

Dissertation works-2023
Department of Botany
J. N. College, Boko

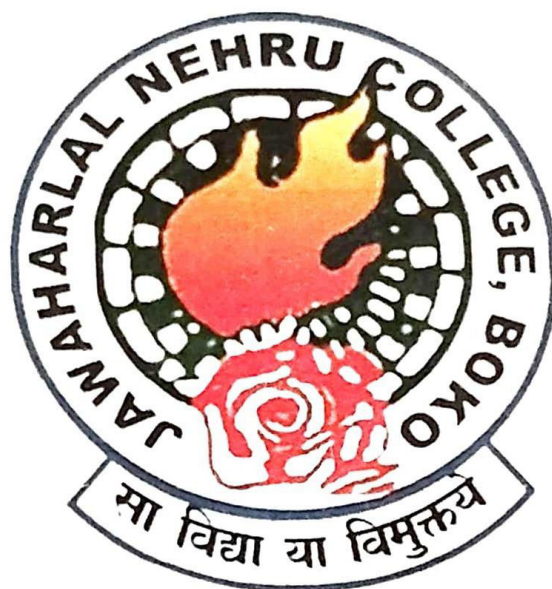
The department of Botany has conducted four dissertation projects under the guidance of four teachers of the department. This year the department has 15 students in the 6th semester. They are grouped into four and under the guidance and supervision of teachers they conducted their dissertation works. The students learnt how to conduct the dissertation works, how to write dissertation and how to present their works before the expert during this period. The topics for dissertation and the name of supervision are:

1. ***A comparative study of Oyster mushroom production on paddy straw and sugarcane bagasses*** --guidance by Mr. Pinaki Kr. Rabha. The students performed this dissertation were:
 - i. Pritimoni Boro
 - ii. Rajshree Kalita
 - iii. Hriktika Rabha
2. ***“Rhizosphere microflora of Sal forest of Jawaharlal Nehru college campus, Boko”*** - Guidance by- Dr. Kamal Lochan Barman. Participated students were-
 - i. Barasha Kalita
 - ii. Karabi Sarma
 - iii. Hiramoni Boro
 - iv. Prakash Das
3. ***“Isolation and identification of the soil fungus from college campus and river bank soil”***- under the guidance by Mr. Mrinmay Rabha. Students were-
 - i. Rashmirekha Rabha
 - ii. Mritunjay Rabha
 - iii. Dulumoni Boro
 - iv. Shruti Majumdar
4. ***“Ethno botanical study on wild medicinal plants used by Rabha and Bodo communities of Boko area”*** – under the guidance by Ms. Mridulina Hazarika. The students were-
 - i. Priyatora Rabha
 - ii. Mukesh Rabha
 - iii. Halima Taki
 - iv. Akansha Baishya

DISSERTATION REPORT

ON

**A COMPARATIVE STUDY OF OYSTER MUSHROOM PRODUCTION
ON PADDY STRAW AND SUGARCANE BAGASSES.**



Submitted by:

NAME: PRITIMONI BORO

ROLL NO.: US-201-019-0064

PAPER: BOT-HE-6036

Department of Botany, JN College, BOKO



DEPARTMENT OF BOTANY
Jawaharlal Nehru College, Boko
Kamrup, Assam; PIN - 781 123

CERTIFICATE

This is to certify that Miss Pritimoni Boro bearing Roll No.US-201-019-0064 has completed her dissertation work on the topic entitled "A comparative study of Oyster mushroom production on paddy straw and sugarcane bagsses" under guidance and supervision by me. This is for the partial fulfillment of the BSc 6th semester final examination, 2023 for the dissertation paper BOT HE-6036 and for submission at the time of dissertation examination. No part of this project work is allowed to submit other than dissertation examination.

