

**Holy Cross College, Agartala**  
**Department of Botany**

To  
The Principal,  
Holy Cross College,  
Jubatara, Lembuchera, Agartala

**Subject: Permission for conducting Field Survey.**

Rev. Father

With due respect I would like to inform you that Botany Department is going to organize a Field Survey on 20<sup>th</sup> April, 2018. As it is a compulsory part of 4<sup>th</sup> Semester Hons. and General Syllabus. May I also request to provide the transport facility for students and faculties.

So, I pray and hope that you will be kind enough to grant the permission.

Thanking you,

Date: 16<sup>th</sup> April, 2018

Yours faithfully  
*Dr. Dipanwita Chaudhuri Sil*  
16/04/2018  
(Dr. Dipanwita Chaudhuri Sil)

HOD,

Department of Botany,  
Holy Cross College, Agartala

*Granted*  
*[Signature]*  
PRINCIPAL  
HOLY CROSS COLLEGE  
AGARTALA

**Holy Cross College, Agartala**  
**Department of Botany**

To  
The Principal,  
Holy Cross College,  
Jubatara, Lembuchera, Agartala

**Subject: Permission for conducting Field Survey.**

Rev. Father

With due respect I would like to inform you that Botany Department is going to organize a Field Survey on 14<sup>th</sup> August, 2018. for 3<sup>rd</sup> Semester Hons. and General students. May I also request to provide the transport facility for students and faculties.

So, I pray and hope that you will be kind enough to grant the permission.

Thanking you,

Date: 9<sup>th</sup> August. 2018

Yours faithfully

*Dr. Dipanwita Chaudhuri Sil*  
(Dr. Dipanwita Chaudhuri Sil) 9/08/2018

HOD,

Department of Botany,  
Holy Cross College, Agartala

*Granted*  
*[Signature]*

PRINCIPAL  
HOLY CROSS COLLEGE  
AGARTALA

**Holy Cross College, Agartala**  
**Department of Botany**

To  
The Principal,  
Holy Cross College,  
Jubatara, Lembuchera, Agartala

**Subject: Permission for conducting Field Survey.**

Rev. Father

With due respect I would like to inform you that Botany Department is going to organize a Field Survey on 26<sup>th</sup> April, 2019. As it is a compulsory part of 4<sup>th</sup> Semester Hons. and General Syllabus. May I also request to provide the transport facility for students and faculties.

So, I pray and hope that you will be kind enough to grant the permission.

Thanking you,

Date: 19<sup>th</sup> April, 2019

*Permission granted*  
*B. M. S.*

PRINCIPAL  
HOLY CROSS COLLEGE  
AGARTALA

Yours faithfully

*Dr. Dipanwita Chaudhuri Sil*  
*19/4/2019*  
(Dr. Dipanwita Chaudhuri Sil)

HOD,

Department of Botany,  
Holy Cross College, Agartala

**Holy Cross College, Agartala**  
**Department of Botany**

To  
The Principal,  
Holy Cross College,  
Jubatara, Lembuchera, Agartala

**Subject: Permission for conducting Field Survey.**

Rev. Father

With due respect I would like to inform you that Botany Department is going to organize a Field Survey on 12<sup>th</sup> July, 2019. for 3<sup>rd</sup> Semester Hons. and General students. May I also request to provide the transport facility for students and faculties.

So, I pray and hope that you will be kind enough to grant the permission.

Thanking you,

Date: 8<sup>th</sup> July, 2019

Yours faithfully

*Dr. Dipanwita Chaudhuri Sil*  
8/7/2019  
(Dr. Dipanwita Chaudhuri Sil)

HOD,

Department of Botany,  
Holy Cross College, Agartala

*Granted*  
*[Signature]*  
PRINCIPAL  
HOLY CROSS COLLEGE  
AGARTALA

**Holy Cross College, Agartala**  
**Department of Botany**

To  
The Principal,  
Holy Cross College,  
Jubatara, Lembuchera, Agartala

**Subject: Permission for conducting Field Survey.**

Rev. Father

With due respect I would like to inform you that Botany Department is going to organize a Field Survey on 6<sup>th</sup> March 2020. As it is a compulsory part of 4<sup>th</sup> Semester Hons. and General Syllabus. May I also request to provide the transport facility for students and faculties.

So, I pray and hope that you will be kind enough to grant the permission.

Thanking you,

Date: 1<sup>st</sup> March 2020

Yours faithfully

*Dr. Dipanwita Chaudhuri Sil*  
1/3/2020

(Dr. Dipanwita Chaudhuri Sil)

HOD,

Department of Botany,  
Holy Cross College, Agartala

*Granted*  
*Bing*

PRINCIPAL  
HOLY CROSS COLLEGE  
AGARTALA

**Holy Cross College, Agartala**  
**Department of Botany**

To  
The Principal,  
Holy Cross College,  
Jubatara, Lembuchera, Agartala

**Subject: Permission for conducting Field Survey.**

Rev. Father

With due respect I would like to inform you that Botany Department is going to organize a Field Survey on 15th December, 2020. for 3<sup>rd</sup> Semester Hons. and General students. May I also request to provide the transport facility for students and faculties.

So, I pray and hope that you will be kind enough to grant the permission.

Thanking you,

Date: 9<sup>th</sup> December 2020

Yours faithfully

*Dr. Dipanwita Chaudhuri Sil*  
9/12/20  
(Dr. Dipanwita Chaudhuri Sil)

HOD,

Department of Botany,  
Holy Cross College, Agartala

*Granted*  
*[Signature]*

PRINCIPAL  
HOLY CROSS COLLEGE  
AGARTALA

Holy Cross College, Agartala  
Department of Botany

To  
The Principal,  
Holy Cross College,  
Jubatara, Lembuchera, Agartala

**Subject: Permission for conducting Field Survey.**

Rev. Father

With due respect I would like to inform you that Botany Department is going to organize a Field Survey on 2nd February 2021. for 3<sup>rd</sup> Semester Hons. and General students. May I also request to provide the transport facility for students and faculties.

