

# 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 - 2022**

**EXAMINED**





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Govt. Aided General Degree College | Estd.: 2014

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## DEPARTMENT OF ZOOLOGY

TO WHOM IT MAY CONCERN



This is to certify that Abhinandan Jana Roll 1123152  
No 210001, Registration No. VU2110A0206 of 2021-2022 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 to a marine Biosphere Reserve (Digha and  
its 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

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T. Das 05.01.23

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# ACKNOWLEDGEMENT

With deep sense of our respect, we would like to sincere gratitude to our most respectful teachers Dr. Ratan Kumar Samanta, Dr. Anindya Kisor Bhaumik, Ms. Tanushree Das and non-teaching staff Pradip Kumar Das, Sujon Kumar Mahi. The department of Zoology, Swarnamajee Jogendranath Mahavidyalaya for organizing and participating the said excursion to Digba and its surrounding.

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

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

Abhimandan Jana.

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# ZOOLOGICAL EXCURSION

Zoological excursion is aimed at acquiring knowledge in their own habitat, their lifecycle pattern, their behaviour and their interaction. A student not only gain knowledge about the habitat, i.e.

Makein cuba in case of our trip but also to have a glance of the diversity of the animal fauna each in its own niche and a greates areas of habitat and in the ecosystem play its important roles.

Thus zoological excursion is not only a pleasure trip for us but a learning experiance for a student of zoology. It is also a exciting and memohable 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. There fore field study is abhanged which may be concluded on the "Education" without excursion.



# PLACE OF JOURNEY

- Mandaramani and its subboundings
- Talsahi
- Digha Mohona

# DATE OF JOURNEY

19.12.2022 — 20.12.2022

EXAMINED





FIG 1 : Our TOUR Team



# TEAM MEMBERS OF DIUHA EXCURSION

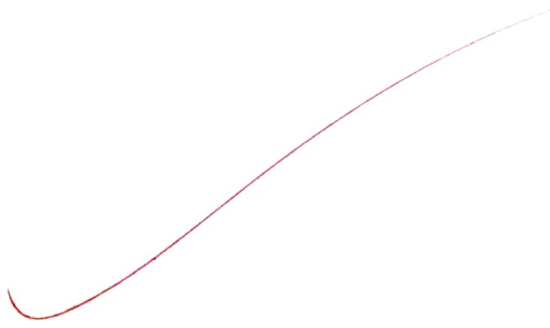
1. Biswajit Das.
2. Sibaprasad Manna.
3. Khishnendu Jana.
4. Soumen Acharya.
5. Tanushree Gayen.
6. Barsha Das.
7. Riniki Khatua.
8. Abhinandan Jana.
9. Dibyendu Phamanik.
10. Souvik Das.
11. Subhjit Maity.
12. Sanjay Chibi.
13. Nagarika Jana.
14. Santanu Sasmal.
15. Kabtick Jana.

# GUIDANCE OF OUR EXCURSION

## □ The Teachers —

1. Dr. Ratan Kumar Samanta.
2. Dr. Anindya Kishor Bhattacharya.
3. Ms. Tanushree Das.

## □ Laboratory staff members —

1. Pradip Kumar Das.
  2. Swarn Kumar Mahi.
- 



# TOUR DIARY

Day:- 01

Date:- 19.12.2022

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



FIG:- Aurelia SP.



FIG:- Asterias SP.