Pinaki kr. Rabha
Associate professor,
Department of Botany

Forwarded
Dr. Habibur Rahman, HoD
Department of Botany

Acknowledgement

I would like to express my profound gratitude to Mr. Pinaki Kr. Rabha of Botany department, for his guidance and supervision for completing my project work entitled **“A comparative study of oyster mushroom production on paddy straw and sugarcane bagasses”**.

I would like to express my sincere thanks to Dr. Habibur Rahman, HOD of the department who has allowed me to take this interesting project work and for his valuable suggestion during the period.

I would like to express my special thanks to all the teachers of the department for their valuable suggestion and encouragement during my project work. I would also acknowledge with much appreciation the role of the laboratory bearer for their helps. I would also express my gratitude to all my classmates without whom I unable to complete the project work.

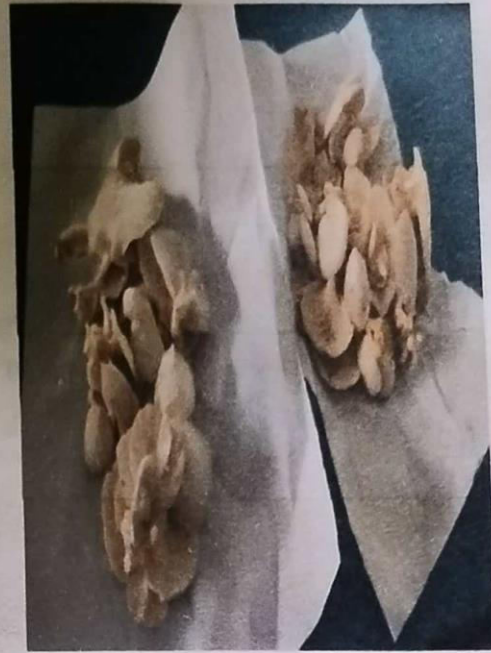
With thanks
Pritimoni Boro
Pritimoni Boro

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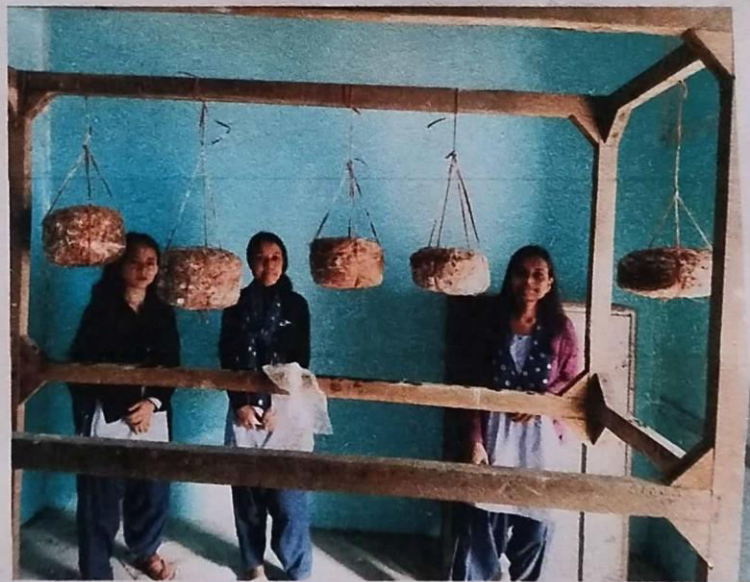
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Mature mushroom



Harvesting



**RHIZOSPHERE MICROFLORA OF SAL TREE OF
JAWAHARLAL NEHRU COLLEGE CAMPUS, BOKO**

A DISSERTATION SUBMITTED FOR PAPER
BOT-HE-6036 PROJECT WORK FOR THE
DEGREE OF B.Sc. IN BOTANY, JAWAHARLAL
NEHRU COLLEGE, BOKO



Submitted by:

Barasha Kalita

Roll No.US-201-019-0015

Department of botany, JN College Boko



DEPARTMENT OF BOTANY
Jawaharlal Nehru College, Boko
Kamrup, Assam; PIN – 781123

CERTIFICATE

This is to certify that Mr/ Miss Barasha Kalita bearing the Roll No. US-201-019-0015 has duly completed her dissertation works (BOT-HE-6016) assigned in the curriculum under Gauhati University by the guidance of teachers of department. He/ She is a bonafied student of 6th semester honours student of Jawaharlal Nehru College.