So, I pray and hope that you will be kind enough to grant the permission.

Thanking you,

Date: 27<sup>th</sup> January, 2021

Yours faithfully

*Dr. Dipanwita Chaudhuri'sil*  
27/01/2021  
(Dr. Dipanwita Chaudhuri Sil)

HOD,

Department of Botany,  
Holy Cross College, Agartala

*Grant*  
*B. M. J.*  
PRINCIPAL  
HOLY CROSS COLLEGE  
AGARTALA

## Field study report

Date of the Visit : 20-04-2018  
Venue : M.B.B College area  
Name of the Supervisor : Dr. Dipanwita Choudhuri Sil, Dr. Debasree Lodh  
No. of the Students : Batch of 22 Students of B.SC, 4<sup>th</sup> Semester, Zoology(HONS).

### DESCRIPTION OF THE STUDY

On the appointed date at 10 A.M students and all the concern faculties gathered in the college premises and after registering student's name and roll number for participating in the field work, our respected faculty members delivered the necessary instructions regarding the field study. Our teachers than accompanied with the students to the assigned field where they were asked dispersed in groups and collect the specimen available photographs were taken from different spots and the specimen were collected for the vials for further study in the laboratory.

The extensive survey of the land near M.B.B College Lake, Colleetilla revealed different types of species of plants (herb and shrub). Few such specimens belong to the given below:

*Colocasia esculenta*, *Michelia champaca*, *Ziziphus nummularia*, *Azadirachta indica*,  
*Mesua ferrea*, *Microcos paniculata*, *Sida cordifolia* etc.





## Field study report

Date of the Visit :14- 08- 2018  
Venue : Gandhigram area  
Name of the Supervisor : Dr. Dipanwita Choudhuri Sil, Dr. Debasree Lodh  
No. of the Students : Batch of 22 Students of B.SC, 3<sup>rd</sup> Semester, Zoology(HONS).  
and 20 Students of B.SC, 3<sup>rd</sup> Semester, Human Physiology  
(HONS).

### DESCRIPTION OF THE STUDY

On the appointed date at 10 A.M students and all the concern faculties gathered in the college premises and after registering student's name and roll number for participating in the field work, our respected faculty members delivered the necessary instructions regarding the field study. Our teachers than accompanied with the students to the assigned agricultural field where we were asked dispersed in groups and collect the specimen available photographs were taken from different spots and the specimen were collected for the vials for further study in the laboratory.



## Field study report

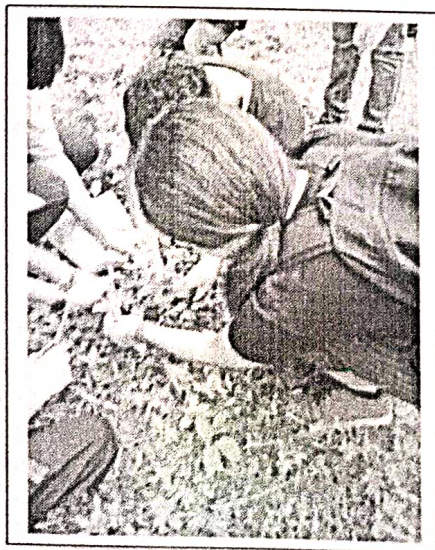
Date of the Visit : 26-04-2019  
Venue : Bhubanban area  
Name of the Supervisors : Dr. Dipanwita Choudhuri Sil, Dr. Debasree Lodh  
No. of the Students : Batch of 27 Students of B.SC, 4<sup>th</sup> Semester, Zoology (HONS).  
Batch of 20 Students of B.SC, 4<sup>th</sup> Semester, Human Physiology

### DESCRIPTION OF THE STUDY

On the appointed date at 10 A.M students and all the concern faculties gathered in the college premises and after registering student's name and roll number for participating in the field work, our respected faculty members delivered the necessary instructions regarding the field study. Our teachers than accompanied with the students to the assigned field where we were asked dispersed in groups and collect the specimen available photographs were taken from different spots and the specimen were collected for the vials for further study in the laboratory.

The extensive survey of the land near Bhubanban area. Bhubanban area revealed different types of species of plants (herb and shrub). Few such specimens belong to the given below:

*Solanum nigrum*, *Mimosa pudica*, *Scoparia dulcis*, *Cleome viscosa*, *Leucus aspera*, *Colocasia esculenta*, *Michelia champaca*, *Ziziphus nummularia*, *Azadirachta indica*, *Mesua ferrea*, *Microcos paniculata*, *Sida cordifolia* etc.



## Field study report

*Date of the Visit* : 12-07-2019  
*Venue* : Katlamara area  
*Name of the Supervisors* : Dr. Dipanwita Choudhuri Sil, Dr. Debasree Lodh,  
Dr. Somnath Kar  
*No. of the Students* : Batch of 38 Students of B.SC, 3<sup>rd</sup> Semester, Zoology(HONS),  
31 Students of B.SC, 3<sup>rd</sup> Semester, Human Physiology (HONS) and  
10 Students of B.SC, 3<sup>rd</sup> Semester, Botany (HONS)

### DESCRIPTION OF THE STUDY

On the appointed date at 10 A.M students and all the concern faculties gathered in the college premises and after registering student's name and roll number for participating in the field work, our respected faculty members delivered the necessary instructions regarding the field study. Our teachers than accompanied with the students to the assigned field where we were asked dispersed in groups and collect the specimen available photographs were taken from different spots and the specimen were collected for the vials for further study in the laboratory.



