plate 3: A glimpse of street play

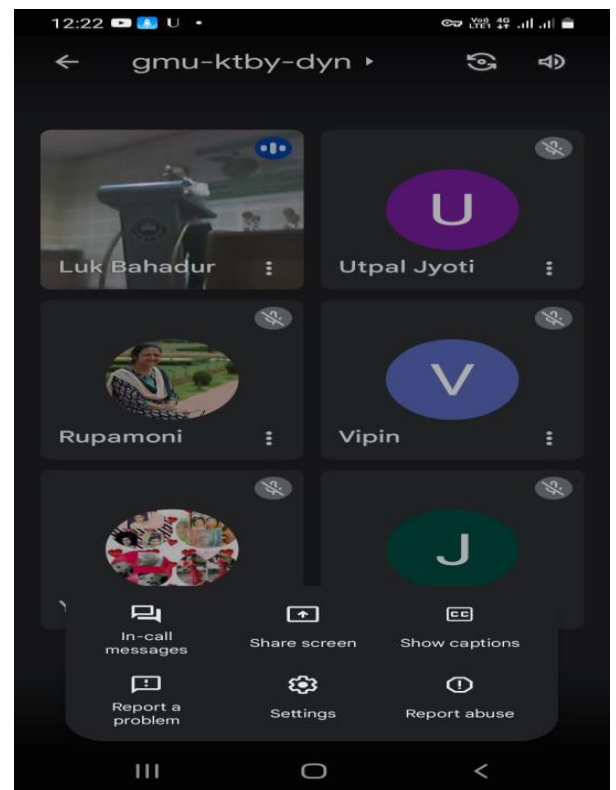


Plate 4: A glimpse of the seminar in blended mode (both online and offline)

MASS PLANTATION AND ENVIRONMENTAL AWARENESS PROGRAMME IN NEW RAM TERANG VILLAGE, KARBI ANGLONG

**A MASS PLANTATION AND ENVIRONMENTAL AWARENESS PROGRAMME
IN NEW RAM TERANG VILLAGE, KARBI ANGLONG
ORGANIZED BY
ECO CLUB, JAGANNATH BAROOAH COLLEGE (AUTONOMOUS)
JORHAT, ASSAM
IN COLLABORATION WITH DISTRICT FOREST OFFICE (KARBI ANGLONG)**



**UNDER
CHIEF MINISTER'S INSTITUTIONAL PLANTATION
PROGRAMME (CMIPP)
DATE: 15/07/2022**



On 15/7/2022, a mass plantation drive and environmental awareness program was being conducted by ECO club unit of J.B. College in collaboration with North Eastern Forest Range, Silonijan at New RAM TERANG Village, Nilip dev. Block Chowkihola, Karbi Anglong. The program was attended by 19 families of the village. It is worthwhile to mention that, villagers of this particular village earlier were living near to Eco sensitive zone and Elephant corridor of Kalapahar Digrung forest. These people are highly dependent on the forest resources for their living that can be easily procured from the forest which sometime leads to over cutting of trees and exploitation of forest resources which creates the problem of ecosystem unrest. Henceforth, this mass plantation and environmental awareness programme was undertaken to make the people understand of the rising environmental issues such as ground water depletion, pollution, global warming, deforestation etc. As the program was undertaken in collaboration with the Forest department, the program was highly fruitful one and we planted more than hundred tree saplings mostly fruit yielding, timber yielding, medicinal and economically important plants.



9-Days Workshop cum Skill Development Training Programme on Mushroom Cultivation and Agarbatti Production.



9 DAYS WORKSHOP CUM SKILL DEVELOPMENT TRAINING PROGRAMME ON MUSHROOM CULTIVATION AND AGARBATTI PRODUCTION.



Organised by
ECO CLUB along with Career counselling Cell of Jagannath Barooah College (Autonomous), Jorhat
In collaboration with
Rain Forest Research Institute, Jorhat, Assam



From 5/08/2022 to 12/08/2022

Venue: Jagannath Barooah College and Rain Forest Research Institute, Jorhat, Assam

ADVISORS



Dr. Utpal Jyoti Mahanta
Principal, J.B. College
(Autonomous)



Dr. R.K. Borah
Director
RFRI

Registration fees– Rs. 200 for students
Rs. 500 for faculty

To Register
Contact

Dr. Liza H. Bhattacharyya (8876044626)
Pronamika Mahanta (9435490497)
On or Before 3rd August, 2022

(OPEN FOR ALL)

RESOURCE PERSON



Dr. Prosanta Hazarika
Chief Technical Officer
RFRI, Jorhat



Dr. Rajesh Kumar
Scientist– E
RFRI, Jorhat

**Inauguration Schedule of 9-Days Workshop cum Skill Development
Training Programme on Mushroom Cultivation and Agarbatti
Production.**

Organised by ECO Club along with Career Counselling Cell, J. B. College
(Autonomous), Jorhat in collaboration with Rain Forest Research Institute
(RFRI), Jorhat.

Date: 5/08/2022

Time: 11 am- 12 pm

Venue: J.B. College Seminar Hall

11am-11:10 am: Introduction by the organisers.

11:10-11:20 am: Welcome Address by the Principal, J.B. College
(Autonomous) Jorhat

11:20-11:30 am: Felicitation of Chief Guest and Resource Persons

11:30-11:50 am: Word from the Chief Guest, Dr. R. K. Borah, Director of
RFRI.

11:50-12:00 pm: Vote of thanks by Dr. Simi Borah.

5th of August, 2022: 9 Days workshop cum Skill Development Training Programme on Mushroom cultivation and Agarbatti Production.

Skill development training programmes are initiatives taken for overall development and growth of the apprentices. Skill development means a process which enables trainees and the working age people to gain access to dexterity, knowledge and ability, career ethics and good working attitude by skill training, establishing skill standards, and other relating activities. The development of skills can contribute to structural transformation and economic growth by enhancing employability and labour productivity and helping countries to become more competitive. Skill development and training helps instill emotional maturity in students. Thus keeping the above objectives in consideration, a 9 days' workshop cum skill development programme was organised by ECO Club along with Career Counselling Cell, J. B. College (Autonomous), Jorhat in collaboration with Rain Forest Research Institute (RFRI), Jorhat.

Rain Forest Research Institute (RFRI) is a research institute situated in Jorhat in Assam. It works under the Indian Council of Forestry Research and Education (ICFRE) of the Ministry of Environment, Forest and Climate Change, Government of India. This institute has been working tirelessly since its inception for the research and development of forestry and forest products in the North-eastern parts of India. With a Memorandum of Understanding (MoU) signed between J.B. College (Autonomous) and Rain Forest Research Institute, this workshop was organised to facilitate the knowledge and wisdom of the resource persons in the institute and also to avail and utilise the laboratory facilities of both the institutions.

The workshop started with the inauguration of the programme and introduction of the resource persons and invited guest by Lalsanlevis Nampui, a member of ECO CLUB, J.B. College (Autonomous) followed by the welcome Address by the Principal, Dr. Utpal Jyoti Mahanta, J.B. College (Autonomous) Jorhat. The Chief guest of the workshop, Dr. R.K. Borah, Director, RFRI, Jorhat and the respected resource persons Dr. Prosanta Hazarika, Chief Technical Officer and Dr. Rajesh Kumar, Scientist D, RFRI along with their colleagues Dr. Ajay Kumar, Scientist B and Deva Bora, Chief Technical Officer, RFRI, Jorhat were felicitated by the members of the organizing committee of the workshop with a "*Fulam Gamocha*" and a Memento. The Chief Guest was then asked to give the inauguration address and a few words were shared by the resource persons of the workshop. At last the inaugural session came to an end by the vote of thanks by Dr. Simi Borah.



Pic: A glimpse of the Inaugural Session

The workshop was then conducted according to the following technical schedule :

Technical Schedule of 9 days Workshop cum Skill Development Training Programme on Mushroom Cultivation and Agarbatti production.