I wish him/ her for a bright future.

KL Barman
26-5-23
Teacher in Charge
(Dr Kamal Lochan Barman)

[Signature]
26/05/23
(Dr Habibur Rahman)

HOD & Associate professor,
Department of Botany
J. N. College, Boko

[Signature]
30/5

Acknowledgement

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1. Introduction
2. Materials & Methods
3. Result
4. Discussion
5. Conclusion
6. Reference

MICROBIAL POPULATION ON SPECIFIC PLATES

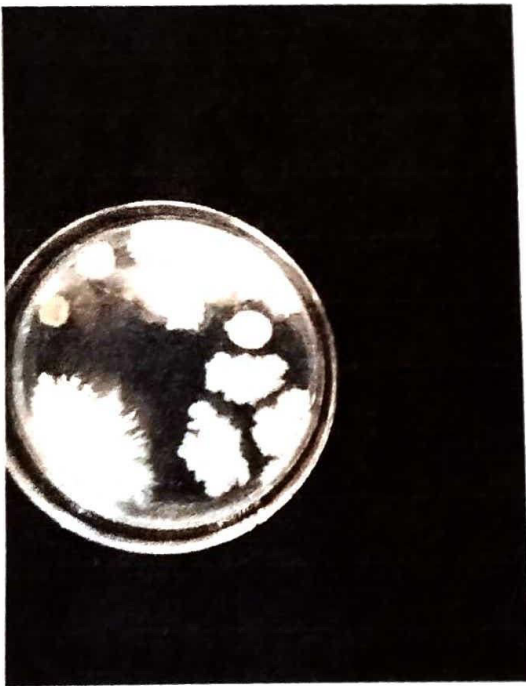
1. NUTRIENT AGAR(BACTERIA)



a) PURE CULTURE



b) PURE CULTURE



c)



d)

MICROBIAL POPULATION ON SPECIFIC PLATES

2. POTATO DEXTROSE AGAR (FUNGI)



a)



b)



c)

ISOLATION AND IDENTIFICATION OF SOIL FUNGUS FROM COLLEGE CAMPUS AND RIVER BANK SOIL

A DISSERTATION SUBMITTED FOR PAPER BOT-HE-6036 PROJECT WORK FOR THE
DEGREE OF BSc. IN BOTANY, JAWAHARLAL NEHRU COLLEGE, BOKO



Submitted BY:

MRITYUNJAY RABHA

ROLL NO: US-201-019-0056

Department of Botany, JN. College Boko



DEPARTMENT OF BOTANY
Jawaharlal Nehru College, Boko
Kamrup, Assam; PIN – 781123

CERTIFICATE

This is to certify that Mr Mrityunjay Rabha bearing the Roll No. US-201-019-0056 has completed his dissertation work on the topic entitled "Isolation and identification of soil fungus from college campus and river bank soil" under guidance and supervision by me. This is for the partial fulfilment of the B.Sc 6th Semester final examination, 2023 for the dissertation paper BOT- HE-6036 and for submission at the time of dissertation examination. No part of this project work is allowed to submit other than dissertation examination.

