

# VIDYASAGAR UNIVERSITY



SWARNAMOYEE JOGENDRA NATH MAHAVIDYALAYA

**SUB :- ZOOLOGY**

**FILD NOTE BOOK**

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**B.Sc (H) : SEMESTER-III**

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**SESSION: 2021-2023** T.Das

**EXAMINED**



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# SWARNAMOYEE JOGENDRANATH MAHAVIDYALAYA

Govt. Aided General Degree College | Estd.: 2014

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## DEPARTMENT OF ZOOLOGY

TO WHOM IT MAY CONCERN



This is to certify that ..... Barsha Das ..... Roll 1123152 .....  
No ..... 210003 ....., Registration No. VU211040290 of 2021-22 ..... students of B.Sc.  
Semester-III, Zoology (Aquatic Biology, GE-3) of Swarnamoyee Jogendranath  
Mahavidyalaya for the session 2022-2023, submitted his/ her field report entitled as  
..... A visit of to a marine Bioserve (Digla  
and it's surrounding) .....

Based on field study conducted on 19.12.2022 & 20.12.2022 for partial fulfilment of the  
syllabus prescribed by Vidyasagar University. The report has been prepared under the  
supervision of Miss. Tanushree Das and may be placed before examiner for evaluation.

Ramant 05/01/23

Dr. Ratan Kumar Samanta  
Principal

Swarnamoyee Jogendranath Mahavidyalaya  
Amdabad :: Purba Medinipur :: Pin-721650

T. Das 05.01.23

Miss. Tanushree Das  
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## ACKNOWLEDGEMENT

With, deep, sense of our respect, we would like to  
sincere gratitude to our most respectful teacher Dr. Ratan  
Kumar Samanta, Dr. Aninda Kisor Bhaumik, Ms. Tanushree  
Das and Non-teaching staff Pradip Kumar Das, Sujan  
Kumar Majhi. The department of Zoology Swarnamoyee  
Jogendranath Mahavidyalaya for organizing and participating  
the said excursion to Dighe and its surrounding.

We are also thankful to the authorities for  
giving us permission to visit Dighe its biological  
observation under different habitat of animal.

We are also thanks our honourable principal of the  
college, Dr. Ratan Kumar Samanta for giving us permission  
to organize such a valuable educational tour.

Barsha Das

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## ZOOLOGICAL EXCURSION

Zoological excursion is aimed at acquiring knowledge in their own habitat, their life cycle pattern, their behaviour and their interaction. A student not only gains knowledge about the habitat i.e., various animals in case of our trip but also to have a glimpse of the diversity of the animal kingdom each in its own niche and a greater role of habitat and in the ecosystem play its important roles. Thus zoological excursion is not only a pleasure trip for us but a learning experience for a student of zoology. It is also exciting and memorable memory for us.

## IMPORTANCE OF ZOOLOGICAL EXCURSION

"It was a director of education should reduce the time taken by lecture to one third of that time taken at present and make attendance in the field compulsory three hours a day".

— C. G. Robertson.

"The book worm" may have plenty of theoretical knowledge, but all are incomplete and worthless as they lack of the power of application. Therefore field study is arranged which may be concluded on the "Education without excursion."

PLACE OF JOURNEY

Mandarmani and its surroundings

Talsari

Digha Mohona

DATE OF JOURNEY

19.12.22 - 20.12.22

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Fig :- Our Tour Team

## TEAM MEMBERS OF DIGHA EXCURSION

1. Biswajit Das.
2. Sibaprasad Manna.
3. Keishnendu Jana.
4. Souman Acharya.
5. Tanushree Ghosh.
6. Barsha Das.
7. Rinji Khatua.
8. Abhinandan Jana.
9. Dibyendu pramanik.
10. Souvik Das.
11. Subhajit Maity.
12. Sanjay Giri.
13. Nayanika Jana.
14. Santanu Sasmal.
15. Kartick Jana.