Organised by
ECO CLUB along with Career Counselling Cell of Jagannath Barooah College (Autonomous), Jorhat
In collaboration with
Rain Forest Research Institute, Jorhat, Assam

From 5/08/2022 to 12/08/2022
Venue: Jagannath Barooah College and Rain Forest Research Institute, Jorhat, Assam

Date & Day	Activities	Resource person	Venue	Time
5/08/2022 Friday	Inauguration	Invited Guest Dr. R.K. Borah, Director, RFRI, Jorhat	J.B. College Seminar Hall	11 a.m. onwards.
5/08/2022 Friday	Theory Session I	Dr. Rajesh Kumar	J.B. College Seminar Hall	12 P.M-1.30 P.M
5/08/2022 Friday	Theory Session II	Dr. Prosanta Hazarika	J.B. College Seminar Hall	2P.M – 3 P.M
8/08/2022 Monday	Practical demonstration on Cultivation of mushroom	Dr. Rajesh Kumar	RFRI Campus	10 A.M- 3 P.M.
9/08/2022 Tuesday	Practical demonstration on Cultivation of mushroom.	Dr. Rajesh Kumar	RFRI Campus	10 A.M- 3 P.M.
10/08/2022 Wednesday	Post Harvesting handling, Packing and Marketing of Mushrooms.	Dr. Ajay Kumar	RFRI Campus	10 A.M- 3 P.M.
11/08/2022 Thursday	Jigat production and Agarbatti making	Dr. Prosanta Hazarika	RFRI Campus	10 A.M- 3 P.M.
12/08/2022 Friday	Jigat production and Agarbatti making	Dr. Prosanta Hazarika	RFRI Campus	10 A.M- 3 P.M.
12/08/2022 Friday	Valedictory Function		RFRI Campus	2 P.M to 3 P.M

*** Contents of theory Session I on Mushroom Cultivation

- Introduction
- Awareness on edible and Non edible Mushrooms.
- Information about Nutritional and Medicinal Properties.
- Selection of acceptable mushroom species.
- Secreting a good quality of fruiting culture.
- Development of robust spawns.
- Preparation of selective substrate.
- Care of Mycelial Spawn
- Management of fruiting / Mushroom development.
- Harvesting mushrooms carefully.

At last the valedictory session was conducted in the premises of Rain forest Research Institute, Jorhat, India. Dr. Utpal Jyoti Mahanta, Principal, J.B College (Autonomous), Subhashish Sharma and Ashrafuzzaman Choudhury, members of Career Counselling Cell , J.B. College (Autonomous) along with the members of ECO Club, J.B. College (Autonomous) and DR. R.K. Borah, Director, RFRI, Jorhat, Dr. Prosanta Hazarika, Chief Technical Officer, RFRI; Dr. Rajesh Kumar, Scientist D, RFRI and Dr. Runumi Borthakur, Chief Technical Officer, RFRI as representatives of RFRI, graced the occasion and provided certificates to the participants of the workshop. The session was hosted by Probenson Terang and the vote of thanks was given by Dr. Jayashree Nath, both are the members of ECO CLUB. With this the 9 Days workshop cum Skill Development Training Programme on Mushroom Cultivation and Agarbatti Production came to an end.



Plate I: A, B- Mushroom Cultivation; C,D: Agarbatti Production



Plate II: A: Demonstration of Bamboo Charcoal Production; B, C: A visit to the Bamboo processing Unit, D: A scene from the Valedictory session, E: A group photo of the participants along with the organizing committee and collaborating partners.

Chief Minister's Institutional Plantation Programme



Chief Minister's Institutional Plantation Programme

shyamaleechouhad.assam.gov.in

“সেউজী সেউজী সেউজী অ’
সেউজী ধৰণী খুনীয়া”

– জ্যোতিপ্ৰসাদ আগৰৱালা

17th July to 15th August, 2022

Venue

Dr. Himanta Biswa Sarma
Chief Minister, Assam

An initiative of

Science, Technology and Climate Change Department,

Coordinating Agency

Assam Science Technology and Environment Council

Climate change is the most pressing global environmental challenge faced by humanity today. Temperature rise, extreme weather events, like heavy rainfall, drought like situations, in recent times are some of the indicators of climate change impact. Northeast India which is the confluence of Eastern Himalayan and Indo-Burma biodiversity hotspots is highly vulnerable to climate change owing to its strategic location, fragile ecosystem, trans-boundary river basin and socio-demographic variables. However, plantation and natural regeneration of plants is the key to mitigate climate change. Therefore, a practical, sustaining and long lasting institutional plantation programme has been initiated by the Science, Technology and Climate Change Department covering all the departments under the banner "AMTRI BRIKSHYA- Chief Minister's Institutional Plantation Programme" (CMIPP) which was implemented from 17th July to 15th August 2022.

Altogether all the campuses of Jagannath Barooah College (Autonomous) viz. J.B. College Main campus, J.B. College Commerce Campus, Old girl's hostel and Boy's hostel respectively were chosen for plantation. Around 15 plant species belonging to various families were planted.

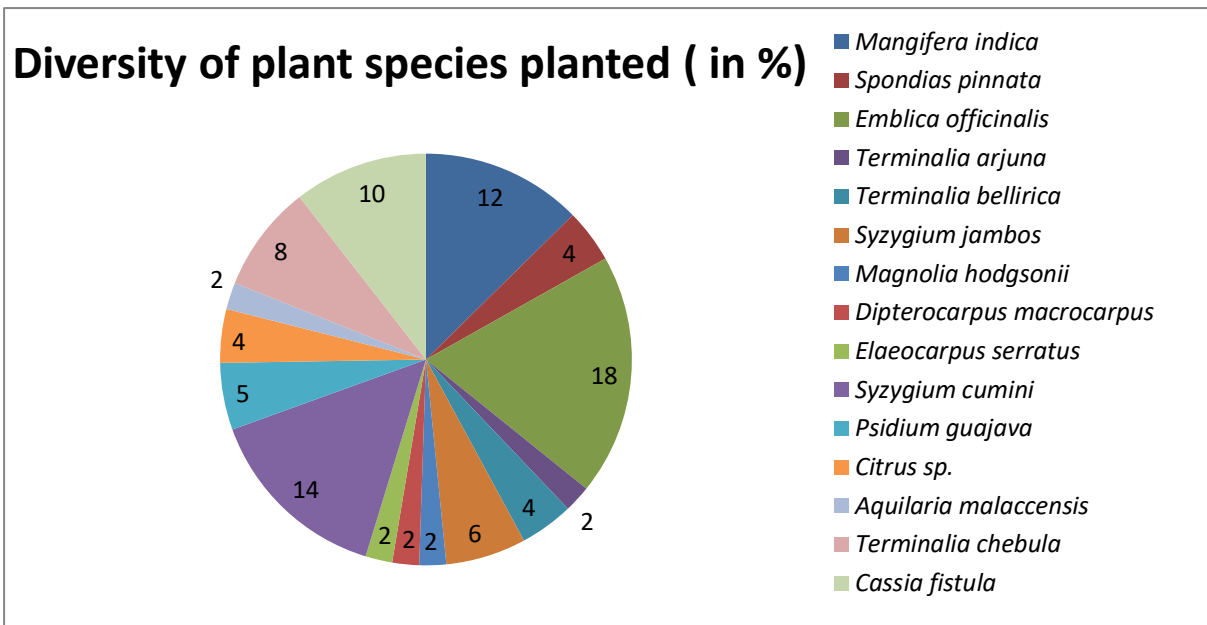


Fig 1: Diversity of Plant species planted in all the campuses of Jagannath Barooah College (Autonomous)

Below is the list of plant species planted under the programme along with their significance, date and time of plantation and location. Some of the planted saplings are shown in Plate I.