## Field study report

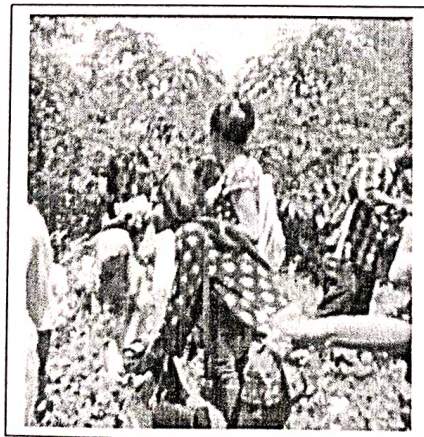
Date of the Visit : 6-03-2020  
Venue : M.B.B College area  
Name of the Supervisor : Dr. Dipanwita Choudhuri Sil, Dr. Debasree Lodh,  
Dr. Somnath Kar  
Name of the Students : Batch of 38 Students of B.SC, 4<sup>th</sup> Semester, Zoology(HONS), 31  
Students of B.SC, 4<sup>th</sup> Semester, Human Physiology (HONS) and  
10 Students of B.SC, 4<sup>th</sup> Semester, Botany (HONS)

### DESCRIPTION OF THE STUDY

On the appointed date at 10 A.M students and all the concern faculties gathered in the college premises and after registering student's name and roll number for participating in the field work, our respected faculty members delivered the necessary instructions regarding the field study. Our teachers than accompanied with the students to the assigned field where we were asked dispersed in groups and collect the specimen available photographs were taken from different spots and the specimen were collected for the vials for further study in the laboratory.

The extensive survey of the land near M.B.B College Lake, Colletilla revealed different types of species of plants (herb and shrub). Few such specimens belong to the following families:

*Spermacoce hispida, Mikania cordata, Ageratum conyzoides, Tridax procumbens, Oldenlandia corymbosa, Ixora coccinea, Croton bonplandianum, Acacia auriculiformis, Senna alata, Samanea saman, Peltophorum inerme, Solanum nigrum, Mimosa pudica, Scoparia dulcis, Cleome viscosa, Leucus aspera, Colocasia esculenta, Colocasia esculenta, Michelia champaca, Ziziphus nummularia, Azadirachta indica, Mesua ferrea, Microcos paniculata, Sida cordifolia etc.*



## Field study report

Date of the Visit : 15-12-2020  
Venue : Katlmara area  
Name of the Supervisor : Dr. Dipanwita Choudhuri Sil, Dr. Debasree Lodh,  
Dr. Somnath Kar  
Name of the Students : Batch of 40 Students of B.SC, 3<sup>rd</sup> Semester, Zoology(HONS),  
24 Students of B.SC, 3<sup>rd</sup> Semester, Human Physiology (HONS) and  
18 Students of B.SC, 3<sup>rd</sup> Semester, Botany (HONS)

### DESCRIPTION OF THE STUDY

On the appointed date at 10 A.M we gathered in the college premises and after registering our name and roll number for participating in the field work. Our respected faculty members delivered the necessary instructions regarding the field study. Our teachers then accompanied with the students to the assigned agricultural field where we were asked dispersed in groups and collect the specimen available photographs were taken from different spots and the specimen were collected for the vials for further study in the laboratory.

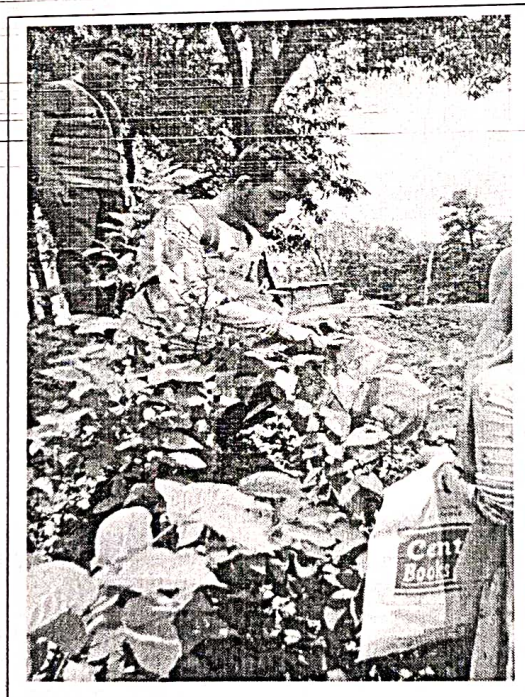


## Field study report

Date of the Visit : 2-02-2021  
Venue : Durgabari Tea garden area  
Name of the Supervisor : Dr. Dipanwita Choudhuri Sil, Dr. Debasree Lodh,  
Dr. Somnath Kar  
Name of the Students : Batch of 40 Students of B.SC, 3<sup>rd</sup> Semester, Zoology(HONS),  
24 Students of B.SC, 3<sup>rd</sup> Semester, Human Physiology (HONS) and  
18 Students of B.SC, 3<sup>rd</sup> Semester, Botany (HONS)

### DESCRIPTION OF THE STUDY

On the appointed date at 10 A.M we gathered in the college premises and after registering our name and roll number for participating in the field work. Our respected faculty members delivered the necessary instructions regarding the field study. Our teachers then accompanied with the students to the assigned field where we were asked dispersed in groups and collect the specimen available photographs were taken from different spots and the specimen were collected for the vials for further study in the laboratory.



To,  
The Principal,  
Holy Cross College,  
Lembhucherra, Agartala.

Subject: Permission for an educational tour cum excursion to Shillong

Rev. Father,

With due respect I would like to inform you that Botany Department is going to organize a Field trip to Shillong from 25<sup>th</sup> December, 2021 to 1<sup>st</sup> January, 2022. We think students can gain practical knowledge of various informations and knowledge about plants, their ecology etc. other than text books. This would be an educational trip as well as a excursion making it an opportunity for the students to attain good knowledge and get real-time exposure. This will also help in refreshing the student's minds. So we need your permission as it is a compulsory part of Botany Hons. Students. May I also request to provide the accommodation and transport facility for students and faculties.

