



**"Education through self-help is our motto"- Karmaveer  
Rayat Shikshan Sanstha's  
Rayat Science and Innovation Activity Centre, Satara  
Varye, Tal/Dist. - Satara, Maharashtra  
Email- [rsiacvarye@gmail.com](mailto:rsiacvarye@gmail.com)  
Contact No. – 8605145013**



Date : 28/06/2024

To,  
The Member Secretary,  
Rajiv Gandhi Science and Technology Commission,  
Mumbai.

Sub: Report on the activities conducted in the year 2023-2024

Respected Sir,

Please find attached the detailed activity report on the activities conducted by SIAC, Satara from 1<sup>st</sup> April 2023 to 31<sup>st</sup> March 2024.

The detailed report of every activity along with photographs has been reported.  
Kindly acknowledge the receipt of the report and request for your further guidance for further enrichment.

Thank you,

Yours Sincerely,



Sarang S. Bhola  
I/C/ Director.  
Rayat Science and Innovation Activity Center, Satara

Encl: Detailed report of 21 pages.

Copy to: The Director, Nehru Science Center, Mumbai  
The Secretary, Rayat Shikshan Sanstha, Satara.



Founder : Karmaveer Bhaurao Patil

# ANNUAL REPORT

For the year ended March 2024  
(from 1.04.2023 to 31.03.2024)



Rayat Science & Innovation  
Activity Centre, Varye, Tal. &  
Dist. Satara – 415015.





**“Education through self-help is our motto”- Karmaveer  
Rayat Shikshan Sanstha’s  
SIAC, Satara  
Survey Number 467/2, 468, Varye,  
Tal/Dist. - Satara, Maharashtra- 415015.  
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## **1. Introduction:**

### **Rayat Science and Innovation Activity Centre:**

Rayat Science and Innovation Activity Center, inaugurated on February 14, 2020 in grace presence of a President of Rayat Shikshan Sanstha, Hon'ble Sharad Pawar and the renowned scientist, Hon'ble Dr. Anil Kakodkar, is a unique, non-formal science learning centre in the township of Satara. It aims to inculcate scientific temper among the students and popularize science in rural part of Satara district. The centre has been started with a robust support from the Rajiv Gandhi Science and Technology Commission (RGSTC) and the Nehru Science Centre (NSCM) for encouraging and motivating the students to undertake innovative activities in science. Rayat Science and Innovation Activity Center, Satara is spread over an area of approximately 550 square meters which consists an innovation activity hall, fun science hall, temporary exhibition space, an exhibition on Nobel Prizes 2019 and Mental Health, rolling ball sculpture and an open door science park.

## **2. Existing Galleries**

The centre has three galleries- Exhibition Hall, Fun Science Hall, Innovation Hub and one Science Park.

### **Exhibition Hall:**

In Exhibition Hall of the centre, photos as well as information about many renowned Indian physicists, scientists and their contribution are showcased for the visitors. The hall is being used for the demonstrations of science experiments. This is the place wherein students perform science activities.

### **Fun Science Gallery:**

The concept of fun science exhibition is based on the mantra “I hear, I forget; I see, I remember; I do, I understand.” The exhibits in fun science gallery will attract and encourage the visitors, especially students, to touch and experiment with these exhibits and learn about many basic scientific principles from our day to day life and also to learn to observe and form hypothesis. All exhibits of fun science gallery demonstrate the scientific principles behind many phenomena in lucid interactive manner thereby impacting impressionable minds of young children to believe that science can be fun , which otherwise is dealt with lot of seriousness and bookish approach in classrooms.



This gallery facilitates learning science while playing. These activities invite visitors to learn and deepen their knowledge on specific topic such as light and color, optical illusions, mechanics, electricity, magnetism and many more.