## GUIDENCE OF OUR EXCURSION

### ☑ The Teachers —

1. Dr. Ratan Kumar Samanta.
2. Dr. Aninda Kisor Bhounik.
3. Ms. Tanushree Das.

### ☑ Laboratory staff members —

1. Pradip Kumar Das.
2. Sujon Kumar Majhi.

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# TOUR DIARY

Day :- 01

Date :- 19.12.2022

Journey starts from Amdabad to Digha by three car at morning. Arrive at Mandarmoni sea beach and observed the specimen. Then we went to hotel. After lunch we went to talsari sea beach. Then return back to hotel at New Digha.

Day:- 02

Date:- 20.12.2022

visit to Digha Mohona and Fish Market at morning we collected some specimen. After breakfast. checkout hotel and perform their prooided for Amdabad by car.

Arrive Amdabad at 3:30 pm and excursion end.





Fig:- Aurelia sp.



Fig:- Asterias sp.



## MANDAR MONI

We went to Mandarmoni at 9 Am on 19.12.2022. It is located on the shores of the Bay of Bengal. This beach is 13km long. Mandarmoni sea beach surrounded by red crabs, And Jelly fish, shell fish, squids and tiny sea fishes.

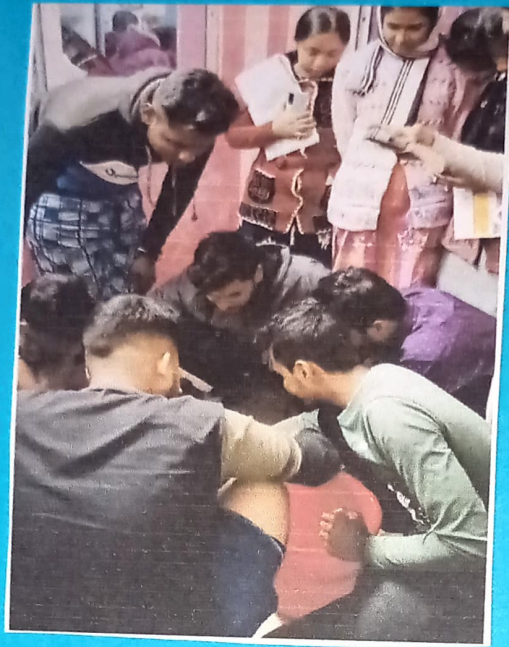
### METHODOLOGY

During sample collections and observation, type of the substrate, abundance, habit and habitats of individual species were noted. Specimens were preserved in 70% Alcohol or in 10% Formalin after proper narcotization and attempts were made to identify all the collected specimens up to species level when ever possible.

### SURVEL REPORT

SL. No.	Scientific Name	Local Name	phylum
1.	<u>Aurelia</u> sp.	Jelly Fish	Cnidaria
2.	<u>Asterias</u> sp.	star fish / sea star	Echinodermata.

BLANKING



Separation of specimen.





## TALSARI BEACH

We went to Talsari beach at 3:00 pm, is constitute apart of the alluvium coast the Subarnarekha delta plain located at northeastern side of Balasore district of odisha and hardly 10-15 km away from Digba. Geographical co-ordination of Talsari is bounded in between  $21^{\circ}35'48''$  Northern latitude and wide beach. The estuary of the river subarnarekha is 0.5 km to 1.5 km wide several types of marine habitats are found in this small area (2.5 sq. km. only). different types of faunal composition are found here in distinct zonation.

### METHODOLOGY

During sample collections and observation, type of substrate, abundance habit and habitats of individual species were noted. specimens were preserved in 70% alcohol after proper narcotization and attempts were made to identify all the collected specimens up to species level whenever possible.