So, I pray and hope that you will be kind enough to grant the permission.

Thanking you,

Yours faithfully

Date: 16<sup>th</sup> December, 2021

*Dr. Dipanwita Chaudhuri Sil*  
(Dr. Dipanwita Chaudhuri Sil) 16/12/2021

HOD, Department of Botany,  
Holy Cross College, Agartala

*Approved*  
*[Signature]*  
17/12/2021.

PRINCIPAL  
HOLY CROSS COLLEGE  
AGARTALA



# HOLY CROSS COLLEGE

Jubatara, P.O. Lembucherra, Mohanpur Road, West Tripura, PIN: 799 210  
Phone: (0381) 286 5222 / 9402315672 Fax: +91-381-2865222  
E-mail: principalhccagt@gmail.com Web: www.holycrosscollege.in

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## Department of Botany

### SHILLONG STUDY TOUR

25/12/2021 - 1/01/2022

According to **Francis Bacon**, travelling is a part of education. An excursion is not just a pleasure trip; it enhances the knowledge of the students beyond the four walls of the classroom. To provide such enriching experience to students, Botany Department of Holy Cross College Agartala organized an Educational tour/excursion in the vicinity of Shillong, Meghalaya. A team of **12** students (B.Sc. Sem-V) of Botany Honors participated in the Educational tour conducted and supervised by the Professors of the Department of Botany.

The names of the students participating in the tour was as follows-

1. Ambalika Chaudhuri.
2. Ankita Das.
3. Antara Bose.
4. Priyashi kar.
5. Levinia Hrangkhawl.
6. Parbati Debnath.
7. Prima Debbarma.
8. Nabani Nandi.
9. Ramkrishna Debnath.
10. Sancity Debbarma.



11. Pallab Dey.

12. Chayan Chakraborty.

The tour was conducted for almost 7 days starting from 25<sup>th</sup> December 2021 to ending on 1<sup>st</sup> January 2022.



Students who participated in the Tour along with professors (27/12/2021)

## Introduction:

“We still do not know one thousands of one percent of what nature has revealed to us” -ALBERT EINSTEIN

A Week Soaked in love and nature in Shillong, Meghalaya. It was an Educational trip for the 5th semester Students of Botany Department Holy Cross College, Agartala Tripura. Our journey started from Agartala Railways Station on 25th of December.

In a week's time, we had experienced the most heartfelt hospitality in Shillong and its surrounding areas! It was the wintry season of late December. Clear Sky, lungful of fresh air and an exotic aroma coming from the deep dense forest, Mesmerizing Mountains kept us company as we explored SHILLONG! A week spent in the breathtaking beauty of Shillong!

A Week in Shillong was spent in mirth and joy exploring the nook and corner of this North east Indian state cradled amid the Khasi Jaintia hills! Shillong is beautiful with all her picturesque lakes, turquoise hue of cascading falls, dense lush forest, robust flavorful cuisine and mysterious blooms! Clouds graze over the mountains.

We reached Guwahati by 26th in the morning and then our journey started from there. We reached Shillong by 2pm in the afternoon. We got our accommodation in the Pastoral Centre, Shillong which was arranged by our Principal Fr. Benny K John. Pastoral Centre, Shillong being surrounded by nature's giants, situated at the highest elevated point with a mesmerizing view of the city life. The road to Pastoral center being covered with lush green trees, pines, rhododendrons and many more. The fresh air, the ambience, the atmosphere helped us get rid of tiredness caused from the long journey. Our main Shillong tour started from 27<sup>th</sup> December 2021.

## Geographic location and climatic condition:

The study tour was conducted in Shillong, Meghalaya. Shillong is at 25.57°N 91.88°E. It lies on the Shillong Plateau, the only major uplifted structure in the northern Indian shield. The city lies in the center of the plateau and is surrounded by hills, three of which are revered in Khasi tradition: Lum Sohpetbneng, Lum Diengiei, and Lum Shyllong.

Shillong is just 100 km from Guwahati, which can be accessed by road along NH 40, a journey of about 2 hours 30 minutes through lush green hills and Umiam lake in between.

Weather conditions in Shillong are typically pleasant, pollution free. Its summers are cool and very rainy and the temperature varies from 23°C. Its winters are extremely cold yet dry and the temperature varies from 4°C. Shillong is subject to vagaries of the monsoon. The monsoons arrive in June and it rains almost until end of October.

### Motive of the study tour:

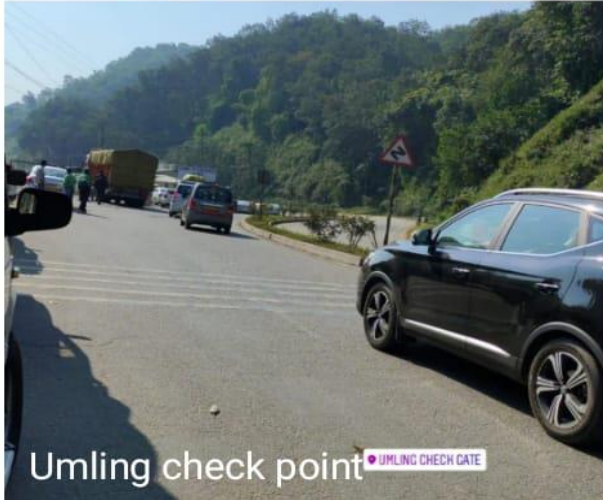
Educational tours are part and parcel of the life of students. Students need rest and entertainment after working hard for many days.

Excursions, field trips or study tours can provide us the solace and help us form an escape route from the tedium of our nerve-wrecking hectic schedule of activities.

