

# VIDYASAGAR UNIVERSITY



SWARNAMOYEE JOGENDRA NATH MAHAVIDYALAYA

**SUB :- ZOOLOGY**

**FILD NOTE BOOK**

**NAME :- SOUVIK DAS**

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

**Roll-1123152      No-210016**

**Registration No-VU211040311**

**SESSION: 2021-2022** T.D.S

**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 ..... Souvik Das ..... Roll 1123152 .....  
No 210016 ....., Registration No. W211040811 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 Bioreserve (Digba 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.

Samanta 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 want like to sincere gratitude to our most respectful teacher Dr. Ratan Kumar Samanta, Dr. Arindha Kisor Bhattachik, Ms. Tanushree Das and non-teaching staff pradiip Kumar Das, Sujan Kumar Majhi. The department of Zoology, Satabnamoyee jogendra Nath Maha Vidyalaya 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.

Sourvik Das

# CONTENTS

| SL. NO. | SUBJECT                              | PAGE NO. |
|---------|--------------------------------------|----------|
| 01.     | ZOOLOGICAL EXCURSION                 | 1.       |
| 02.     | IMPORTANCE OF ZOOLOGICAL, EXCURSION  | 2.       |
| 03.     | PLACE OF JOURNEY AND DATE OF JOURNEY | 3.       |
| 04.     | TEAM MEMBERS OF DIGHA EXCURSION      | 4.       |
| 05.     | GUIDENCE OF OUR EXCURSION            | 5.       |
| 06.     | TOUR DIARY                           | 6-7.     |
| 07.     | MANDARMANI                           | 8.       |
| 08.     | TALSARI BEACH                        | 9-10.    |
| 09.     | DIGHA MOHONA                         | 11-12    |
| 10.     | HAPPY RETURNES                       | 13.      |

# 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 gain knowledge about the habitat i.e.

Marine area in case of our trip but also the 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.

This zoological excursion is not only a pleasure trip for us but a learning experience for student of zoology. It is also a exciting and memorable memory for us.

EXAMINED

## 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 in action without excursion.

## PLACE OF JOURNEY

- Mandarmani and its surroundings.
- Talsonri.
- Digba Mohona.

## DATE OF JOURNEY

19.12.2022 - 20.12.2022



BIG :- OUR TOUR TEAM



## TEAM MEMBERS OF DIGHA EXCURSION

1. Biswasjit Das.
2. Sibaprasad Manna.
3. Krishnendu Jana.
4. Souman Acharya
5. Janushree Gayen
6. Barsha Das
7. Rinki Khataua.
8. Abhinandan Jana.
9. Dibyendu pramanik
10. Souvik Das.
11. Subhajit Maity
12. Sanjay Oiri
13. Nayanika Jana
14. Santanu Sasmal.
15. Kartick Jana

EXAMINED

## GUIDENCE OF OUR EXCURSION

## ■ The Teachers —

1. Dr. Pawan Kumar Samanta.
2. Dr. Amindya Kisan Bharmik.
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 Mandarmoni Sea beach and observed the specimen. Then we went to hotel. After lunch we went to falsari Sea beach, Then return back to hotel at -New Digha.

Day:-2

Date:-20.12.2022

Visit to Digha Mohona and Fish Market in 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.

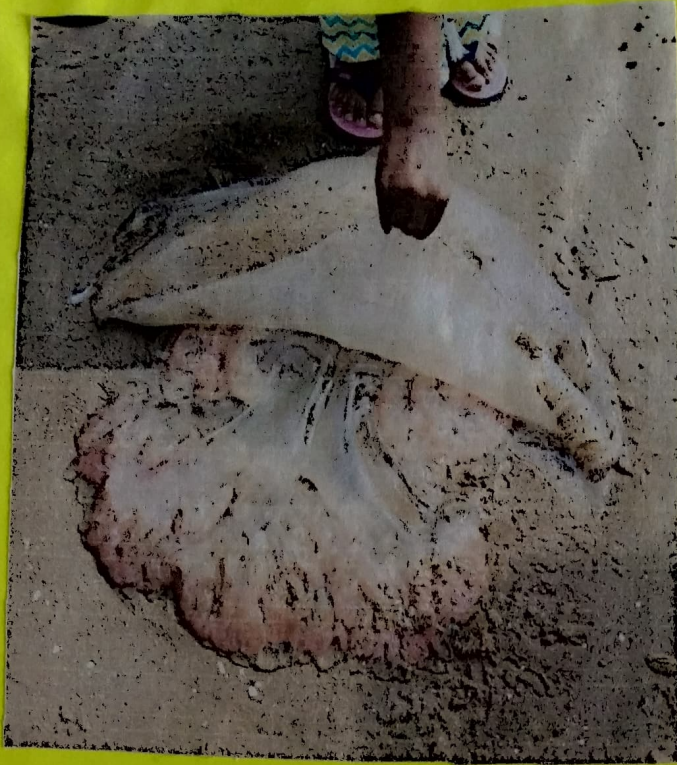


FIG :- Aurelia sp.

