

# VIDYASAGAR UNIVERSITY



SWARNAMOYEE JOGENDRA NATH MAHAVIDYALAYA

**SUB :- ZOOLOGY**

**FILD NOTE BOOK**

**NAME :- SOUMAN ACHARYA**

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

**Roll-1123152      No-210015**

**Registration No-VU211040310**

**SESSION: 2022-2023**

**T. Dey  
EXAMINED**



Phone: 9932873484/7501133806

# SWARNAMOYEE JOGENDRANATH MAHAVIDYALAYA

Govt. Aided General Degree College | Estd.: 2014

At+P.O.: Amdabad, P.S.: Nandigram, Dist.: Purba Medinipur, PIN 721650

[www.sjmahavidyalaya.in](http://www.sjmahavidyalaya.in) | Email: [sjmahavidyalaya@gmail.com](mailto:sjmahavidyalaya@gmail.com)

## DEPARTMENT OF ZOOLOGY

TO WHOM IT MAY CONCERN



This is to certify that Souman Chhanya Roll 1123152  
No 210015 Registration No. VU211040310 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.

Raman 05/01/23

Dr. Ratan Kumar Samanta

Principal

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

T. Das  
05.01.23

Miss. Tanushree Das

Head of the Department,

Department of Zoology

Swarnamoyee Jogendranath Mahavidyalaya  
Amdabad, P.S.- Nandigram, Purba Medinipur, Pin-721650

## 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, Susan Kumar Mazhi. The department of zoology, Swarnamoyee Jogendra Nath Mahavidyalaya for organizing and participating the said excursion to Digha and its surrounding.

We are also thankful to the authorities for giving us permission to visit Digha its biological observation under different habitats 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.

Souman Acharya.

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EXAMINED

## 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.

Marine area 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 greater area 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 an 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. There some field study is arranged which may be concluded on the Education without excursion.

## PLACE OF JOURNEY

- Mandarmani and its surroundings.
- Talsami.
- Digha Mohona.

## DATE OF JOURNEY

19.12.2022 — 20.12.2022



FIG :- Our Tour Team



## TEAM MEMBERS OF DIGHA EXCURSION

1. Biswasjit Das.
2. Sibaprasad Manna.
3. Krishnendu Jana.
4. Souman Acharya.
5. Tanushree Gayen.
6. Barsha Das
7. Rinke Khatua.
8. Abhinandan Jana.
9. Dibyendu pramanik.
10. Souvik Das.
11. Subhasit Maity.
12. Sanjay Giri
13. Nayanika Jana.
14. Santanu Sasmal.
15. Kartick Jana.

EXAMINED

## GUIDENCE OF OUR EXCURSION

### ☑ The Teachers —

1. Dr. Ratan Kumar Samanta.
2. Dr. Anindya Kisor Bhattachik.
3. Ms, Tanushree Das.

### ☑ Laboratory staff members —

1. Pradip Kumar Das.
2. Sugan Kumar Mazhi.

## 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 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 proceed for Amdabad by car.

Arrive Amdabad at 3:30 pm and excursion end.



FIG :- Aurelia sp.



Fig :- Asterias sp.

## MANDARMONI

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

### METHODOLOGY

During sample collections and observations, 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.

### SURVEY 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.

EXAMINED



Separation of specimen.



# TALSARI BEACH

We went to Talsari beach at 3:00 P.M, is constitute apart of the alluvium coast the subarnarekha delta plain located at northeast side of Balasore district of Odisha and hardly 10-15 KM away from Digha. Geographical co-ordination of ~~the~~ 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.

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EXAMINED



## 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~~ stalls selling dry fish (shutki) and various types of fishes like as vetki, pomfret, Bombay duck, sting ray, shark, squid, cattle fish, Octopus, fish, crab shrimp.

## 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 (Trigon sp.)
2. Shark (Scoliodon sp.)
3. Eel (Anuilla sp.)
4. Bombay duck (Harpodon neheus)

EXAMINED



Fig :- Dry fish

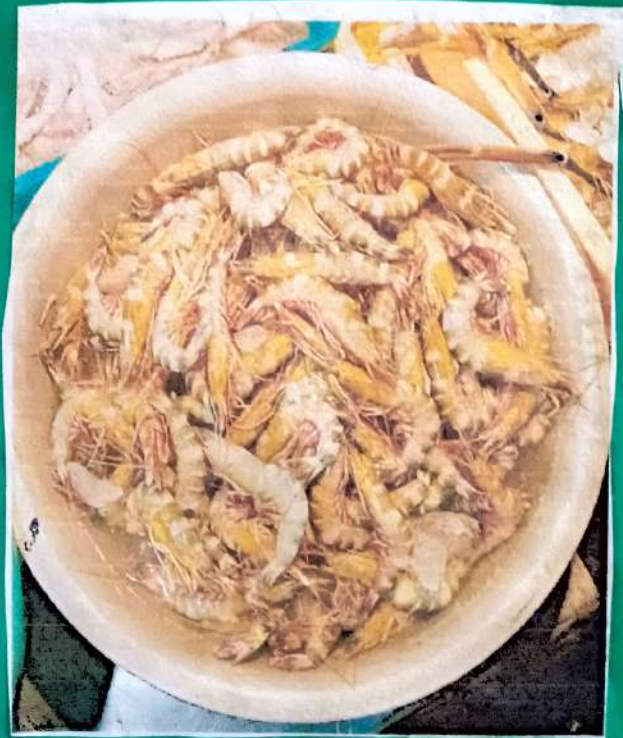


Fig :- penaeus monodon

EXAMINED



Fig :- Pampus sp.



Fig :- Loligo sp.



Fig :- Trigon sp.



Fig :- Sepia sp.



Fig :- Macropodachium Rosenbergii



Fig :- Crab



Fig :- Lobster

EXAMINED



Fig: Octopus sp.



Fig 0 = Temnodon sp.

