

## PUNJAB SCHOOL EDUCATION BOARD

The Punjab School Education Board is hereby pleased to recommend 'Planetarium education K12' to be conducted in the schools of Punjab. It is an innovative and interesting Digisky mobile planetarium awareness program for students which, pedagogically connects the students to the night sky and liberates them from practical and intrinsic impediments like light, pollution and date/time/place/weather dependability associated with star gazing. Unlike a fixed public planetarium it demonstrates class appropriate and progressive shows in local ethos that are supported by supplementary books, tests and quizzes.

The detail of program is attached.

*Maya Kaur*  
23/12/15.  
Director (Academic)



# ORANGE PLANET LLP

*Adding value to 'Education'*

To  
The Principal

**SUBJECT : Continuous & Progressive Planetarium Education™ – K12 Outreach Programmes at your doorstep.**

Respected Sir/Madam,

With space missions like Chandrayaan and Mangalayaan, space tourism on anvil and names like **Rakesh Sharma, Kalpana Chawla** and **Sunita Williams** are on everybody's lips, the space age has finally arrived in India. ISRO's successful mission to Mars, commonly known as **Mangalayaan**, has made India the first country in the world to put an object in Mar's orbit in its maiden attempt. ISRO has now planned to send its first manned mission to the Moon around the year 2025 to 2030.

Message from **Captain Sunita Williams (NASA Astronaut)**  
for our budding astronauts:

***"Dream Big! You are our Future Explorers!"***

Students who are now studying in schools are likely to become India's first Astronauts or may be "Gagan + Nauts = Gaganauts". Astronomy ignites the young minds. It inclines and motivates students from an early age to pursue space/astronomy science as a career or as a hobby. Moreover there is a conspicuous ignorance among the students and the teachers community about the night sky/astronomy. The ignorance is due to problems that are intrinsic to astronomy/star gazing. It is really unfortunate that due to light pollution we live in starless cities.

**ORANGE PLANET** is an organisation that specialises in implementing innovative pedagogical concepts at pan India level in schools that are affiliated to State, Centre or Foreign Boards. To begin with it is Astronomy which has universal reach, appeal and applicability; we are associated with Astronomers, Science Communicators, Scientists and Educationists to implement astronomy in school system through **Planetarium Education™ – K12**.

**CBSE Former Chairman Sh. Vineet Joshi** while inaugurating **ORANGE PLANETARIUM** said that:

***"The Experience in the Planetarium Globe was wonderful and for a moment I was thinking that I am really in a Galaxy. It's a lifetime experience and it encourages students to pursue astronomy as a career."***

**Planetarium Education™ – K12** is a holistic and scalable concept that connects the students with the night sky. It provides a solution to the problems associated with astronomy teaching. It has been designed to implement astronomy in the Indian school system K12 through class-wise planetarium content with support books and Astronomy Olympiad that can be made an integral part of the school curriculum. A school can choose up to four planetarium shows/exposures (on quarterly basis) per year for its students. At present, a student visits a fixed public planetarium once in his 15 years of school life but now with in-house Planetarium Education™ he/she can participate in planetarium show at least once every year.

**Planetarium Education™ is companion to STEM education (Science, Technology, Engineering and Mathematics education).**

Our aim is to give easy, widespread and regular access to the school students across India to the mother of all sciences—Astronomy, which has universal reach and appeal.

**ORANGE PLANETARIUM is a school, cinema and theater all rolled into one!**

We invite the teacher and the principal to become members of **ORANGE Club** and get a token of appreciation and a whole lot more...

We solicit your participation in in-house Planetarium Education™ through **ORANGE PLANETARIUM**.