Sl No	Plant name	Significance(s)	Plantation Date & Time	Latitude & Longitude	Action
1	Aam, Mango tree (আম) Mango Mangifera indica	Fruit	12-08-2022 11:33 AM	Latitude: 26.757431 Longitude: 94.20436497222222	i Delete
2	Aam, Mango tree (আম) Mango Mangifera indica	Fruit	13-08-2022 02:24 PM	Latitude: 26.754720972222223 Longitude: 94.205701	i Delete
3	Aam, Mango tree (আম) Mango Mangifera indica	Fruit	13-08-2022 02:26 PM	Latitude: 26.754784 Longitude: 94.205673	i Delete
4	Aam, Mango tree (আম) Mango Mangifera indica	Fruit	13-08-2022 02:26 PM	Latitude: 26.754778 Longitude: 94.20560797222223	i Delete
5	Aam, Mango tree (আম) Mango Mangifera indica	Fruit	13-08-2022 02:27 PM	Latitude: 26.752356972222223 Longitude: 94.209654	i Delete
6	Aam, Mango tree (আম) Mango Mangifera indica	Fruit	12-08-2022 11:32 AM	Latitude: 26.755114972222223 Longitude: 94.205498	i Delete
7	Amara, Hog plum (অমৰা) Hog Plum Spondias pinnata	Fruit	12-08-2022 10:23 AM	Latitude: 26.754940972222222 Longitude: 94.205515	i Delete
8	Amara, Hog plum (অমৰা) Hog Plum Spondias pinnata	Fruit	12-08-2022 10:23 AM	Latitude: 26.757443972222223 Longitude: 94.204327	i Delete
9	Amlokhi, Indian gooseberry (আমলাফি) Indian gooseberry Emblca officinalis	Medicinal Fruit	13-08-2022 02:04 PM	Latitude: 26.754699972222223 Longitude: 94.20513497222223	i Delete
10	Amlokhi, Indian gooseberry (আমলাফি) Indian gooseberry Emblca officinalis	Medicinal Fruit	13-08-2022 02:05 PM	Latitude: 26.752394972222223 Longitude: 94.20962697222222	i Delete

CMIPP | Plant List

shyamaleechouhad.assam.gov.in/user/plantList

SI No	Plant name	Significance(s)	Plantation Date & Time	Latitude & Longitude	Action
1	Bogi Jamu Jamu Syzygium jambos	Fruit	12-08-2022 10:28 AM	Latitude: 26.757455 Longitude: 94.204402	i Delete
2	Bogi Jamu Jamu Syzygium jambos	Fruit	12-08-2022 10:27 AM	Latitude: 26.754953 Longitude: 94.205515	i Delete
3	Bogi Jamuk Rose apple Syzygium jambos	Fruit	13-08-2022 01:59 PM	Latitude: 26.754764 Longitude: 94.205195	i Delete
4	Borhomuthuri Hodgson magnolia Magnolia hodgsonii	Flower Flower	13-08-2022 02:02 PM	Latitude: 26.757266 Longitude: 94.205222	i Delete
5	Hollong Hollong Dipterocarpus macrocarpus	Medicinal	13-08-2022 02:15 PM	Latitude: 26.754705972222222 Longitude: 94.205146972222222	i Delete
6	Jalphaj Indian Olive (জলাফাই) Indian olive Elaeocarpus serratus	Fruit	13-08-2022 02:22 PM	Latitude: 26.754791972222222 Longitude: 94.205619972222222	i Delete
7	Jamu Black plum Syzygium cumini	Medicinal Fruit	13-08-2022 02:17 PM	Latitude: 26.754715972222222 Longitude: 94.205175972222222	i Delete
8	Jamuk Jamuk Syzygium cumini	Medicinal Fruit	13-08-2022 02:18 PM	Latitude: 26.752355972222222 Longitude: 94.209637	i Delete
9	Jamuk Black plum Syzygium cumini	Medicinal Fruit	13-08-2022 02:19 PM	Latitude: 26.752421972222223 Longitude: 94.210081972222223	i Delete
10	Jamuk Black plum Syzygium cumini	Medicinal Fruit	13-08-2022 02:19 PM	Latitude: 26.75474 Longitude: 94.205695	i Delete

11:44
07-10-2022

CMIPP | Plant List

shyamaleechouhad.assam.gov.in/user/plantList

SI No	Plant name	Significance(s)	Plantation Date & Time	Latitude & Longitude	Action
1	Amloki Indian gooseberry (আমলকি) Indian gooseberry Emblca officinalis	Medicinal Fruit	13-08-2022 02:06 PM	Latitude: 26.752373972222223 Longitude: 94.210007	i Delete
2	Amloki Indian gooseberry (আমলকি) Indian gooseberry Emblca officinalis	Medicinal Fruit	12-08-2022 11:29 AM	Latitude: 26.755493 Longitude: 94.206154972222222	i Delete
3	Amloki Indian gooseberry (আমলকি) Indian gooseberry Emblca officinalis	Medicinal Fruit	13-08-2022 02:08 PM	Latitude: 26.757169 Longitude: 94.205310972222222	i Delete
4	Amloki Indian gooseberry (আমলকি) Indian gooseberry Emblca officinalis	Medicinal Fruit	13-08-2022 02:09 PM	Latitude: 26.757177972222223 Longitude: 94.205303	i Delete
5	Amloki Indian gooseberry (আমলকি) Indian gooseberry Emblca officinalis	Medicinal Fruit	13-08-2022 02:10 PM	Latitude: 26.757166972222223 Longitude: 94.205303	i Delete
6	Amloki Indian gooseberry (আমলকি) Indian gooseberry Emblca officinalis	Medicinal Fruit	13-08-2022 02:13 PM	Latitude: 26.757263972222223 Longitude: 94.205055	i Delete
7	Amloki Indian gooseberry (আমলকি) Indian gooseberry Emblca officinalis	Medicinal Fruit	13-08-2022 02:14 PM	Latitude: 26.754564972222223 Longitude: 94.205151	i Delete
8	Arjun tree (অর্জুণ) Arjun Terminalia arjuna	Medicinal	13-08-2022 01:55 PM	Latitude: 26.752348972222222 Longitude: 94.209923	i Delete
9	Bhomora Bastard myrobalan (ভোমোৰা) Bastard myrobalan Terminalia bellirica	Medicinal	13-08-2022 01:57 PM	Latitude: 26.752407 Longitude: 94.210025	i Delete
10	Bhomora Bastard myrobalan (ভোমোৰা) Bastard myrobalan Terminalia bellirica	Medicinal	13-08-2022 01:58 PM	Latitude: 26.754766 Longitude: 94.205252	i Delete

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07-10-2022

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SI No	Plant name	Significance(s)	Plantation Date & Time	Latitude & Longitude	Action
1	Jamuk Black plum Syzygium cumini	Medicinal Fruit	13-08-2022 02:20 PM	Latitude: 26.754771972222223 Longitude: 94.2056	i Delete
2	Jamuk Black plum Syzygium cumini	Medicinal Fruit	13-08-2022 02:21 PM	Latitude: 26.754778 Longitude: 94.205178	i Delete
3	Kola Jamuk Java Plum Syzygium cumini	Medicinal Fruit	12-08-2022 11:31 AM	Latitude: 26.757428972222222 Longitude: 94.204357	i Delete
4	Modhuriaam ,Guava (মধুৰিআম) Guava Psidium guajava	Fruit	12-08-2022 11:34 AM	Latitude: 26.755421972222223 Longitude: 94.205697	i Delete
5	Modhuriaam ,Guava (মধুৰিআম) Guava Psidium guajava	Medicinal Fruit	13-08-2022 02:23 PM	Latitude: 26.752387972222223 Longitude: 94.210070972222223	i Delete
6	Modhuriaam ,Guava (মধুৰিআম) Guava Psidium guajava	Fruit	12-08-2022 11:36 AM	Latitude: 26.755120972222223 Longitude: 94.205522972222223	i Delete
7	Modhuriaam ,Guava (মধুৰিআম) Guava Psidium guajava	Fruit	13-08-2022 02:28 PM	Latitude: 26.757153972222223 Longitude: 94.204966972222222	i Delete
8	Modhuriaam ,Guava (মধুৰিআম) Guava Psidium guajava	Fruit	02-08-2022 11:40 AM	Latitude: 26.757789972222223 Longitude: 94.204295	i Delete
9	nemu Lemon Citrus sp.	Fruit	12-08-2022 11:27 AM	Latitude: 26.754947972222222 Longitude: 94.205907972222222	i Delete
10	Nemu Lemon	Fruit	12-08-2022 10:33 AM	Latitude: 26.757470972222222 Longitude: 94.204447972222223	i Delete

https://shyamaleechouhad.assam.gov.in/user/plantList#

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shyamaleechouhad.assam.gov.in/user/plantList