5. Tiger prawn (paeneus monodon)

6. Lobster.

4. Octopus.

8. Sepia.

9. Loligo.

10. Sea crab.

11. Hilsa fish.

12. Pomfret

13. Lates calcarijer.

SL NO	Scientific Name	Local Name	Phylum
1.	<u>Trigon</u> SP.	String ray	Chordata.
2.	<u>Scoliodon</u> SP.	Dogfish / Shank	Chordata.
3.	<u>Anquilla</u> SP.	Eel fish	Chordata.
4.	<u>Harpodon nehereus</u>	Eombay duck	Chordata.
5.	<u>paeneus monodon</u>	Tiger 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 calcarijer</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 joy-  
-es one, such type of educational tour alw-  
-ays boost us to gain plenty of knowledge  
with practical views. The tour was certainly  
blessed a toll to serve the varied special  
containing "Digha Mohana" and. Mandar  
mani and Talsari" It was unique experi-  
ance, we all returned with hearts altho-  
ugh, acquiring a diversified knowledge  
admixture with holy minute education  
for marine 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  
194  
KAMRINEED

# VIDYASAGAR UNIVERSITY



~~SWARNAMOYEE JOGENDRA NATH MAHAVIDYALAYA~~

**SUB :- ZOOLOGY**

**FILD NOTE BOOK**

**NAME :- TANUSHREE GAYEN**

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

**Roll-1123152      No-210018**

**Registration No-VU211040313**

**SESSION: 2021 - 2022**

**EXAMINED**



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## DEPARTMENT OF ZOOLOGY

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This is to certify that Tanushree Gouen Roll 1123152  
No 210018, Registration No NU211040313 of 2021-2022 students of B.Sc.  
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A visit to a marine Bioserve (Digha and it's  
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Based on field study conducted on 19.12.2022 & 20.12.2022 for partial fulfilment of the  
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Principal  
Swarnamoyee Jogendranath Mahavidyalaya  
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T. Das 05.01.23

Miss. Tanushree Das  
Head of the Department,  
Department of Zoology  
Swarnamoyee Jogendranath Mahavidyalaya  
Amdabad P.O. - Medinipur, Purba Medinipur (Pin-721650)

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Tanushree Gayen

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EXAMINED

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Zoological excursion is aimed acquiring know in their own habitat, their life cycle pattern, Their behaviour and their interaction. A student not only gain knowledge about the habitat i.e, Marine area 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 greater areas of habitat and in the ecosystem play it 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 memorable memory for us.

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- Mandarmoni and its surroundings .
- Talsari
- Digha Mohona

## DATE OF JOURNEY

19.12.2022 — 20.12.2022





FIG 1 :- Our Tour Team

## TEAM MEMBERS OF DIGHA EXCURSION

1. BiswaJit Das .
2. Sibaprasad Manna
3. Krishnendu Jana
4. Souman Acharya
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13. Nayanika Jana
14. Santanu Sasmal
15. Kartick Jana

## GUIDENCE OF OUR EXCURSION

## ■ The Teachers —

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3. Ms. Tanushree Das

## ■ Laboratory staff members —

1. Pradip kumar Das
2. Sujan kumar Majhi

## TOUR DIARY

Day - 01

Date - 19.12.22

Journey starts from Amdabad to Digtha by ~~the~~ 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 Digtha.



FIG :- Aurelia sp.



FIG : Asterias sp.

Day - 02

Date - 20.12.22

Visit to Digha Mohona and Fish Market at morning and we collected some specimen. After breakfast. Check out hotel and perform their proceed for Amdabad by car.

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EXAMINED

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3. Sea ananmone (Metridium sp.)

No	Scientific name	Local name	phylum
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2.	<u>Asterias</u> sp.	Sea star / Star fish	Echinodermata
3.	<u>Metridium</u> sp.	Sea ananmone	Cnidaria





Separation of specimen

# MANDARMONI

We went to Mandarmoni at 9 a.m on 19.12.22. It is located on the shores of the Bay of Bengal. This beach is 13km long. Mandarmoni sea beach surrounded by red corals and Jellyfish, shell fish, squids and tiny sea fishes.

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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 whenever possible.

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## 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, Eel, string ray, shark, squid, cattle fish, octopus, ilish carb, shrimp.

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FIG :- Octopus sp.



FIG :- Tenuulosa sp.

EXAMINED



FIG :- Pampus sp.



FIG :- Loligo sp.

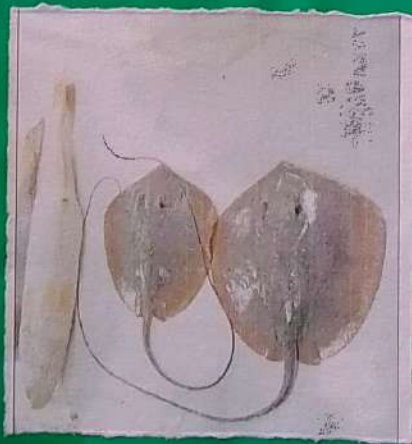


FIG :- Trigon sp.



FIG :- Sepia sp.



