



DEPARTMENT OF BOTANY
গড়গাঁও মহাবিদ্যালয়
GARGAON COLLEGE

NAAC Accredited with 'B' Grade

P.O. SIMALUGURI, PIN : 785 686, DIST. SIVASAGAR (ASSAM)

Report on Botanical Excursion

Place of visit: Sunderban National Park and Kolkata

Date of Visit: 2nd – 10th January, 2023

Total No. of Students visited: 21

Course: BC409P

Rationality of the Programme:

- Excursion helps to fly in nature, accumulate practical knowledge and strong theoretical knowledge.
- It also gives the students classroom supplement, informal learning environment, break from the routine, creates an interest in subjective professions, real-world experience, connection to community, etc.

Brief Report:

As a part of syllabus, a botanical excursion trip to Sunderban National Park and Kolkata was organized by the department for B.Sc. 2nd, 4th and 6th Semester students. Two faculties Dr. Dimbeshwar Das and Miss Sandeepa Agarwalla accompanied the students in the excursion.

The journey started from Simaluguri Railway Junction. Everything was planned beforehand for food and lodging. The stay for the journey was Sonar Tari located in Sunderban National Park for two days and then in Ullas Residence in Salt Lake, Kolkata for the next 3 days. In Sunderban, the students visited Gosaba Island, Hamilton Bangla, Sajnekhali Tiger reserve and Panchmukhi point. In Kolkata the students visited, BSI, Kolkata, Dakhineswar Mandir, Indian Museum, Victoria Memorial and a local mela. From the excursion the students were able to see the Mangrove vegetation which is a unique adaptation of plants in saline water. They were also able to witness many floras and fauna of Sunderban, the aesthetic beauty of Victoria memorial, herbarium preparation technique in BSI, the Great Banyan Tree located in BSI, the art and fossil galleries of the Indian Museum.

Permission Letter:

From
Dr. Dimbeshwar Das
HOD, Botany
Gargaon College
Simaluguri, Sivasagar
Pin - 785686, Assam

Date: 26/10/2022

To,
The Principal
Gargaon College
Simaluguri, Sivasagar
Pin - 785686, Assam

Subject: Permission to Visit the Kolkatta.

Sir

I am writing this letter to request you to kindly allow us to visit the Kolkatta from 2nd - 10th January 2023, for the academic purpose for the Honours students of the Department of Botany, Gargaon College.

I am hereby also attaching the list of the total number of students and Teacher - in - Charge visiting the Kolkatta.

I also request you to kindly issue the railway concession form for the same.

With regards

Yours truly



(Dr. Dimbeshwar Das)

Head
Department of Botany
Gargaon College, Simaluguri
Dist. Sivasagar Pin 785686, Assam

HOD, Botany
You are hereby entrusted with the entire
responsibility of smooth conduct of the field trip to Kolkatta
from 2nd - 10th January, 2023.
Dr. Das
26/10/2022

List of Students:

List of Students:

Sl. No.	Name of the Student	Class Roll No.	Semester	Age	Gender
1	MADHUJYA GOGOI	255	1st	18	M
2	KRISHNA MONI DUTTA	83	3rd	20	M
3	AAYAN UPAM HANDIQUE	321	3rd	19	M
4	POLLOB SAHU	335	3rd	19	M
5	SHYAMOL BORUAH	340	3rd	20	M
6	NILUTPAL BORUAH	4	3rd	20	F
7	SHABNAM BEGUM	104	5th	20	F
8	DIKUMONI BORAH	173	5th	20	F
9	URBASI CHETIA	190	5th	20	F
10	NISHITA GOGOI	211	5th	21	M
11	SAHIL HUSSAIN	262	5th	20	M
12	NISHITA GOGOI	269	5th	22	M
13	NILOTPAL CHETIA	211	5th	20	M
14	PRACHURJYA GOGOI	321	5th	21	M
15	DIPJYOTI DIHINGIA	323	5th	22	M
16	ABHINOJ BORAH	342	5th	21	M
17	BIKRAM LAHON	308	5th	21	F
18	MRINMOY GOGOI	60	5th	20	F
19	RATUL ALI	244	3rd	20	M
20	JENISMITA SAIKIA	101	3rd	20	F
21	BHITALI HAZARIKA	65	3rd	20	F

