

MARINE BIOLOGY FIELD TRIP REPORT

Date: 04-01-2024,

Place:Dhamavaram NLR.

INDUSTRIAL VISIT:

A complete report on industrial visit organized by Department of Marine Biology, Vikrama Simhapuri University, for the students of marine biology [3rd SEM] in order to get the practical knowledge about “advanced technology used in Processing unit and R&D Laboratory.



PLAN FOR THE VISIT:

- 1.Detail of journey
- 2.Company profile
- 3.Observation
- 4.Report

1.Detail of journey:

Department of marine biology had organized an industrial visit on 04 January, 2024 to BMR GROUPS located in Dhamavaram, Nellore for the students of M.Sc Marine biology(3rd). The visit was organized by HOD of Marine Biology branch Dr.Venkatrayulu Prof.Ch.Vijaya, Dr.M.Hanuma Reddy,and Dr.M.Sowjanya. We started travelling from the University campus at 10:30 am via our University bus. Totally 35 students along with 2 coordinators faculty were there in the journey.

PROFILE OF COMPANY:

Over 25 years the **BMR Group** has grown to an industry conglomerate with 250 hectares of hatcheries, 600 hectares of farming, on site labs and feed mills, a state-of-the-art factory covering 50,000 sq. ft. in Dhamavaram, Nellore District in Andhra Pradesh, with a capacity of 25 metric tonnes per day and compliance with industry specific standards like BAP, BRC, HACCP, etc. BMR Group has many awards and accolades to its name, including Best Hatchery in India 2014 from the Ministry of Commerce, Govt. of India & MPEDA.



3.Observation:

The students has allowed to the BMR GROUPS company to gain the practical industrial knowledge for their future development. Firstly students allowed to the feed plant, how the feed has maintained without contamination and also the packing section. After that student observed the mechanism of the importing the feed to other countries. Then, students are allowed for the R&D by wearing the company suits for avoiding the contamination. In this R&D section, company provided the Guide for the student to explain the instrumentation.

He hourned the lunch for the students and faculty in the company canteen. After the lunch, students are allowed to the processing unit. Here also company given the suits to maintain the work place. In processing unit there are 7 steps .they are:

1. Docks and receiving area
2. Washing area
3. Dressing area
4. Smoking rooms
5. Salting rooms
6. Refrigeration units
7. Packaging units.

REPORT

We are thankful to BMR GROUPS for giving such an Informative event for us in crucial for development of our practical skills regarding making & other activities. We got the knowledge on different types of R&D instrumentation, processing unit and feed plant used in different departments and had an opportunity to research on it. We hope to get more chances further to have such an informative & wonderful experience of visiting different industries.



VIKRAMA SIMHAPURI UNIVERSITY COLLEGE: NELLORE

DEPARTMENT OF MARINE BIOLOGY

M.Sc., Degree Course for the Academic year-2023-24 (Batch: 2022-2024)

III SEMESTER (Final Year) Field visit to Feed & Processing plants

(BMR Industries Pvt. Ltd, Nellore) 04-01-2024

S.No	Registered No.	Name of the Student	
1.	220402001001	BAKKA RASOOL	B. Rasool
2.	220402001002	BONI ESWARI (W)	B. Eswari
3.	220402001003	GUNDUPU SWATHI (W)	- ABSENT -
4.	220402001004	K.SAI JASWANTH	- ABSENT -
5.	220402001005	KOPPALA MALLIKARJUNA	K.Malli Karjuna
6.	220402001006	KYASARAM HIMA BINDU (W)	K.Hima Bindu
7.	220402001007	NAKKANAM NARASIMHA	N. Narasimha
8.	220402001008	SAJJA SRI APARNA (W)	S. Sri Aparna
9.	220402001009	TAMMISSETTY VENKAT RAO	T. Venkat Rao
10.	220402001010	DULAPALLI KIRAN KUMAR	D. Kiran Kumar
11.	220402001011	GARUTHOTI PRASANNA KUMAR	G. Pranna Kumar
12.	220402001012	SANDHURI MADHURI (W)	S. Madhuri
13.	220402001013	SARA. TASKEEN (W)	Sara Taskeen
14.	220402001014	YALLA CHINNA BABU	- ABSENT -
15.	220402001015	BAMMIDI SIVA	- ABSENT -
16.	220402001016	VEMAVARAPU SIVA	V. Siva
17.	220402001017	EMBETI STALIN	- ABSENT -
18.	220402001018	INGILALA CHARANTHEJA	I. Charantheja
19.	220402001019	KOPPADI BHARGAVA SRI SAI VARMA	K. Varma
20.	220402001020	MATTE AJAY KIRAN	M. Ajay Kiran
21.	220402001021	SHAIK MALIK	S. Malik
22.	220402001022	SIVALANKI VENKATA RAMANA	S. Venkata Ramana
23.	220402001023	GUNAMGARI SURYA	G. Surya
24.	220402001024	SANTANU, SAHOO	Santanu Sahoo
25.	220402001025	VANJARAPU CHANDRA SEKHAR	V. Chandrasekhar
26.	220402001026	YEKHURI YUGANDHAR	- ABSENT -
27.	220402001027	PINDI GOPINADH	P. Gopinadh
28.	220402001028	RAJANA GANGADHAR	R. Gangadhar
29.	220402001029	SAMUEL SUSHMA ANGEL (W)	S. Sushma Angel
30.	220402001030	KUMBALA SUKUMAR	- ABSENT -
31.	220402001031	GOKURUBOYINA PRADEEP REDDY	G.P. Reddy
32.	220402001032	BANDILI NAVEEN	B. Naveen
33.	220402001033	BHAVANA GAYATHRI BOMMAKANTI (W)	B. Gayathri
34.	220402001034	PATTAPU SUBRAHMANYAM	P. Subramanyam
35.	220402001035	EMBETI SASI KANTH	- ABSENT -