FIG :- Macrobrachium · osenberry

EXAMINED



FIG :- Crab



FIG :- Lobster

EXAMINED





FIG :- Dry fish

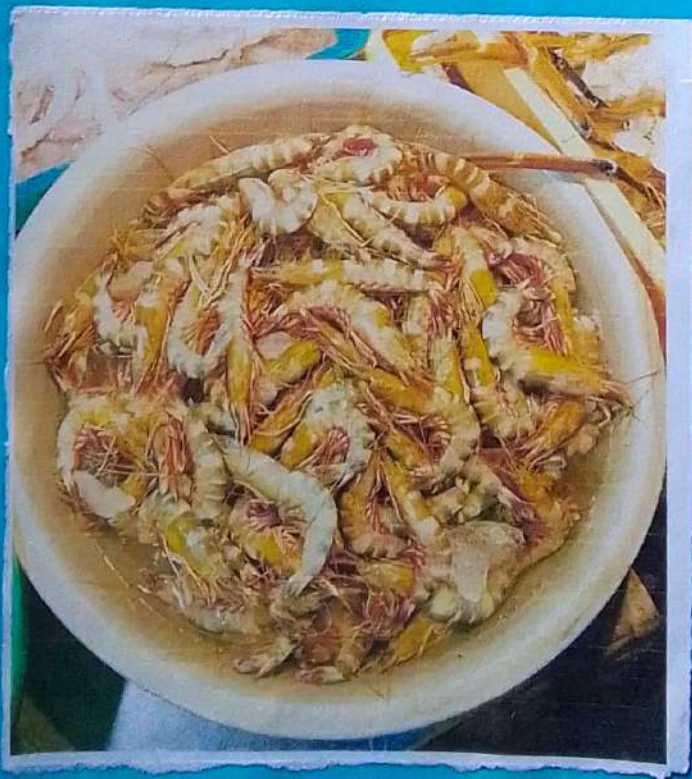


FIG :- Penaeus monodon

## SURVEY REPORT

List of collected specimens in Digba Mohona

1. Sting-Ray (Trigon sp.)
2. Shark (Scoliodon sp.)
3. Eel (Anuilla sp.)
4. Bombay duck (Harpodon neherus)
5. Tiger prawn (Penaeus monodon)
6. Lobster.
7. Octopus
8. Spia
9. Loligo
10. Sea crab
11. Hilsa fish
12. Pamfret
13. Lotus calcarifer.

Sl. No.	Scientific name	Local name	phylum
1.	<u>Trigon</u> sp.	String ray	Chordata
2.	<u>Scoliodon</u> sp.	Dogfish/Shark	Chordata
3.	<u>Anquilla</u> sp.	Eel fish	Chordata
4.	<u>Harpodon</u> <u>nehereus</u>	Bombay duck	Chordata
5.	<u>Penaeus</u> <u>monodon</u>	Tiger 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>Labeo</u> <u>calcarifer</u>	Veelki	Chordata
10.	<u>Pampus</u> sp.	Silver pomfret	Chordata
11.	<u>Tenulosa</u> <u>ilisha</u>	Ilish fish	Chordata

~~EXAMINED~~  
EXAMINED

## 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 Mandarmani and Talsari." It was unique experience. We all returned with hearts although, acquiring a diversified knowledge admixture with holy minute education from marine habitat.

We are all grateful to our respected teachers with out whose kind guidance and help the tour would not have been made possible.

T. Das  
19.01.23

Examined  
EXAMINED

# VIDYASAGAR UNIVERSITY



SWARNAMOYEE JOGENDRA NATH MAHAVIDYALAYA

**SUB :- ZOOLOGY**

**FILD NOTE BOOK**

**NAME :- RINKI KHATUA**

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

**Roll-1123152**

**No-210010**

**Registration No-VU211040305**

**SESSION: 2021 - 2022**

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## DEPARTMENT OF ZOOLOGY

TO WHOM IT MAY CONCERN



This is to certify that ..... Rinki Khatua ..... Roll ..... 1123152 .....  
No. 210010 ....., Registration No. VU211040305 of 2021-2022 students of B.Sc.  
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Principal

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T. Das 05.01.23

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Department of Zoology

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Amdabad, P.S.- Nandigram, Purba Medinipur, Pin- 721650

# ACKNOWLEDGEMENT

With, deep sense of our respect, we would like to  
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Kumar Samanta, Dr. Anindya Kisor Bhaumik, Ms. Tanushree  
Das and non-teaching staff: Pradip Kumar Das, Sojan Kumar  
Majhi. The department of Zoology, Swarnamoyee Jogendra-  
nath Mahavidyalaya for organizing and participating  
the said excursion to Digba and its surrounding.

We are also thankful to the authorities for  
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We are also thanks our honourable principal of the college  
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Thus zoological excursion is not only a pleasure trip for us but a learning experience for a student of zoology. It is also a 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 three hours a day"

e.g. Robertson.

"The book worm" may have plenty of theoretical knowledge, but all are incomplete and worthless as they lack the power of application. There is no field study in arranged which may be concluded on the Education without excursion.

# PLACE OF JOURNEY

1. Mandarmani and its surroundings.
2. Talsoni
3. Digha Mohona.

## DATE OF JOURNEY

19.12.22 - 20.12.22

EXAMINED



Fig:- Our Tour Team

# TEAM MEMBERS OF DIGHA EXCURSION

1. Biswajit Das
2. Sibaprasad Manna
3. Krishnendu Jana
4. Souman Acharya
5. Tanushree Gayen
6. Bonsha Das
7. Rinki Khattua
8. Abhinandan Jana
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11. Subhajit Maity
12. Sanjay Gini
13. Nayanika Jana
14. Santanu Sasmal
15. Kartik Jana

# GUIDENCE OF OUR EXCURSION

## The Teachers

1. Dr. Ratan Kumar Samanta.
2. Dr. Anidya Kisor Bhaumik.
3. Ms. Tanushree Das

## Laboratory staff Members

- I. pradip Kumar Das
- II. Sujan Kumar Majhi

# TOUR DIARY

Day-1

Date - 19.12.22

Journey starts from Amdabad to Digha by the car in Morning. Arrive at Mandarmoni sea beach and observed to specimen. Then we went to hotel. After lunch we went to Talsari sea beach. Then return back to hotel at.

# TOUR DIARY

Day-1

Date -19.12.22

Journey starts from Amdabad to Digba by the car in Morning. Arrive at Mandarmoni sea beach and observed to specimen. Then we went to hotel. After lunch we went to talvani sea beach. Then return back to hotel at.

Day-2

Date - 20/12/22

visit to Digha Mahona and ~~also~~ fish Market at  
Morning we collected some specimen. After break  
last, check out hotel and proborn their proceed for  
Amdalbad by car.

Arrive Amdalbad at 3:30 p.m and excursion end.

EXAMINED





EXAMINED

# MANDARMOONI

We went to Mandarmooni at 9 a.m on 19.12.22. It is located on the shores of the Bay of Bengal this beach is 13 Km long. Mandarmooni sea beach surrounded by red corals 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 whenever possible.

