

To  
The Director  
CSIR- National Institute of Oceanography  
Dona Paula  
Goa - 4034004

Date: 28-11-2024

Dear Sir,

Sub: requisition to permit our students for Research Institute visit.

We from the Departments of Biotechnology & Microbiology of M.S. Ramaiah College of Arts, Science & Commerce, Bengaluru are interested to visit your esteemed research Institute along with post graduate students of Biotechnology and Microbiology. The students are keen to know the research activities in the field of biology and chemistry. To have the practical experience and learn the recent trends in the applications of biotechnological and microbial techniques in the improvement and protection of marine organisms and their industrial applications. Hence, I request your good self to permit the students to visit your Institute in the **morning of Wednesday 11<sup>th</sup> December 2024.**

We would be immensely grateful to you and hope you permit us to visit the research institute. Please do the needful.


The group comprises of **77 students**, accompanied by **four faculty members.**

Thanking You

Yours Sincerely

LAKSHMI KANTH R N  
Associate Professor & HoD  
Department of Biotechnology  
M.S. Ramaiah College of Arts, Science &  
Commerce  
MSR Nagar  
MSRIT Post  
Bengaluru- 560 054  
Ph. No. +91 9448615301

  
Department of Biotechnology,  
M.S. Ramaiah College of  
Arts, Science & Commerce

  
Visited CSIR-NIO on  
11<sup>th</sup> Dec 2024,  
National Institute of Oceanography  
Dona Paula, Goa 403004  
India

To  
The Director  
ICAR - Central Coastal Agricultural Research Institute  
Ela, Old Goa - 403 402  
Goa

Date: 28-11-2024

Dear Sir,

Sub: requisition to permit our students for Research Institute visit.

We from the Departments of Biotechnology & Microbiology of M.S. Ramaiah College of Arts, Science & Commerce, Bengaluru are interested to visit your esteemed research Institute along with post graduate students of Biotechnology and Microbiology. The students are keen to know the research activities in the livestock and farming process, to have the practical experience and learn the recent trends in the applications of biotechnological and microbial techniques in the improvement of agriculture, livestock and aquaculture. Hence, I request your good self to permit the students to visit your Institute in the **afternoon of Wednesday 11<sup>th</sup> December 2024.**


We would be immensely grateful to you and hope you permit us to visit the research institute. Please do the needful.

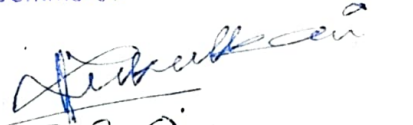
The group comprises of **77 students**, accompanied by **four faculty members.**

Thanking You

Yours Sincerely

LAKSHMI KANTH R N  
Associate Professor & HoD  
Department of Biotechnology  
M.S. Ramaiah College of Arts, Science &  
Commerce  
MSR Nagar  
MSRIT Post  
Bengaluru- 560 054  
Ph. No. +91 9448615301

  
Department of Biotechnology,  
M.S. Ramaiah College of  
Arts, Science & Commerce

  
P.R.O.  
GACTO  
ICAR  
CCARI



ಮೈಸೂರು ನಗರ ಸರ್ಕಾರದ ಅಧೀನದಲ್ಲಿ  
 M.S. Ramalah College of Arts, Science and Commerce  
 B-12, 12th Cross, 12th Main Road, 12th Block, Bengaluru City University  
 Bangalore-560 075  
 Approved by the Government of Karnataka. Accredited by AICTE. The college  
 is approved by UGC under 12-A, 12-B, 12-C and 12-D.

To  
 The Manager  
 Goa State Co-operative Milk Producers' Union Ltd  
 Curti  
 Ponda  
 Goa - 403 401

Date 30-11-2024

Respected Sir,

Sub: requisition to permit our students for Industrial visit

The post graduate students, as per the curriculum of the Bengaluru City University have to undergo a research Institute/ industrial visit in their III Semester, hence we from the Departments of Biotechnology & Microbiology of M.S. Ramalah College of Arts, Science & Commerce, Bengaluru, have planned to visit your esteemed industry along with M.Sc. students of Biotechnology and Microbiology.

Hence the students wish to learn the production of dairy products, to understand the processes of ultrafiltration, pasteurization, homogenization, deodorization, good manufacturing and lab practices, packaging, storage and distribution. Also they wish to know about the skills to learn for the career prospects in the Dairy Industry

We request your good self to permit the students to visit your industry in the morning of Thursday 12<sup>th</sup> December 2024. We would be immensely grateful and hope you permit us to visit the industry.

The group comprises of 77 students, accompanied by four faculty members.