For more information/clarification please contact us at [response@orangeplanet.in](mailto:response@orangeplanet.in)  
You may also call Ms. Loveleen at **+91-8588814859** or at **011-43776600** (50 Lines)

Warm Regards

**Ankur Gupta**  
(Director)

#### Enclosures

1. Planetarium Education Modules
2. Assent Form
3. Astronomy Literacy Test
4. Parent's Circular
5. Orange Planetarium Profile
6. Planetarium Poster
7. Moon Calendar & Sky Map (samples)
8. Planetarium Support Books (2 Nos.)
9. Orange Club Membership Form
10. Ticket to Digital Planetarium Show (sample)

**9, Daryaganj, Near LIC Office, New Delhi-110002 (India)**

Phone: +91-11-43776600 (50 Lines), 23281022 Fax: +91-11-43776648

e-mail: [response@orangeplanet.in](mailto:response@orangeplanet.in), [info@orangeplanet.in](mailto:info@orangeplanet.in)

Websites: [www.orangeplanet.in](http://www.orangeplanet.in), [www.orangeplanetarium.com](http://www.orangeplanetarium.com), [www.nao.us.com](http://www.nao.us.com)

**Branches:** Ahmedabad ♦ Bengaluru ♦ Chennai ♦ Dehradun ♦ Guwahati ♦ Hyderabad ♦ Jaipur ♦ Kochi ♦ Kolkata ♦ Lucknow ♦ Mumbai ♦ Ranchi



## India's Largest Planetarium Outreach Company

We have already covered more than 22 Indian states and 160 districts across India. We have liberated more than 1,000 schools and 5,00,000 students across India and the Middle-East countries from the practical impediments of astronomy through our planetarium outreach programmes. It would not be out of place to mention here that more than 1,00,000 students of 100 schools are participating in **Planetarium Education™ – K12** in the current academic year through their booklists and it is now a part of their school curriculums. We have placed 20 mobile planetariums across India and 2 in the Middle-East.

Besides this, we regularly conduct **Teachers' Training Workshops on Planetarium** across India to improve their school astronomy literacy level. Over 1,000 teachers have benefited from our workshops and their opinion polls overwhelmingly recommend **Planetarium Education™ – K12**. Leo Planetaria Astronomy Education Pvt. Ltd. is our technology, equipment, content and training partner for planetarium outreach programmes.

### PARTICIPATION PROCESS

A school can choose up to four planetarium shows/exposures (on quarterly basis) per year from Planetarium Modules (enclosed) for its students. The school can add nominal amount in their monthly tuition fee structure under the head Planetarium Education or can prescribe the Planetarium Education™ – K12 book series in its booklist at the beginning of new academic year. Last but not the least, a school can also distribute Parent's Circulars among students for their participation.

### UNIQUE FEATURES

The **ORANGE PLANETARIUM**, unlike a fixed planetarium or a mirror dome planetarium (sic) has features like:

- ★ 3D immersive shows which are customized to class/age-wise and updated regularly.
- ★ shows have been designed for the students from Nursery to Class XII (age 3 to 16 years), keeping in mind their acumen and to improve their astronomy literacy level.
- ★ shows at kindergarten level are based on ancient sky cultures from the world over covering celestial objects, events and motions and step by step class-wise evolve to modern day science.
- ★ a student participates not only in new shows (up to four per academic year) that cover topics from the school curriculum but a whole lot more than that is there in the universe to discover, explore and learn in each new academic year.
- ★ each participating student gets a show-wise customized book (up to four per academic year).
- ★ each show is followed by a quiz where students can win attractive prizes.
- ★ each show is supported by a question paper (up to two per academic year) for class room based test that can be conducted by the school on a later date.
- ★ each participating student stands a chance to win a tablet through Quarterly Lucky Draw Scheme.
- ★ the shows, their books, question papers and the quiz are conducive to participate in National Astronomy Olympiad (NAO) in which a student can get a chance to go on a scientific expedition to NASA's Kennedy Space Center, USA under the NAO scholarship. Parent's Circulars for NAO participation will be distributed among the students after the shows.
- ★ no tedious field trip is required as the shows are organised in the school premises and managed within their time table.
- ★ supplement web support for each show is available for Students, Teachers and Parents.