SI No	Plant name	Significance(s)	Plantation Date & Time	Latitude & Longitude	Action
1	Sasi gos Aganwood Aquilaria malaccensis	Medicinal	13-08-2022 01:54 PM	Latitude: 26.752371 Longitude: 94.209624	i Delete
2	Shilikha , Chebulicmyrobalan (শিলিখা) Chebulic myrobalan Terminalia chebula	Medicinal Fruit	13-08-2022 02:30 PM	Latitude: 26.752390972222223 Longitude: 94.209991	i Delete
3	Shilikha , Chebulicmyrobalan (শিলিখা) Chebulic myrobalan Terminalia chebula	Medicinal Fruit	13-08-2022 02:31 PM	Latitude: 26.754505972222223 Longitude: 94.205202972222222	i Delete
4	Shilikha , Chebulicmyrobalan (শিলিখা) Chebulic myrobalan Terminalia chebula	Medicinal Fruit	12-08-2022 11:39 AM	Latitude: 26.757453 Longitude: 94.204347972222222	i Delete
5	Shilikha , Chebulicmyrobalan (শিলিখা) Chebulicmyrobalan Terminalia chebula	Medicinal Fruit	12-08-2022 11:37 AM	Latitude: 26.754946 Longitude: 94.205513972222222	i Delete
6	Sonaru, Golden tree (সোণাক) Golden tree Cassia fistula	Flower Flower	13-08-2022 02:32 PM	Latitude: 26.755206972222222 Longitude: 94.205562	i Delete
7	Sonaru, Golden tree (সোণাক) Golden tree Cassia fistula	Flower Flower	13-08-2022 02:33 PM	Latitude: 26.755237 Longitude: 94.2056	i Delete
8	Sonaru, Golden tree (সোণাক) Golden tree Cassia fistula	Flower Flower	13-08-2022 02:34 PM	Latitude: 26.755251 Longitude: 94.205588	i Delete
9	Sonaru, Golden tree (সোণাক) Golden tree Cassia fistula	Flower Flower	13-08-2022 02:37 PM	Latitude: 26.754533 Longitude: 94.205173972222223	i Delete
10	Sonaru, Golden tree (সোণাক) Golden tree Cassia fistula	Flower Flower	13-08-2022 01:10 PM	Latitude: 26.755271 Longitude: 94.205607972222223	i Delete

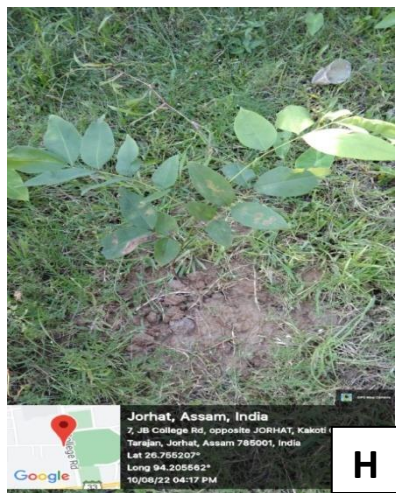
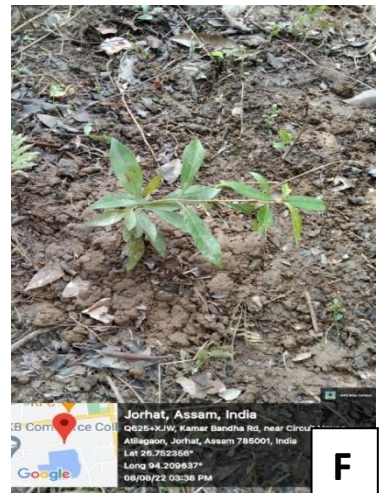
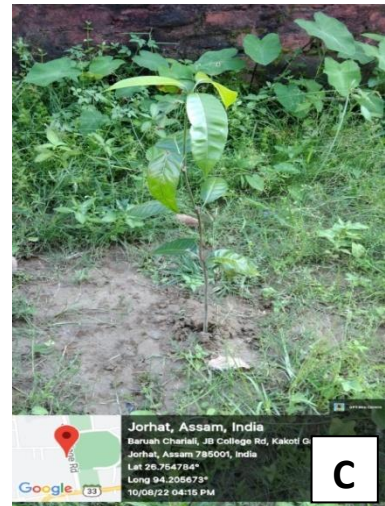
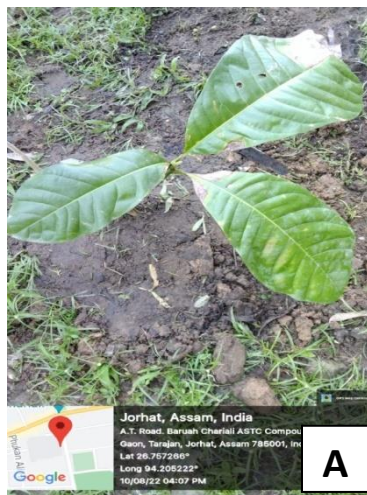


Plate 1: A- *Magnolia hodgsonii*, B- *Aquilaria malaccensis*, C- *Mangifera indica*, D- *Terminalia arjuna*, E- *Dipterocarpus macrocarpus*, F- *Syzygium cumini*, G- *Terminalia chebula*, H- *Cassia fistula*, I- *Elaeocarpus serratus*.

A Report on

DISTRICT LEVEL EXHIBITION CUM SALE, FAIR AND
ECOLOGICAL MODEL COMPETITION ON ENVIRONMENTAL
SUSTAINABILITY: REDUCE, REUSE AND RECYCLE



29th October, 2022

Organized by

ECO- CLUB along with NSS of J.B. College (Autonomous) and J.B

College Women Cell in Collaboration with

Inner Wheel Club, Jorhat District, Assam, India

Call for Environmental Sustainability has been there for decades and the post pandemic times have become more alive to escalating ecological concerns and hence the promotion of environmental sustainability is understood as a saving grace globally. ECO Club, J. B. College has ushered on several occasions programmes as initiatives to help protect the environment and create a greener earth. Understanding that issues like global warming, pollution and biodiversity are practical issues felt equally among all people, ECO Club, J.B. college this time aimed at creating a platform for school and college students to exhibit ecological models which would invite a clear motto of reduce, reuse and recycle of biodegradable materials for sustainability. In this initiative, **Inner Wheel Club of Jorhat** along with **J.B. College Women Cell** and **NSS** of J.B.College also joined hands with ECO Club sharing the same vision of environmental sustainability. With this, District Level Exhibition cum Sale, Fair and Ecological Model Competition was held on 29th October, 2022 at the auditorium of J.B. College. The event held as a competition for schools and colleges separately also allowed an exhibition of eco-friendly self-made products manufactured and produced at home liable for selling. High level of participation among the schools and colleges including research institutes of the district. There were altogether 21 teams as participants out of which 16 teams competed for the best ecological model. The competition cum exhibition saw an impressive showcasing of various creative and smart models themed on reusing and recycling consumer goods and materials. Dr. Utpal Jyoti Mahanta, Principal of J.B.College and also the Chair Person of the event inaugurated the programme. Addressing the participants, he briefly spoke on the vital role of the learners and restoring and reshaping the planet Earth. He also wished good luck to all competitors and success for the entire event. This was soon followed by a wide range display of ecological models presented by schools and undergraduate students and also a vibrant and attractive display of items for exhibition and sale. **Tocklai Tea Research Institute** was one among the participants that exhibited samples of tea in tubes and packages. Meanwhile **Jorhat District Science Centre and Planetarium** attracted participants with science bus where students got an opportunity to explore the world of our universe with its mini models. As for the competition it was a challenging task for the judges namely Dr. Mrinal Nath, Associate Professor, Dept. of Geography, J.B. College; Dr. Ankur Gogoi, Assistant professor, Dept. of Physics, J.B. College and Dr. Jayashree Nath, Dept. of Chemistry, J.B. College to decide on the best three models among the school and college participants. After a careful assessment, the first and the second best ecological model were selected from Don Bosco High School Baghchung, Jorhat, Assam. The best model was a student's kit and next was a model on waste water management prepared by students of Don Bosco High School, Lichubari, Jorhat, Assam. Participants from Model English Senior Secondary School, Nakachari, Jorhat secured the third prize for the Study Lamp model in the category of class VII-XII. Among colleges, students from dept. of Botany, J.B. College won the first prize for their model on waste water management. Muskan Devi, a student of D.C.B. Girls' College (Jorhat) prepared a model of bioremediation and bagged the second prize in the category of undergraduates. Jafraina Yasmin Ahmed and Sukanya Puzari as a team from D.C.B. Girls' College won the third prize for preparing a model of Sustainable City. The winners of the

competition were felicitated with certificates, Prize along with saplings during the prize distribution ceremony held on the same day. The event gradually came to a close with words of encouragement from the organizing members and faculty members from other colleges and research institute. Finally, the vote of thanks was delivered by Lalsanlevis Nampui, Jt. Co-ordinator of the event.