### **Innovation Hub:**

The innovation Centre provides facilities for the young minds to nurture new ideas and help develop inquisitive perspective among students. The innovation hall has fairly well equipped labs to do innovative experiments and model making in physics, chemistry, biology thereby creating excitement about science through experimentation and for understanding the underlying principles in science. This helps children to be logical thinkers. The section **TOD- FOD- JOD**(deconstruct and reconstruct) motivates students to learn to do things with their own hands , dismantle , reassemble and remake devices / gadgets and another section **KABAD SE JUGAD**( build from scraps) helps the students learn to make things from day to day scrap. We demonstrate and informed about innovation activity, biology, chemistry, Tod-Fod- Jod, Robotics, and Electronics giving all these relevant information to the students and they are shown. Innovation activity and Tod -Fod-Jod conducted by student also.

### **Science Park:**

A science park in a science center is exposition without wall in open air; Science Park is an innovative concept of teaching science in an informal ambiance. The basic idea of Science Park lies on the tendency of the children to play more than read. The small science park in Centre facilitates the children to mingle with science while playing. 10 simple sturdy exhibits installed here, encourage students to touch, experiment and play by way of interactivity and immersion to discover the reason and scientific facts about some nature phenomena. A few concepts about energy, gravity, how lever works, principle of camera, propagation of sound waves and vibration in objects etc. are explained in a playful manner in the science park.

Galleries picture at Rayat Science and Innovation Activity Center, Satara.



Innovation Hub	Exhibition Gallery
Fun Science Gallery	Science Park

### 3. Objectives of SIAC:

**Main objectives of the science center are to:**

1. Promote scientific culture and inculcate scientific temper for nurturing talent in science and technology and undertake research in scientific disciplines for conversion of science into technology as a vehicle of change in overall development.
2. Develop, own and operate world-class science centre which includes exhibitions, museums and edutainment and acts as a premier institute propagating science and harness the potential of modern communication technologies for welfare of the society.
3. To popularize science and technology in cities, urban and rural areas for the benefit of students and for the common man by organizing exhibitions, seminars, popular lectures, science camps and various other programs.



4. To organize training programs for science teachers/students/young entrepreneurs/technicians/ handicapped/housewives and others on specific subjects of science, technology and industry. To establish centers for development of science exhibits and demonstration aids.
5. To supplement Science education given in schools and colleges to foster the spirit of scientific enquiry and creativity among the students.

### Science Education Activities:

The science center organizes the Science Demonstration Lectures / Science Shows as follows.

- Fun with Physics
- Properties of Air
- Matter at Low Temperature
- Chemistry Show
- Chemistry in daily life
- Science vs. Miracles
- Colorful Chemistry
- Fun Science
- Electricity and Magnetism
- Liquid Nitrogen show

### 4. Visitors Data:

Students, teachers and citizens of Satara do visit the science center.

The Centre has been visited by 7468 visitors from 01 July 2022 to 31 March 2023.

In the financial year 01 April 2023 to 31 March 2024 number of visitors visited the center month wise is given.

Sr.No.	Month	Count
1.	April 2023	26
2.	May 2023	60
3.	Jun 2023	21
4.	July 2023	08
5.	August 2023	448
6.	September 2023	531
7.	October 2023	228
8.	November 2023	126
9.	December 2023	1393
10.	January 2024	580
11.	February 2024	1161
12.	March 2024	723
	<b>Total Count</b>	<b>5305</b>



### 5. Nature of work:

After registration of students, parents, citizens they are informed about Centre and basic instructions. Later on giving information about every gallery.



#### 1. Exhibition Hall

In exhibition hall participants are informed about science demonstration and exhibition hall activities. Students presented science experiments and activities.

Photographs of such few activities have been presented below.

Shri. V.D.More and Shri. S.S.Sonule demonstrates science experiments.  
While students are doing science activities.





After showing all the science experiments and science activities, everyone is informed about the Innovation hall.

## 2. Innovation Hall

Information is shared in the innovation hall there information about innovation, Tod-Fod-Jod, biology, chemistry, electronics, robotics is told and related activities and experiments are shown.