[Signature]
17/02/23
Head
Department of Botany
Gargaon College
Dist. Sivaga

Course Code: BC409P

Core Course IX - Practical: Plant Ecology and Phytogeography

1. Study of instruments used to measure microclimatic variables: Soil thermometer, maximum and minimum thermometer, anemometer, psychrometer/hygrometer, rain gauge and lux meter.
2. Determination of pH of various soil and water samples (pH meter, universal indicator/Lovibond comparator and pH paper)
3. Analysis for carbonates, chlorides, nitrates, sulphates, organic matter and base deficiency from two soil samples by rapid field tests.
4. Determination of organic matter of different soil samples by Walkley & Black rapid titration method.
5. Comparison of bulk density, porosity and rate of infiltration of water in soils of three habitats.
6. Determination of dissolved oxygen of water samples from polluted and unpolluted sources.
7. (a). Study of morphological adaptations of hydrophytes and xerophytes (four each).
(b). Study of biotic interactions of the following: Stem parasite (*Cuscuta*), Root parasite (*Orobancha*) Epiphytes, Predation (Insectivorous plants).
8. Determination of minimal quadrat size for the study of herbaceous vegetation in the college campus, by species area curve method (species to be listed).
9. Quantitative analysis of herbaceous vegetation in the college campus for frequency and comparison with Raunkiaer's frequency distribution law.
10. Quantitative analysis of herbaceous vegetation for density and abundance in the college campus.
11. Field visit to familiarise students with ecology of different sites.

Suggested Readings

1. Odum, E.P. (2005). Fundamentals of ecology. Cengage Learning India Pvt. Ltd., New Delhi. 5th edition.
2. Singh, J.S., Singh, S.P., Gupta, S. (2006). Ecology Environment and Resource Conservation. Anamaya Publications, New Delhi, India.
3. Sharma, P.D. (2010). Ecology and Environment. Rastogi Publications, Meerut, India. 8th edition.
4. Wilkinson, D.M. (2007). Fundamental Processes in Ecology: An Earth Systems Approach.

Photographs:



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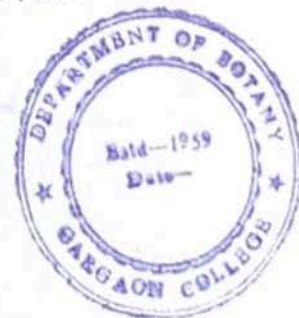
CONTENTS

FIELD REPORT
ON
SUNDARBAN NATIONAL PARK &
KOLKATA



Submitted by-

B. Sc. (Hons.), 4th Semester (CBCS)
Roll No. - 13220153 Regd.No.- 52107315
Department of Botany
Gargaon College, Simaluguri

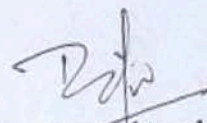


CERTIFICATE

This is to certify that the field report on "SUNDARBAN NATIONAL PARK and KOLKATA" has been submitted by Bhuti Hazarika Roll No. 13220153 A student of B. Sc. 4th semester, Department of Botany, Gargaon College, Simaluguri, District- Sivasagar, Pin- 785686 for session 2022-23 as per syllabus of Botany(Hons. CBCS) under Dibrugarh University.

The field report is found to be satisfactory.

1. Clear and accurate observations.
2. Accurate recording of data.
3. Appropriate conclusions.



Signature of teacher in charge

Head
Department of Botany
Gargaon College, Simaluguri
Dist. Sivasagar, PIN 785686, Assam

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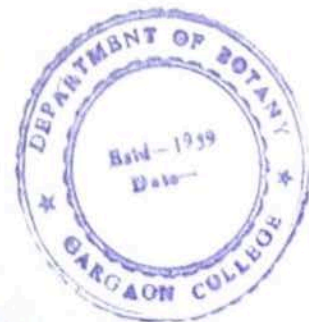
FIELD REPORT

ON SUNDARBAN NATIONAL PARK & KOLKATA



Submitted by- *Nitipol Bonuati*

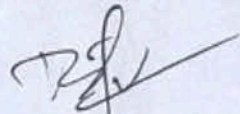
B. Sc. (Hons.), 4th Semester (CBCS)
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CERTIFICATE

This is to certify that the field report on "SUNDARBAN NATIONAL PARK and KOLKATA" has been submitted by Nikhil Boruah, Roll No. 13220610. A student of B. Sc. 4th semester, Department of Botany, Gargaon College, Simaluguri, District- Sivasagar, Pin- 785686 for session 2022-23 as per syllabus of Botany (Hons. CBCS) under Dibrugarh University.

The field report is found to be satisfactory.