V. Venkateshwar
04/01/2024
HEAD

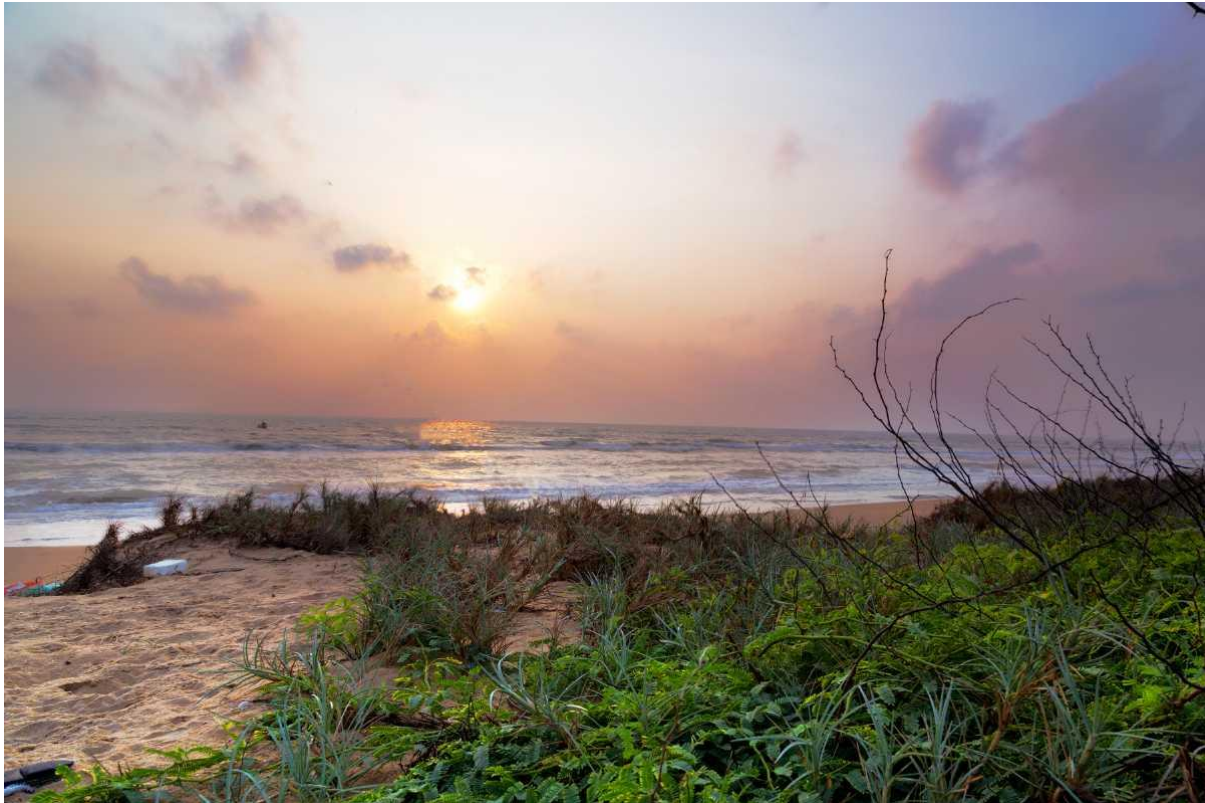
DEPARTMENT OF MARINE BIOLOGY
VIKRAMA SIMHAPURI UNIVERSITY
NELLORE - 524324. A.P.