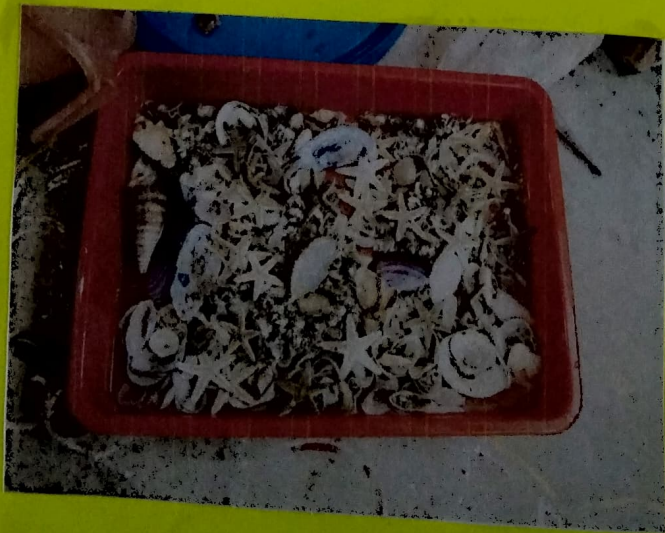


FIG :- Asterias sp.

# MANDARMONI

We went to Mandarmoni at 9 AM on 19.12.2022. It is located on the shores 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 observation, type of the substrate, abundance, habit. and 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.

## SURVEL REPORT

| SL NO | SCIENTIFIC NAME     | LOCAL NAME              | PHYLUM         |
|-------|---------------------|-------------------------|----------------|
| 1.    | <u>Aurelia</u> Sp.  | Jelly fish              | Cnidaria       |
| 2.    | <u>Asterias</u> Sp. | Star fish /<br>Sea star | Echinodermata. |



Separation of Specimen

## TALSARI BEACH

We went to Talsari beach at 3:00 P.m. is constituted apart of the alluvium coast the Subarnarekha delta Plain located at northeastern 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.   | Comm-on Jelly - fish | Cnidaria      |
| 2.    | <u>Asterias</u> Sp.  | Seastar / Star fish  | Echinodermata |
| 3.    | <u>Metridium</u> Sp. | Sea anemone          | Cnidaria      |

## DIGHA MOHANA

We went to Digha Mohana at morning time. Mohana Means estuary in Bengali. Digha Mohana is located very close to Digha beach. Along the fish market there are stalls selling dry fish (Shutki) and various types of fishes like as vetki, Pomfret, Bombay duck, Sting ray, shark, Squid, Cottile fish, Octopus, ilish, Crab Shrimp.

### METHODOLOGY

During sample collections and observation, - type of the substrate, abundance, habit, and habit - ats 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 Mohana

1. Sting-Ray (Trigon Sp.)
2. Shark (Scoriodon Sp.)
3. Eel (Aruilla Sp.)
4. Bombay duck (Harpodon nchereus).
5. Tiger Prason (Peneus monodon).
6. Lobster.

EXAMINED



Dig:- Dry fish



Dig:- Penaeus monodon

EXAMINED



Fig :- Pampus sp.



Fig :- Loligo sp.

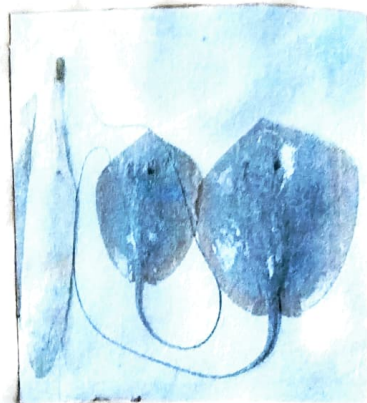


Fig :- Trigon Sp



Fig:- Sepia Sp. Crab



Fig:- Macrobrachium Rosenberry  
Lobsterlike



Fig:- Sepia Sp.



Fig:- Macrobrachium Rosenbergii

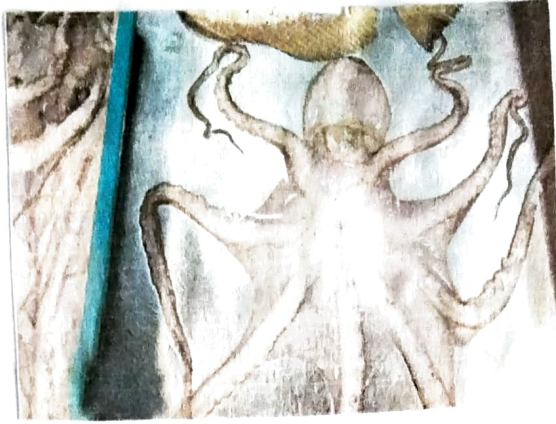


Fig:- Octopus Sp.



Fig:- Tencabasa Sp

7. Octopus.
8. Sepia.
9. Loligo.
10. Seacrab.
11. Hilsha fish.
12. Pom fish.
13. Lates 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 nehereus</u> | Embay deck     | Chordata.   |
| 5.    | <u>Penaeus mondon</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>Pompus</u> Sp.        | Silver pomfret | Chordata.   |
| 11.   | <u>Tenuabosa ilisha</u>  | Ilish fish     | Chordata.   |
| 12.   |                          |                |             |
| 13.   |                          |                |             |

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 and Morona and Man darmani and Talsari". It was unique experience. We all returned with hearts although, acquiring a diversified knowledge admixture with holy minute 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