Thanking You

Yours Sincerely

*[Signature]* 30/11/24

LAKSHMI KANTH R N Department of Biotechnology  
 Associate Professor & HoD M.S. Ramalah College of  
 Department of Biotechnology Arts, Science & Commerce  
 M.S. Ramalah College of Arts, Science & Commerce  
 MSR Nagar, MSRIT Post  
 Bengaluru- 560 054  
 Ph. No. +91 9448615301

*Visited on 12/12/24  
 at 11:30 AM*

*[Signature]*  
 D.C. PRODUCTION  
 GOA DAIRY  
 CURTI-PONDA-GOIA

## Industrial Visit Report: MSc Biotechnology and Microbiology Students Trip to Goa

**Date of Visit:** 9th to 13th December 2024

**Duration:** 5 Days

**Destination:** Goa

**Departments Involved:** MSc Biotechnology and Microbiology

**No. of students:** 73

**Organized by:** M S Ramaiah college of Arts, Science and Commerce

**Accompanied by the faculty:** Dr. Sowbhagya R, Dr. Muktha, Ms. Thejaswini and  
Dr. Aravind.

### **Introduction**

An industrial visit is an essential part of the curriculum for MSc Biotechnology and Microbiology students as it offers practical exposure to various industries and research institutes. From 9th to 13th December 2024, the MSc students from the Department of Biotechnology and Microbiology embarked on an exciting and educational trip to Goa. The purpose of this industrial visit was to explore various industries, research institutions, and key locations related to biotechnology and microbiology.

### **Journey and Arrival in Goa**

The journey began on the evening of 9th December at 4:00 pm when the students boarded a bus from the institution. The bus journey was filled with excitement and camaraderie among the students and faculty members. After an overnight drive, the group arrived in Goa early the next morning at 6:00 am, energized and ready for the adventures that lay ahead.

### **Day 1: Leisure Trip to Agoda Fort, Baga Beach, and Calangute Beach**

After reaching Goa, the first day was dedicated to leisure and relaxation. The students visited the following popular tourist spots:

1. **Agoda Fort:** The group visited the historic Agoda Fort, offering stunning views of the Arabian Sea. The fort's architecture and the scenic beauty of the surroundings provided students with a sense of the region's history and culture.
2. **Baga Beach:** Known for its vibrant atmosphere, Baga Beach gave the students the opportunity to enjoy the sun, sand, and sea. Many took part in water sports and beach activities, relaxing after the long journey.
3. **Calangute Beach:** A brief visit to Calangute Beach allowed the students to enjoy the famous beach's relaxed vibe and the beautiful sunset, concluding the day with a sense of tranquility.

## Day 2: Donapola Viewpoint, National Institute of Oceanography, and ICAR Goa

On 11th December, the group focused on exploring key scientific and research-oriented locations:

1. **Donapola Viewpoint:** The day began with a visit to the Donapola Viewpoint, where the students admired breathtaking panoramic views of the surrounding landscape, a perfect spot to begin the day's explorations.
2. **National Institute of Oceanography (NIO), Goa:** The students visited the prestigious NIO, one of India's leading research institutions in oceanography. The faculty members provided an insightful tour of the facilities, showcasing cutting-edge research in marine biology, biotechnology, and oceanographic studies. Students learned about the various projects and the role of oceanography in biotechnology applications.
3. **ICAR Goa (Indian Council of Agricultural Research):** The visit to ICAR Goa allowed students to explore the advanced research being carried out in agriculture, fisheries, and environmental science. The scientists demonstrated how microbiological techniques are being applied to improve agricultural practices and sustainability.

## Day 3: Goa Milk Dairy, Mangeshi Temple, and Old Goa Church

On 12th December, the students visited institutions related to dairy production, ancient temples, and historic churches:

1. **Goa Milk Dairy:** The group visited Goa Milk Dairy, where they learned about dairy farming, milk processing, and the application of microbiological techniques in dairy product quality control. The students were introduced to the role of biotechnology in improving milk yield and product quality.
2. **Mangeshi Temple:** The Mangeshi Temple, dedicated to Lord Mangesh, was an enriching cultural experience. Students had the opportunity to appreciate the architecture and the history of the temple, which holds significant religious importance in Goa.
3. **Old Goa Church (Basilica of Bom Jesus and Se Cathedral):** The Old Goa Church, a UNESCO World Heritage Site, gave the students a glimpse into Goa's rich colonial history. The Basilica of Bom Jesus, housing the mortal remains of St. Francis Xavier, and the Se Cathedral, the largest church in Asia, were visited for their historical and architectural value.

## Return Journey to Bengaluru

On the final day, 12th December at 7.00 p.m., the group began their return journey to Bengaluru. After a series of enriching visits, the students boarded the bus in the morning, reflecting on their experiences. The journey was long but filled with discussions and sharing of knowledge gained during the trip.



Principal  
M.S.Ramaiah College of Arts, Science &  
Commerce-Autonomous  
MSRIT POST, MSR Nagar  
Bengaluru - 560 054

The group arrived back in Bengaluru on the morning of 13th December at 11:00 am, marking the end of a memorable and educational industrial visit.