## Survey report

NO	Scientific Name	Local name	Phylum
1.	Aurelia sp.	Jelly fish	Cnidaria
2.	Asterias sp.	starfish / sea star	Echinodermata



# TALSARI BEACH

We went to Talsari beach at 3:00 p.m. is constitute apart of the alluvium coast the subornamekha delta plain located at northeastern side of Balasore district of Odisha and hardly 10-15 km away from Pipla. Geographical co-ordination of Talsari is bounded in between  $21^{\circ}35'48''$  Northern latitude and wide beach the estuary of the river subornamekha is 0.5 km to 1.5 km wide several types of Marine habitats are found in this small area (2.5-3.1 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 (Amurelia sp.)
2. Star fish (Asterias sp.)
3. Sea anemone (Metridium sp.)

# 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 rohi, pomfret, Bombay duck, Eel, sting ray, shark, squid, cattle fish, octopus, fisherab, shrimp.

## METHODOLOGY

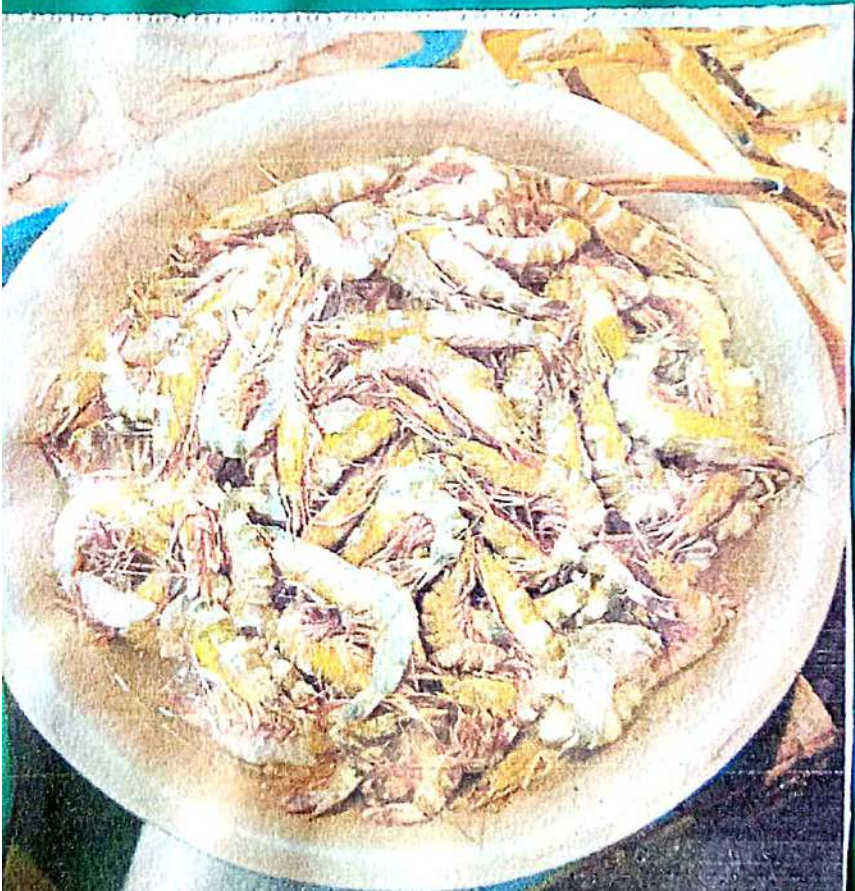
During sample collections and observations, type of the substrate, abundance, habitat and habitats of individual species were noted, specimens were preserved in 70% Alcohol and the collected specimens up to species level whenever possible.

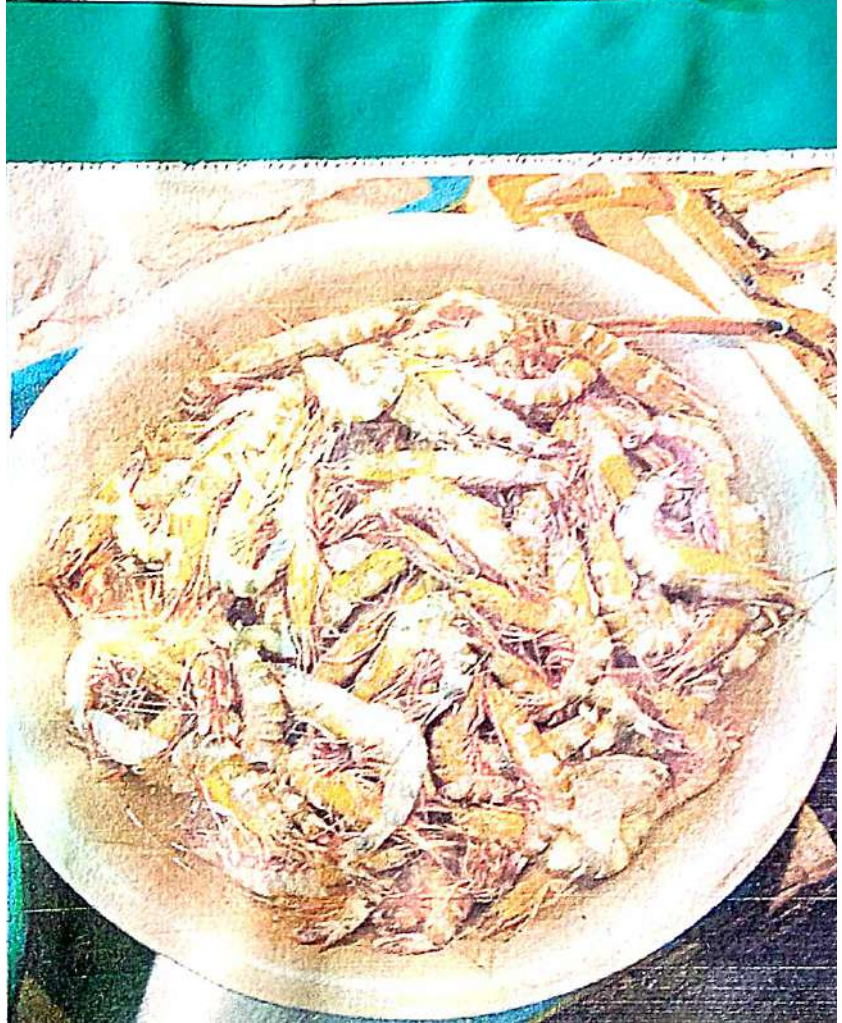
## SURVEY REPORT

List of collected specimens in Digha Mohona.