M. Rabha
29.05.23
(Mrinmay Rabha)

Associate teacher,
Department of Botany

Exa
30/5

Forwarded *[Signature]* *29/05/23*
Dr. Hahibur Rahman, HOD

Department of Botany

Acknowledgement

I would like to express my profound gratitude to Mr Mrinmay Rabha of Botany department, for his guidance and supervision for completing my project work entitled "Isolation and identification of soil fungus from college campus and river bank soil"

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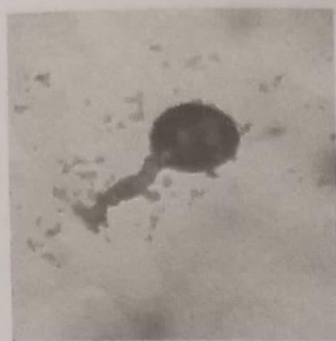
With thanks

Mrityunjay Rabha
Mrityunjay Rabha

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Photo data:



(A)



(B)



(C)

Identified fungus from the dilution factor 10^{-4} (Garden soil): (A) *Rhizopus sp.* (B) *Mycelia Sterilia sp.* (C) *Penicillium sp.*



(A)



(B)

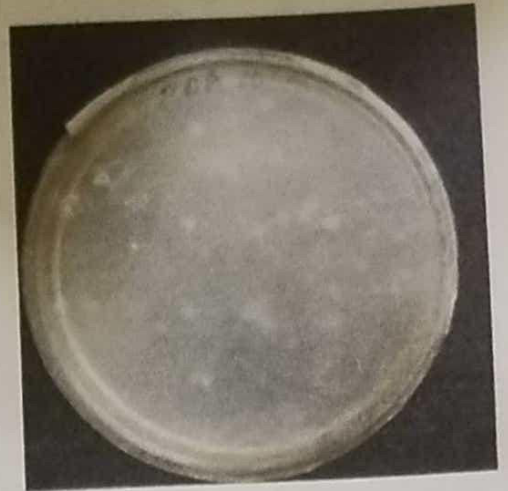
Identified fungus from the dilution factor 10^{-5} (Garden soil): (A) *Rhizopus sp.* (B) *Aspergillus sp.*