The photographs of activities conducted are as follows

Shri. Sachin Sonule while demonstration the activities in innovation hall, and receiving positive response from the students.



### 3) Fun science Gallery

In the Fun Science Gallery information is given on exhibit.

The photographs of events are as follows.



#### 4) Science Park:

The equipment in Science Park attract student, parent alike. The concept of Science through play is Very useful for children it helps to increase the Scientific of the Students. It also develops interest in the subject of Science. The photographs are as follows.



## 6. Feedback

At SIAC Satara the feedback is taken from the participant visitors. A few sample feedbacks are as follows.

Date - 23/08/2023

Stt Research students, RIRD satara

Today, we had visit to Rayat Science & innovation activity, first I would like to thank activity centre staff (Mr. Sonawane sir). He was explaining each & every concept of demonstration, & physics behind it & all. The activity centre is well managed and cleaned. Thank you for your time and efforts towards us.

Thanking you,

Ms. Minaj Makabuli Faras  
YCS, RIRD satara.

Date:- 24/08/2023

मुख्यसंचार प्रकल्पाधीनतर्फी भागवत्ता विद्यालयाची  
शेषांही रस्त्यान सारांश आँड व्होक्साशन अॉफर, येथी  
येतो दोन्हात आम्ही कधे आपल्या वैज्ञानिक विषय  
आतिथ्याखाली घण्यावोत येणे शक्यात. येतो भागवत्ता विद्यालय  
प्रदानाचा वर्णनात। त्वावत ते आम्हाला अंतप आवडल.

Thank you

कृत वैज्ञानिक विद्यालय घटावाड.  
आम्हाला वाहावी विद्यालय, उंचिज

Date - ६/३/२०२४  
 ग्राम - शिवार्थी ग्राम पालन परिषद (पा.प.)  
 मी परिवहनात्मक या विकासी आगे इधे आवश्यकतर मत्ता सुप्र केंद्र-  
 गवर्नर विभाग आणि, उपराज्या पालाशाळा मिळाले. प्रस्तुत गांव  
 मार्ग वाहिनी क्वाणिक वारपा असार हे व्यवस्था

इंजिनियर स्कूल व ट्रॅनिंग कोंकण  
 वड्डा.

Date - ६/३/२०२४  
 ग्राम - श्रेष्ठा गिरीन तालामले (पा.व.)  
 मी प्रश्नमध्ये या विकासी आगे इधे आवश्यकतर मत्ता सुप्र तिवेशीते  
 प्रश्नावाच क्वागा आणि सर्विव सर्वेजी आपल्या युप्र हातव माझदिनी  
 कले तिवेशीते प्रश्नावाच लऱ्याव दाखवावे मत्ता सुप्र हातव वाले

इंजिनियर स्कूल व ट्रॅनिंग कोंकण  
 वड्डा.

Date - ६/३/२०२४  
 ग्राम - ठोका आवृत्त कर्त्ता (पा.व.)  
 मी आल पाहिंवांदा शत सालांता ऊँची झोकेशी झांकिविडी सेंद्र  
 येई येत किंवा यांत्रिक शोभेषे शसांनी अस्फाला प्रत्येक गोटी गांवीन  
 तेतानिक वारपा शांतिकार.

इंगेशी रस्ता व ट्रॅनिंग कोंकण  
 वड्डा.

Date - 6/03/2024  
 नावः - कृष्णदेव लक्ष्मा कृष्णदेव (१९)

रशन साराजन अंजलि लोकेशन झाकरीवीरी गोपन या देखावा  
 चा माझा अनुमत ता पास्ता हात आहे. कारणा या विहारी सुमा  
 अर्थात या विषयाबद्दल खुप जाशन व घाठाली झालीही लिंगाती  
 आहे...

इडिनिंग भूक्त व व्हर्सि, काळोत  
 वडा.