**Captain Sunita Williams**, NASA Astronaut with Ms Kala Anjan Dutta, Director, The American Library  
under the mesmerising starry sky of the **ORANGE PLANETARIUM**

Twinkle twinkle little star, how I wonder what you are...

## Know the Starry Sky

&

## Explore the Space at your Doorstep



Captain Sunita Williams, NASA Astronaut with Ms Kala Anjan Dutta, Director, The American Library under the mesmerising starry sky of the **ORANGE PLANETARIUM**

### IMPORTANCE OF PLANETARIUM EDUCATION™ – K12

With space missions like Chandrayaan and Mangalayaan, space tourism on anvil and names like **Rakesh Sharma**, **Kalpna Chawla** and **Sunita Williams** are on everybody's lips, the space age has finally arrived in India. ISRO's successful mission to Mars, commonly known as **Mangalayaan**, has made India the first country in the world to put an object in Mar's orbit in its maiden attempt. ISRO has now planned to send its first manned mission to the Moon around the year 2025 to 2030.

Message from **Captain Sunita Williams (NASA Astronaut)** for our budding astronauts:

***"Dream Big! You are our Future Explorers!"***

Students who are now studying in schools are likely to become India's first Astronauts or may be named "Gagan+Nauts = Gaganauts". Astronomy ignites the young minds. It inclines and motivates students from an early age to pursue science as a career or as a hobby.

Our aim is to give easy, widespread and regular access to the school students across India to the mother of all sciences— Astronomy, which has universal reach and appeal.

**ORANGE PLANETARIUM** is a school, cinema and theater all rolled into one.

### CLASSWISE SHOWS CUM BOOKS





PARENT'S  
CIRCULAR

## INDIA'S LARGEST PLANETARIUM OUTREACH COMPANY

Message from  
Captain Sunita Williams (NASA Astronaut)  
for our budding astronauts:

"The sky is not even the limit!  
Believe in your dreams!"

For Classes  
Nursery to XII

Dear Parents,

**Planetarium Education™ – K12** is a holistic and scalable concept that provides a solution to the problems associated with astronomy teaching. It has been designed to implement astronomy in the Indian school system K12 through class-wise planetarium content with support books and subsequent Astronomy Olympiad.

At present, a student visits a fixed public planetarium once in his 15 years of school-life but now with **ORANGE PLANETARIUM** he/she can participate in planetarium show at least once every year. It is companion to STEM education (Science, Technology, Engineering and Mathematics education).

### Salient Features:

- ❖ **Planetarium Education™ – K12** provides 3D immersive class-wise customized progressive shows from **nursery to class 12** in local ethos as per the intelligence level of the students covering topics from the school curriculum and a whole lot more than that is there in the universe to discover, explore and learn in each new academic year.
- ❖ Each participating student gets a comprehensively designed show related book.
- ❖ Each show is followed by a quiz where participants can win attractive prizes.
- ❖ The content of the shows and their books are conducive to participate in National Astronomy Olympiad (NAO) in which a student can get a chance to go on a scientific expedition to NASA's Kennedy Space Center, USA under the NAO scholarship. Parent's Circulars for NAO participation will be distributed among the students after the shows.
- ❖ No tedious field trip required as the shows are organized in the school premises and managed within their time table.



### Participation Process:

- ❖ Submit the consent slip along with the participation fee to the concerned teacher.
- ❖ On receipt of the fee a show related book will be provided to the participating student.
- ❖ The book contains an entry ticket cum participating form for the planetarium show to be conducted in the school.
- ❖ The entry ticket along with the duly filled in participation form will be required at the time of the show.

### CONSENT SLIP

(Please submit the consent slip along with the fee to the school authorities within 2 days)

Student's Name: .....

Class: ..... Sec: ..... Roll No.: .....

Participation fee for a student is ₹ 225/- (Show's date will be informed shortly).

We hereby confirm our ward's participation in the show as per the rules.



Parent's Signature