Our visit to the hills of Shillong, different falls, lakes, gardens, caves etc. were enjoyed by us. We were mesmerized by the panoramic views of the hills and the lakes.

**Photo plate-1**

25/12/2021-26/12/2021



## Summarization of the journey:

25/12/2021- Departure from Agartala Railway station.

26/12/2021- Arrival at Guwahati railway station and Shillong Pastoral Centre.

### **Places visited-**

Day 1- 27/12/2021- Elephant falls, Cherrapunjee, Mawsmai caves.

Day 2- 28/12/2021- B.S.I- Botanical survey of India, N.E.H.U.

Day 3- 29/12/2021- Dawki, Mawlynnong, Single decker root bridge.

Day 4- 30/12/2021- Ward's lake, St. Marry Cathedral.

Day 5- 31/12/2021- Golf ground, Orchid garden.

Day 6- 1/1/2022- Departure from Shillong.

### **Day-wise report:**

Day1- 27/12/2021-

On 27th of December we went to visit The Elephant falls. A two-tier waterfall situated at the outskirts of Shillong, in the East Khasi Hills. The mountain stream descends through two successive falls set in dells of fern-covered rocks. The first fall is very board and hidden among trees. The second fall looks most spectacular with crystal clear water falling over sharp rocks. The sides of the waterfall are flanked by lush greenery and are rich in ferns.

On the same day we visited Cherapunjee. It is located on the Shillong Plateau about 35 miles southwest of Shillong. It's known for the famous Seven Sisters Falls. We hired a bus for our trip that day. The way to Seven Sisters Falls were filled with breathtaking views, enchanting nature's beauty, beautiful clouds dancing over lush green meadows.

Our next stop was Nohkalikai Falls it is the tallest plunge waterfall in India. Albert Einstein said "Look deep into nature, and then you will understand everything better". We were simply Mesmerized by the Serene view of the Falls. It seemed everything was healed.

Our next destination was Mawsmat Caves It is a network of underground caves which is full of beautiful and sometimes scary stalactites and stalagmites, narrow pathways. We had our time there, all the students including Professors were eagerly excited to go inside the cave.

Though the day was full of adventures we were happy and delighted to have the best times of our college days. We got back to The Pastoral Centre and got ourselves some rest. This marks the end of day 1.

Photo-plate 2- 27/12/2021

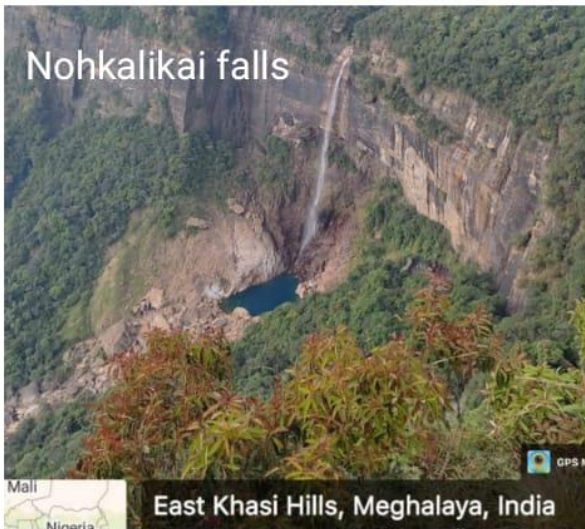


Elephant falls



Mawsmai caves

Cherrapunji, Meghalaya, India  
SH 5, Cherrapunji, Meghalaya 793108, India  
Lat 25.23809°  
Long 91.732622°  
27/12/21 03:13 PM



Nohkalikai falls

East Khasi Hills, Meghalaya, India



Cherrapunji, Meghalaya, India  
SH 5, Cherrapunji, Meghalaya 793108, India  
Lat 25.238092°



Shillong, Meghalaya, India

Tripura Castle Rd, Risa Colony, Malki, Shillong, Meghalaya 793014, India  
Lat 25.566733°  
Long 91.890242°  
27/12/21 07:45 AM



Shillong, Meghalaya, India

Upper Shillong, Laitmynsaw, Shillong, Meghalaya 793005, India  
Lat 25.538075°  
Long 91.821952°  
27/12/21 09:10 AM

## **Day 2- 28/12/2021:**

"THE BEST EDUCATION DOES NOT HAPPEN AT A DESK, BUT RATHER ENGAGED IN EVERYDAY LIVING -HANDS ON, EXPLORING, IN ACTIVE REALATIONSHIP WITH THE LIFE" - VINCE GOWMAN

The other day that is 28th December, We Visited the Botanical Survey of India, Eastern Regional Centre Shillong. It was a 20 minutes' walk from The Pastoral Centre where we stayed. We walked through the Narrow lanes surrounded with beautiful villas, bungalows made with the famous limestone found in Shillong covered with pines and beautiful *Rhododendrons*.

**Botanical Survey of India**, Eastern Regional Centre, Shillong has National Orchidarium and tissue culture laboratory. It is a circle with the jurisdiction of states of Assam, Manipur, Meghalaya, Mizoram, Nagaland and Tripura. The Museum at Eastern Regional Centre, Shillong possesses dried and preserved specimen of various groups of plants for educating students and general public. Pictorial glimpses, Portraits and photograph of orchids and other ornamental plants add to the beauty of this museum. Charts, maps and drawings of interesting endemic, rare groups of plants are also displayed. The Library at Eastern Regional Centre, Shillong currently holds about 7042 accessioned books and journals on various fields of botanical science, especially taxonomy, floristic, ethnobotany, phytogeography, conservation and environmental sciences. Many important publications like index kewensis, Genera Plantarum, Species Plantarum, Icon Plantarum, Taxonomic Literature, Flora Malesiana, The Orchids of Sikkim Himalaya, etc. are available in the library. International journals, Current science Proceeding of the National academy of sciences, Journal of Economic and Taxonomic Botany and many more.