Date - 6/3/2024  
 नावः मी शर्मिता कवास देवमुख  
 विद्यालयमध्ये विज्ञानावादात  
 गोडी निमित्त होण्यामधी या science center मध्यात प्रयोग  
 थेपु प्रयोगी आहेत. पाठ्यपुस्तकातील पृष्ठांच्या वर्तावांमध्ये  
 कौर विकल्पामध्ये मुलाना चांगल्या पुकारचे जान मिळते. मात्रकै  
 अर खुप उमाही भाहत त्यांनी मुलाना टांबल्या पुकार  
 मार्गदर्शन केले

English school & Fe college  
 vaduth

Date - 23/03/2024  
 नावः - कृष्णदेव लक्ष्मा कृष्णदेव  
 मी पहिल्यांदा या विहारी आले. अनुभव फास्तु मुंद्र दोत.  
 विविध प्रकारी प्रयोग पहायला मिळते. मात्राती दरवाल उक्तकै दिली  
 गेली. मला प्रत्येक गोपन नव्याने करतो.

आमिनव विद्यालय,  
 शाहुपुरा, झाताण  
 A.A.K.



## 7. Activities conducted in the year 2023- 2024

Apart from the regular visitors; SIAC, Satara conducts the different activities. The details of activities conducted in the financial year 2023-2024 are as follows.

Sr. No.	Date	Activities	Count of Participant
1	23/07/2023	<b>Science Competition</b> Make 7 minute video on science sub, and present it.	16
		Innovative Photo click	16
2	22/08/2023	<b>Science Competition</b>	
		i. Make 7 minute video on science sub, and present it.	10
		ii. Slogan writing	27
3	19/10/2023	iii. My Home My Science Lab.	40
		<b>Rangoli competition</b>	58
		<b>Quiz competition</b>	12
5	28/02/2024 National Science Day	<b>National Science Day</b>	45
		i. Rangoli competition	16
		ii. Quiz competition	50
6	8/3/2024	iii. Drawing competition	60
		<b>Women's Day Celebration</b>	120
		Women Sarpanch	89
7	20/10/2023	<b>Liquid Nitrogen Gas Show</b>	30
	1/2/2024	<b>Liquid Nitrogen Gas Show</b>	589
8	5/5/2023	<b>Workshop on Science Toys</b>	
		<b>Total</b>	

The brief of aforementioned activities along with photographs is as follows.

### 1) Science Competition – Date -23/07/2023

Various scientific competitions are organized every month to develop scientific talent, attitude and intellectual ability in school students.

Organized Science Competition is

- Make 7 minute video on science sub. And present it.
- Innovative photo click.

This competition was taken at date 23/07/2023 .A total of **16 students** participated in this competition. The students who achieved excellent results were awarded with certificates and prizes.



Some pictures of the student performance and Prize distribution.



## 2) Science Competition – Date -22/08/2023

The center have organized various science competition on occasion 136<sup>th</sup> birth anniversary of the Padma Bhushan **Dr. Karmaveer Bhaurao Patil**.

### i. Make 7 minute video on science sub. And present it.

This competition was taken at date 22/08/2023. A total of **10 students** participated in this competition. All participated student from Bhimabai Ambedakar School, Satara.