A



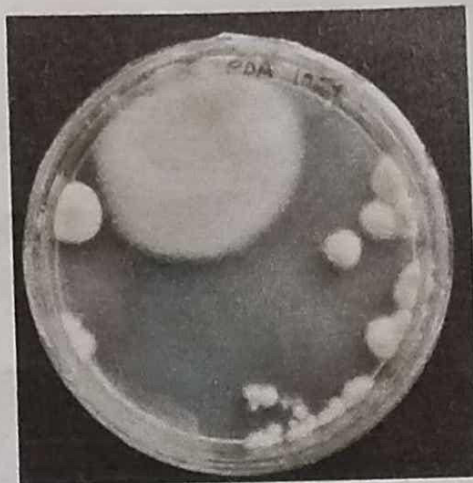
B



C



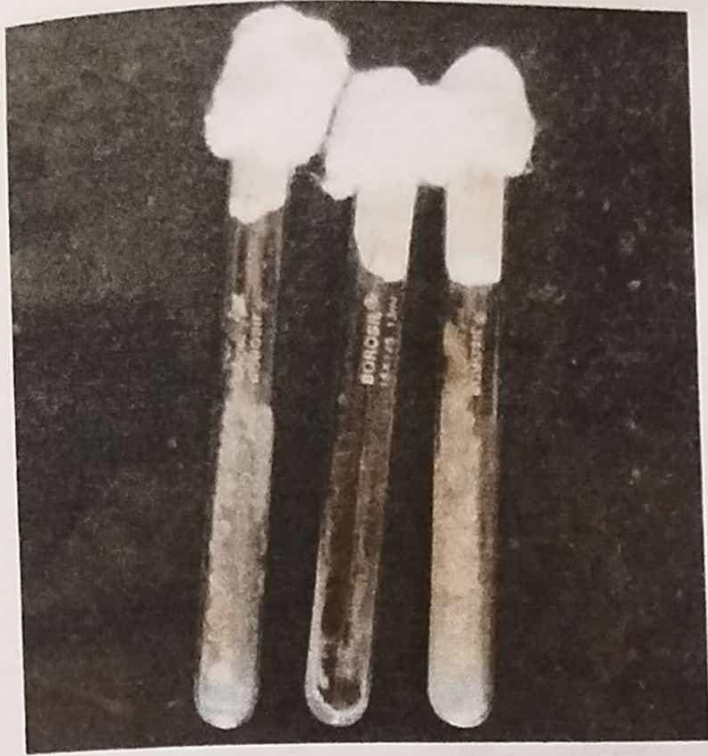
D



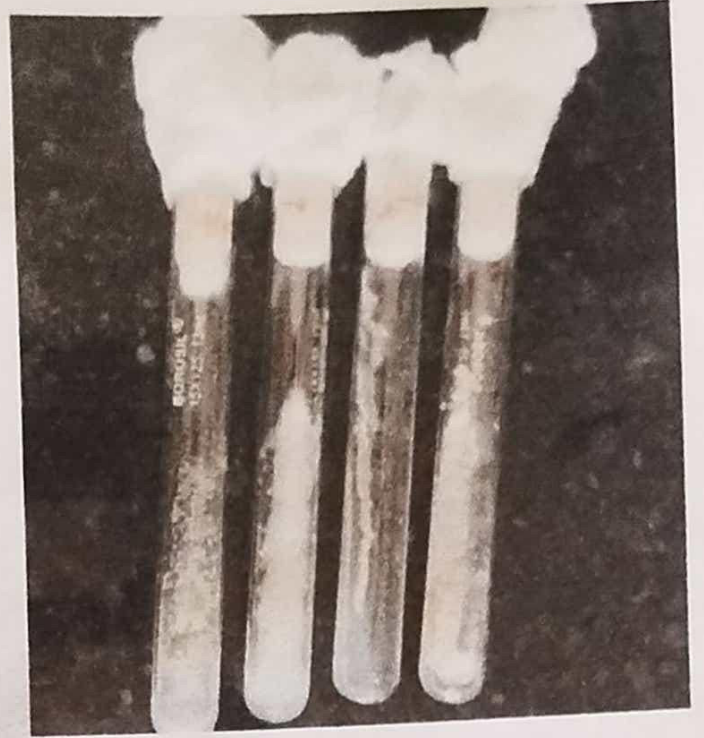
E



F



(A)



(B)

Picture data: Slant of isolated fungus (A) Garden soil (B) River bank soil

ETHNOBOTANICAL STUDY ON WILD MEDICINAL PLANTS USED BY RABHA AND BODO COMMUNITIES OF BOKO AREA

A dissertation submitted for paper BOT-HE-6036 project work for the degree of
B.Sc. in Botany, Jawaharlal Nehru College, Boko



Submitted by:

PRIYATARA RABHA

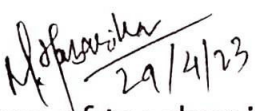
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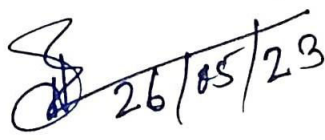
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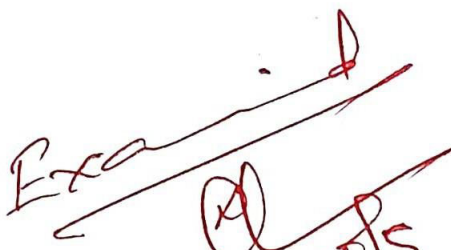
Department of Botany, JN College Boko

CERTIFICATE

This is to certify that Miss Priyatara Rabha bearing roll no. US-201-019-0065 has completed her dissertation work on the topic entitled **"Ethnobotanical study on wild medicinal plants used by Rabha and Bodo community of Boko area"** under guidance and supervision by me. This is for the partial fulfilment of the B.Sc. 6th semester final examination, 2023 for the dissertation paper BOT-HE-6036 and for submission at the time of dissertation examination.


Signature of teacher incharge


Signature of HOD



Acknowledgement

I would like to express my profound gratitude to Miss Mridulina Hazarika of Botany department, for her guidance and supervision for completing my project work entitled **"Ethnobotanical study on wild medicinal plants used By Rabha and Bodo community of Boko area"**.