The Officers of BSI were very humble and kind. They took us to the tissue culture lab and made us understand tissue culture. They were working with Pitcher Plant. They took us to the Herbarium helped us understand the taxonomy. It really helped us understand taxonomy briefly which we couldn't study due to covid Pandemic. As it was really cold, they offered us some tea and biscuits. They took us to the National Orchidarium which was so beautifully arranged with different varieties of orchids and other plants such as pitcher plant. They took us to the Biotechnology lab



and showed us different instruments used for DNA manipulation and analysis, expression and purification of proteins, cell and tissue culture techniques.

It was really a wonderful time that offered us variety of learning styles and intelligences beyond books. Then we had our lunch at a restaurant. Our next destination was North-Eastern Hill University. All the students including our teachers were really excited for visiting this place. We had a great time there. The university is in the suburb of Shillong. The ambiance there was peaceful and surrounded by tall trees and rhododendrons, there is a beautiful lake in the front side of the campus that mesmerized us with its serene beauty. The entire university is surrounded with beautiful and eye-catching mountains. We could feel the fresh breeze in the air the entire atmosphere made us feel all fresh and new. The professors of Botany Department took us to the green houses. We had a brief walk through the green house. They then took us to the Botany lab where they showed us different equipment used in tissue culture. They were working with the production of Black rice through tissue. They took us to the Biotechnology lab where they explained about the instruments used for DNA sequencing, RNA sequence separation, Chromatography. They were working with production of Pumpkin from the north-east. The visit to North-Eastern Hill University really motivated us and made us fall in love with Botany Once again, as it is said **Botany** is the Literature of Science is proved true. We had the best experience at B.S.I and N.E.H.U.

Photo-plate 3- 28/12/2021



*B.S.I- Botanical Survey of India, Shillong*

Photo-plate 3.1- 28/12/2021



Rhododendron



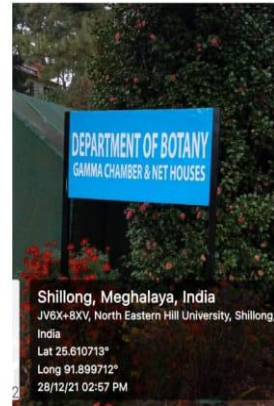
Kangaroo paws (plant)



Brassica oleracea



Shillong, Meghalaya, India  
123, Laitumkrah Point Towards New Colony, Laitum  
Meghalaya 793003, India  
Lat 25.578978°  
Long 91.89891°  
28/12/21 12:20 PM



Shillong, Meghalaya, India  
JV6X+8XV, North Eastern Hill University, Shillong,  
India  
Lat 25.610713°  
Long 91.899712°  
28/12/21 02:57 PM



Cycas pectinata  
(Cycadaceae)  
Cone



Pitcher plant



Polystictus sp.  
(Hymenochaetaceae)  
Fungi



Leather leaf Mahonia



Onosylen indicum  
(Rubiaceae)  
Fruit

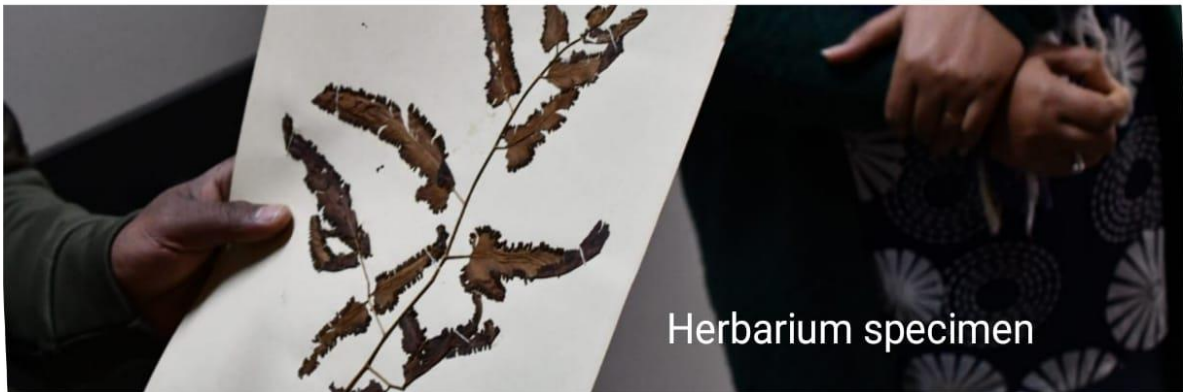
*Different species and National orchidarium, B.S.I, Shillong*

Photo-plate 3.2- 28/12/2021



Botanical Survey of India, Shillong.

Photo-plate 3.3- 28/12/2021



*Botanical Survey of India, Shillong.*

Photo-plate 3.4- 28/12/2021



North Eastern Hill University (N.E.H.U), Shillong.

**Photo-plate 3.5- 28/12/2021**



*North Eastern Hill University (N.E.H.U), Shillong.*

### **Day 3- 29/12/2021**

29th December almost towards the end of our trip we visited Dawki, living root bridge, Mawlynnong Village.

The distance from Pastoral Centre to Dawki was quite long it took 5 hours to reach there. We booked a bus that day. On the way to Dawki we stopped by some unknown area and collected some Plant Species. We collected some ferns, some pteridophytes, some flowering plants, some Lycopodium species, etc. We enjoyed a lot in the bus dancing and grooving with the music amidst the nature tall trees, pines, mountains and clouds dancing on the mountains. We could feel the cold breeze in the air that really made us the happiest. Our next destination was Mawlynnong Village it is a village located in the East Khasi Hills. It is notable for its cleanliness and also known as Asia's cleanest Village. The roads in the village are so clean its seems that we could walk there being barefoot. The next stop was The Living root bridge A unique wonder of the world. It was a 10 minutes' walk down to reach the Root bridge and 15 minutes' walk back to the main road. The destination was the Umngot River or, Dawki River as it is popularly known, is in the border town of Dawki, and is said to be one of the cleanest rivers that we will ever come across. It is located in the West Jaintia Hills District. The water in the Dawki River is so clear and transparent that the surface looks like crystal glass making the sand and rocks inside the river visible and the boats in the river seems to float on the water and in the air sometimes creates an illusion. It was an hour ride from one side of the river to the other side. As we were little late to reach Dawki it become almost dark while returning. The pristine clear water, the mesmerizing view, made us fall in love with nature again and again. Then we went back to the Pastoral Centre and were soon asleep as we had a really tiring day.