Some pictures of the Competition

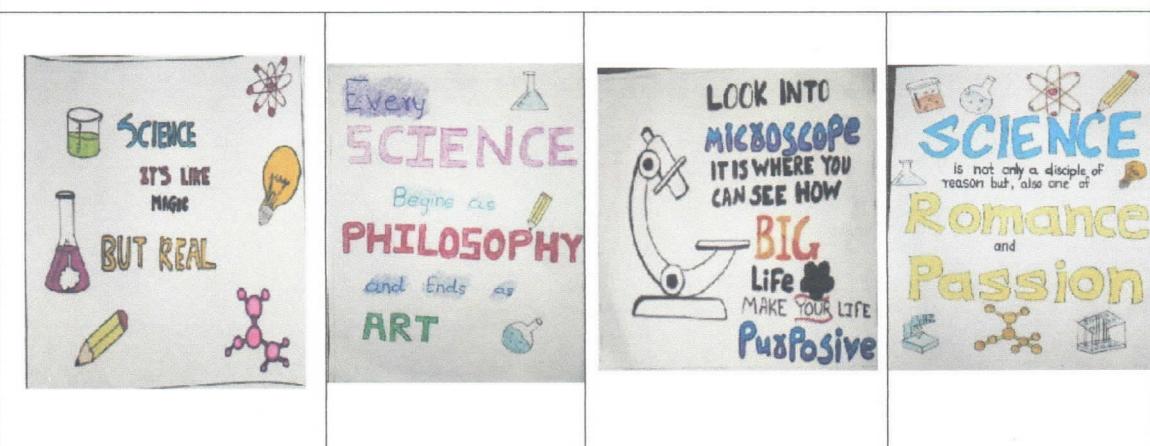


ii. **Slogan Writing.**

This competition was taken at date 22/08/2023 .A total of **27 students** participated in this competition.



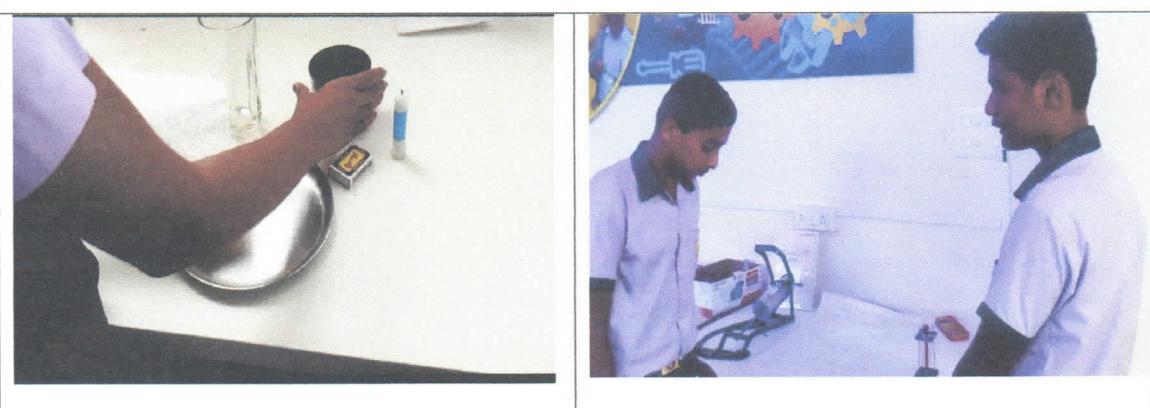
Slogan Writing Competition pictures.



iii. **My Home my science lab.**

This competition was taken at date 22/08/2023 .A total of **40 students** participated in this competition.

My home my science lab competition pictures.





### 3) Rangoli Competition – Date -19/10/2023

Rayat Science and Innovation Activity Centre, Varye, Satara organized Rangoli competition on occasion Diwaliat date 19/10/2023.

- This competition was taken at date 19/10/2023 .A total of **58 students** participated in this competition.
- All participated student from Annasaheb Kalyani Vidyalaya School, Satara.

Some pictures of Rangoli Competition



#### 4) Quiz Competition – Date -11/12/2023

SIAC, Satara has organized **Quiz competition** on 11/12/2023.

- A total of **12 students** participated in this competition.
- All participated student from New English school Pawarwadi, Satara.

Some pictures of Quiz Competition



#### 5) National Science Day – 28 February 2024

SIAC, Satara has celebrated the National Science day on 28<sup>th</sup> February. National Science day is celebrated in India to commemorate the discovery of the Raman Effect by Indian physicist Sir C.V. Raman on 28 February 1928. This groundbreaking discovery earned him the Nobel Prize in Physics in 1930, making him the first Indian to receive a Nobel Prize in science. On this occasion center, Satara celebrated with organizing various science competition for school student. A total of 281 students from 1<sup>st</sup> to 7<sup>th</sup> std participated in this competition.