Day-2

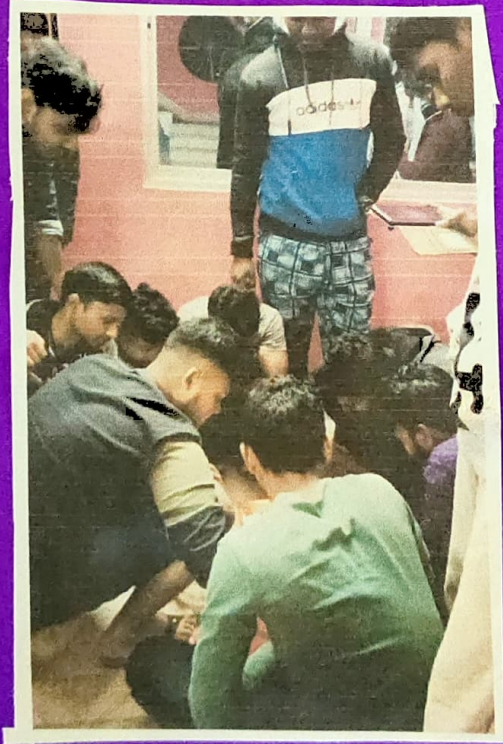
Date - 20.12.2022

visit to Digha Mohona and Fish market at morning we collected some specimen. After breakfast. checkout hotel and Professor their proceed for Amdabad by cab.

Arrive Amdabad at 3:30pm and excursion end.

EXAMINED





separation of specimen



# MANDARMONI

We went to Mandarmoni at 9 A.M. on 19.12.2023. It is located on the shores of the Bay of Bengal. This beach is 13 km long.

Mandarmoni sea beach Subbounded by bed clubs, 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 upto species level when ever possible.

Sl. NO.	Scientific Name	Local Name	Phylum
1.	Aurelia sp.	Jelly Fish	Cnidaria
2.	Asterias sp.	Starfish/sea star	Echinodermata

EXAMINED

# TALSARI BECH

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 Digha. 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 the 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 anemone (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/star fish	Echinodermata
3.	<u>Metridium</u> sp.	sea anemone	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 fish market there are stalls selling dry fish (shutki) and various types of fishes like as vetki, pomfret, Bombay duck, stingray, shark, squid, cattle fish, octopus, ilish, Chab bhimp.

## □ 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 and the collected specimens up to species level whenever possible.

## SURVEY REPORT

\* List of collected specimens in Digha Mohona

1. Sting-Ray (Thiaron sp.)
2. Shark (scoliodon sp.)
3. Eel (Amuilla sp.)
4. Bombay duck (Harpodon nerebicus)
5. Tigon Pharon (Pacurus monodon)
6. Lobster
7. Octopus

EXAMINED





Fig:- Dried fish



Fig:- Peneus monodon





Fig:- Pamphus sp.



Fig:- Loligo sp.



Fig:- Trigon sp.

EXAMINED





Fig:- Sepia sp.



Fig: Machobrachium rosenbary





Fig :- Crab



Fig :- Lobster





Fig: OCTOPUS SP.



Fig: Tenuulosa SP.



8. Sepia.
9. Loligo.
10. sea chab.
11. Hilsa fish.
12. Pam fret.
13. Lates calcabifeta.

Sl NO	Scientific Name	Local Name	Phylum
1.	<u>Thigom</u> SP.	staring ray	Chordata.
2.	<u>Scoliodon</u> SP.	Dogfish / shark	Chordata.
3.	<u>Anquilla</u> SP	Bel fish	Chordata.
4.	<u>Harpodon nechebeus</u>	Bombay duck	Chordata.
5.	<u>Pacneus mondon</u>	Tiger Prower	Arthropoda.
6.	<u>sepia</u> SP.	cuttle fish	Mollusca.
7.	<u>Loligo</u> SP.	sallid	Mollusca
8.	<u>Octopus</u> SP.	Devil fish	Mollusca
9.	<u>Lates calcabifeta</u>	vetki	Chordata
10.	<u>Pampus</u> SP.	Silver pomfret	Chordata
11.	<u>Tenualosa ilisha</u>	Ilish fish	Chordata



# HAPPY RETURNS

The tour was extremely fruitful Joyous one. Such type of 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 Man darmani and Talsahi". It was unique experience. We all returned knowledge admixture with holy minute education from Mahine habitat.

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

T. DAS  
19.01.23

Examined  
EXAMINED