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With thanks.

Priyatara Rabha

Priyatara Rabha.

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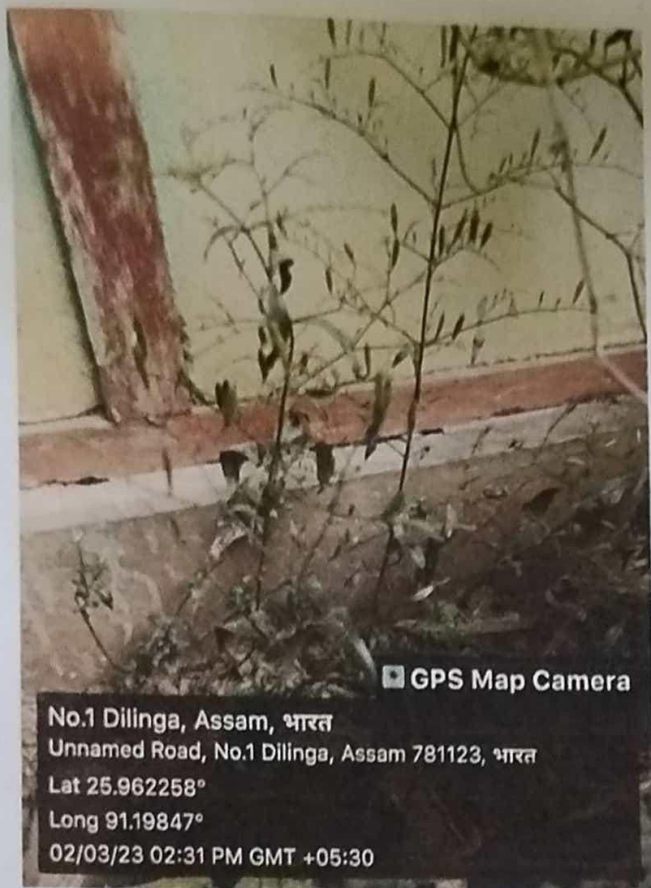


