

## Title of the Field work: Field study at Sundarban Biosphere Reserve

**Name of teachers guided :-** Dr. Goutam Ghosh and Dr. Parasuram Kamilya

**Excursion places: -** Gosaba ( Tagore Bungalow , Hamilton Bungalow ) , Bali island , Sajinekhali , Sudhanyakhali watch Tower , Dobanki Tiger Reserve , Sundarban Wild Safari

**Date of onward journey:** 04.04.2022

**Journey starts –** Bejoy Narayan Mahavidyalaya, Itachuna, Hooghly around 5.00 am

**Route –** Bejoy Narayan Mahavidyalaya to Sundarban via Canning to Godhkhali , Gosaba to Sundarban Biosphere Reserve

**Return journey:-** Sundarban Biosphere Reserve to Godhkhali to Canning to Sealdah to Naihati Jn to Bandel Jn to Bejoy Narayan Mahavidyalaya, Itachuna

**Details of journey members:** Total = 10 ( Ten ) Adults .

SL NO.	STUDENTS	SEM/YEAR	Sex with age	Roll No.	Signature
1.	Rimli Sarkar	1 <sup>ST</sup> SEM	F-		
2.	Souvik Chandra	6 <sup>TH</sup> SEM	M-	190340300078	
3.	Poulami Pal	6 <sup>TH</sup> SEM	F-	190340300039	
4.	Sayani Biswas	6 <sup>TH</sup> SEM	F-	190340300056	
5.	Anindita Paul	6 <sup>TH</sup> SEM	F-	190340300004	
6.	Suchitra Biswas	6 <sup>TH</sup> SEM	F-	190340300084	
7.	Jytoirmoy Nandan	Ex student (6 <sup>TH</sup> SEM)	M-		
8.	Maitri Kshetrapal	Ex student (6 <sup>TH</sup> SEM)	F-		
<b>TEACHERS</b>					
9.	DR. GOUTAM GHOSH	47 years	M		
10.	DR. PARASURAM KAMILYA	57 years	M		

## Map of Sundarban Tiger Reserve



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**Objectives:** The following are the objectives of field study relevant to course curricula:

1. To study the biodiversity of flora and fauna
2. To trace the evolution of plant diversity from algae to angiosperms
3. To visit and eco climatic zone having adaptation of particular group of plants (Mangrove)
4. To collect soil for comparison between halophyte and non halophyte habitat
5. To visit nature and its creatures

### Methodology:

We started journey from Itachuna on 04.04.2022 at 5.00 am and reached Canning station at about 09:10 am by local train where Sanjoy Bhattacharya and his team of a travel agency guided us for journey towards study sites. The following are the date wise activities during our excursion.

**Date: 04.04.2022**

We reached Godkhali Ferry ghat by jeep at 10.20 am. We took our breakfast in the ship at early 10.30 am, after that we visited Gosaba for Tagore Bunglow , Hamilton Bunglow and studied local vegetation . we took our lunch on ship and reached our destination at 3.00 pm on “ BALI ISLAND ; DELTA RIVER COTTAGE .” , beside the Vidyadhari River . At afternoon we came outside with the students for side seen in the villages and studied them for biodiversity. Several cultural programmes were done by the students at evening with full of joy.



**Journey to Gosaba**



**Side scene from ship**



**At Beacon Bunglow**



**At Hamilton Bunglow**



**Study of biodiversity at Gosaba**



**Delta River Cottage**



**Entry point of our Cottage**

**Date: 05 .04.2022**

On the second day at Bali island of Sundarban we cruised at around 7 am . So , we wake up early in the morning and get ready for a cruise on a ship . At first at around we went to visit Sajnekhali after breakfast on ship. Our guide took permission from authority of Sundarbans for further visit. Our guide also convinced the students about the flora and fauna of Sundarbans with their traditional knowledge and some booklets of the visited place are also supplied to students by the guide.

Now we reached at Sajnekhali Tiger Reserve Center to observe many rare species of turtle. The turtle which was an endangered species of Sundarban was named *Batugar baska* and it was locally named River Tarapin. We saw about 2 to 3 pieces of the endangered species of that turtle. The important features of mangrove were pneumatophores and root buttress of various mangrove plants were demonstrated by us. After completion of our study, we went to Mangrove Interpretation Center i.e. museum for various cultural things and civilization of sundarbans. How peoples on that place having nothing in their hands still survive in that devastating condition.

People mainly catch fishes and crabs as their occupation and some people also collect honey from the deep forest by their life risk. After a short survey of museum, we went to ship for next destination Sudhanyakali Tiger Reserve camp where students observed many endangered plant species and birds. Students visited the watch tower to get physiognomy. Botanical names of different mangrove plants are displayed by boards on that area. Students collected soil of both normal and saline for comparison in our laboratory (CC-5). They also collected *Sueda maritima*, *Heritiera fomes* and *Avicennia* sp. for anatomical practical in our laboratory (DSE-3) Students are highly impressed after getting vivipary of some obligate halophytes. After that I came back to ship and cruise again to back for Bali Island. During return we took lunch on the ship. After Tiffin on the ship the students went to their room and sorted out all the collected specimens with proper preservation techniques.



At Sajnekhali Tiger Reserve



During field work guided with my respected teachers



Root buttress (Spotted )



Report preparation by the students with field guide



Sudhanyakhal Camp



Report preparation



Local village survey



Soil collection from mesophytic zone



Soil Collection beside river shore  
( Vidyadhari River )



Soil Collection from paddy field

**Some of the endangered plant species are enlisted below:**





**Date: 06.04.2022**

Around 4:00 a.m. students wake up and completed their bath and get ready for breakfast at 6 am. Now we started journey to Dobanki Tiger reserve camp. This journey was too long to reach place. They observed a lot of deers, birds and different mangrove species. After 2 hours of journey we took lunch on the ship and finally reached Godkhali ferry ghat at around 2.40 p.m. and from there we return canning by bus and then Sealdah by train and finally reached our residence

## **Outcome:**

### **Financial support**

We received Rs. 15,000/- (Rupees fifteen thousand only) from college authority

**Permission letter to the authority is attached herewith:**

**Certificates issued by Department of Botany are attached herewith:**