



Ministry of Culture  
Government of India



कार्य कलाप प्रतिवेदन

# Activity Report

2022-23



**Birla Industrial & Technological Museum**

**A Unit of National Council of Science Museums**

Ministry of Culture, Government of India





# ACTIVITY REPORT

2022 - 2023

Birla Industrial & Technological Museum  
&  
Shrikrishna Science Centre, Patna  
North Bengal Science Centre, Siliguri  
Digha Science Centre & National Science Camp  
District Science Centre, Purulia  
Bardhaman Science Centre

*With best compliments from*

**Shri A. D. Choudhury**

*Director General*

*National Council of Science Museums*

**Shri Subhabrata Chaudhuri**

*Director*

*Birla Industrial & Technological Museum*

## **Birla Industrial & Technological Museum**

(A Unit of National Council of Science Museums, Ministry of Culture, Govt. of India)

19A, Gurusaday Road, Kolkata - 700 019

Phone - 2287 7241, 9477345291

Email: [director@bitm.gov.in](mailto:director@bitm.gov.in), website: [www.bitm.gov.in](http://www.bitm.gov.in)

Facebook : [www.facebook.com/bitmkolkata](https://www.facebook.com/bitmkolkata)

YouTube : [www.youtube.com/birlamuseum](https://www.youtube.com/birlamuseum)

Twitter : [@BITMKolkata](https://twitter.com/BITMKolkata)

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## Message

Greetings from BITM!

The year 2022-23 happened to be a remarkable year for the Birla Industrial & Technological Museum (BITM) and its satellite units since Museums / Science Centers were accessible to visitors across the year, unlike the last two years due to the COVID-19 impact. 2022-23 was an active year for BITM and its satellite units as many new facilities were thrown open to the public during this period. BITM opened a renovated 'Motive Power Gallery' and an Astronomy Club. BITM also developed a Digital Adventure Gallery and handed it over to the Regional Science Centre, Chalakudy. Shrikrishna Science Centre, Patna opened a new gallery on 'Ocean-A Blue World'. Digha Science Centre (DSC), Digha inaugurated a new Life Science Gallery and Prehistoric Corner. North Bengal Science Centre (NBSC), Siliguri inaugurated a Popular Science Gallery. DSC, Digha, and NBSC, Siliguri celebrated the Silver Jubilee Year. District Science Centre, Purulia inaugurated a new 3D film titled 'Under the Water'.

In addition to the above permanent facilities, various temporary exhibitions were hosted in various science centers, namely, 'Nobel Worthy-What it Takes to be' at BITM, 'Ethnic Artefact Exhibition' and '25 years of NBSC, Siliguri' exhibition at NBSC Siliguri, and 'Contribution of Bengali Scientists' at DSC, Digha.

To reach out to rural masses and students, Mobile Science Exhibition (MSE) Buses of BITM and its units travelled to the schools in different rural locations to create scientific temper among them by demonstrating various science principles on Mathematics, Heat and temperature, Machines in Everyday Life, Popular Science, Food & Health, Water-Daily Life Chemistry and Hands-on Science. To enhance the skills of students, teachers, and specific groups, BITM and its units organized many hands-on training programs, workshops, science and nature camps, etc. Several collaborative programmes were also organized by BITM and its units jointly with like-minded Institutions, Govt. Departments; and NGOs to reach more people.

Govt. schools students' visit increased in comparison to the previous years. BITM and its units are slowly coming out of the shadow of the COVID-19. We thank one and all for their continuous support in our all endeavours and look forward to having vibrant years ahead.



**Shri Subhabrata Chaudhuri**  
*Director, BITM*

# **SECTION I**

## **General Information**



## General Information

### Birla Industrial & Technological Museum

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- i. Name of Head of Museum : **Shri Subhabrata Chaudhuri, Director**
- ii. Full Address : 19A, Gurusaday Road, Kolkata - 700019
- iii. Phone No and : 033 2287 7241, 9477345290/1/2,
- iv. Fax : 22870233
- v. Email : director@bitm.gov.in
- vi. Website: www.bitm.gov.in
- vii. Hours of opening : 9:30 am to 6:00 pm on all days (including Saturdays and Sundays)
- viii. Closed to visitors on : Doljatra and Kalipuja
- ix. Inaugurated on : 2nd May 1959
- x. Floor Area in Sq. mtrs.: 10351.95

xi. Ticket Rates:

**a) Museum Entry**

- i. General Visitors - Rs.55.00 per head
- ii. 25 or more Visitors in a group - Rs.40.00 per head
- iii. Students in Groups - Rs.20.00 per head
- iv. Govt. School Students in Group - Rs.10.00 per head

**b) Taramandal Show**

- i. General Visitors & Students - Rs. 10.00 per head,
- ii. Govt. School Students in Group - Rs. 5.00 per head

**c) Coal Mine Show**

- i. General Visitor - Rs. 15.00 per head,
- ii. 25 or more Visitors in a group : - Rs. 10.00 per head
- iii. School Group - Rs. 5.00 per head

**d) 3D show**

- i. General Visitors- Rs. 30.00 per head
- ii. 25 or more Visitors in a group - Rs. 25.00 per head
- iii. School Group - Rs. 20.00 per head,
- iv. Govt. School Students in Group - Rs. 15.00 per head

**e) Science Show**

- i. General Visitors & Students - Rs. 10.00 per head
- ii. Govt. School Students in Group - Rs. 5.00 per head