A glimpse of the exhibition cum sale.



A glimpse of the exhibition cum sale.

A Report on

**National seminar on “Environmental , Protection,
Conservation and Sustainability.”**
(Hybrid mode)

16th March, 2023



**Organised by ECO CLUB,
Jagannath Barooah College (Autonomous), Jorhat,
Assam, India**

**Financed and Catalyzed by
Assam Science Technology and Environment Council,
Guwahati, Assam, India**

National seminar on “Environmental , Protection, Conservation and Sustainability.”
(Hybrid mode)
16th March, 2023
Organised by ECO CLUB,
Jagannath Barooah College (Autonomous), Jorhat, Assam, India
Financed and Catalyzed by
Assam Science Technology and Environment Council, Guwahati, Assam, India

<p align="center">Organizing Committee</p> <p>Patron: Dr. Jaideep Baruah Director, ASTEC, Guwahati, Assam</p> <p>Chairperson: Dr. Utpal Jyoti Mahanta Principal, J. B. College, Jorhat</p> <p>Chief Co-ordinator 1. Dr. Liza H. Bhattacharyya Co-ordinator, ECO Club, J. B. College, Jorhat</p> <p>2. Lalsanlevis Nampul Asst. Professor, Dept. of English, J. B. College, Jorhat</p> <p>Joint Co-ordinator 1. Dr. Jayashree Nath, Asst. Prof., Dept. of Chemistry, J. B. College, Jorhat</p> <p>2. Dr. Simi Borah Saikia, Asst. Prof., Dept. of Philosophy, J. B. College, Jorhat</p> <p>3. Probenson Terang, Asst. Prof., Dept. of Economics, J. B. College, Jorhat</p> <p align="center">Invited Speakers</p> <ul style="list-style-type: none"> • Dr. Ratul Balshya, Department of Botany, University of Delhi, India • Dr. Helkham Evelin, Department of Botany, Rajiv Gandhi University, Arunachal Pradesh <p align="center">Advisors</p> <ul style="list-style-type: none"> • Dr. B. K. Borthakur, GB President, J.B. College • Dr. Chandra Barooah, Head I/c, Environment Division, ASTEC • Dr. D. J. Rajkhowa, Ex Jt. Director, ICAR Research Complex for NEH Division, Nagaland • Dr. Hemen Sharma, Head, Dept. of Botany, Bodoland University • Dr. Arunima D. Hazarika, Ex Academic V.P., J. B. College, Jorhat, Assam • Dr. Bubul Ch. Neog, Head, Dept. of Botany, J. B. College, Jorhat, Assam • Dr. Bhaskar Buragohain, Head, Dept. of Botany, Mariani College, Jorhat, Assam • Dr. Daya S. Tomar, Head, Dept. of Botany, D. C. B. Girls' College, Jorhat, Assam • Dr. Malakshimi Dutta, Head, Dept. of Botany, N. N. Saikia College, Titabar, Assam • Dr. P. N. Bhattacharyya, Dept. of Botany, N. N. Saikia College, Titabar, Assam 	<ul style="list-style-type: none"> • Dr. Bhaskar Sharma, Dept. of Botany, Dhemaji College, Dhemaji, Assam • Protiva Borah, Dept. of Botany, Bahona College, Jorhat, Assam <p align="center">Registration Fee</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td style="background-color: #2e8b57; color: white;">Academicians/ Professional/Faculty</td> <td style="background-color: #2e8b57; color: white;">1000/-</td> </tr> <tr> <td style="background-color: #2e8b57; color: white;">Research Scholars</td> <td style="background-color: #2e8b57; color: white;">700/-</td> </tr> <tr> <td style="background-color: #2e8b57; color: white;">Students</td> <td style="background-color: #2e8b57; color: white;">500/-</td> </tr> </table> <p>Bank Details for Registration Fee Deposition:</p> <ul style="list-style-type: none"> • Account Name: Principal, J.B. College (Autonomous), Jorhat • Bank Name: State Bank of India • Account No. 10638564174 • IFSC: SBIN0000104 <p>For any query, contact us:</p> <ul style="list-style-type: none"> ☎ Dr. Liza H. Bhattacharyya 8876044626 ☎ Lalsanlevis Nampul 9435606119 	Academicians/ Professional/Faculty	1000/-	Research Scholars	700/-	Students	500/-	<p><i>National Seminar</i> on</p> <p>Environmental Protection, Conservation and Sustainability (Hybrid mode)</p>  <p>on</p> <p align="center" style="background-color: #2e8b57; color: white; padding: 5px;">16th March, 2023</p> <p><i>Organized by</i></p> <p>ECO CLUB, Jagannath Barooah College (Autonomous), Jorhat, Assam</p> <p><i>Financed & Catalyzed by</i></p> <p>Assam Science Technology and Environment Council (Dept. of Science, Technology & Climate Change, Govt. of Assam)</p>
Academicians/ Professional/Faculty	1000/-							
Research Scholars	700/-							
Students	500/-							

<p align="center">About the Organizers</p> <p>Jagannath Barooah College is an autonomous college affiliated to Dibrugarh University and recognized by UGC, located in Jorhat, Assam, India. Since its inception in the year 1930, the college has been striving ahead for academic excellence in the field of higher education. As one of the premier institutes of Higher Education in the North East, J. B. College bagged the 64th rank in the all India rankings released by National Institutional Ranking Framework (NIRF) in April 2017. J.B. College fraternity is determined to build a conducive environment for all round development of the students and the community at large.</p> <p>Eco-Club is initiated by the Ministry of Environment, Forests and Climate Change (MoEFCC), Govt. of India as a project named National Green Corps (NGC) for creating environmental awareness. In Assam, this Eco-Club is supported by Assam Science Technology and Environment Council (ASTEC) as a nodal agency. Eco Club of J.B. College has been working incessantly towards the betterment of the environment.</p> <p>Assam Science Technology and Environment Council (ASTEC) is Govt. agency in Assam working on promotion and popularization of science & technology, growth of scientific temper and attitude among all sections people. ASTEC promotes innovation, technology generation and Intellectual Property Rights (IPR) activities in the state.</p>	<p>development in the era of fast changing environment and environmental policies. Organizers hope that the discussions and deliberations during the seminar will pave way for concrete action plans and remedial measures to an extent to resolve the issue of conflict between environmental degradation and sustainable development.</p> <p align="center">Sub-themes</p> <ul style="list-style-type: none"> • Global Change and Atmospheric Pollution • Natural Resource Management including microbial resources • Sustainable Agriculture • Scope of alternative Energy Resources • Socio-Economic and Legal Dimensions of Sustainable Development • Sustainable Life Style, Eco city, Ecosystem and Wild Life • Green Life Style, Green Synthesis • Green Chemistry in the present era. • Environmental Concerns, Ecocriticism and Literature. • Deep Ecology, Material Ecocriticism, Ecofeminism and Literature • Biodiversity and Meeting Its Challenges. • Waste Water Management. • Solid Waste Management. • Hazardous Waste Management or any theme allied to the environment. <p align="center">Formatting Guideline for Papers & Abstract Submission</p> <p>The research papers shall adhere to the following formatting guidelines:</p> <ul style="list-style-type: none"> • The length of the paper should preferably be within 3,500 words. The abstract of papers should be within 250 words with maximum six keywords. • The heading of the paper in Capital, Bold, Font Size 14, Times New Roman, Central Aligned. • Sub-headings if any in Bold, Capital, Font Size 12, Line Spacing 1.5, Justified Aligned. • Images, diagram, chart, table etc. central aligned and authority shall be duly cited. • OSCOLA 4th Edition/ MLA 8th Edition shall be used for citation and footnotes should be in Times New Roman, Font Size 10, Justified aligned, and Single Line Spacing. 	<p align="center">Submission Guidelines</p> <p>The participants shall strictly adhere to the following guidelines:</p> <ul style="list-style-type: none"> • Co-authorship for each paper is allowed up to two authors. • No single author can submit more than one paper. • The Abstract shall be separately typed in Google Form. • In the case of two authors for the same paper, only one author shall fill up the submission form. • No name or any other personal details shall be mentioned within the manuscript and the work should not have any conflict of interest. • All submissions shall be made through Google Form within the due date of submission. • Only word files are accepted, pdf files shall be summarily rejected. • The name of the document shall be saved by the title of the paper. <p align="center">Important Dates</p> <p>Abstract submission Deadline: 5th March, 2023</p> <p>Acceptance of Abstract: 12th March, 2023</p> <p>Registration Deadline: 14th March, 2023</p> <p>Date of Seminar: 16th March, 2023</p> <p align="center">Registration and Abstract submission link</p> <p>https://forms.gle/5cRNC6VU63DfQ7yN7</p>  <p align="center">Submit Paper to</p> <p>jbceoclub1930@gmail.com</p>
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About the Seminar