## SURVEY REPORT

1. Common Jelly fish (Aurelia Sp.)
2. Star fish (Asterias Sp.)
3. Sea anaemone (Metridium Sp.)

Sl No.	Scientific Name	Local Name	phylum
1.	<u>Aurelia</u> Sp.	Common Jelly fish	cnidaria
2.	<u>Asterias</u> Sp.	Sea star or star fish	Echinodermata
3.	<u>Metridium</u> Sp.	sea anaemone	cnidaria

## DIGHA MOHONA

We went to Digha Mohona at morning time. Mohona means estuary in Bengali. Digha Mohona is located very close to Digha beach. Actually it is one end of the Digha beach. Along the fishmarket there are stalls of fisher like as vetki, Pomfret, Bombay duck, sting ray, shark, squid, cuttle fish, octopus, itish, crab skrimp.

### ☑ METHODOLOGY :-

During sample collection and observation, type of the substrate, abundance, habit, and habitats of individual species were noted. specimens were preserved in 70% Alcohol and the collected specimens up to species level whenever possible.

### + SURVEY REPORT

List of collected specimens in Digha Mohona

1. sting-Ray (Trigon sp.)
2. shark (Scoliodon sp.)
3. Eel (Anuilla sp.)
4. Bombay duck (Harpodon nehereus).
5. Tiger prawn (Penaeus monodon).
6. Lobster.

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Fig:- Dry Fish



Fig:- pampus sp.





Fig:- penaeus monodon



Fig:- Lobsterster





Fig:- Crab

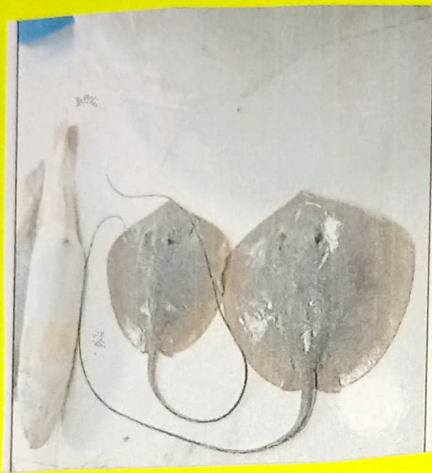


Fig:- Trigon sp.



Fig:- Sepia sp.

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Fig:- Tenualosa sp.



Fig:- Macrobrachium osenbergi



Fig:- Loligo sp.

SL  
NO.

- 1.
- 2.
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- 7.
- 8.
- 9.
- 10.
- 11.



7. Octopus
8. Sepia
9. Loligo
10. sea anab.
11. Hilsha fish.
12. pampret
13. Lates calcarifer.

SL NO.	Scientific Name	Local Name	phylum
1.	<u>Trigon</u> sp.	string ray	chordata.
2.	<u>Scolidon</u> sp.	Dogfish / shark	chordata.
3.	<u>Anuilla</u> sp.	Eel fish	chordata.
4.	<u>Harpodon rehereus</u>	Eombay duck	chordata.
5.	<u>paeneus monodon</u>	Tigar prawn	arthropoda.
6.	<u>sepia</u> sp.	cuttle fish	Mollusca.
7.	<u>Loligo</u> sp.	Squid	Mollusca.
8.	<u>Octopus</u> sp.	Devil fish	Mollusca.
9.	<u>Lates calcarifer.</u>	vetki	chordata.
10.	<u>Pampus</u> sp.	Silver pomfret	chordata.
11.	<u>Tenualosa ilisha</u>	Ilish fish	chordata.

# HAPPY RETURNES

The tour was extremely fruitful Joyas one. sketch type educational tour always boost us to gain plenty of knowledge with practical views. The tour was certainly blessed a tool to serve the varied species containing "Digha Mohona and Mandarmoni and Talsari". It was unique ~~exp~~ experience. we all returned with heart although acquiring a diversitied knowledge admixture with holy minute education ~~tour~~ from marine habitat.

We are all greatfull to our respected teachers without whose kind guidance and help the tour would not have been made possible.

T. DAS  
19.01.23

Examined  
Dr

EXAMINED