MARINE BIOLOGY FIELD TRIP REPORT

Date: 06-07-2024,

Place: Mypadu Beach.



A sea beach is a landform along the shoreline of an ocean or a sea and consists of loose particle which are often composed of rocks such as sand, gravel, pebble or cobble. The sediment may also be biological in origin like fragments of broken shells or algae. Beaches typically occur in areas along the coast where wave or current action deposits and reworks sediments. They support a diverse ecosystem with a variety of organisms and interactions between them. Several physical, chemical and biological parameters control the structure and functioning the beach ecosystem. The physical parameters include: 1) water content in the sediment and 3) temperature

of water and atmosphere. Chemical parameters include: 1) pH of the water, 2) salinity of the water.

This field trip in Mypadu Beach by the Department of Marine Biology for Observation of both Physical and Chemical parameters of marine water, brackish water and collection of water samples. All the 42 students (2nd SEM), Teaching and Non-teaching Faculty members attended to the visit by the support of university and provided the bus for the field trip.

Actually this field trip has major two parts. They are

1. Field visit & Sample collection
2. Observations of the SeaShore parameters

Location: Mypadu Beach

Objectives:

1. To explore the faunal diversity near the beach and the interaction between different life forms.
2. To measure the physical and chemical parameters of the ocean water.

Material methods:

1. The physical and geological features of the beach were observed.
2. Different physical and chemical parameters were measured.

Temperature of ocean water and air:

The temperature of the water and air were measured by using digital thermometers.

pH of water:

The pH of the water was measured using a pH meter. The pH meter was used for the measurements.

Salinity of water:

A Refractometer was used for measuring the salinity of the water. The principle behind this instrument is refraction of the light.

REPORT & DISCUSSION:

Insuit parameters found in the beach

Parameters	Value
Temperature	38 ⁰ C
pH	8.1
Salinity	33ppt

This trip is useful to gain some practical knowledge of marine ecology and marine resources. Students learned the techniques of field studying. Students observed the parameters both physical and chemical parameters in different time i.e., Morning, Mid afternoon and evening. They have also collected the Turtle shell and some sandyshore fauna.



Students also visited near by culture ponds



Students at MYPADU BEACH



VIKRAMA SIMHAPURI UNIVERSITY COLLEGE : NELLORE

DEPARTMENT OF MARINE BIOLOGY

M.Sc., Degree Course (2nd Semester) for the Academic year-2023-24 (Batch: 2023-2025)

FIELD VISIT TO MYPADU COASTAL VILLAGE

Date: 06.07.2024

ATTENDANCE SHEET

S.No	Registered No.	Name of the Student	Signature of the student
1	230402001001	BANAVATH MANJULA BAI (W)	R. Manjula Bai
2	230402001002	BANDLAMUDI SREEDHAR KUMAR	- ABSENT -
3	230402001003	BETHIREDDY SRIKAR	B. Srikar
4	230402001004	CHITTETI TEJA (SPOT.AD)	- ABSENT -
5	230402001005	DARA SRAVANI (W)	- ABSENT -
6	230402001006	DUMPALA CHANDANA (W)	D. Chandana
7	230402001007	DUMPALA SAI PRAVEEN	D. Sai Praveen
8	230402001008	DUNNA SONY (SPOT.AD) (W)	D. Sony
9	230402001009	EDARA AJAY KUMAR (SPOT.AD)	E. Ajay
10	230402001010	EMBETI VARDHAN	E. Vardhan
11	230402001011	GELLA SHEKAR DANI	G. Shekar Dani
12	230402001012	GONIPALLI MANOJ KUMAR (SPOT.AD)	G. Manoj Kumar
13	230402001013	GORREPATI BUEALA (W)	G. Bueala
14	230402001014	GORREPATI RAMESH	G. Ramesh
15	230402001015	GUMMALLA RAVI TEJA	G. Ravi Teja
16	230402001016	GURINDAPALLI NANCY (W)	G. Nancy
17	230402001017	INNAMALA THARUN	I. Tharun
18	230402001018	JAKKULA AKSHAYA (W)	J. Akshaya
19	230402001019	KAKI RAVI TEJA	K. Ravi Teja
20	230402001020	KARRA KRISHNA CHAITANYA	K. Krishna Chaitanya
21	230402001021	KAVALI JAHNAVI (W)	K. Jahnavi
22	230402001022	KETHAVATH LAXMAN	K. Laxman
23	230402001023	KILLI MURALI KRISHNA	K. Murali
24	230402001024	KOMMU GANESH	K. Ganesh
25	230402001025	KONAKONDU NARAYANA (SPOT.AD)	K. Narayana
26	230402001026	KOSANAPU SINDHU (W)	K. Sindhu
27	230402001027	MACHARLA LAKSHMI PRAKASH (SPOT.AD)	M. Lakshmi Prakash
28	230402001028	MANGALAPURI SRINIVASULU	M. Srinivasulu
29	230402001029	MIRIYALA ASISH	M. Asish
30	230402001030	MODUGULA DINESH RAJ	M. Dinesh Raj
31	230402001031	MUNIPALLI ANUSHA (W)	M. Anusha
32	230402001032	PARLA LAKSHMI PRIYA (W)	P. Lakshmi Priya
33	230402001033	PASUMARTHI HEMANJANEYULU	P. Hemanjaneyulu
34	230402001034	PIDUGU MANASA (W)	- ABSENT -
35	230402001035	PINGULA SAILAJA (W)	P. Sailaja
36	230402001036	RACHURI TEJA	R. Teja
37	230402001037	RAVURI KOMALI (W)	R. Komali
38	230402001038	RELLI ESTHER RANI (W)	R. Esther Rani
39	230402001039	SOURU SATISH	S. Satish
40	230402001040	THAGARAM KIRAN JYOTHI	T. Kiran Jyothi
41	230402001041	THOKALA THARUN KUMAR	T. Tharunkumar
42	230402001042	KOLAMGARI NAVEEN (SPOT.AD)	- ABSENT -

