

DEPARTMENT OF PHYSICS
SCHOOL OF ARTS AND SCIENCE
AV CAMPUS, PAIYANOOR – 603 104
INDUSTRIAL VISIT REPORT

Name of the Company : **BM Birla Planetarium**
Address : Gandhi Mandapam Rd,
Duraismy Nagar, Kotturpuram,
Chennai, Tamil Nadu – 600025.
Date : 18.04.2023
Programme & Year : I & II - B.Sc., Physics
Total No. of Students : 21
No. of Faculties : 3



From

Dr. E. Padmini
Assistant Professor
School of Arts and Science
AV Campus
Paiyanoor, Chengalpattu - 603104

To

The Director
School of Arts and Science
AV Campus
Paiyanoor, Chengalpattu - 603104

Respected Madam

**Sub: Permission Letter for Industrial Visit - Dept of Physics on
18.04.2023 - Reg**

I am writing this letter to seek your permission for the visit of Planetarium at Guindy on 18.04.2023. I would like to share that we have planed the visit for I and II year UG Physics students in order to give them the educational and entertaining show about astronomy and night sky. So, I kindly request you to allow the students and also provide the college bus for the visit.

Details of the Students:

1. I UG Physics - 13
2. II UG Physics - 10

Thanking You

Yours faithfully


Dr. E. Padmini



An Industrial visit has been organized by the Department of Physics, School of Arts and Science, Vinayaka Mission's Research Foundation, Chengalpattu, for I and II B.Sc., students of twenty on 18th April, 2023 for the academic year 2022-23 to Tamilnadu Science and Technology Centre. Tamilnadu Science and Technology Centre has established the following centers: Periyar Science and Technology Centre with B.M Birla Planetarium at Chennai,

Purpose of Industrial Visit:

- ❖ Industry visits help enhance interpersonal skills and communication techniques.
- ❖ Students become more aware of industry practices and regulations during industry visits.
- ❖ They get to have interactions with them and learn industry-specific workings and wisdom.
- ❖ To gain an understanding of the industrial working environment and to visualize all of the important departments.
- ❖ Interaction of students with personnel from all major departments.
- ❖ To prepare students for the choice of a career path in various departments of industry.



The industrial trip was coordinated by a team of UG First & Second year students of this chapter and was guided by **Dr. E. Padmini, Dr. N. Harikrishnan & Mr. A. Chandru.**

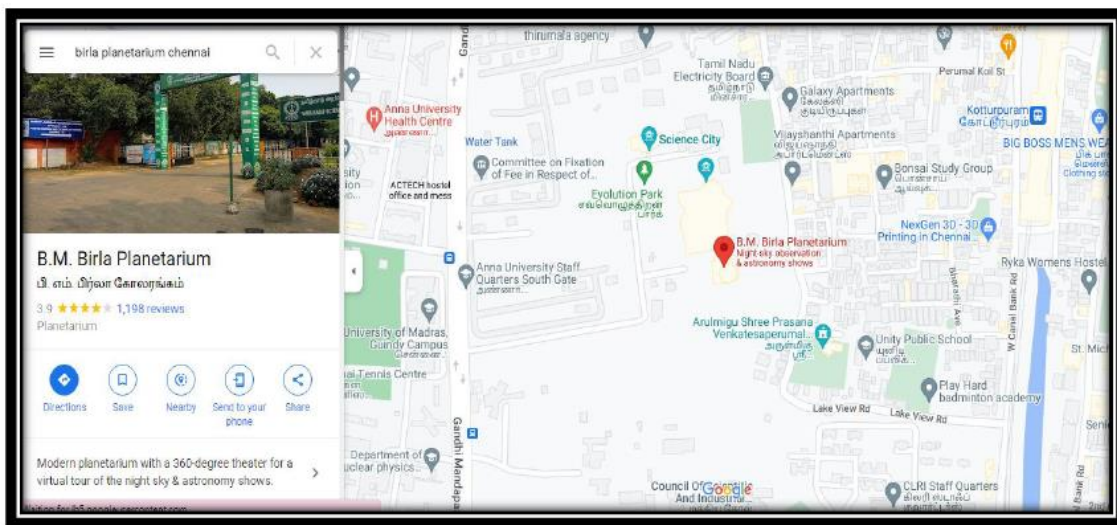
Centre Profile:

B. M. Birla Planetarium is a large planetarium in Chennai providing a virtual tour of the night sky and holding cosmic shows on a specially perforated hemispherical aluminium inner dome. The fifth B. M. Birla planetarium in the country, it is located at Kotturpuram in the Periyar Science and Technology Centre campus which houses eight galleries, namely, Physical Science, Electronics and Communication, Energy, Life Science, Innovation, Transport, International Dolls and Children and Materials Science, with over 500 exhibits.

Built in 1988 in the memory of the great industrialist and visionary of India B. M. Birla, it is the most modern planetarium in India. Other Birla planetariums in India include the M. P. Birla Planetarium in Kolkata, the Birla Planetarium in Hyderabad, and the planetariums in Tiruchirappalli and Coimbatore.

Location

The planetarium is located in the Tamil Nadu Science and Technology Centre's (TNSTC) Periyar Science and Technology Centre campus on the Gandhi Mandapam Road in Kotturpuram abutting the Central Leather Research Institute campus.



Location map of the Visiting Area

It lies close to the Guindy National Park in the predominantly wooded Adyar-Guindy region known as the Green Lungs of Chennai, enabling it to conduct night-sky observation comparatively easily which is otherwise difficult amidst the glaring city lights in the night. Other nearby landmarks include the IIT Madras, Adyar Cancer Institute, Anna University, University of Madras–Guindy campus and the Anna Centenary Library. The nearest railway stations are Kotturpuram MRTS in the northeast and Kasturba Nagar MRTS in the southeast, both located at a distance of 1 km from the planetarium. The Kotturpuram bus stop lies 2 km to the north.

Observations:



Students at Periyar Science and Technology Centre

Planetarium Features

The planetarium is equipped with a versatile opto-mechanical GOTO GM II starfield projector, an accompanying special-effects projector and an X-Y table system for simulating various celestial phenomena. The GM II projector has the provision to execute the diurnal, annual, latitudinal, and precessional motions. The pierced hemispherical inner dome of the planetarium, made of aluminium, is 15 m in diameter. The air-conditioned theatre has a seating capacity of 236. The total outlay proposed for the Tenth Five-Year Plan (2002–2007) for the Periyar Science and Technology Centre and B. M. Birla Planetarium was 6.4 million, including 2.6 million for the X-Y table system at the planetarium.

Shows

The planetarium conducts sky shows every day at different times in different languages. The shows include the Solar System, sky and seasons, eclipses, Earth, Man on Moon, comets, shooting meteoroids, stellar cycle and the deep sky. As of 2007, since its inception, the planetarium has introduced 35 programmes on these topics.

Audio-visual programs on various aspects of astronomy and different cosmic phenomena are also shown. Program themes are changed every 3 months. Shows are conducted in English and Tamil. The planetarium and the Science and Technology Centre is open on all days except on national holidays from 10:00 am to 5:45 pm.



Strength behind the visit:

The Director of SAS, **Dr. Nazeema T.H**, was strongly appreciated, encouraged and proposed that an industrial visit for physics students will be helpful to know about the planets and other facts of universe. The knowledge were helpful to find the jobs in space and astrophysics sectors.

Feedback from students:

We are thankful for all our faculties for organizing such an Informative event for us in crucial for development of our skills towards planets and astronomic sectors.

We hope to have more opportunities in the future to have such informative and enjoyable experiences visiting various industries.