The Earth's natural and significant native resources are currently under threat due to excessive human exploitation that eventually results in continued damage to our planet Earth's environment. It is the need of the hour to protect our natural environment, ecosystem restoration and improve the goals towards sustainability using eco-friendly approaches. Conducting awareness programmes, demonstrations and seminar activities among students, and researchers working on environmental sustainability is considered as remedial measure to address the conflict and issues on environmental degradation and sustainable development. Keeping this in mind, the ECO CLUB of Jagannath Barooah College (Autonomous), Jorhat, invites scholarly papers, posters for a one day national seminar on 16th March, 2023 in blended mode(both online and offline) to address issues and challenges of sustainable

**National Seminar on
“Environmental Protection, Conservation and Sustainability”**

(Hybrid Mode)

16th March, 2023

Organized by

ECO- CLUB

Jagannath Barooah College (Autonomous), Jorhat, Assam

Financed and Catalyzed by

Assam Science Technology And Environment Council, Guwahati, Assam

Technical Schedule

Date: March 16, 2023

Inaugural ceremony

Venue: Conference Hall 1, J.B. College (Autonomous)

Host: Tonmoyee Rani Neog, Dept. of History, J.B. College (Autonomous), Jorhat

Time	Events
8.30 AM onwards	Registration of delegates and Breakfast
9.00 AM- 9.05 AM	Welcome to dignitaries
9.05 AM-9.10 AM	Lighting of Lamp
9.10 AM -9.15 AM	College Song
9.15 AM-9.20 AM	Welcome address by L. Nampui (Chief co-ordinator of the seminar)
9.20 AM-9.30 AM	Felicitation of the Guest
9.30 AM-9.35 AM	Inaugural address Dr. Utpal Jyoti Mahanta Principal, Jagannath Barooah College (Autonomous), Jorhat
9.35 AM-9.40 AM	A short speech by Dr. B.K. Barthakur G.B. President, J.B. College (Autonomous), Jorhat
9.40 AM-9.45 AM	Release of abstract volume
9.45 AM-9.50 AM	Introduction of the first speaker by Dr. Jayashree Nath
9.50AM-10.10 AM	Address by Invited Speaker Dr. Ratul Baishya University of Delhi, Delhi, India
10.10 AM-10.15AM	Introduction of the second speaker by L. Nampui
10.15 AM-10.35AM	Address by Invited Speaker Dr. Heikham Evelin Rajiv Gandhi University, Arunachal Pradesh, India
10.35 AM-10.40AM	Introduction of the third speaker by Dr. Liza H. Bhattacharyya
10.40AM-11.00 AM	Address by Invited Speaker Dr. Dipjyoti Rajkhowa Ex Jt. Director, ICAR Research complex for NEH Division, Nagaland.
11.00AM-11.05 AM	Vote of thanks Dr. Jayashree Nath Jt. Co-ordinator of the seminar
11.05AM- 11.15AM	Group photo
11.15AM -11.30 AM	Tea break
11.30 AM-1.30 PM	Technical Session I,II,III,VI (Parallel)
1.30 PM- 2.00 PM	Lunch Break
2.00 PM- 3.30 PM	Technical Session IV, V (Parallel)

Technical Session I

Venue: Conference Hall 1

Chairperson: Dr. Ratul Baishya, Dept. of Botany, University of Delhi, Delhi.

Co Chairperson: Dr. Bhaskar Jyoti Sarmah, Assistant Professor, JIST, Jorhat.

Host: Dr. Liza H. Bhattacharyya, Chief Co-ordinator, National Seminar Organizing Com.

11.30 AM – 1.30 PM

Venue: Conference Hall I

11.30 AM onwards	Oral presentation
1	Parijat Kashyap, Chandramallika Handique, Panchami Borah, Pooja Dutta, Ajay Kumar and Dinesh Kumar Meena Trees outside forest (tof) - A potential source of raw material for wood based industries in Jorhat forest division
2	Rajashree Bhuyan, Rashmi Rekha Borah A Case study report on the significance of Jadav Payeng's Molai Forest towards the sustainability of the environment
3	Kaushik Kutum, Nibarani padi and Junali Chetia Plants having healing property from Silapathar area, Dhemaji: A Survey
4	Chandramallika Handique, Parijat Kashyap, Pooja Dutta, Panchami Borah, Ajay Kumar and Dinesh Kumar Meena Utilization of tree outside forest for fuel wood and timber to the peoples of Jorhat and Majuli district
5	Moni Das Hydrocarbon degradation: A microbial approach for sustainability
6	Luk Bahadur Chetry Herbal Medicines for Benign Prostate Hyperplasia
7	Gyanab Konwar Wood rotting microfungi as a microbial resource for natural resource management and ecological sustainability with special reference to Hysteriales and their allied genera
8	Pooja Dutta, Parijat Kashyap, Chandramallika Handique, Panchami Borah, Ajay Kumar, Dinesh Kumar Meena Tree diversity and carbon stock in trees outside forests of Jorhat district, Assam
9	Junali Chetia and Lipika Lahkar Vegetation of Gai Nodi Wetland from Dhemaji District of Assam: A Study

Technical Session II (Offline)

Chairperson: Dr. Santana Saikia, Principal(I/C) & Associate Professor, Bahona College, Jorhat.
Co-Chairperson: Anmona Bora, Retd. Vice Principal & former Head, Dept. of English, J.B. College, Jorhat

Host: Dr. Simi Borah, Jt. Co-ordinator, National Seminar Organizing Com.

11.30 AM – 1.30 PM

Venue: Seminar Hall

11:30 AM	Oral Presentation
1	Akash Borchetia Wildlife in the Raj: Hunting as a Colonial Leitmotif in John Butler's A Sketch of Assam
2	Dr. Nandini C. Bora Negotiating the Pastoral Tradition in Wordsworth's Ecocritical Sensibility: A Select Study.
3	Raginee Mahanta Nature-Space and a Symbolic Coming of Age: An Ecocritical Reading of Delia Owens' <i>Where the Crawdads Sing</i>
4	Pishnipriya Borkakoty and Subhasita Sarmah Environment and Community in Global Poetry
5	Dr. Simi Borah Significance of 'Vasudhaiva Kutumbakam' for achieving Sustainable Environmental Development
6	Dr. Sangita Bora Environmental Awareness as reflected in the Vedas: A Study (With special reference to 'Bhumisukta' of the <i>Arthaveda</i>)
7	Moromi Engtipi & Harbamon Rongpi Impact of Forest Policies and Strategies on Tribal communities of Karbi Anglong in Conservation, Collection and Marketing of Non Timber Forest Products (NTFPs)
8	Dr. Biswajit Borah Ecology, Traditional Beliefs and Practices among the Thengal Kachari tribe of Assam
9	Dr. Swapna Borah दशपुत्रसमोद्गम: A scientific view reflecting environmental awareness in Sanskrit literature
10	Ritopan Borah Economic Valuation of Wetlands -A Methodological Study
11	Dr. Malaya Borah Respect for nature in the light of Gandhi's critique of industrialization
12	Bornalee Gogoi and Papumoni Hazarika Aloschona Patra Bixoy: Soumyadeep Dutta r 'Arryanyatur Bhraman-Katha' aru 'Namsangor Antexpur' Grantha t Paripashik Adhyanyan

Technical Session III (Online)

Chair Person: Dr. Rimi Nath, Assistant Professor, Dept. of English, NEHU, Shillong.