**f) Package Rate Tickets**

(includes one science show + 3D show + coal mine show + visit to all galleries + Chromakey shows in TV + Show in Spark Theatre + Math demo in Mathematics Gallery)

- i. General Visitors- Rs. 75.00 per head
- ii. 25 or more Visitors in a group : - Rs. 65.00 per head
- iii. School Group - Rs. 45.00 per head,
- iv. Govt. School Students in Group - Rs. 30.00 per head

## Shrikrishna Science Centre, Patna

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- i. Name of Head of Centre : Shri Amitabh, Project Coordinator  
ii. Full Address : West Gandhi Maidan, Patna - 800001  
iii. STD Code with Phone No : 0612 2206992      iv. Email : sscncsm@gmail.com  
v. Website : <http://www.sksciencecentre.org>  
vi. Hours of opening : 9:30 am to 6.30 pm      vii. Closed to visitors on: Holi & Diwali  
viii. Inaugurated on : 14th April 1978      ix. Floor Area in Sq. mtrs: 5000.69

x. Ticket Rates:

**a) Centre Entry**

- i. General Visitors - Rs. 35.00 per head  
ii. 20 or more Visitors in a group - Rs. 15.00 per head  
iii. Students in Groups - Rs. 10.00 per head  
iv. Govt. School Students in Group - Rs. 5.00 per head

**b) Taramandal Show**

- i. General Visitors & Students in group - Rs. 10.00 per head  
ii. Govt. School Students in Group - Rs. 5.00 per head  
i. General Visitors & Students in group - Rs. 10.00 per head  
ii. Govt. School Students in Group - Rs. 5.00 per head

**c) 3D Show**

- i. General Visitor - Rs. 30.00 per head  
ii. 25 or more Visitors in a group - Rs. 15.00 per head  
iii. School Group - Rs. 15.00 per head  
iv. Govt. School Students in Group - Rs. 5.00 per head

**d) Digital Planetarium Show**

- i. General visitor - 30.00 per head  
ii. Student in group - 15.00 per head  
iii. Govt. Student in group - 5.00 per head

**e) Science on a Sphere Show**

- i. General visitor - 25.00 per head  
ii. Student in group - 15.00 per head  
iii. Govt. Student in group - 10.00 per head

## District Science Centre, Purulia

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- i. Name of Head of Centre : Shri Dhruvajyoti Chattopadhyaya, District Project Officer  
ii. Full Address : North Lake Road, Purulia - 723101      iii. Phone No : 9593383386  
iv. Email : dscpurulia@gmail.com, districtsciencecentrepurulia@gmail.com  
v. Hours of opening : 10:00 am to 6:30 pm      vi. Closed to visitors on: Doljatra and Kalipuja  
vii. Inaugurated on : 15th December 1982      viii. Floor Area in Sq. mtrs: 1637

ix. Ticket Rates :

**a) Centre Entry**

- i. General Visitors - Rs. 15.00 per head  
ii. Students in Groups - Rs. 10.00 per head  
iii. Govt. School Students in Group - Rs. 5.00 per head

**b) Taramandal Show**

- I) General Visitors & Students - Rs. 10.00 per head  
II) Students in groups - Re. 5.00 per head

**c) Science Show**

- I) General Visitors & Students - Rs. 10.00 per head  
II) Students in groups - Re. 5.00 per head

**d) 3D Show**

- i) General Visitors - Rs. 15.00 per head  
ii) Students in groups - Re. 10.00 per head

**e) Royal Museum Tour Package for General (Entry & all shows) - Rs. 35.00**

**f) Gold Museum Tour Package for General (Entry & 3D show) - Rs. 25.00**

## Bardhaman Science Centre

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- i. Name of Head of Centre: Shri Nikhilesh Biswas, District Science Officer  
ii. Full Address: Ramna Maidan, Baburbag P.O. Rajbati Dist. Purba Bardhaman - 713104  
iii. STD Code with Phone No : 0342 2950565 iv. Email: sciencecentrebn@gmail.com  
v. Hours of opening: 10 am to 6:00 pm vi. Closed to visitors on: Doljatra and Kalipuja  
vii. Inaugurated on: 9th January 1994 viii. Floor Area in Sq. mtrs: 2117

ix. Ticket Rates:

**a) Centre Entry**

- i. General Visitors - Rs. 25.00 per head  
ii. 25 or more in a Group : Rs. 15.00 per head  
iii. Organised School Group : Rs. 10 per head  
iv. Govt. Schools students in Group : Rs. 5.00 per head

**b) Taramandal Show**

- i. General Visitors—Rs. 10.00 per head  
ii. Students in Group : Rs. 5.00 per head

**c) Science Show**

- i. General Visitors—Rs. 10.00 per head  
ii. Students in Group : Rs. 5.00 per head

**d) 3D Show**

- i. General Visitors - Rs. 30.00 per head  
ii) 25 or more in a group - Rs. 25.00 per head  
ii. Students in Group : Rs. 10.00 per head

## North Bengal Science Centre, Siliguri

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- i. Name of Head of Centre : Shri Ritabrata Biswas, Project Coordinator  
ii. Full Address : Post Matigara Siliguri - 734010 Dist. Darjeeling  
iii. STD Code with Phone No : 0353 2571229 iv. Email, nbcsiliguri1997@gmail.com  
v. Website www.nbcsiliguri.org vii. Twitter: twitter.com/nbcsiliguri1  
viii. Youtube: www.youtube.com/channel/UCjwgmxxzRCFAFBVrwHVUEF1Q  
ix. Hours of opening : 10:30 am to 7 pm x. Closed to visitors on : Holi & Diwali  
xi. Inaugurated on : 17th Aug 1997 xii. Floor Area in Sq. mtrs: 2598

xi. Ticket Rates :