Competitions organized as follows.

- i. Rangoli competition.
- ii. Quiz competition.
- iii. Drawing competition.

##### 1) Rangoli Competition

- This competition was taken at date 28/02/2024 .A total of **45 students** participated in this competition.
- All participated student from Ra .Ba .Kale Vidyamandir School, Satara.
- This competition theme was Indigenous Technologies for Viksit Bharat.



Some picture from Rangoli Competition



2) Drawing Competition.

- This competition was taken at date 28/02/2024. A total of **50 students** participated in this competition and student were given 45 minute for this competition.
- All participated student from Ra .Ba .Kale Vidyamandir School, Satara.
- This competition theme was Indigenous Technologies for Viksit Bharat.

Pictures from Drawing competition



3) Quiz competition:

- This competition was taken at date 28/02/2024 .A total of **16 students** participated in this competition.
- All participated student from Ra .Ba .Kale Vidyamandir School, Satara.

Some pictures from Quiz competition



After all the competitions, the prize distribution ceremony was held. Three best contestants were selected from each competition and honored with certificates and badges. After that, the chief guest Dr. Sarang S. Bhola (I/D RSIAC Satara), Mr. Kolekar sir (HM Ra. Ba. Kale school) and Mr. Bhosale sir (Assi. Professor KBPIMSR) guided all the students. Rayat science and innovation activity centre staff also thanked everyone.

Some pictures from Prize distribution ceremony



Celebration of National Science Day 2024 with students of Ra. Ba. Kale School, Satara



### 6) Women's Day Celebration: - 8th March 2024

Women's are considered to be the base of every society. It is equally important as per men. Women's have their respect and thus United Nations declared international women's day, and also considered the decade 1975-1985 as international women's decade while looking upto it India also declared the year 2002 as international women's year. On international women's day women's from all over the world celebrations are carried with showing of women's power and dignity. Thus 8<sup>th</sup> March international women's day has become a celebration all over the world.

On this occasion Rayat Science and Innovation Activity Centre, Satara celebrated 8<sup>th</sup> march 2024 women's day with the women sarpanch was invited to the science centre and told about the science centre in science and were shown the science centre. Also, some science experiments were shown and answer were given to the question of women about science. In this way, the science centre celebrated women's day with women sarpanch. Total 60 women sarpanch from different taluka in Satara was present on this women's day occasion.

Some Picture of Women's Sarpanch from different taluka in Satara

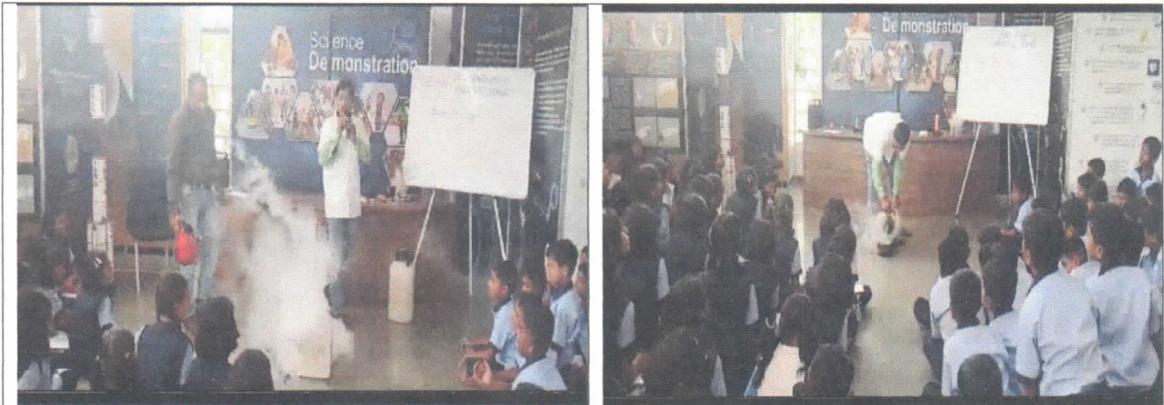


### 7) Liquid Nitrogen Gas Show:

The Liquid Nitrogen gas show is a unique feature of the presentation at Rayat Science and Innovation Activity Centre, Varye, Satara to engage students in to understand diversity in science. Various guidance and information are given to the students in this regard. This show conducted two times.