Fig:Swertia chirayita

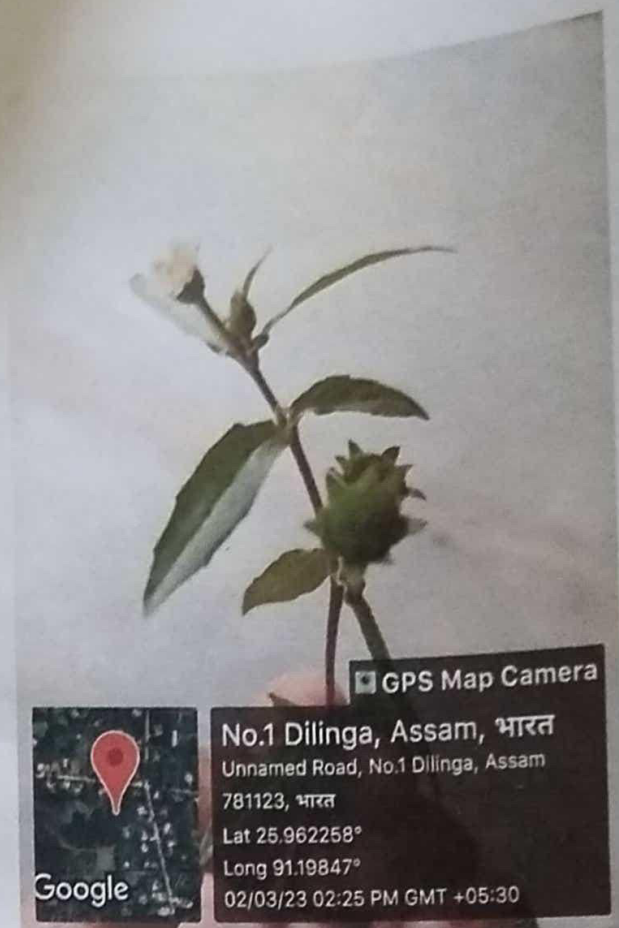


Fig:Ecliptaprostrata

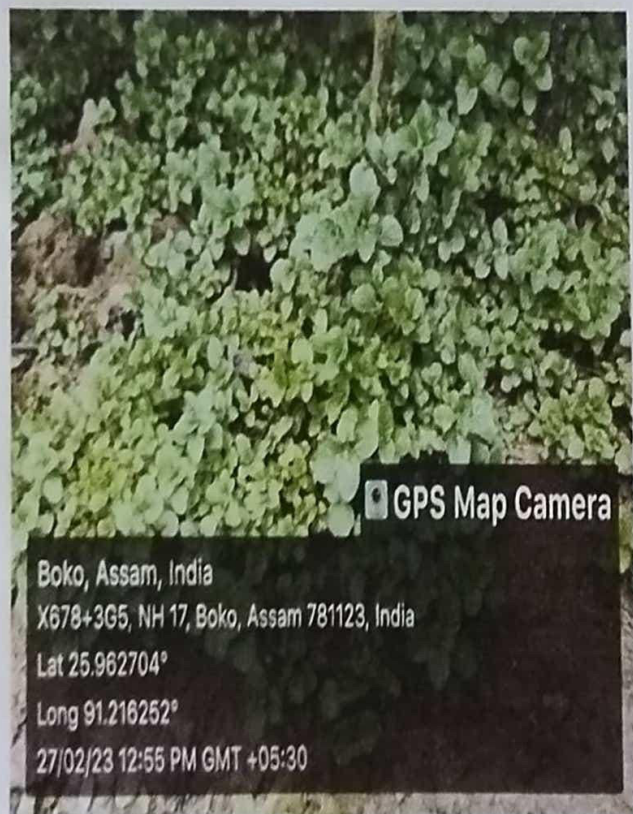


Fig:Mentha spicata

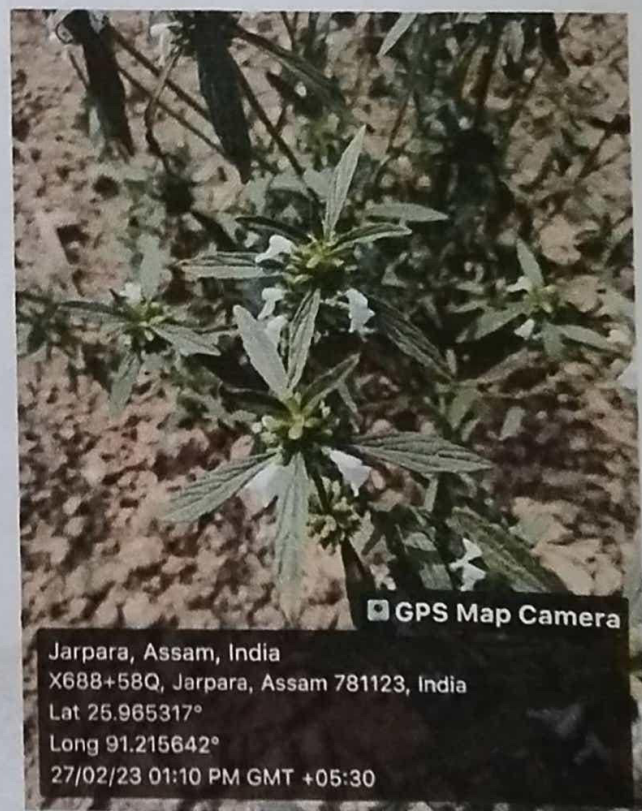