1. Sting-Ray (Trigon sp.)
2. Shark (Scoliodon sp.)
3. Eel (Annulla sp.)
4. Bombay duck (Harporon neherus)
- 5.
6. Lobster
7. octopus
8. Sepia
9. Loligo
10. Sea crab

EXAMINED







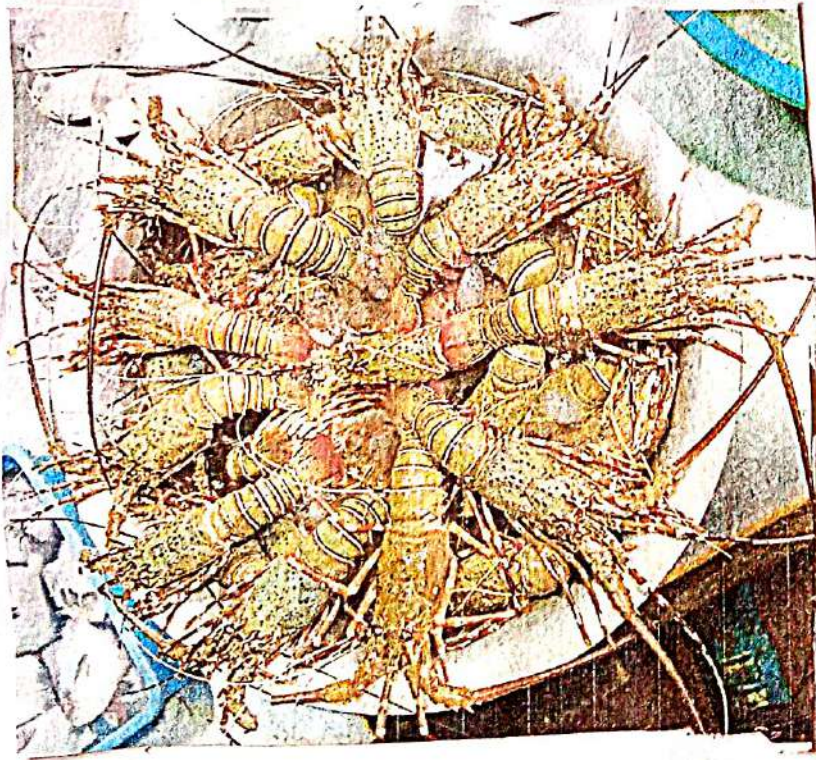






EXAMINED





11. Hilsa fish
12. pomfret
13. Lates calcarifer

No	Scientific name	Local name	Phylum
1.	<u>Trigloporus</u> sp.	Shing ray	Chordata
2.	<u>Scorpaenidae</u> sp.	Dog fish / shark	Chordata
3.	<u>Anquilla</u> sp.	Eel fish	Chordata
4.	<u>Hemipodidae</u> neherensis	Bombay duck	Chordata
5.	<u>Penaeus</u> monodon	Tiger prawn	Arthropoda
6.	<u>Sepia</u> sp.	Cuttle fish	Mollusca
7.	<u>Loligo</u> sp.	Squid	Mollusca
8.	<u>Cephalopoda</u> sp.	Devil fish	Mollusca
9.	Lates Calcarifer	vetki	Chordata
10.	<u>Pomfret</u> sp.	Silver pomfret	Chordata
11.	<u>Terminata</u> Ilisho	Ilish fish	Chordata

EXAMINED

11. Hilsha fish
12. pambret
13. later calaniber

No	Scientific name	Local name	Phylum
1.	<u>Trigon</u> sp.	sting ray	Chordata
2.	<u>Scoriodon</u> sp.	Dog fish / shark	Chordata
3.	<u>Anquilla</u> sp	Eel fish	Chordata
4.	<u>Harpodon</u> nehereus	Bombay duck	Chordata
5.	<u>Penaeus</u> monodon	Tiger 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.	later Calaniber	vetki	Chordata
10.	<u>Pampus</u> sp	Silver pomfret	Chordata
11.	<u>Terminata</u> Ilisha	Ilish fish	Chordata

EXAMINED

## HAPPY RETURNES

The tour was extremely fruitful Joyous on 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 Mondarmori and Talsari". It was unique experience we all returned with hearts although, acquiring a diversified knowledge admixture with holy minute education from marine 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

# VIDYASAGAR UNIVERSITY



~~SWARNAMOYEE JOGENDRA NATH MAHAVIDYALAYA~~

**SUB :- ZOOLOGY**

**FILD NOTE BOOK**

~~NAME :- ABHINANDAN JANA~~

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

**Roll-1123152      No-210001**

**Registration No-VU211040296**

**SESSION: 2021 - 2022**

**EXAMINED**





Phone: 9932873484/7501133806

# SWARNAMOYEE JOGENDRANATH MAHAVIDYALAYA

Govt. Aided General Degree College | Estd.: 2014

At+P.O.: Amdabad, P.S.: Nandigram, Dist.: PurbaMedinipur, PIN 721650

[www.sjmahavidyalaya.in](http://www.sjmahavidyalaya.in) | Email: [sjmahavidyalaya@gmail.com](mailto:sjmahavidyalaya@gmail.com)

## DEPARTMENT OF ZOOLOGY

TO WHOM IT MAY CONCERN



This is to certify that Abhinandan Jana Roll 1123152  
No 210001, Registration No. VU211040206 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 (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.

Ramanta 05/01/23

Dr. Ratan Kumar Samanta

Principal

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

T. Das 05.01.23

Miss. Tanushree Das  
Head of the Department,  
Department of Zoology

Swarnamoyee Jogendranath Mahavidyalaya  
Amdabad, P.S.- Nandigram, Purba Medinipur, Pin- 721650

# 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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03.	PLACE OF JOURNEY AND DATE OF JOURNEY	3.
04.	TEAM MEMBERS OF DIOHA EXCURSION	4.
05.	GUIDENCE OF OUR EXCURSION	5.
06.	TOUR DIARY	6-7.
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08.	TALSARI BEACH	9-10.
09.	DIOHA MOHONA	11-12.
10.	HAPPY RETURNES	13.