**a) Centre Entry**

- i. General Visitors - Rs. 30.00 per head  
ii. 25 or more Visitors in a group - Rs. 20.00 per head  
iii. Students in Groups - Rs. 10.00 per head  
iv. Govt. School Students in Group - Rs. 5.00 per head

**b) Digital Planetarium**

- i. General Visitors - Rs. 25.00 per head  
ii. 25 or more in a group - Rs. 25.00 per head  
iii. Students in Groups - Rs. 15.00 per head  
iv. Govt. School Students in Group - Rs. 10.00 per head

**c) Taramandal Show**

- i. General Visitors & Students in a group : Rs. 10.00 per head  
ii. Govt. School Students in Group - Rs. 5.00 per head

**d) Science Show**

- i. General Visitors & Students in a group - Rs 10.00 per head  
ii. Govt. School Students in Group - Rs. 5.00 per head

**e) 3D Show**

- i. General Visitor - Rs 25.00 per head  
ii. 25 or more Visitors in a group - Rs. 20.00 per head  
iii. School Group - Rs. 10.00 per head  
iv. Govt. School Students in Group - Rs. 10.00 per head



## Digha Science Centre & National Science Camp

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- i. Name of Head of Centre : Shri Niranjana Gupta, Project Coordinator  
ii. Full Address : Fore shore Road, New Digha - 721 463 West Bengal  
iii. STD Code with Phone No : 03220296360 iv. Email : dscdigha@gmail.com  
v. Hours of opening: 9 am to 7 pm vi. Closed to visitors on: Doljatra & Kalipuja  
vii. Inaugurated on : 31st Aug 1997 viii. Floor Area in Sq. mtrs : 2589.25

ix. Ticket Rates :

**a) Centre Entry**

- i. General Visitors - Rs.30.00 per head  
ii. 25 or more Visitors in a group - Rs.25.00 per head  
iii. Students in Groups - Rs. 15.00 per head  
iv. Govt. School Students in Group - Rs. 10.00 per head

**b) Taramandal Show**

- i. General Visitors & Students in a group - Rs. 10.00 per head  
ii. Govt. School Students in Group - Rs.5.00 per head

**c) Science Show**

- i. General Visitors & Students in a group - Rs 10.00 per head  
ii. Govt. School Students in Group - Rs. 5.00 per head

**d) 3D Show**

- i. General Visitors- Rs 25.00 per head  
ii. 25 or more Visitors in a group - Rs. 20.00 per head  
iii. School Group - Rs. 10.00 per head  
iv. Govt. School Students in Group - Rs. 10.00 per head

**e) Sky Observation Programme**

Rs. 5.00 per head.

**f) Space & Astronomy Centre**

- i. General Visitors- Rs.30.00 per head  
ii. 25 or more Visitors in a group – Rs. 25.00 per head  
iii. Students in groups – Rs.15.00 per head  
iv. Govt. School Students in Group – Rs. 10.00 per head

## **SECTION II**

**Existing Galleries, Innovation Hub, Biotech Lab & Digital Planetarium  
Science Park  
Mobile Science Exhibition  
Library Holding**



## Existing Galleries Innovation Hub, Biotech Lab & Digital Planetarium

Museum/ Centre	Galleries/ Innovation / Hub Biotech Lab	Floor Area (Sq. Mtr)	Year of Inauguration	No. of Exhibits
Birla Industrial & Technological Museum	● Transport	350	1973 & 2008	94
	● Mock-up Coal Mine	540	1983 & 2008	65
	● Motive Power Hall – I	181	1962, 2003, 2022	46
	● Motive Power Hall – II	189	2006	47
	● Metals	200	2005	50
	● Fascinating Physics	265	2006	65
	● Television	200	2007	28
	● Popular Science	475	1964 & 2009	45
	● Mathematics	260	2010	44
	● Children's Gallery	475	1988 & 2012	42
● Electricity	170	1984 & 2015	53	
● World in Darkness	95	2009	19	
● Digital Adventure	230	2019	17	
● Biotechnology	189	2003	52	
	Innovation Hub	196	23 August 2013	–
	Biotech Lab	210	2 May 2017	–
	Astronomy Club	–	26 June 2022	–
Shrikrishna Science Centre, Patna	● Fun Science	400	2008 & 2016	63
	● Mirror Image & 3D	462	2010 & 2013	53
	● Evolution	400	1996	67
	● Ocean Gallery, Hall of Activity & Mirror Section	260	1978 & 2022	71
	● S. K. Singh Gallery	50	1978	20
	● Children's Gallery	100	2018	12
	Digital Planetarium	50	–	–
	Innovation Hub	167	7 October 2016	–
District Science Centre, Purulia	● Wealth of Purulia	186	2005	31
	● Popular Science	186	2010	40
	● Children's Gallery	95	2011	21
	● Life Science	186	2016	35
	Innovation Hub	120	17 December 2019	–
Bardhaman Science Centre	● Human Performance	450	2002	29
	● Life Science & Fun Science	450	2011	14 17
	Innovation Hub	233	10 July 2015	–
Digha Science Centre & National Science Camp	● Life Science	247	2006 & 2022	28
	● Reflection	247	2010	30
	● Fun Science	247	2014	33
	Digital Planetarium	50	09 February 2017	–
	Innovation Hub	265	16 February 2019	–

