

Field study at Jhargram and adjoining areas

Date of Excursion: 26.11.2022

Date of Return: 29.11.2022

Students participated:

Sl No.	Name of Students Participants	Age	Sex	College Roll/ID	Signature
1	RIMLI SARKAR	20	F	210340300049	Rimli Sarkar
2	SWATHI ROY	19+	F	210340300064	Swathi Roy
3	ARNAB MUKHERJEE	21+	M	210340300012	Arnab Mukherjee
4	JOYDEEP PRAMANICK	19	M	210340300021	Joydeep Pramanick
5	MRINMOY GHOSH	18	M	210340300033	Mrinmoy Ghosh
6	TANMOY MUKHERJEE	22	M	200340300082	Tanmoy Mukherjee
7	PRIYANKA MUKHERJEE	21	F	200340300040	Priyanka Mukherjee
8	AVRAJIT GHOSH	21	M	200340300013	Avrajit Ghosh
9	RAHUL CHOWDHURY	21	M	200340300042	Rahul Chowdhury
TEACHER					
12	DR. PARASURAM KAMILYA	58	M		Parasuram Kamilya

Place of visit: Excursion to Jhargram and adjoining areas

Number of teacher participants: One (Dr. Parasuram Kamilya, Associate Professor)

Title of the field work:

- A) For 3rd SEM Botany Honours: Study of plant diversity (angiosperms) and collection of some specimens for preservation
- B) For 5th SEM Botany Honours: Study of vegetation dynamics (measurement of girth, diameter, etc in DBH method for calculation of dominance of tree taxa)

Objectives:

A) For 3rd SEM students:

- i) To study angiosperm diversity;
- ii) To collect and preserve the plant specimens for herbarium preparation;
- iii) To study the habitat, relationship with plant species diversity;
- iv) To interact with local people for economic importance if any, of the collected plant species.

B) For 5th SEM students:

- i) To study the vegetation by quadrat/transect methods;
- ii) To measure the girth/or diameter in specific area for determination of dominant tree taxa

- including canopy of some selected taxa.
- iii) To study the density, frequency and abundance of the plant species.

Methodology of field visit:

a) On 26.11.2022:

- i) We along with the students started our journey from Bejoy Narayan Mahavidyalaya at 4.30 AM (morning) on 26.11.22 and reached at Howrah Station at 6.10AM. From Howrah Station, we reached Jhargram by Ispat Express at 9.30AM. Then Jhargram station to Chilkiagarh forest by local bus.
- ii) At Chilkiagarh Sacred Grove region, students have their breakfast at 11AM and then come out to visit plant diversity way to famous Goddess Kanak Durga Temple of about 250 yrs old.
- iii) Then we all visited Dulong River which has been originated from Malbhumi of Chotonagpur and falls at Subarnarekha near Gopiballavpur of Jhargram district. Some students enjoyed running water of river harmfully.
- iv) Students observed and collected various species of angiosperms along side of river, where dense forest has been extended. They enjoyed the shade forest canopy which they never seen.
- v) We helped the student during collection and exact scientific names of the plants in the forest along with their family.
- vi) Now we back to guest house for bath and lunch.
- vii) At afternoon we again come outside the forest and visited the old abandoned portions of Chikigarh Rajbari by walking.
- viii) Then from Rajbari to village interior students get much historical knowledge about the Raja, Rajbari, origin of Chilkiagarh forest and various traditional ethnobotanical uses of some plants growing in the walking raw road of village interior. On the way they again collected any plant materials.
- ix) Now we back to Kanak Durga Temple by 6.30PM to enjoy the evening arati. Then, after tiffin at hotel, we return to our guest house. Collected plants materials are pressed for herbarium preparation.



Inauguration front at
Chilkiagarh



Front gate of
Chilkiagarh Sacred



Front of Kanak Durga Temple



Zoological Garden (Deer Park)



On the way from Amla chati vesaja uddyan



Bamboo Garden at Chilkigarh



Data collection from Salboni Forest



Herbarium sheets
preparation



Student crossing the
Dulung River

Date: 27.11.2022

- i) At early morning we returned to Jhargram for staying at “Hotel OWASIS” nearest to state highway.
- ii) After taking breakfast, we came out to visit Jhargram Rajbari which was again another Historical Place where grandsons of like Durgesh Malladev and Joydeep Malladev still living now. It is a very nice place where our C.M. – Mrs. Mamata Banerjee took rest when comes. Inside entry was strictly prohibited. However, we enjoyed much and then started our journey to Amlachati Vesaja Uddyan of Govt. of West Bengal by local bus. Students of 5th SEM have measured the girth, canopy and analysed vegetation by quadrat method along the way to Rajbari.
- iii) After got down from the bus our students walked about 5 K.M. to reach vesaja Uddyan. It was their new painful experience how to walk on such dry rocky laterite narrow road. However, they reached to Garden and got a new experience after observing near about 250 medicinal plants, along with their large naming boards having-Scientific name, local name, parts used and uses for various ailments of us. This was included within their syllabus curricula. This was one kind of live germplasm **exsitu** conservation center which is well maintained still now. Again by walking we reached to bus line to get bus and then reached to hotel for lunch and rest. Plant materials are pressed for herbarium preparation.