# ZOOLOGICAL EXCURSION

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

Make sure 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 greater 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 experience for a student of zoology. It is also a exciting and memorable memory for us.

## IMPORTANCE OF ZOOLOGICAL EXCURSION

"It was a directors 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 surroundings
- 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. Tanushbee Grayen.
6. Babsha Das.
7. Riniki Khatua.
8. Abhinandan Jana.
9. Dibyendu Phamanik.
10. Souvik Das.
11. Subhavit 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 Amdadabad to Digha by three cars at morning. Arrive at Mandabmoni sea beach and observed the specimen. Then we went to hotel. After lunch we went to Talsahi sea beach. Then return back to hotel at New Digha.



FIG:- Aurelia SP.



FIG:- Asterias SP.

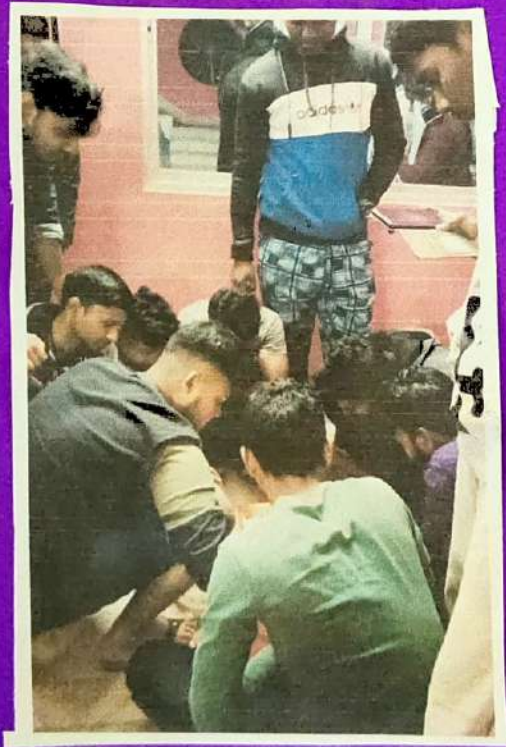
Day-2

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 3:30 PM 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 surrounded 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 nepheus)
5. Tiger Prawn (Penaeus monodon)
6. Lobster
7. Octopus

EXAMINED



Fig:- Day fish

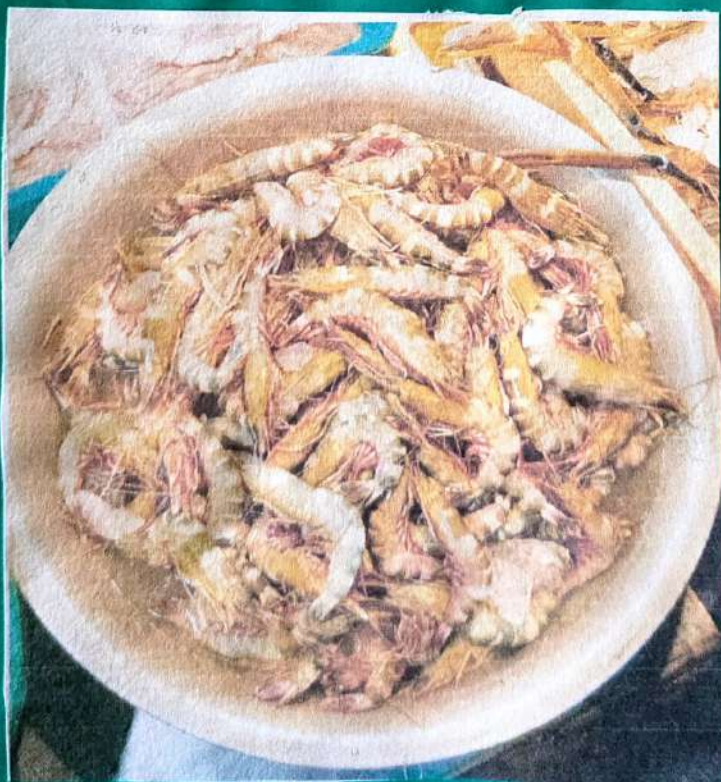


Fig:- Penaeus monodon

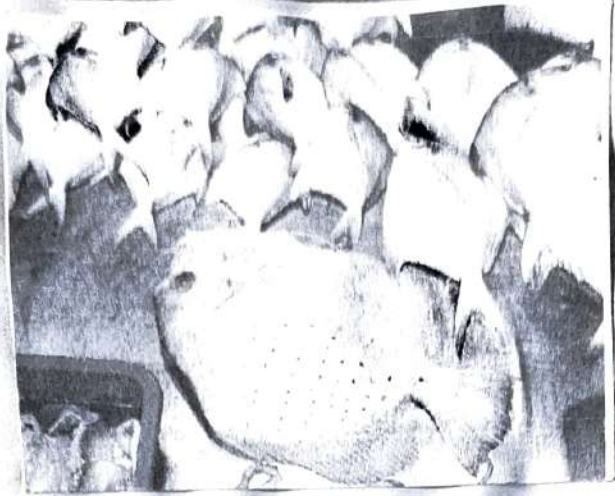


Fig:- Pampus sp.



Fig:- Loligo sp.

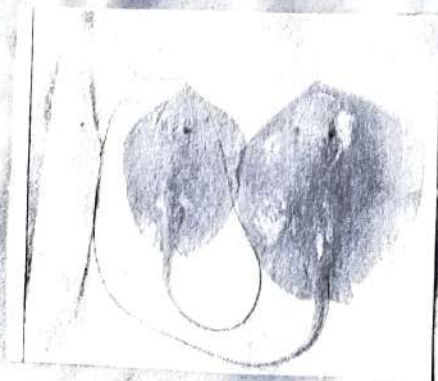


Fig:- Trigon sp.

EXAMINED



Fig:- Sepia sp.



Fig: Machobrachium rosenbatz



Fig :- Crab



Fig :- Lobster



Fig: OCTOPUS SP.



