

# GUJARAT SCIENCE CITY

Gujarat Science City working under the aegis of the Department of Science & Technology, Government of Gujarat, is a bold initiative, emerging as a large scale science education and popularization platform in the state and country. Gujarat Science City is envisioned to help make an impact by appreciating science through entertainment, and providing an experience for the common citizen and special offerings to the educated and gifted. It aims to facilitate "EDUTAINMENT", i.e. education through entertainment.

## OBJECTIVES OF GUJARAT SCIENCE CITY ARE :

- To develop scientific temper.
- To nurture and stimulate scientific faculties of mind.
- To promote innovative and experimental activities.
- To showcase breakthroughs in Science & Technology.
- To establish a countrywide network.



## The First Phase of Gujarat Science City Comprises of :

Planet Earth  
IMAX 3D Theater  
Hall of Science  
Hall of Space  
Energy Education Park  
Musical Fountain  
Children Activity Center  
Life Science Park  
Motion Simulators  
Amphitheater

# IMAX-3D

**THINK BIG : IMAX 3D  
THEATER PRESENTS  
THE WORLD 'S  
LARGEST AND MOST  
INTERESTING CLASS  
ROOM...**

The experience of IMAX movie is amazing and unique. With a screen that is eight stories high, clarity of picture that is crystal clear, the background score that is heard in surround sound, IMAX transports you to a different world, a world of fantasy, that you would only have dreamed of till now.

Thanks to its advanced technology that is unique and innovative, the images of 3D are very attractive and watching a movie in IMAX is so enthralling and captivating that the viewer is lost in to the picture, quite literally !

**Born To be Wild**

**ISLAND OF LEMURS: MADAGASCAR**

**MISSION TO MIR**

**WALKING ON THE MOON**

**UNDER THE SEA 3D**

**PENGUINS**

**HUBBLE**





# AMPHITHEATRE

“Beautiful science inspires artists”, is a description by Ivan Noble. With this concept, The AMPHITHEATRE (Open Air Theatre) at Gujarat Science City has a capacity of 1200 seat for organizing programs like science drama, miracles and magic shows and other entertainment programs.

**With little imagination, students and community members can create an environment where the facts and figures of Science combine with the excitement, emotion and energy of the theatre.**



# PLANET EARTH PAVILION

The Planet Earth Pavilion at the Gujarat Science City is a unique pavilion for educating visitors about our planet earth and its rich biotic resources; natural catastrophes and technological advances.

It aims to create awareness, educate and train people about various types of natural disasters like earthquakes, volcanoes, landslides, etc. and to highlight the exquisite beauty and abundant truths of our planet earth.

The Pavilion has been constructed over an area of 9000 sq. meters hexagonal grid pattern with a unique dome structure having 50 meter diameter, it is in fact one of the largest domes in India.





**4D THEATRE :** It is a multi-dimensional Theatre where you can feel the smell of flowers, movement of Earth Quake, rain, snow fall, desert storm, and fire with the visual 3D film in synchronization with motionchairs.

**EARTHQUAKE EXPERIENCE RIDE :** A giant earthquake simulator where visitors will have a dramatic experience of different movements as encountered in a real earthquake.

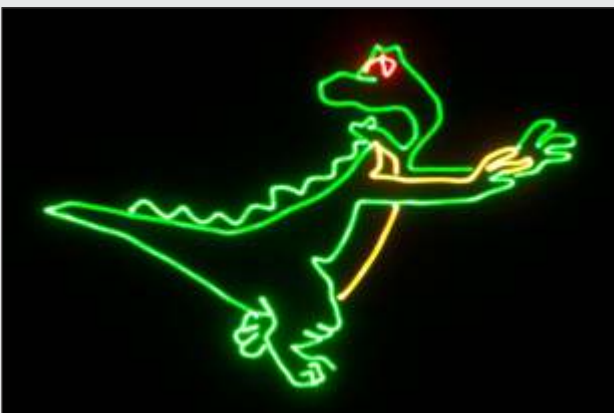
**PLANETARIUM :** You can enjoy a 20 minute space related movie in a semi spherical dome structure and learn about space and the evolution of Universe, Stars, Comets and Constellation. You can explore the night sky any time during the day through this planetarium.

**COAL MINE :** During a virtual tour you can look approximately 5000 ft. below ground level and you learn about the process of coal mining. You can observe coal wall, miners, coal cutting procedure through various type of machinery.

**LASER SHOW :** This is a short laser show which explains the importance of trees in our life. Lakhs of laser dots create a video through linear graphics.



Apart from the above attraction you can also no learn about agriculture, energy reserve rocks and minerals, evolution of life, biodiversity of Gujarat and human anatomy, life in water, nature disaster and disaster management, dynamic earth and interior of earth etc.