Sterculia alata
(Sterculiaceae)



Chamaecostus cuspidatus
(Costaceae)



Meyna laxiflora
(Rubiaceae)



Crotalaria juncea
(Fabaceae)



Sterculia alata
(Sterculiaceae)





Torenia asiatica
(Scrophulariaceae)



Antigonon leptopus
(Polygonaceae)



Rauvolfia tetraphylla
(Apocynaceae)



Trichosanthes tricuspidata
(Cucurbitaceae)



Combretum roxburghii
(Combretaceae)



Mollugo verticillata
(Molluginaceae)



Gymnema sylvestris
(Asclepiadaceae)



Rauvolfia serpentina
(Apocynaceae)



Mikania micrantha
(Asteraceae)



Alstonia scholaris
(Apocynaceae)



Triumfetta rhomboidea
(Malvaceae)



Ipomoea carnea
(Convolvulaceae)



Triumfetta rhomboidea
(Malvaceae)



Hyptis suaveolens
(Lamiaceae)



Bridelia tomentosa
(Euphorbiaceae)



Pergularia daemia
(Apocynaceae)



Triumfetta rhomboidea
(Malvaceae)



Mukuna pruriens
(Fabaceae)

Different steps of study for dominant tree species in the forest stand through DBH method



Measuring Quadrat size for sampling



Measuring DBH by the students



Measuring DBH of tree species by the students with their teacher



Measuring DBH of tree by the students in different individuals of the species

Date: 28.11.2022

- i) On the third day we went to visit Ghatsila-another tourist spot of Jharkhand by local train. We reached there by 1.10PM and then after lunch we came out to visit river the Subarnarekha- and its bridge.
- ii) Students collected few plants materials also. They got down on large locks inside riverside for enjoyment. Opposite side by the river, there was a villages of Jharkhand where local language was both Bengali and Hindi.
- iii) Then at evening, by local train, we returned to our OWASIS Hotel at Jhargram again.

Date: 29.11.2022

Students' wakeup early in the morning for Steel express at Jhargram station and reached Howrah station by 10 AM.

Outcome of the field visit:

- i) Students are familiarized with the diversity of Jhargram, Chilkigarh, Amlachati Vesaja Uddyan and Ghatshila.
- ii) They got benefitted for identification of the of collected and non collected plants of the forest areas.
- iii) They got novel ideas about Vesaja Uddayan preparation and conservation of various kinds of medicinal trees, herbs, climbers. And shrubs as well as their propagation. This helps them to develop entrepreneurship development near future.
- iv) Beside the ex situ conservation of this germplasm they got an idea about in situ conservation of forest ecotourism cum sacred grove center of Goddess Kanak Durga being barricaded by netting.
- v) Through collection, drying, pressing and preserving the live materials for herbarium preparation relevant to their syllabus curricula they are much more benefited than books.
- vi) Moreover, they have a new experience to visit tourist spot for academic purposes also.
- vii) This is an adventure them being walking inside the forest to a long distance which was beyond their imagination .

Financial Support:

College authority financially supported for this educational tour.

Permission letter attached herewith:

Fax : (03213) 272 237

Phone : (03213) 272 275



BEJOY NARAYAN MAHAVIDYALAYA

(GOVT. SPONSORED)
NAAC ACCREDITED

P.O.-ITACHUNA, DIST.-HOOGHLY, PIN-712147

Website : www.bnmahavidyalaya.org E.mail ID : bnmv2012@yahoo.in

Ref. No.

Date 22.11.2022

To
The Principal,
Bejoy Narayan Mahavidyalaya,
Itachuna, Hooghly

Sub: Application for grant of Excursion for 2022-23.

This is for your kind information that we are going to conduct one Botanical Excursion at Jhargram forest range (W.B.) for the academic year 2022-23, as per syllabus. It is resolved in the department meeting held on 22/11/2022.

I request you to provide the necessary grant Rs. 7,000/- (rupees Seven thousand only) for fooding and lodging of faculties, specimen collection and preservation and other various expenditure for smooth conduction of the educational tour.

Thanking you,

Arindam Mandal.

Yours faithfully,
(H.O.D)

Head, Dept. of Botany
Bejoy Narayan Mahavidyalaya
Itachuna, Dist. Hooghly.

*Receive
Arindam Mandal.
24/11/22*