## Conclusion

The industrial visit to Goa provided the MSc Biotechnology and Microbiology students with a perfect blend of education, research exposure, and leisure. The visits to prestigious institutes such as the National Institute of Oceanography and ICAR Goa were invaluable in enhancing the students' knowledge of applied microbiology and biotechnology. The trip also provided a cultural and historical experience, enriching students' perspectives beyond the classroom.

Overall, the trip was a great success, and the students returned with a wealth of knowledge and unforgettable experiences. Such visits are essential in bridging the gap between theoretical learning and practical application.



Principal

M.S.Ramaiah College of Arts, Science &  
Commerce-Autonomous  
MSRIT POST, MSR Nagar  
Bengaluru - 560 054



**Photo gallery of the visit**

*Likha Ban.*  
*18/12/24.*

*Anurag*  
Principal  
M.S.Ramaiah College of Arts, Science &  
Commerce-Autonomous  
MSRIT POST, MSR Nagar  
Bengaluru - 560 054

**M.S. RAMAIAH COLLEGE OF ARTS SCIENCE AND COMMERCE**  
**III SEMESTER MSc. BIOTECHNOLOGY STUDENT LIST 2024**

Sl. NO.	Register No.	Name of the Student	Phone no. of the student	Remarks
1	P18EV23S027001	Jai Shree R	8147845697	Jai Shree R
2	P18EV23S027002	Sowjanya C	7259897848	Sowjanya C
3	P18EV23S027004	Deekshitha. A	9606426599	Deekshitha. A
4	P18EV23S027005	Nithyashree M S	8050056310	Nithyashree M S
5	P18EV23S027006	Yashaswini V	9353826618	Yashaswini V
6	P18EV23S027008	Bipasha Singh	6392972903	Bipasha Singh
7	P18EV23S027009	Bhoomika N	9411700899	Bhoomika N
8	P18EV23S027010	Perumal Vijaya Shanthi	7337040095	Perumal Vijaya Shanthi
9	P18EV23S027012	Adarsh Tamang	7076741011	Adarsh Tamang
10	P18EV23S027013	Kaursika Roy	8101584051	Kaursika Roy
11	P18EV23S027014	Sayata Choudhury	9932990862	Sayata Choudhury
12	P18EV23S027015	Hariharan R	8296833269	Hariharan R
13	P18EV23S027016	R Varshitha Raju	8970697982	R Varshitha Raju
14	P18EV23S027017	Keerthana S. N	8660203174	Keerthana S. N
15	P18EV23S027019	Likhitha P	9008863486	Likhitha P
16	P18EV23S027020	Farheen Farooque	9354414199	Farheen Farooque
17	P18EV23S027021	Ayushma Paul	9064510293	Ayushma Paul
18	P18EV23S027022	Kavyashri B T	9113898089	Kavyashri B T
19	P18EV23S027023	Ruzaina Fathima	ABSENT	Ruzaina Fathima
20	P18EV23S027024	Vandana S	8860438350	Vandana S
21	P18EV23S027025	Bindushree C M	8217460140	Bindushree C M
22	P18EV23S027026	Mala S	9380631737	Mala S
23	P18EV23S027027	M S Mahendrababu	9480270186	M S Mahendrababu
24	P18EV23S027028	Mithali Mangesh Mavinkurve	935353463	Mithali Mangesh Mavinkurve
25	P18EV23S027029	Sireesha D	9482826733	Sireesha D
26	P18EV23S027031	Ranjana C N	9986223378	Ranjana C N
27	P18EV23S027032	Shilpashree P V	8618016045	Shilpashree P V
28	P18EV23S027033	Prasanna.C	76764333124	Prasanna.C



29	P18EV23S027034	Shashanth	9900333420	Shashanth
30	P18EV23S027035	Keerthi S	9019880613	Keerthi S
31	P18EV23S027036	R Thanushree	7892462117	R Thanushree
32	P18EV23S027037	Amar	9380988323	Amar
33	P18EV23S027038	Bhuvana V	8618135112	Bhuvana V
34	P18EV23S027039	Mohammed Umar Sadiq	9149744992	Mohammed Umar Sadiq
35	P18EV23S027040	Chaitra S	8073283681	Chaitra S
36	P18EV23S027041	Prathiksha M	7019281487	Prathiksha M
37	P18EV23S027042	N Yashaswini	8867113659	N Yashaswini
38	P18EV23S027043	Sneha S	9970372845	Sneha S
39	P18EV23S027044	Nandini G	8088942881	Nandini G
40	P18EV23S027045	Darshan D	9380236578	Darshan D
41	P18EV23S027046	Prathyusha Chandrasekar Reddy	8608010209	Prathyusha Chandrasekar Reddy
42	P18EV23S027047	Adarsh A C	9900459999	Adarsh A C

*Likha*

M S Ramaiah College of  
Arts, Science & Commerce