Fig: Tenuwalosa SP.

8. Sepia.
9. Loligo.
10. Sea Chab.
11. Hilsa fish.
12. Pam fret.
13. Lotes calcariifera.

Sl NO	Scientific Name	Local Name	Phylum
1.	<u>Thiagon</u> sp.	String ray	Chordata.
2.	<u>Scoliodon</u> sp.	Dogfish / shark	Chordata.
3.	<u>Annulla</u> sp	Bel fish	Chordata.
4.	<u>Harpodon necheus</u>	Bombay duck	Chordata.
5.	<u>Pacneus monodon</u>	Tiger 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>Lotes calcariifera</u>	Netki	Chordata
10.	<u>Pampus</u> sp.	Silver pomfret	Chordata
11.	<u>Tenualosa ilisha</u>	Ilish fish	Chordata

# HAPPY RETURNS

The tow 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 "Di gha Mohona and Man darmani and Talsabi". It was unique experiance. We all returned knowledge admixture with holy minute education from Mahime 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



# VIDYASAGAR UNIVERSITY



SWARNAMOYEE JOGENDRA NATH MAHAVIDYALAYA

**SUB :- ZOOLOGY**

**FILD NOTE BOOK**

**NAME :- DIBYENDU PRAMANIK**

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

**Roll-1123152      No-210006**

**Registration No-VU211040301**

**SESSION: 2021-2022** T.Da3

**EXAMINED**



Phone: 9932873484/7501133806

## 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 Dibyendu Pramanik Roll No. 1123152  
No. 210006, Registration No. 42119.40381 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.

Baman Das 05/01/23

**Dr. Ratan Kumar Samanta**

Principal

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

T. Das 05.01.23

**Miss. Tanushree Das**

Head of the Department,  
Department of Zoology

Swarnamoyee Jogendranath Mahavidyalaya  
Amdabad, P.S.: Nandigram, Purba Medinipur, Pin-721650

## ACKNOWLEDGEMENT

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We are also thankful to the authorities for giving us permission to visit Digha 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.

Dibyendu Pramanik

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08	TALSARI BEACH	9-10
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EXAMINED

## ZOOLOGICAL EXCURSION

Zoological excursion is aimed at acquiring knowledge in their own habitat, their life cycle patterns, their behaviour and their interaction. A student not only gain knowledge about the habitat i.e. Marine area in case of our trip but also to have a glance of the diversity of the animal, fauna each in its niche and a greater area 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 a 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 power of application.

Therefore, field study is arranged which may be concluded on the "Education without excursion?"

## PLACE OF JOURNEY

- Mandarmami and its surroundings.
- Talsard.
- Digha Mohana.

## DATE OF JOURNEY

19.12.2022 - 20.12.2022



EXAMINED

A group of approximately 20 people, including students and faculty members, are standing outdoors in front of a light-colored building. They are holding a large white banner. The banner features text in English and Assamese, along with a logo. The group is dressed in a variety of casual and semi-formal attire, including jackets, sweaters, and dresses. The background shows a plain wall and a portion of a building.

**EDUCATIONAL EXCURSION  
DEPARTMENT OF ZOOLOGY**

**স্বাধীনতা যুগেন্দ্রনাথ মহাবিদ্যালয়**

Govt. Aided General Degree College

ESTD-2014

P.O. Amdabat, P.S. Nandigram, Purba Medinipur



# TEAM MEMBERS OF DIGHA EXCURSION

1. Biswajit Das.
2. Sibaprasad Manna.
3. Krishnendu Jana.
4. Soumen Acharya.
5. Tanushree Gayen.
6. Barsha Das.
7. Rinui Khataua.
8. Abhinandan Jana.
9. Dibyendu Pramanik
10. Souvik Das
11. Subhajit Maity.
12. Sanjay Giri.
13. Nayanika Jana.
14. Santanu Sarmal.
15. Kartick Jana.

## GUIDENCE OF OUR EXCURSION

### ☒ The Teachers —

1. Dr. Ratanz kumar Samanta.
2. Dr. Anindya Kiser Bhawmik.
3. Ms. Tanushree Das.

### ☒ Laboratory Staff members —

1. Pradip kumar Das.
2. Sujan Kumar Majhi.

# TOUR DIARY

Day :- 01

Date :- 19.12.2022

Journey starts from Amdabad to Digha by three car at morning. Arrive at Mandarmani sea beach and observed the specimen. There we sent to hotel. After lunch we went to Talsari Sea Beach. Then return back to hotel at New Digha.

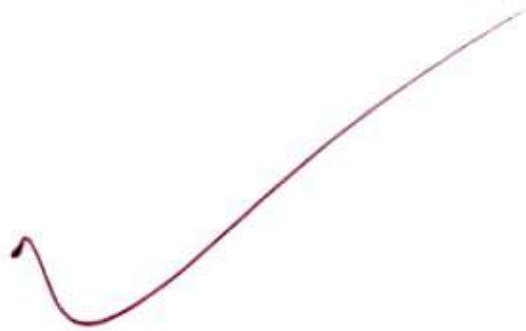


Day 02

Date :- 20.12.2022

Visit to Dighe Mohona and fish market at morning we collected some specimens. After breakfast checkout hotel and perform their proceed for Amdabad by car.

Airride Amdabad at 3:30 pm and excursion end.



EXAMINED



evolution of Specimen

# MANDARMANI

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

## METHODOLOGY

During sample collections and observations, type of the substrate, abundance, habit and habitats of individual species were noted. specimens were preserved in 10% alcohol or in 10% formalin after proper narcotization and attempts were made to identify all the collected specimens upto species level whenever possible.

## SURVEY 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

## TALSARI BEACH

We went to Talsari Beach at 3:30 pm in constitute apart of the alluvium coast the Subarnarekha delta plain located northeastern side of Balasore District of Odisha and hardly 10-15 km away from Digha. Geographical  $\square$  CO-9 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 sedaral types of marine habitats are found in this small area (2.5 sq. km. only) different types of final compistion are found here in district zonation.