Museum/ Centre	Galleries/ Innovation / Hub Biotech Lab	Floor Area (Sq. Mtr)	Year of Inauguration	No. of Exhibits
North Bengal Science Centre, Siliguri	● Popular Science	380	2022	23
	● The Father of the Nation: A Digital Tribute	380	2020	10
	● Life Science & Children's Corner	120	1997	10
	● Nature Interpretation	400	2001	17
	● Light, Mirrors & Images	380	2017	33
	Digital Planetarium	50	2010	—
Innovation Hub	240.25	16 February 2018	—	



## Science Park

Museum/Centre	Area	No. of Exhibits	Year of Inauguration
SSC, Patna	1 acre	35	1979
DSC, Purulia	1 acre	41	1977
Bardhaman Sc. Centre	3 acre	50	1992
NBSC, Siliguri	4.6 acre	32	1997
Digha Sc. Centre	1.7 acre	35	1997



## Mobile Science Exhibition

Museum/Centre	Title of the Unit	Unit developed by	Year in which developed	No. of Exhibits
Birla Industrial & Technological Museum	Heat & Temperature Mathematics Machines in Everyday Life	RSC, Bhubneswar	2010	20
		NBSC, Siliguri	2007	20
		BITM, Kolkata	2019	20
Shrikrishna Science Centre, Patna	Popular Science Food & Health Machines in Everyday Life	BITM, Kolkata	2018	20
		CRTL, Kolkata	2019	20
		SSC, Patna	2019	20
District Science Centre, Purulia	Popular Science Measurement Food & Health	BITM, Kolkata	2012	24
		CRTL, Kolkata	2019	20
		CRTL, Kolkata	2019	20
Bardhaman Science Centre	Measurement	CRTL, Kolkata	2019	20
North Bengal Science Centre	Hands on Science Machines in Everyday Life	BITM, Kolkata	2014	24
		BITM, Kolkata	2019	20
Digha Science Centre	Water - Daily Life Chemistry	Science City	2019	20

## Library Holding

Museum/Centre	Items	Total holding as on 01.04.2022	Acquired during the year	Written off during the year	Total holding as on 31.03.2023
Birla Industrial & Technological Museum	Books	16581	-	-	16581
	Brochure	3032	04	-	3036
	Journals	8862	-	-	8862
	Films/Cassettes	919	-	-	919
	CDs	725	-	-	725
Shrikrishna Science Centre, Patna	Books	2374	01	-	2375
	Journals	1481	06	-	1487
District Science Centre, Purulia	Books	1154	-	-	1154
	Films	43	-	-	43
	Cassettes	17	-	-	17
	Cds	58	-	-	58
Bardhaman Science Centre	Books	249	-	-	249
	Journals	315	-	-	315
	CDs	27	-	-	27
	Films	21	-	-	21
	Video Cassette	02	-	-	02
North Bengal Science Centre	Books	391	11	-	402
	Films	05	-	-	05
	CDs	15	-	-	15
Digha Science Centre	Books	395	3	-	398
	Cds	27	-	-	27

# **SECTION III**

## **Activities at a Glance Unit Wise**

**New Facilities**

**Special Events**

**Innovation Hub Activities**

**Biotech Lab Activities**

**Collaborative Programmes**

**Participation in Government Programmes & Initiative**

**List of Popular Lectures**

**Camps, Trainings and Workshops held**

**Observance of Important Days**

# Birla Industrial & Technological Museum

## **New Facilities:**

### **Inauguration of Motive Power Gallery - 02 May, 2022:**

On the auspicious occasion of the 63rd Anniversary celebration on 2nd May 2022, Ms. Melinda Pavak, US Consul General, Kolkata inaugurated a Gallery on 'Motive Power' at BITM.

### **Handover of Digital Adventure Gallery, Regional Science Centre, Chalakudy - 15th July 2022:**

Digital Adventure Gallery, Regional Science Centre, Chalakudy was officially handed over by Mr. V. S. Ramachandran, Director, BITM to Dr. G. P. Padmakumar, Director, Kerala State Science & Technology Museum on 15th July 2022.

## **Special Events:**

### **Temporary Exhibition:**

Two temporary exhibitions, one on 'Rare Artefacts' and the other on 'X-Ray' were on display at BITM during April 2022.

### **Episode presentation in DD Bangla's 'Bigyan Proshonge' Series - 29th June, 3rd and 10th July 2022:**

Health check-up Camp was conducted by Central Ayurveda Research Institute, Kolkata (Ministry of AYUSH, Govt. of India) at the BITM premises on 13th July 2022.

### **Nomination and Screening of Documentary 'Characterizing Colour: Sir C V Raman at Work' at 12th National Science Film Festival 2022 - 22nd to 26th August 2022:**

BITM's documentary 'Characterizing Colour – Sir C. V. Raman at Work' was screened on Day-1 of the event, under Interface Category, at Prof. J. C. Bose Auditorium, MP Council of Science & Technology - Vigyan Bhavan, Bhopal on 22nd August 2022 on 12th National Science Film Festival of India.

### **Telecast of 'Tales of Tricolour' Science Magic Show by BITM as part of DD Bangla's Bigyan Proshonge Series - 31st August 2022:**

Celebrating India's scientific spirit while introducing concepts of Bernoulli's Principle, density gradient, elasticity, inertia, optics, osmosis, ionization energy - all in tricolour - BITM presented an episode in DD Bangla's 'Bigyan Proshonge' Series, aired on 31st August and 4th September.