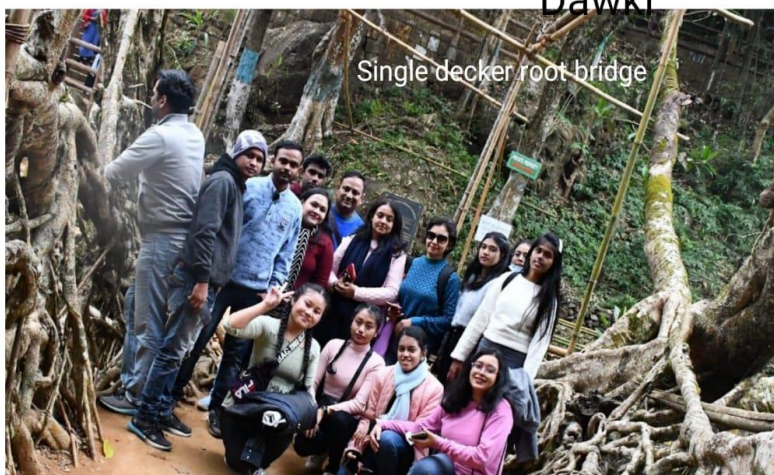


Photo-Plate 4- 29/12/2021



Collection of ferns, mosses, *lycopodium* sp.

Photo-plate 4.1- 29/12/2021



*Dawki, Mawlynnong Village and Single decker root bridge.*

## **Day 4- 30/12/2021**

30th dec.

Next day we started our tour a little late after having breakfast to the cathedral church near Pastoral center. It was one of the coldest days of winter. The sky was overcast with clouds and chilly winds were blowing. The church was at walking distance from our center. After we entered into the church, we got welcomed by a beautiful event of Christian wedding. The whole ambience was very calm and sacred. After spending sometime there, we decided to walk towards our next destination, Ward's lake. After reaching there, it started raining heavily. With few umbrellas we managed to reach its gate. Then we entered inside to meet with a beautiful scenario of heavenly garden of flowers surrounding the lake. We spent our time there absorbing the positivity of nature and beauty of the lake. As that was last day of our tour, we decided to go for second round of shopping at police bazaar, a shopping hub or the main market. So, we all took taxi to suruchi restaurant at police bazaar to have our lunch.

After having our lunch, we started our shopping, we did conversation with locals, they were very friendly and welcoming, even gave use good discounts on purchases as that was our last day. Finally, the day came to a beautiful ending. We packed our lunch and booked taxi to pastoral center. After coming to pastoral center, we started packing as next day we will be taking our departure. As it was our last day, we friends gathered and did late night talks, about our journey and experiences. Every beautiful phase has ending just like our study tour. After that, we went back to our rooms to sleep.

**Photo-plate 5- 30/12/2021**



**St. Marry's Cathedral**

*Ward's lake and St. Marry's Cathedral, Shillong.*

## **Day 5- 31/12/2021**

31st January

We all woke up late on last day of December. After finishing the lastminute packing, we went to dining room of center for breakfast.

We cleaned our rooms, bid good bye to Father of the Pastoral center and after loading all the luggage in the bus we departed from the center, after looking at the place we stayed for so many days or probably spent some most beautiful days of our student life.

On the way towards Guwahati, we stopped at the Golf course, it's a huge field with holes, flags etc. Few people were playing golf, some are chatting, some are doing photography. We did some videos, made reels etc. The sky was clear, even though it was last day of December, it wasn't too much cold. After that we started our journey towards next destination, Umiam lake.

The lake serves as a major tourist attraction for the state of Meghalaya. It is also a popular destination for water sport and adventure facilities. Tourists visit this spot for kayaking, water cycling, scooting, and boating.

We were mesmerized by the beautiful view of Barapani, the other name of Umiam lake. It's a huge lake surrounded by huge mountains. We clicked lots of pictures. We wanted to do boating but that day unfortunately, the boating wasn't available. After spending a good amount of time in that heavenly place. We finally took our leave to continue our journey. After some time, we stopped at a Dhaba types restaurant to have our lunch.

That was our last meal in Shillong as after that we got inside our bus to continue our journey.

After crossing the check point, we entered in Guwahati, Assam during evening time. Slowly the mountains that were surrounding us...was disappearing indicated we are leaving the heaven on earth of northeast, Shillong.

We finally reached Guwahati station. Our train was at 4:30 pm. So, we had to wait for 10 hours. We took shelter inside the waiting room. We took turns to roam around the city of Guwahati, which was full of lights, huge buildings and tasty food.

We spent last day of the year 2021, together with friends. Finally, all the clock hands came together pointing upwards indicating the ending of 2021 and start of 2022. We wished happy new year to every one we saw at the station. We spent our first day of the year at station outside the waiting hall, chatting, talking about life, future etc.

1 Jan 2022

We finally got inside the train, and started our journey towards Agartala, Tripura....our home.