[Signature] 06/07/2024



**DEPARTMENT OF MARINE BIOLOGY
VIKRAMA SIMHAPURI UNIVERSITY; NELLORE**

Report on Educational Tour/Field Visit

National Institute of Oceanography (NIO), GOA Trip

Date: 18-08-2024

Our educational trip to Goa was a blend of learning, adventure, and cultural exploration. Over the course of four days (20-08-2024 to 24-08-2024), we visited several notable locations that provided us with insights into marine biology, history, natural beauty, and spirituality. This report outlines our experiences and key learning's from each day wise started the journey on 18-08-2024 10:30 pm from Nellore to Bangalore by Bus. On 19-08-2024 we all reached to the Bangalore railway station. For us the train journey from Bangalore to Goa started at 2:30 Pm and we reached to Goa on 20-08-2024.

Day 1 (20-08-2024): CSIR-NIO

CSIR-National Institute of Oceanography (NIO):

VSU Students Observations at NIO, Goa:

Our trip commenced with a visit to the CSIR-National Institute of Oceanography (NIO) in Dona Paula. The institute is a premier research organization in India dedicated to the study of oceanography and marine sciences. We attended a session where the scientists explained the various research activities conducted at NIO, including marine biodiversity, ocean currents, and climate change. We also had the opportunity to observe state-of-the-art laboratories and research vessels used for deep-sea exploration.



Students & Staff at CSIR-NIO



Seminar addressed by the CSIR-NIO Staff

Post our educational visit, we spent the evening at Dona Paula Beach, known for its scenic beauty and the famous Dona Paula Jetty. The beach provided a relaxing atmosphere, and we enjoyed the serene views of the Arabian Sea. The location also offered a glimpse into the local culture and history, with the legend of Dona Paula adding a touch of intrigue to the visit. This is a rocky shore beach and we also identified the barnacles on rocks.

We visited different places in Goa as follows:

Day 2(21-08-2024): Aguada Fort, Sinquerium Beach, & Baaga Beach

1.Aguada Fort

2.Sinquerium Beach

3.Baaga Beach

Day 3(22-08-2024): Amboli Waterfalls & Scuba Diving

1.Amboli Waterfalls

2.Scuba Diving

Day 4 (23-09-2024): Balaji Temple, Old Goa Church, & Miramar Beach

1.Balaji Temple

2.Old Goa Church

3.Miramar Beach

Our trip concluded with a visit to Miramar Beach. The calm and expansive stretch of sand was perfect for a leisurely evening. We reflected on the experiences of the past four days, capturing the final moments of our trip with photographs and memories. This is a completely Black soil sandy shore. On that the authority of the sea shore given the red colour flag for high tides.

Conclusion:

The educational trip to Goa was an enriching experience that combined learning with adventure like how to do scuba diving with safety measures. From exploring the depths of marine life to understanding the historical and cultural heritage of Goa, each day offered something unique. The trip not only expanded our knowledge but also fostered a deeper connection with nature, history, and spirituality.