### **Observation of Partial Solar Eclipse - October 25, 2022:**

The last solar eclipse of 2022 started in the afternoon of October 25 and continued after sunset. On this occasion, popular talk by Dr. S. Krishna Prasad, Assistant Professor, ARIES, Nainital, an autonomous institute under the Department of Science and Technology, Government of India, was telecast live at BITM's YouTube Channel (<https://youtu.be/c4wgAA8KyIE>) Guided by Prof. Shibu Mathew, from the Udaipur Solar Observatory (USO), Rajasthan, this partial eclipse of the Sun, live - streamed from USO, Physical Research Laboratory, was also telecast at <https://youtu.be/qjwUh4jJdl0>. Roof top observation of the partial eclipse was arranged at the BITM premises. The event was attended by about 70 students, teachers and general museum visitors.

### **Exhibition & Panel Discussion 'Nobel Worthy-What it Takes to Be' - October 31, 2022:**

BITM, Kolkata's Exhibition and Panel-Discussion 'NOBEL WORTHY - What it Takes to Be' was an attempt to draw on past examples to decode - what works and what may not. Around 120 students and teachers from La Martiniere for Girls, Jadavpur Sammilita Balika Vidyalaya, Jodhpur Park Girls' High School, Army Public School, Loreto Convent, Entally and Don Bosco, Park Circus attended the above mentioned event.

### **Workshop and Live-viewing of Total Lunar Eclipse - November 08, 2022:**

BITM organized a hands-on session for students to explain the science behind lunar eclipses and more such associated phenomena. This was followed by live sky-observation from the BITM premises. The event was attended by about 210 students, teachers and general museum visitors.

### **JBNSTS-Vigyan Prasar (SCoPE-Bangla) Webinar:**

BITM, Kolkata was invited to deliver the Science Communication, Popularization and its Extension (SCoPE) webinar on the Jagadish Bose National Science Talent Search-Vigyan Prasar platform on November 16, 2022. Conducted in Bengali, the interactive webinar was attended by around 30 participants and is available for viewing at <https://www.youtube.com/@scope-bangla6996>.

### **Inputs for DD Bangla's 'Bigyan Proshonghe', live phone-in programme on Space Research in India:**

Provision of expert comments in DD Bangla's live phone-in episode of 'Bigyan Proshonghe', exploring possibilities of space research in India – broadcast on DD Bangla on November 23 and 27, 2022.

### **Popular Lecture, Panel Discussion - as part of 'National Space Science Exhibition' - December 9, 2022:**

The first National Space Science Exhibition - hosted by the Center of Excellence in Space Sciences India, IISER Kolkata in collaboration with the Indian Space Research Organization, the S.N. Bose National Centre for Basic Sciences, Science City, Birla Industrial and Technological Museum along with city based partner organizations including the Presidency University, University of Calcutta and St. Xavier's College - was organized across Kolkata. As part of the event, BITM, Kolkata presented a Public Lecture and Panel Discussion - hosting several women space scientists and entrepreneurs in a free flowing discussion about challenges and opportunities in space sciences. Around 230 students and escorts attended the session in-person.

### **Exhibition at Naihati Utsav - December 24 - 31, 2022:**

BITM, Kolkata exhibited a proximity-sensor mounted wall 'Sensing Festive Sounds', playing iconic sounds of the festival - the beat of 'Dhaak', the chime of 'Ghonta', the reverberations of 'Knashor' and the familiar hum of the 'Sonkho' - all at the wave of the hand - as part of Naihati Utsav. Outreach Sky Observation through Telescope was conducted in the evening of December 29.

### **Special Programme on National Science Day 2023 for DD Bangla - February 28, 2023:**

BITM conducted an Open-Air Science Show, as part of DD Bangla's Special Feature on National Science Day 2023, telecast 8:30 pm on February 28, 2023, repeat telecast 4:30 pm on March 01, 2023 - a part of 'Bigyan Proshonghe' series.

### **Interactive Panel Exhibition:**

Interactive panel exhibition 'Sensing Festive Sounds' at Science City, Kolkata at 30th West Bengal State Science and Technology Congress, 2022-2023 from 28 February to March 01, 2023 attended by over 200 visitors.

### **Science Quiz Carnival - March 29 to 31, 2023:**

Around 200 students enrolled and competed in the Science Quiz Carnival - in Junior, Middle and Senior Levels - over three days.

### **Innovation Hub Activity:**

#### **BITM Innovation Hub 'Basic Electronics' Workshop - September 24 - 25, 2022:**

Aiming to encourage awareness and provide practical experience in the technological advancements in modern electronics, the Workshop on 'Basic Electronics' - for students of classes VI to XII - by Innovation Hub, BITM, Kolkata was attended by 50 youngsters in 2 sessions each day. With discussion on power sources for circuits, dissemination of knowledge about Integrated Circuits, hands-on projects involving digital displays, indicators and sensors, the Workshop was meant to be an initiation into the tools and technologies of our electronics era.

#### **Annual Project Presentation by BITM Innovation Hub Members - 28th August 2022:**

'Annual Project Presentation' session for showcasing innovative experimental projects and working models made by Innovation Hub, BITM members, was organized on August 28, 2022. Overall 32 projects and working models were presented by 55 members in this offline contest.



### **Workshop on Arduino - December 17-18, 2022:**

Imparting practical training and technical knowledge in the basics of Arduino, BITM organized a two-day Hands-on session, attended by 50 students between classes 6 to 10 at Innovation Hub, BITM.