Host: Lalsanlevis Nampui, Chief Co-ordinator, National Seminar Organizing Com.

11.30 AM-1.30 PM

Meeting Link: <http://meet.google.com/emt-cfvj-whb>

11:45 AM onwards	Online Presentation
1	Kanyashree Bhagavaty An Ecocritical Reading Of Anuradha Sharma Pujari's "Sikar": A Select Study
2	Shabnam An Ecofeminist and Womanist Reading of Alice Walker's <i>The Color Purple</i> and 'In Search of Our Mother's Gardens'
3	Asima Gogoi An Ecocritical Reading of Easterine Kire's <i>When the River Sleeps</i>
4	Tejoswita Saikia Toxic Gods: The River and the Widow in Mamoni Raisom Goswami's <i>Neelkanthi Braja</i>
5	Tribeni Sonowal Environmental Consequences of Baghjan Oil Disaster
6	Priskili Nampui Woes of Environmental Degradation: A panoramic view (With special reference to selected areas of Dima Hasao District in Assam)
7	Ankita Dutta Awareness among the Students towards the Disposal of Electronic-Wastes: A Study in Sivasagar District of Assam
8	Dr. Loilungthianglimi Nampui Mapping Climate Change and Its Impact on Dima Hasao District in Assam
9	Dipa Baruah Understanding the Role Of Communities as Harbingers of Sustainable Lifestyle: A Study
10	Gita Rani Das A historical study on the environmental consciousness and protection in ancient India.

Technical session IV

Chairperson : Dr. Heikham Evelin, Assistant Professor, Rajiv Gandhi University, Arunachal Pradesh

Co – Chairperson: Dr. Bhaskar Sarma, Assistant Professor, Dhemaji College, Dhemaji, Assam

Host: Dr. Jayashree Nath, Jt. Co-ordinator, National Seminar Organizing Com.

2.00 PM-3.30 PM

Venue: Conference Hall 1

1	Bhaskar Jyoti Sarmah and Jayashree Nath Chlorocarbonyl Rhodium(I) complexes of functionalized pyridine ligands: Small molecule activation and methanol carbonylation
2	Nishi Deori, Dhaneshwar Pegu and Lipika Lahkar Ethno Medico-botanical assessment of Deori Community of Sivasagar District, Assam
3	Anirban Garg, Samprity Sarmah ESP promoted green synthesis of phenols from aryl boronic acids
4	Panchami Borah, Pooja Dutta, Parijat Kashyap, Chandramallika Handique and Dinesh Kumar Meena Potential of Bamboo species for the restoration of degraded coal mined land
5	Namrata Konwar Study on endophytic fungi associated with <i>Clerodendrum infortunatum</i> and their enzymatic activity
6	Muskan Devi and Namrata Konwar Phytochemical analysis of <i>Alstonia scholaris</i>: A commonly used medicinal plant by Nepali community of Assam
7	Utpal Sadhonider, Bhaskar Jyoti Sarmah Acceptorless dehydrogenation of alcohol to carboxylic acids by modified montmorillonite clay supported NiO-Nanoparticles
8	Pallika Nath, Dr. Dhiramani Bhuyan and Sangeeta Saikia Ethno medicinal uses of some locally available herbs by mishing community of Jorhat district, Assam
9	Krishna Borgohain, Satya Ranjan Sarmah, Pranaba Nanda Bhattacharya Isolation and screening of cellulose degrading microorganisms from tea soil of Assam – A potential driver for bioconversion of tea ecosystem biomass into quality organic manure

Technical Session V

Chairperson: Dr. Arunima Das Hazarika, Ex Academic V.P., J.B. College (Autonomous), Jorhat, Assam

Co Chairperson: Dr. Bhaskar Buragohain, Assistant Professor, Mariani College, Jorhat, Assam.

Host: Probenon Terang, Jt. Co-ordinator, National Seminar Organizing Com.

2.00 PM-3.30 PM

Venue: Seminar Hall

1	Tina Bora, Zeenat Ahmed, Chayanika Bora and Liza H. Bhattacharyya Diversity of Ethnomedicinal plant used by the Deori community people of Jorhat District, Assam
2	Akankhya Bora, Jyotishna Gogoi, Liza H Bhattacharyya. Diversity of Ethnomedicinal plant used by the people of Mising community living in Nasonipara village of Golaghat district, Assam.
3	Denen Kr. Duarah and Ananya Bordoloi Natural resource management including microbial resources
4	Liza Handique Bhattacharyya Frankia Sp. – A Novel Biofertiliser For Sustainable Agriculture
5	Emon Gogoi and Manashree Borchetia Herbalism of upper Assam
6	Nikhil Gogoi and Bubul Ch. Neog Ethnomedicinal plants used by the Mising community of Sivasagar district, Assam
7	Mirzana Azad and Isha Sonowal Organic farming – A new revolution in Agriculture.

Technical Session VI (Online)

Chairperson: Dr. P.N. Bhattacharyya, Assistant Professor, Dept. of Botany, N.N. Saikia College, Jorhat, Assam

Co Chairperson: Dr. Bhupen Kr. Baruah, Assistant Professor, Dept. of Chemistry, J.B. College (Autonomous), Jorhat, Assam

Host: Dr. Anirban Garg, Technical Co-ordinator, National Seminar Organizing Com.

11.30 AM-1.30 PM

Meeting link : <http://meet.google.com/qzw-qfvv-fwp>

1	Madhu Shastry, Medicinal plants used by different tribes of Dhemaji District of Assam
2	Talo Biju and Daniel Mize The influence of landscape on distribution of slender-billed vulture <i>Gyps tenuirostris</i> in Arunachal Pradesh, India

3	Animekh Lukhurakhon, Satya Ranjan Sarmah, Mausomi Madhab and Pranaba NandaBhattacharyya Characterization of microbial resources of tea soil and evaluating their potential against Grey blight diseases in tea: A green and sustainable approach for plant protection in tea
4	Kakumoni Bora, Dr Nibedita Das, Dr Pramod Medhi, Dr Neeta Basumatary An ethnomedicinal survey of traditionally used medicinal plants for the treatment of High blood pressure of erstwhile Nagaon District, Assam, India
5	Porismita Borah, Nazrul Islam A comparative study on antidiabetic plants used by the Mishing Tribe of Majuli District based on the management and drug formulation for the promotion of human health
6	Chimi Rekha Gogoi, Dr. Aditya Borah Nanotechnology-based methods for wastewater treatment- The state of the art
7	Kakoli Baruah Diversity of orchid in Joypur reserve forest
8	Bhaskar Sarma, Pranaba Nanda Bhattacharyya, Rajdeep Kalita Induction of different types of callus and somatic embryogenesis in various explants of <i>Aristolochia saccata</i> wall. And <i>Aristolochia cathcartii</i> hk. F. & t.- rare and endemic medicinal plants of Assam, India.
9	<u>Rebika Baruah</u> , Archana Moni Das, Rohan Goswami, Debasish Kalita Profound applicability of green synthesized ZNO nanoparticles in wastewater treatment
10	Gayatree Borah Investigation of chemical mutagens sensitivity on crop production
11	Jhuma Biswas, Rebecca Kramsapi Changes in landuse and its impact on air quality: A study in Guwahati city
12	Ejaz Hussain Ebelin lactone from <i>Bacopa monnieri</i> targets microtubule affinity regulation kinase-4 for the treatment of Alzheimer's disease: a molecular dynamics-integrated MMGBSA approach.
13	Pranaba Nanda Bhattacharyya and Dhruva Kumar Jha Bioprospecting of microbial gene pool for better understanding of microbial ecology with special reference to antagonism against a panel of human pathogens

3.30 PM- 4.30 PM : Cultural Programme
4. 30 PM- 4.55 PM : Valedictory Session
4.55 PM- 5.00 PM : Vote of Thanks by Dr. Simi Borah, Jt. Co –Ordinator, National Seminar Organizing Committee.