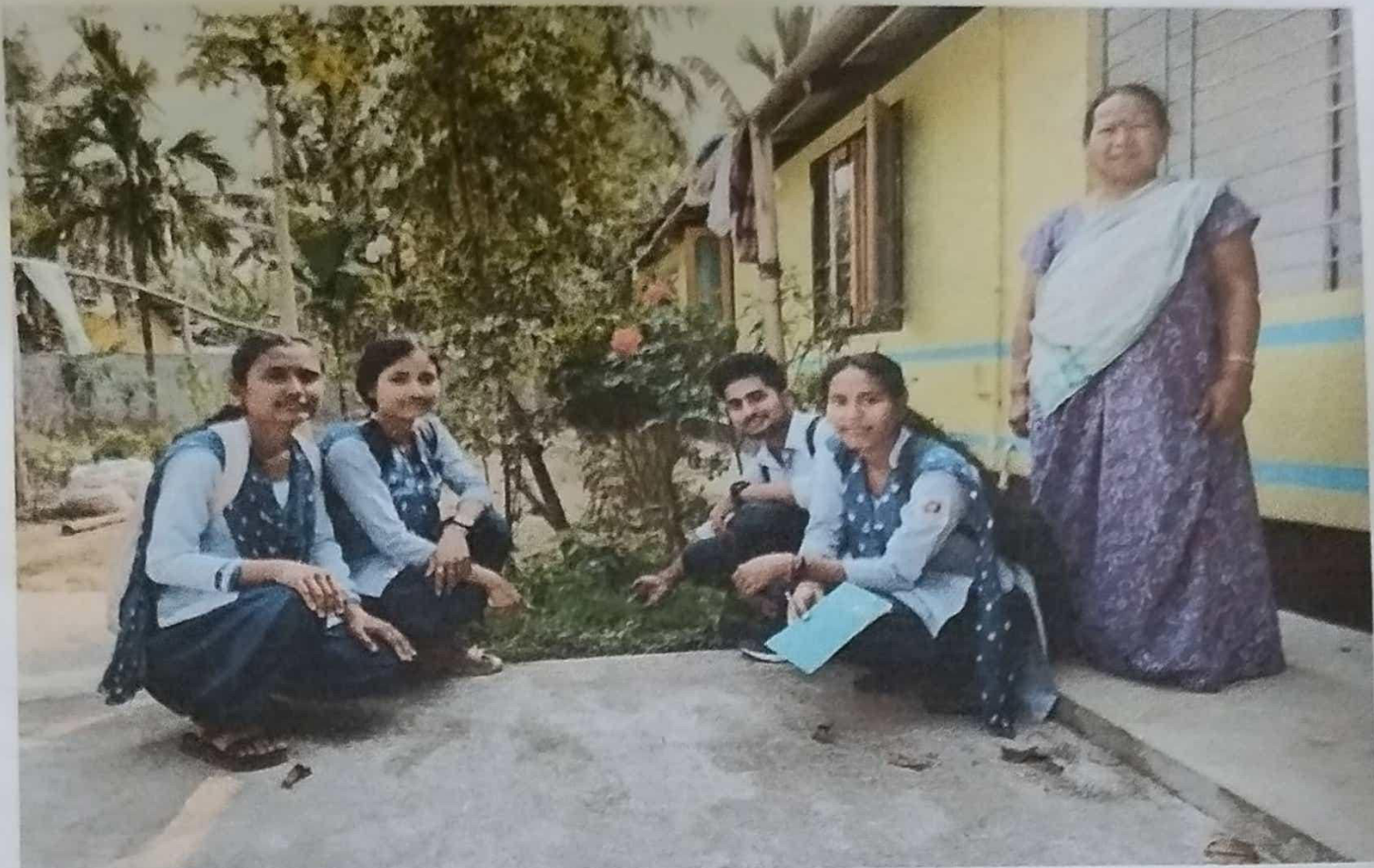


Fig:Leucas aspera



 **GPS Map Camera**

Jarpara, Assam, India

X688+58Q, Jarpara, Assam 781123, India

Lat 25.965317°

Long 91.215642°

27/02/23 01:09 PM GMT +05:30