### **Astronomy Club, BITM Activities:**

Open to enrolment by students from Class-9 onwards, aiming to engage in monthly sessions dedicated to theoretical and practical activities in Astronomy, the BITM Astronomy Club was formally inaugurated with an online lecture by Prof. Dibyendu Nandi on Solar Astrophysics on 26th June 2022. Besides the physical presence of 50 students and teacher-escorts, the event was attended virtually by over 300 astronomy enthusiasts.

\*A Popular talk was organized by BITM Astronomy Club on 22nd September 2022 on 'Our Nearest Star Sun and its Variability', delivered by Prof. (Dr.) Dipankar Banerjee, FASc, FNASc, Director, Aryabhata Research Institute of Observational Sciences, Nainital, Department of Science and Technology, Government of India.

### **Bio-technology Lab Activity:**

#### **Biotechnology Laboratory Activities:**

BITM's Biotechnology Laboratory conducts a variety of Hands-on Biology, Biotechnology Activities/Experiments besides inquiry-based laboratory investigations in the field. Some of the investigatory projects are

Estimation of Vitamin 'C' content in different citrus fruits / Antifungal properties of Guava and Tobacco leaves/ Identification of soil bacteria/Extraction and estimation of chlorophyll, carotenoids, protein and other components analysis of some medicinal plant leaves /A comparative study of bacteria diversity among garden soil and soil samples collected from different locations of a chemical run off /Investigatory study of acid value of different oil samples/Evaluation of microbial load of different soil samples /Growth analysis of Rhizobium bacteria in different salinity conditions /Study of Aquatic flora to reduce water pollution /Protein estimation of gall leaves

#### **Hands-on workshops and other programs:**

- \* Biotechnology Laboratory of BITM conducted Hands-on Training Programme on "Basic Tools and Techniques in Biotechnology" on 4th & 5th June of 2022 for undergraduate Bioscience students.
- \* Hands-on Workshop on 'Molecular Biology and Mushroom Cultivation Techniques' by BITM in association with Department of Science & Technology and Biotechnology (DSTBT), Govt. of West Bengal from 23rd September - 25th September 2022. The molecular biology session was conducted by Dr. Damayanti Das Ghosh, Scientist and Technical Director, Department of Basic and Translational Research, Molecular Diagnostics Laboratory, Saroj Gupta Cancer Centre & Research Institute, Kolkata.
- \* Biotechnology Laboratory of BITM organized A Two-day Hands-on Workshop on 'Basics of Biotechnology' on 6th and 7th December, 2022 for students of class IX-XII.
- \* Biotechnology Lab of Birla Industrial & Technological Museum, Kolkata, hosted Popular Lecture on 'Application of DNA Technology in Medicine & Forensics' on December 18, 2022. Dr. Nabarun Ghosh, Professor of Biology & Advisor for Biology Education, Department of Life, Earth & Environmental Sciences, West Texas A&M University delivered the Lecture and lead the Workshop.

### **Collaborative Programmes:**

#### **A Symposium on 'Fighting Cancer by Choice':**

To spread awareness about the challenges posed by cancer, a symposium on 'Fighting Cancer by Choice' was organized on 15th June 2022 by BITM in collaboration with Saroj Gupta Cancer Centre & Research Institute, Thakurpukur. Dr. Arnab Gupta, Medical Director & Professor (Department of Surgical Oncology) and Dr. Rahul Roy Choudhury, Consultant Gynecological Oncologist led the discussion, attended by around 150 members of staff of BITM and invited teachers from various schools of Kolkata.

#### **World Children's Day - November 20, 2022 :**

Creating visibility on children's issues, BITM, Kolkata collaborated with the Press Club, Kolkata, a

partner of UNICEF and participated in the #GoBlue campaign. The #GoBlue initiative of the World Children's Day programme, annually commemorated on November 20, 2022, champions the cause of children, their rights and voices across the globe.

### **23rd Niroprova Memorial Lecture:**

BITM, Kolkata, in collaboration with Royal Society of Chemistry (Eastern India Section) presented the 23rd Niroprova Memorial Lecture, titled 'Cosmic Concepts'. Dr. Debiprosad Duari, Director, Institute of Astronomy Space and Earth Sciences, Kolkata, led the discussion on November 30, 2022 at BITM Auditorium, also live streamed on the BITM YouTube Channel. About 200 students and teachers from 10 schools and colleges attended the lecture at the BITM, premises.

### **An Awareness programme on "One Health in Classroom":**

To understand One Health better, Biotechnology Laboratory of BITM in collaboration with FAITH (Foundation for Actions and Innovations towards Health Promotion), organized an orientation session for teachers and mentors on "One Health in Classroom" on January 6, 2023 at the BITM premises. The session was led by Dr. Madhumita Dobe, Chairperson FAITH, Former Director- Professor & Dean Head, Department of Health Promotion & Education, All India Institute of Hygiene & Public Health, along with other dignitaries.

### **12th International Photographic Conference - January 23 - 27, 2023:**

The 12th International Photographic Conference was organized by BITM in collaboration with Photographic Association of Dum Dum (PAD). It was inaugurated on 23rd of January, by Mr. Loannis Lykouris, Secretary General of Fédération Internationale de l'Art Photographique (FIAP). A National Workshop on Photography was conducted from 21st to 23rd January 2023 in the BITM premises too. Delegates from Greece, Egypt, Portugal, Canada, UAE and Bangladesh attended this event. The Exhibition remained open to the public from 24th to 27th January 2023.