### **METHODOLOGY**

During sample collections and observation, type of the substrate, abundance habit and habitats in individual species were noted.

Specimens were preserved in 70% alcohol after proper narcolization and attempts were made to identify all the collected specimens up to species level whenever possible.

EXAMINED



## 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 an Detki, pomfret, Bombay duck, sting ray, shark, squid, cattle fish, octopus, ilish, crab shrimp.

### **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 (Trigon sp.)
2. Shark (scoliodon sp.)
3. Eel (Annulla sp.)
4. Bombay duck (Harpodon neherawi.)



FIG & Dry Fish







FIG :- Sepia sp.

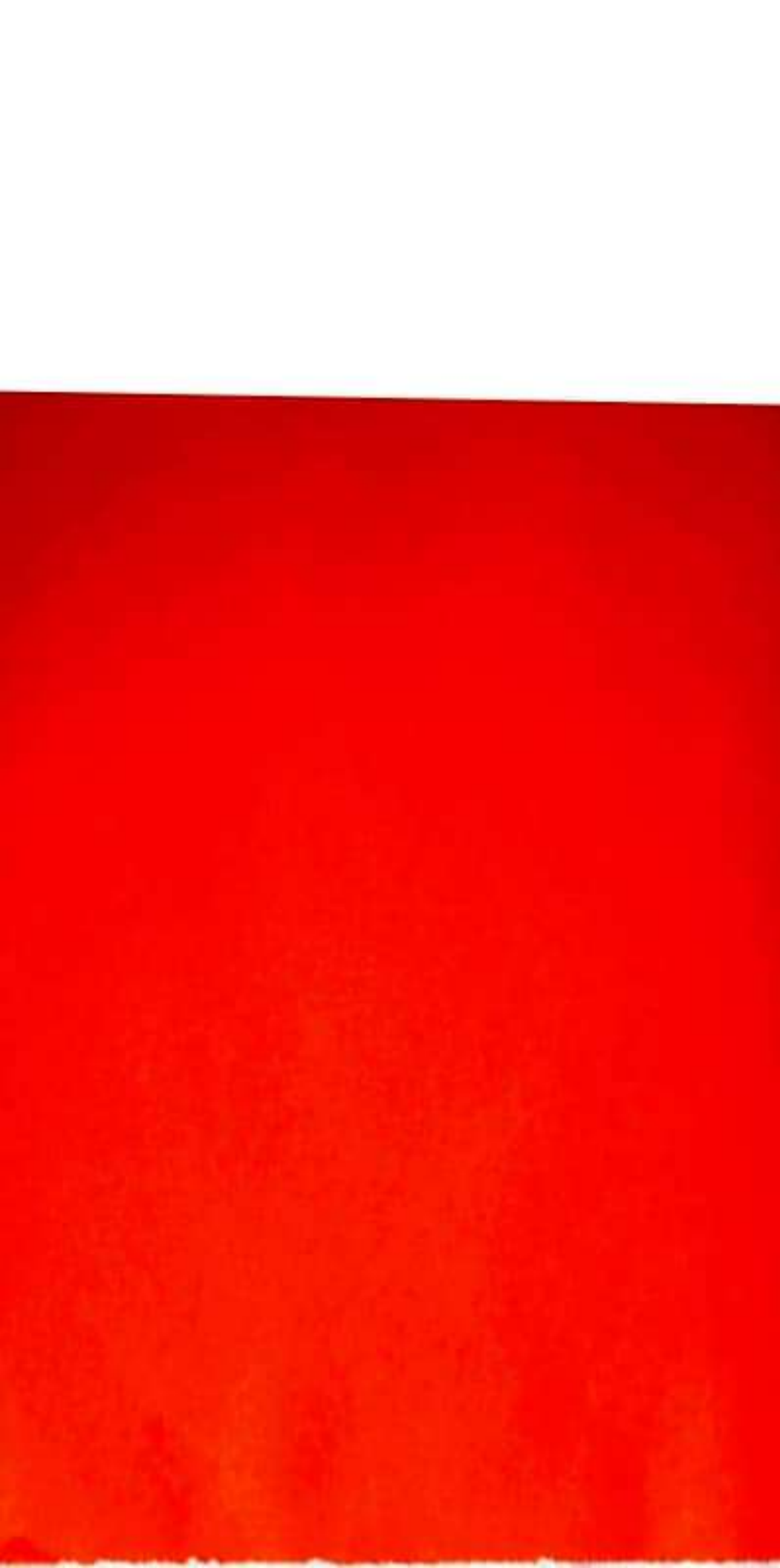
EXAMINED



FIG 1 = Crab



FIG 2 = Lobster



10. Tiger prawn (Penaeus monodon)
11. Lobster.
12. Octopus.
13. Sepia.
14. Loligo.
15. Sea crab.
16. Hilsa fish.
17. Pomfret.
18. Lates calcarifer.

Sl. No.	Scientific Name	Local Name	Phylum
1	<u>Trigloporus</u> sp.	String ray	Chordata
2	<u>Squalodon</u> sp.	Dog fish / shark	Chordata
3	<u>Anquilla</u> sp.	Eel fish	Chordata
4	<u>Harporodon nehereus</u>	Bombay duck	Chordata
5	<u>Penaeus monodon</u>	Tiger prawn	Arthropoda
6	<u>Sepia</u> sp.	Cuttle fish	Mollusca
7	<u>Loligo</u> sp.	Squid	Mollusca
8	<u>Octopus</u> sp.	Durid fish	Mollusca
9	<u>Lates calcarifer</u>	Datui	Chordata
10	<u>Pomfret</u> sp.	Silver Pomfret	Chordata
11	<u>Tenualosa ilisha</u>	Hilsa fish	Chordata

EXAMINED



The tour was extremely fruitful & joyous one. Sketch type educational tour always boost us to gain plenty of knowledge with practical views. The tour was certainly blessed a tool to wide the varied species containing "Digba Mohora and Mandarmani and Talsari." It was unique experience. We all returned with heart although acquiring a diversified knowledge admixture with holy minute education from marine habitat.

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

T. DOS  
19.01.28

Examined  
Dr. [Signature]  
EXAMINED