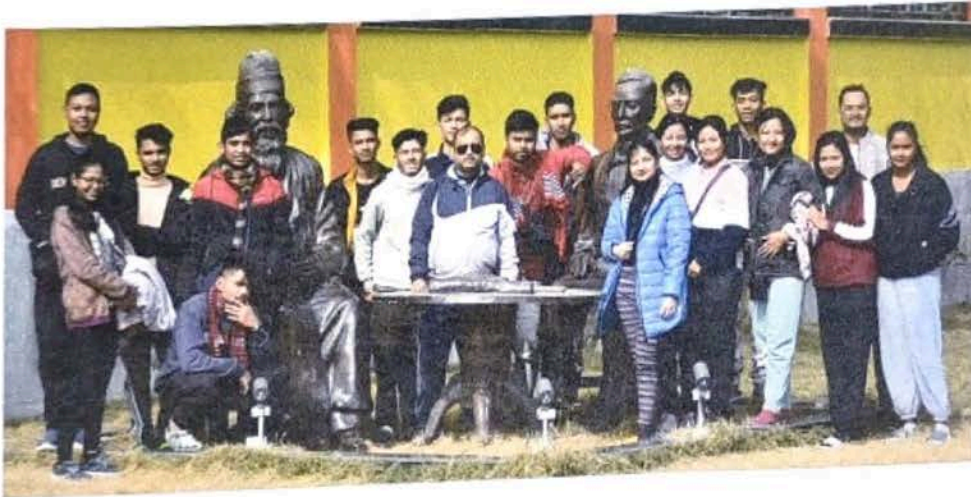
Signature of teacher in charge

Head
Department of Botany
Gargaon College, Simaluguri
Dist. Sivasagar, PIN 785686, Assam

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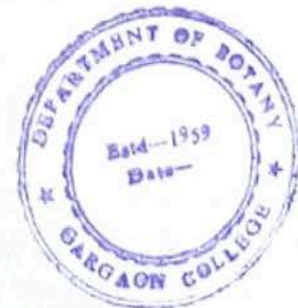
CONTENT

FIELD REPORT
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SUNDARBAN NATIONAL PARK &
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Submitted by-

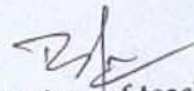
B. Sc. (Hons.), 4th Semester (CBCS)
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Department of Botany
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CERTIFICATE

This is to certify that the field report on "SUNDARBAN NATIONAL PARK and KOLKATA" has been submitted by Lakshmita Das, Roll No. 13220176 A student of B. Sc. 4th semester, Department of Botany, Gargaon College, Simaluguri, District- Sivasagar, Pin- 785686 for session 2022-23 as per syllabus of Botany(Hons. CBCS) under Dibrugarh University.

The field report is found to be satisfactory.



Signature of teacher in charge

Head
Department of Botany
Gargaon College, Simaluguri
Dist. Sivasagar, PIN 785686, Assam

**FIELD REPORT
ON
SUNDARBAN NATIONAL PARK &
KOLKATA**



Submitted by-

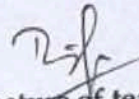
B. Sc. (Hons.), 4th Semester (CBCS)
Roll No. -13220094, Regd. No. -52107437
Department of Botany
Gargaon College, Simaluguri



CERTIFICATE

This is to certify that the field report on "SUNDARBAN NATIONAL PARK and KOLKATA" has been submitted by Pollob Sahu Roll No. 13220094. A student of B. Sc. 4th semester, Department of Botany, Gargaon College, Simaluguri, District- Sivasagar, Pin- 785686 for session 2022-23 as per syllabus of Botany (Hons. CBCS) under Dibrugarh University.

The field report is found to be satisfactory.



Signature of teacher in charge

Head
Department of Botany
Gargaon College, Simaluguri
Dist. Sivasagar, PIN 785686, Assam

FIELD REPORT
ON
SUNDARBAN NATIONAL PARK &
KOLKATA



Submitted by-

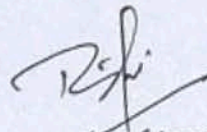
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Department of Botany
Gargaon College, Simaluguri



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This is to certify that the field report on "SUNDARBAN NATIONAL PARK and KOLKATA" has been submitted by Shyamol Boruah, Roll No. 13220124. A student of B. Sc. 4th semester, Department of Botany, Gargaon College, Simaluguri, District- Sivasagar, Pin- 785686 for session 2022-23 as per syllabus of Botany(Hons. CBCS) under Dibrugarh University.