# HALL OF SCIENCE

“Tell me, I'll forget. Show me, I'll remember; Involve me, I'll understand” that is an old Chinese proverb. Hall of Science is a big open laboratory, where visitors are involved in hands on exhibits. Here visitors learn science through a discovery process. They move through different enclaves on light, vision, mirrors, kinematics, mathematics, sound, fluidics and energy and put their hands on interactive exhibits.

- Light Island
- Eyes and Vision
- Illusion of Mirrors
- Transformation of Energy
- Mathematics
- Kinematics
- World of Sound
- Fluids



*India in Space*



The Hall of Space in Gujarat Science City is a minds on exhibit capturing the imagination of the visitors and creating an emotional involvement with the help of working models, computer multi-media, multi-screen panoramic projection, animatronics, motion simulator, event simulator and interactive quiz. The Hall of space presents a simulated experience of a journey through the Solar System and a Thrilling exposure to the big question on life in outer space, are we alone in this vast Universe ?

## **HALL OF SPACE**

Space Exploration  
India in Space  
India's Moon Mission  
Mission to Mars  
Solar System Interactive  
Life in Outer Space  
Space Communication  
and Internet  
Space Quiz

# ENERGY EDUCATION PARK

Energy Education park, spread over a hexagonal grid pattern area measuring 9000 sq .m is being developed at Gujarat Science city

The entire park area has some unique structures and landscaping. The exhibits are classified according to five basic elements (panchbhuta) as propounded in ancient Indian philosophy.

## THESE INCLUDES :

1. TEJ (energy from the Sun)
2. MARUT (energy from the Wind)
3. AAP (energy from the Water)
4. KSHITIJ (energy from the Earth)
5. VYOM (Exploration of Space)

Exhibits on Wind Energy, Solar Energy, Geo-thermal, Petroleum Oil Rigs, Petroleum Christmas Tree, Sardar Sarovar Dam, Energy from Water, Biomass Gasifier, Bio-gas Plant, Nuclear Power Plant, etc., have been installed to provide a first hand knowledge on energy generation, its scope and potential in our country





# DANCING MUSICAL FOUNTAIN

The Dancing Musical Fountain at the Gujarat Science City is the largest musical fountain of India. It is an exciting demonstration on important phenomena of hydrostatics, hydrodynamics, electromagnetism and digital electronics. The spouts of water emanating from the fountain heads observe the basic laws of fluids dynamics including pascal's law and Bernoulli's principle. This musical fountain is a beautiful example of human creativity through the interaction of music and science.



## IT IS:

- India's Largest and Biggest Dancing Musical Fountain.
- Confluence of light, sound and water in motion.
- Spread over an area of 9000 square meters hexagonal grid pattern.
- Consists of 1300 square meters Pond area with 56 meters channel length.
- Illuminated by 935 colour lights.
- Involves 113 water jets with 2073 nozzles.
- Ejects water as high as 30 meters equivalent to any 10 storied building.
- Generates 273 water effects mesmerizing the eye, ear and mind.
- Surrounded with 4000 watt sound system, 20 speakers with graphic equalizer.
- Individually choreographed tunes of music with light, sound and water effects.
- Involves principle of acoustics, hydraulics, light-water synchronization
- Explain Bernoulli's principle, types of water flow and water dynamics, rainbow and many more...



# LIFE SCIENCE PARK

The Life Science Park at Gujarat Science City, developed on an area of 9000 sq. meter, aims to bring science and nature to life.

The main objective of this interactive and outdoor park is to enthuse children in the study of nature and in evolution, propagation and sustenance of life on this planet.

Through various activities in the Life Science Park, children will develop a sense of belongingness and love towards plants and animals around them.

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- Cretaceous Park
  - Aviary Corner
  - Non flying Bird Corner
  - Cactus Corner
  - Succulent Corner
  - Aromatic, Medicinal, Ornamental and Economic plant beds
  - Tissue Culture Lab
  - Butterfly Park
  - River system

# SCIENCE POPULARIZATION PROGRAM

Gujarat Science City celebrates important scientific days and events round the year with active involvement of school and college students, teachers, community and media. With its well designed scientific event calendar, which is first of its kind, Science City has been recognized as a Nodal Resource Center for all scientific activities and information.

The approach and methodology is focused on informal community based learning, which is different from the formal mode of education. All of the programs are intended to enliven the imagination, foster creativity and develop a spirit of inquiry, especially in young minds.





## CELEBRATING SCIENCE ROUND THE YEAR

A countrywide network has been established involving premier scientific institutions and organizations, eminent scientists and resource persons, resource organizations both at state, national and international level.

About 5000 science communicators comprising of teachers, community science center coordinators, science club members have been trained as professional science communicators for various modules of science popularization.

## CHILDREN ACTIVITY CENTER

School children, during their visit, discover the wonders of science and technology and get an access to the most exciting and contemporary form of entertainment regardless of their social strata, education or age group and create a culture of learning. Science City conducts regular training programs and workshops at state level and national level and acts as an interface between science and technology and society.