### **International Seminar 'Safeguarding Intangible Heritage for Sustainable Development':**

In collaboration with Department of Museology, University of Calcutta, BITM, Kolkata hosted a 2-day International Seminar on 'Safeguarding Intangible Heritage for Sustainable Development' on March 23 & 24, 2023, attended by around 100 registered participants, students and faculty members.

### **Participation in Government Programmes & Initiatives:**

#### **Activity under Swachhta Action Plan:**

BITM organized a 'Pledge Taking Ceremony' involving all its staff members as part of the Swachhta Action Plan 2022-23 and a special cleaning drive of its premises including its toilets on 18th and 20th April 2022 respectively.

#### **Hindi Pakhwada 2022, September 14 - 20, 2022:**

Hindi Pakhwada was organized for BITM, Kolkata staff-members, to encourage the usage of Hindi in workplaces - through drafting of notes, slogan-writing contest, impromptu speech, exhibition of books, journals and newspapers in Hindi at the BITM premises.

#### **Special Campaign 2.0 - October 2 - 31, 2022:**

Cleanliness drive of outdoor exhibits, passages, pathways and laboratories of BITM was conducted during the period, along with weeding out of old files of Administration Section.

#### **Observance of Vigilance Awareness Week - November 03, 2022:**

Poster Making and Elocution Contest for students on 'Corruption-free India for a Developed Nation' on November 03, 2022 - as part of observance of Vigilance Awareness Week during October 31 - November 06, 2022.

### **List of Popular Lectures:**

Date	Topic	Lecturer
1 07.04.2022	Food Nutrition and Diseases in Modern Times	Dr. Partha Chakrabarti Principal Scientist, CSIR-Indian Institute of Chemical Biology

	Date	Topic	Lecturer
2	22.04.2022	'Invest in our Planet - Commit to a Healthy Future'	Dr. Madhumita Dobe, Former Dean & Director- Professor, Department of Health Promotion and Education, All India Institute of Hygiene and Public Health
3	17.05.2022	Adolescents - "No Children not yet Adults"	Dr. Trina Sengupta, MBBS MD of Community Medicine AIIPH, Kolkata
4	05.06.2022	'Deforestation, Plastic Pollution & Global Warming - Biotechnology as a Solution'	Prof. Nabarun Ghosh West Texas A&M University
5	15.06.2022	Wide perspective and impact area of the reasons of cancer and ways to avoid it, Breast Cancer	Dr. Arnab Gupta Medical Director & Professor (Department of Surgical Oncology)
6	15.06.2022	Detailing of Cervical Cancer	Dr. Rahul Roy Choudhury Consultant Gynecological Oncologist
7	23.06.2022	Big Science, Small Science - How are we Performing	Dr. Palashbaran Pal Emeritus Professor, Dept. of Physics C.U.
8	23.06.2022	Bengal - The Citadel of Biomedical Research in India	Dr. Susanta Roy Choudhury J C Bose National Fellow, ICMR, Emeritus Scientist, CSIR-IICB
9	23.06.2022	Institution Building in S & T - Before and Immediately After Independence with Indigenous Initiatives	Dr. Bhupati Chakrabarti Former Professor, Dept. of Physics City College Kolkata
10	26.06.2022	Scientific Thoughts and writings of Bankim Ch. Chatterjee	Prof. Pinakesh Ch. Sarkar Ex-HOD & Prof. Dept of Bengali, Jadavpur University
11	26.06.2022	Solar Astro-Physics	Prof. Dibyendu Nandi Dept of Physical Science & Head of Centre of Excellence in Space Sciences India, IISER, Kolkata
12	15.07.2022	Dr. Har Gobind Khorana - A Man who pioneered concepts and tools of physics & Chemistry to break fundamental questions of biology	Dr. Ambika C Banerjee Former Corporate Adviser East India Pharmaceutical Works Ltd.
13	15.09.2022	Introduction to Space Mechanics	Prof. Debabrata Nag, Dept of Mechanical Engineering Jadavpur
14	22.09.2022	Our Newest Star the Sun and its Variability	Dr. Dipankar Banarjee FASc, FNASC, Director, ARIES, Nainital

	Date	Topic	Lecturer
15	28.09.2022	"Science for a Healthy Society"	Dr. Madhumita Dobe, Former Dean & Director- Professor, Department of Health Promotion and Education, All India Institute of Hygiene and Public Health
16	25.10.2022	"Solar Astrophysics"	Dr. Krishna Prasad Asst Prof, ARIES, Nainital
17	25.10.2022	"Solar Eclipse"	Prof. Shibu Mathew, Udaypur Solar Observatory
18	31.10.2022	"Nobel worthy What it takes"	Dr. Saumitra Banerjee Dept of physical Science, IISER Kolkata
19	31.10.2022	"Nobel worthy What it takes"	Dr. Partha Chakrabarti, Principal Scientist, CSIR-Indian Institute of Chemical Biology
20	23.06.2022	"Nobel worthy What it takes"	Dr. Saikat S Roy Prof & HOD Economics, Jadavpur University
21	10.11.2022	"Role of Science Centre & Science Museums in Sustainable Development"	Prof. Samir Kr Saha, Former Professor & HOD Dept of Mechanical Engineering Jadavpur
22	30.11.2022	"Cosmic Concepts"	Dr. Debiprasad Duari, Director Institute of Astronomy Space and Earth Science, Kolkata
23	03.12.2022	"Geology, Geo-science - Outlook, implication & Current Scenario"	Dr. Arghya Goswami Associate Professor of Geology Northwest Missouri State University
24	09.12.2022	"Behind the Scene look of Planning and options of Space Missions"	Ms. Nandini Harinath, Scientist ISRO
25	09.12.2022	Panel Discussion on Women in Space Science	Shyama Narendranath (ISRO), Nandini Harinath (ISRO), S. Seetha (Raman Research Institute), Devleena Bhattacharjee (Numer8 Analytics), Nikhitha C (Genex Space) and Avyarthana Ghosh (TCS Research)
26	18.12.2022	"Application of DNA Technology in Medicine & Forensic"	Dr. Nabarun Gosh, Prof. of Biology Adviser for Biology Education Dept. West Texas A & M University
27	28.02.2023	"Light Illuminates and the Study of Light Enlightens"	Dr. Bhupati Chakrabarti Former Professor, Dept. of Physics City College Kolkata