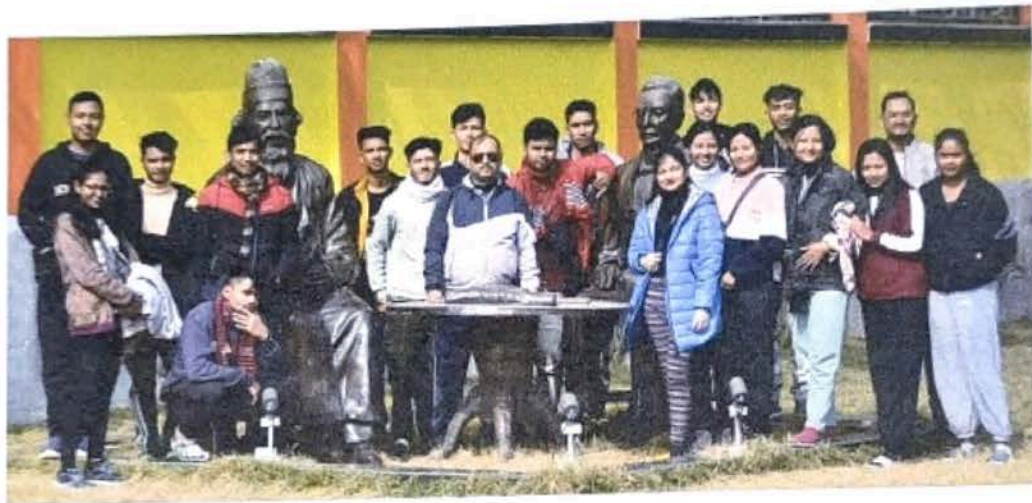
The field report is found to be satisfactory.



Signature of teacher in charge

Head
Department of Botany
Gargaon College, Simaluguri
Dist. Sivasagar, PIN 785686, Assam

FIELD REPORT
ON
SUNDARBAN NATIONAL PARK &
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Submitted by-

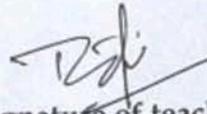
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This is to certify that the field report on "SUNDARBAN NATIONAL PARK and KOLKATA" has been submitted by Ratul AB, Roll No. 13220106 A student of B. Sc. 4th semester, Department of Botany, Gargaon College, Simaluguri, District- Sivasagar, Pin- 785686 for session 2022-23 as per syllabus of Botany(Hons. CBCS) under Dibrugarh University.

The field report is found to be satisfactory.



Signature of teacher in charge

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Dist. Sivasagar, PIN 785686, Assam

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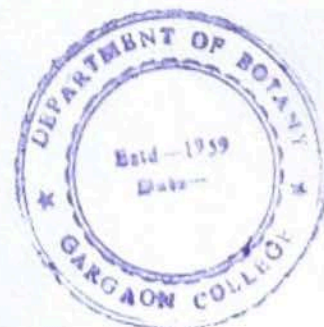
FIELD REPORT

ON SUNDARBAN NATIONAL PARK & KOLKATA



Submitted by- *Jayan Upam Handique*

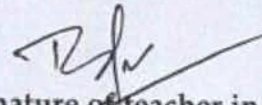
B. Sc. (Hons.), 4th Semester (CBCS)
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CERTIFICATE

This is to certify that the field report on "SUNDARBAN NATIONAL PARK and KOLKATA" has been submitted by Ayanjoy Goudim, Roll No. 13220002, A student of B. Sc. 4th semester, Department of Botany, Gargaon College, Simaluguri, District- Sivasagar, Pin- 785686 for session 2022-23 as per syllabus of Botany (Hons. CBCS) under Dibrugarh University.

The field report is found to be satisfactory.



Signature of teacher in charge

Head
Department of Botany
Gargaon College, Simaluguri
Dist. Sivasagar, PIN 785686, Assam

FIELD REPORT
ON
SUNDARBAN NATIONAL PARK &
KOLKATA



Submitted by-

B. Sc. (Hons.), 4th Semester (CBCS)
Roll No. -13220069, Regd.No.- 52107382
Department of Botany
Gargaon College, Simaluguri

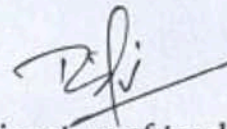


CERTIFICATE

This is to certify that the field report on "SUNDARBAN NATIONAL PARK and KOLKATA" has been submitted by KRISHNA DUTTA, Roll No. 13220069A student of B. Sc. 4th semester, Department of Botany, Gargaon College, Simaluguri, District- Sivasagar, Pin- 785686 for session 2022-23 as per syllabus of Botany (Hons. CBCS) under Dibrugarh University.

The field report is found to be satisfactory.

1. Clear and accurate observation.
2. Accurate recording of facts.
3. Appropriate conclusion.



Signature of teacher in charge

Head
Department of Botany
Gargaon College, Simaluguri
Dist. Sivasagar, PIN 785686, Assam