- 1) This show conducted at date 20/10/2023, at that time presented student is 120.



- 2) Once again this show conducted at date 01/02/2024, at that time presented student is 89.

Shri. S.S. Sonule sir while showing Liquid Nitrogen Show pictures.



### 8) Workshop:

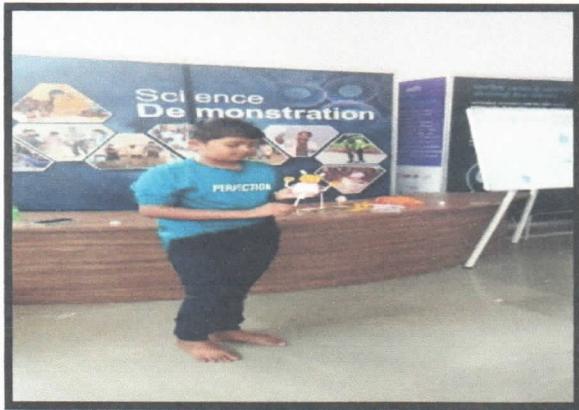
Rayat Science and Innovation Activity Centre Arranged Summer Workshop on Making science toys (stem) at date 05/05/2023. At workshop 5 science experiments were made by the students and training was given in making science toys in that

1. Dancing Doll.
2. Dancing Rabbit.
3. Vibro Robo.
4. Addition, Subs traction Machine by using card sheet paper.
5. Butterfly, Tod, Aero plane, Fish making using card sheet paper.

Total **30** school students participated in this Workshop.



Student Making Science Toys



**12. Guest Visit:**

- Entrepreneur Hon'ble Mr. and Miss. Patel, Dr. Anil Patil (Organizer – Rayat Shikshan Sanstha, Satara), Dr. Sanjiv Patil (Central region- Rayat Shikshan Sanstha, Satara), Dr. B. S. Sawant (Director – KBPIMSR Satara) dignitaries visited to Rayat Science and Innovation Activity Centre, Varye , Satara on 15/02/2023.



- Hon'ble Mr. Kfung Ki Eun (Answer co. LTD- Vice President), Dr. Anil Patil ( Organizer – Rayat Shikshan Sanstha, Satara), Dr. Sanjiv Patil ( Central region- Rayat Shikshan Sanstha, Satara) , Mr. Rajendra Salunkhe (Inspector Officer - Rayat Shikshan Sanstha, Satara) dignitaries visited to Rayat Science and Innovation Activity Centre, Varye , Satara on 30/08/2023.



### Conclusion:

The SIAC Satara i.e. Rayat Shikshan Sanstha's, Rayat Science and Innovation Activity Centre, Satara is on its way to comply the objectives set for the establishment of this centre. The SIAC, Satara is not only educating the visitors but also organising different camps to cater the need of science education of respective age groups.

The SIAC, Satara is marching ahead to attain best of its objectives catering needs to students and other stakeholders.

**The SIAC, Satara is committed to provide best of its services to its stakeholders.**



# THANK YOU

**Rayat Shikshan Sanstha's  
Rayat Science and Innovation Activity Centre,**  
Varye, Satara  
Email – [rsiacvarye@gmail.com](mailto:rsiacvarye@gmail.com)  
Contact No. – 8605145013

Shri. Sachin Sonule  
Curator

Dr. Sarang S. Bhola  
I/C Director

Place: SIAC, Satara

Date: 28.06.2024