**Photo-plate 6- 31/12/2021**



Orchid Garden, Barapani

*Golf ground, Shillong and Orchid Garden, Barapani*

## **Conclusion:**

As the years 2020-2021 were really hectic for us students as well as Teachers due to Covid pandemic. All of a sudden change in lifestyle from lock downs to online classes made us frustrated. We were all unhappy. The trip to Shillong made us regain our happiness as after a long time almost One and a half years we were able to go back to our normal life (the life before pandemic). We were able to go back to college without attending online classes, seeing our friends on a daily basis was something impossible during the pandemic years. The trip helped us explore new places, helped us immerse ourselves in new cultures which was mentally stimulating. It helped all of us to heal from the pandemic trauma. It has helped our minds to overcome the monotonous lifestyle that we were facing for the last two years because of the pandemic.

### ***"Going to the mountains is going home" - John Muir***

There is always something about the grandness and scale of these giant beasts of nature. In 6 days, making Shillong a focal point, we were able to glance around the best of Meghalaya for a while. During this time, we witnessed numerous breath-taking views, the city being decked up in pretty strings of neon lights tightly hugging the white glass windows embedded on the quaint wooden cottage. Riot of flower bloom greeting us made us get close to the omnipresent nature!

*Thank you*



To  
Deputy Director Horticulture (Vegetable)  
Horticulture Research Complex  
Nagicherra, Govt. of Tripura

**Through the Proper Channel**

**Subject:** Permission to visit Horticulture Research Complex Nagicherra by the 4<sup>th</sup> Semester students of Holy Cross College, Agartala tentatively on 21<sup>st</sup> June, 2022.

Respected Sir,

With due regards, Myself, Dr. Dipanwita Chaudhuri Sil, HOD Department Of Botany, Holy Cross College, Agartala want to inform you that we want to visit your Horticulture Research Complex on **on 21<sup>st</sup> June, 2022**. By visiting your institute students can learn different aspects of plant sciences and will be highly benefitted for future study and research work. So, we need your special permission to we visit your Horticulture Research Complex with our 4<sup>th</sup> Semester students.

Date:

20/6/2022

Approved  
  
20/06/2022  
PRINCIPAL  
HOLY CROSS COLLEGE  
AGARTALA

Yours faithfully,

*Dr. Dipanwita Chaudhuri Sil*  
Dr. Dipanwita Chaudhuri Sil  
Head, Department of Botany  
Holy Cross College  
Agartala, Tripura, India



# HOLY CROSS COLLEGE

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## Report on field trip to Nagicherra

Organized by

Department of Botany,

Holy Cross College, Lembucherra,

21st July 2022, Tuesday

Botanical studies of a local region not only are of a didactic value, but they are also the source of information for students on diversity of nature and a necessity for protection of the region they live in. Going outdoors, visiting nearby and farther surroundings (on their way from home to institute, on playgrounds, sightseeing sites, etc.), students, together with their teachers, can observe the principal properties, record and collect plants or analyze and describe plant communities and vegetation of the given region.

Field study is an essential part of Botany as plants are best studied in their natural habitat. The students get exposed to the plant kingdom. The students get practical knowledge of different species of plants like herbs, shrubs, climbers, and trees. The transport facilities for the students and faculties were provided by the college and in total 2 buses were taken for the trip.

### VENUE

**Venue:** Horticulture Research complex, Nagicherra, Tripura.

**Time:** 10:00 AM – 3:00PM

**Day and Date:** 21st July 2022, Tuesday

The tour was held on 21<sup>st</sup> June in Horticulture research Complex (HRC), near Nagicherra. We started our journey from the college campus at 10:30 am sharp by buses. All the faculties of the Department of Botany . Dr. Dipanwita Chaudhuri Sil , Dr. Debashree Lodh, Dr. Somnath Kar, and Dr. Sudipta Sinha, Botany lab technician Papan Dutta along with one faculty from Department of Zoology Dr. Animesh Dey were accompanied by the students. There was an interaction with the director of HRC, Dr. Rajib Ghosh, and other staff. They showed a presentation about how they maintained and developed that area with various cultural systems and lab works to produce large amounts of crops. According to them, it is the sole motto of HRC. Moreover, Dr. Rajib Ghosh also discussed the following topics: 1. Research on Mushrooms and production of spawns. 2. Germplasm of different jhum vegetations. 3. Evaluation of commercial varieties of vegetables. 4. Seed production program. 5. Staggering pineapple. 6. Tissue culture activity. 7. Human resource development. He discussed each topic. At the end of the conference, students along with us went to the mushroom culture center, where one staff showed us 2 types of mushrooms, one of which was the Enoki mushroom. He discussed many things including the prize. After that, we went to tissue culture labs and we were briefed about tissue culture too. After the whole discussion, we moved back to the backyard of the culture medium room. Then we moved on to another place. There a man beautifully presented how grafting is done. Then a staff of HRC took us on a tour of the vegetation ground, where there were many plant species. We captured pictures of many species on our phones. It was very interesting.

Name of some observed species with family given below:-

*Psidium gaujava* (Myrtaceae), *Prunus avium* (Rosaceae), *Citrus maxima* (Rutaceae), *Prunus dulcis* (Rosaceae), *Citrus sinensis* (Rutaceae), *Annona reticulata* (Annonaceae), *Rosa* sp (Rosaceae), *Ananas comosus* (Bromeliaceae), *Aloe vera* (Liliaceae), *Tamarindus indica* (Fabaceae), *Vanilla planifolia* (Orchidaceae), *Citrullus lanatus* (Cucurbitaceae), *Selenicereus undatus* (Cactaceae), *Nephelium lappaceum* (Sapindaceae) etc.

Field trips provide authentic, hands-on experimental learning opportunities where we can connect what we are learning in the classroom to a real-world context. Our field trip was truly mesmerizing one the way we observed every variety of species, techniques that they use for more production, and precautions that they take protect the plants from getting diseased. Apart

from getting knowledge, we brought some plant species so that we can also inculcate the same habit whatever we learned. Thus the trip not only provided us with knowledge but also widened our thoughts, explores our knowledge, and also made our learning more interesting.