Inaugural Session

Time: 9.00 AM- 11.30 PM

Venue: Conference Hall 1

The inaugural session started with the lighting of the lamp by our invited guest followed by college song by the members of the ECO CLUB followed by welcome address by Lalsanlavis Nampui (Chief co-ordinator of the seminar). Then the invited guest were felicitated with *gamusa*, memento and *Japi*. Then Dr. Utpal Jyoti Mahanta, Principal, Jagannath Barooah College (Autonomous), Jorhat, Assam gave the inaugural address followed by a short speech by Dr. B.K. Barthakur, G.B. President, Jagannath Barooah College (Autonomous), Jorhat, Assam. The abstract volume of the National seminar was released by the distinguished dignitaries present in the occasion. The first invited speaker was introduced by Dr. Jayashree Nath (Jt. Co-ordinator of the National seminar organising committee). The first speaker of the session Dr. Ratul Baishya, Associate Professor, Dept. of Botany, University of Delhi, Delhi, India, presented his speech on REDD+. Our second speaker, Dr. Heikham Evelin, Assistant Professor, Dept. of Botany, Rajiv Gandhi University, Arunachal Pradesh, India was introduced by L.Nampui (Jt. Co-ordinator of the National seminar organising committee) followed by her talk on Mycorrhiza. Lastly the last speech was delivered by Dr. Dipjyoti Rajkhowa, Ex Jt. Director, ICAR Research Complex for NEH division, Nagaland, India on sustainable agriculture. At last the inaugural session came to an end by vote of thanks by Dr. Jayashree Nath (Jt. Co-ordinator of the National seminar organising committee) (See Plate 1).



Plate 1: Inaugural session A: Lighting of the lamp by dr. B.K. Barthakur, G.B. President, J.B. College, **B,C:** Felicitation of the invited speakers, **D:** Welcome address by Dr. Utpal J. Mahanta, Principal, J.B. College, **E:** Release of abstract volume, **F:** Speech by invited speaker Dr. Ratul Baishya, **G:** Speech by Dr. Heikham Evelin, **H:** Speech by Dr. Dipjyoti Rajkhowa(Online mode).



Plate 2: Group Photo of the attendees of the Inaugural session of the National seminar.

Technical session 1:**Venue: Conference Hall 1****Time: 11.30 a.m. -1.30 p.m**

The technical session I took place in the conference hall 1 of J.B. College, Jorhat, Assam, India. Dr. Ratul Baishya, Associate Professor, Dept. of Botany, University of Delhi, Delhi, India chaired the session and Dr. Bhaskar J. Sarmah, Assistant Professor, Dept. of Chemistry, JIST, Jorhat, Assam, India co- chaired the session. Altogether 9 papers were presented during the session in which papers pertaining to forestry, forest botany, and forest resources were discussed. While participants from different institutions in and around Jorhat such as RFRI, undergraduate students from J.B. College and faculty members from different institutions in and around the city attended the session. Dr. Liza H. Bhattacharyya, chief co-ordinator of the National seminar organizing Committee hosted the session.

Technical Session II**Venue: Seminar Hall****Time: 11.30 a.m. -1.30 p.m**

The second technical session took place in the seminar hall of J.B. College campus, Jorhat, Assam. The session was chaired by Dr. Santana Saikia, Principal (i/C) and Associate Professor, Bahona college, Jorhat and co-chaired by Anmona Bora, Retd. Vice Principal and Former Head, Dept. of English, J.B. College, Jorhat. The session was hosted by Dr. Simi Borah, Jt. Co-ordinator, National seminar organizing Com., J.B. College, Jorhat, Assam, India. Altogether, 4 papers were presented in the session dealing with eco critical discussions and global poetry dealing with environment and community. The session was attended by participants, students and faculty members of the college. It was a very fruitful session (See Plate II).

Technical session III (Online)**Hosted from: Krishna Kanta Handiqui Central Library, J.B. College, Jorhat, Assam,****Time: 11.30 am-1.30 pm**Meeting link: <http://meet.google.com/emt-cfvj-whb>

The technical session (online) was hosted by Lalsanlevis Nampui, Chief co-ordinator, National seminar organizing committee, Jagannath Barooah College, Jorhat, Assam and chaired by Dr. Rimi Nath, Assistant Professor, Dept. of English, NEHU, Shillong, India. Altogether, 10 papers were presented in the session in which the literary ecocritical reviews and papers based on field survey, community participation in various environmental issues by the present and past society as well as awareness related papers on different waste management system were discussed elaborately. The session came to an end with various suggestions on the prevailing environmental issues and active participation by the participants and faculties of the college were seen (See Photo III).



Plate 2: Glimpses of Technical session II

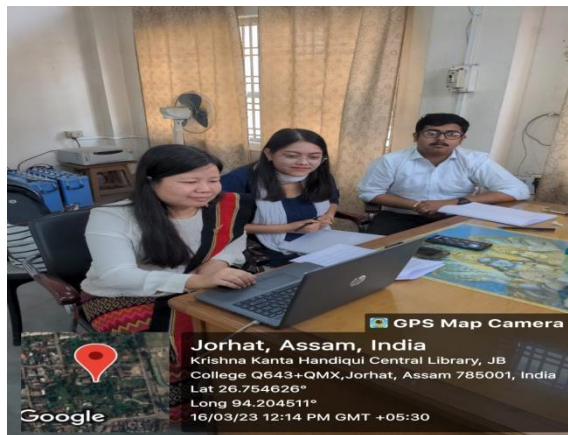


Photo III: Technical session III

Photo IV: Technical session VI



Photo V: Technical session IV

Photo VI: Technical session V

Technical Session: IV**Venue: Conference Hall 1****Time: 2.00 pm-3.30 pm**

The session was hosted by Dr. Jayashree Nath, Jt. Co-ordinator, National seminar organizing committee, Jagannath Barooah College, Jorhat, Assam, chaired by Dr. Heikham Evelin, Assistant Professor, Rajiv Gandhi University, Arunachal Pradesh, India and co chaired by Dr. Bhaskar Sarma, Assistant Professor, Dhemaji College, Dhemaji, Assam, India. In the session, 8 papers were presented by researchers from distinguished institutions of our state. The discussion in the session was mostly pertaining to green chemistry, ethnomedicinal surveys and microbial resources (See photo IV).

Technical Session: V**Venue: Seminar hall****Time: 2.00 pm – 3.30 pm**

The session was hosted by Probenon Terang , Jt. Co-ordinator, National seminar organising committee, Jagannath Barooah College, Jorhat, Assam chaired by Dr. Arunima Das Hazarika, Ex Academic Vice Principal, J.B. College (Autonomous), Jorhat and Co-chaired by Dr. Bhaskar Buragohain , Assistant Professor, Mariani College, Jorhat, Assam, India. Altogether 7 papers were presented in the session where undergraduate students from Dept. of Botany, Jagannath Barooah College, Jorhat , Assam, India and undergraduate students from Dept. of Zoology , Jagannath Barooah College, Jorhat , Assam, India presented their papers on ethnomedicinal and ethnobotanical surveys along with the diversity analysis of the different ethnobotanical plants available in Jorhat, Golaghat and Sivasagar district of Assam, India. The chairpersons gave valuable advice and suggestions to the participants. The session ended in a positive note (See photo VI).

Technical Session VI**Hosted from : Krishna Kanta Handiqui Central Library, J.B. College, Jorhat, Assam, India.****Time: 11.30 am-1.30 pm**Meeting link: <http://meet.google.com/qzw-qfvv-fwp>

The session was hosted by Dr. Anirban Garg, Technical Co-ordinator, National Seminar Organizing Committee, Jagannath Barooah College, Jorhat, Assam, India and Dr. P.N. Bhattacharyya, Assistant Professor, Dept. of Botany, N.N. Saikia College, Jorhat, Assam, India was the chairperson and Dr. Bhupen Kr. Baruah, Assistant Professor, Dept. of Chemistry, J.B. College was the co chairperson. In the session 13 papers were presented pertaining to green chemistry, microbiology, ethnobotany, biotechnology, zoology and advanced biology. The participants were from different research institutions across the country (See photo IV).

At last the national seminar came to an end with the cultural programme performed by students of the college followed valedictory session and vote of thanks by Dr.Simi Bora.



Photo VII: Chairperson and co- chairperson of the Technical session IV



Plate : Glimpses of the cultural programme at the end of the seminar