## **Camps, Training and Workshops:**

### **BITM Science Camp 2022: Batch 1- 23 to 27 May, 2022:**

8 Science Camps on Play with Science, Computational Tinkering: Hands-on Fun Maths, Geography & Basic Astronomy, Mathematics: Ancient & Modern, Physics, Chemistry, Biology and Electronics were conducted for 224 students from classes 3 to 12 at the BITM premises.

### **BITM Science Camp 2022: Batch 2 - 30th May to 3rd June 2022:**

8 Science Camps on Play with Science, Computational Tinkering: Hands-on Fun Maths, Geography & Basic Astronomy, Mathematics: Ancient & Modern, Physics, Chemistry, Biology and Electronics were conducted for 218 students from classes 3 to 12 at the BITM premises.

### **Mathematics Workshop:**

Hands-on Mathematics Workshop for 156 students and 08 teachers of Class-8 from Modern High School, Kolkata on September 08 & September 15, 2022 - covering Exponents, Shapes, Quadrilaterals and Percentages - through origami and activity-based applications.

### **Mathematics Workshop - December 12 and 14, 2022:**

165 students of Modern High School, Kolkata from Class-II were engaged in an interactive Mathematics Workshop on calculations and applications of Mathematics in everyday life.

### **Workshop 'Fun with Physics - from Oersted to Maxwell'- March 11 & 12, 2023:**

In a bid to encourage learning by experimentation, Innovation Hub of BITM, Kolkata organized a 2-day Hands-on Workshop 'Fun with Physics - From Oersted to Maxwell'. 70 students from classes VI – X dedicated to understanding Electricity and Magnetism better.

## **Observance of Important Days:**

**Earth Day** was observed by BITM on 22nd April 2022

**World Health Day** was observed by BITM on 7th April, 2022

**National Technology Day** was commemorated by BITM on 11th May, 2022

**Week-long Celebration of International Museum Day** by BITM from 16th to 20th May, 2022

**World Environment Day** was observed by BITM on 5th June 2022

**Week-long 'Celebrating Bengal'** was commemorated by BITM from 20th to 26th June 2022

**International Day of Yoga** was observed by BITM on 21st June 2022

**International Moon Day** was observed by BITM on 20th July 2022

**Celebration of 75 years of Independence** at BITM from 13th to 19th August 2022

**Engineers' Day 2022** was observed by BITM on September 15, 2022

**International Day of Scientific Culture 2022** was observed by BITM on September 28, 2022

**International Science Centre & Science Museum Day** was observed by BITM on November 10, 2022

**Children's Day** was observed by BITM on November 14, 2022

**Commemoration of World Heritage Week** during November 19-25, 2022 with BITM, Kolkata conceptualized and installed a proximity-sensor mounted wall 'SENSING FESTIVE SOUNDS'.

**World Television Day** was observed by BITM on November 21, 2022

**National Energy Conservation Day** was observed by BITM on December 14, 2022

**National Mathematics Day** was observed by BITM on December 22, 2022

**Commemoration of National Science Day 2023** was observed by BITM on February 28, 2023

**International Day of Forests** was observed by BITM on March 21, 2023

## **Science Seminar:**

### **Kolkata District Science Seminar 2022 - September 13, 2022:**

With students nominated from 17 schools in Kolkata, deliberating on 'Basic Sciences For Sustainable Development: Challenges & Prospects', participants from Delhi Public School, Ruby Park, Kendua Mahendra Nath Girls' High School, Indus Valley World School and Birla High School won Merit Prizes while students from Shri Shikshayatan School and Calcutta International School qualified for the West Bengal State Science Seminar – 2022.

## **West Bengal State Science Seminar 2022 - September 21, 2022:**

Inaugurated by Prof. Sibaji Raha, Former Director, Bose Institute, Kolkata in the presence of Prof. Asish De, Secretary, Royal Society of Chemistry, Eastern India Section - the West Bengal State Science Seminar 2022, organized by BITM - in association with the Dept. of Youth Services & Sports, Govt. of West Bengal and Royal Society of Chemistry, Eastern India.

With Participation Prizes going to Delhi Public School, Burdwan; Sri Sri Academy, Siliguri; St. Xavier's School, Burdwan and B.S.S. Central Public School, Purulia - along with Merit Prizes to Ramkrishna Mission Vidyapith, Purulia; St. Joseph's High School, Matigara; Shri Shikshayatan School, Kolkata and Kolaghat Thermal Power Plant High School, East Midnapore - Oindrila Pal from Calcutta International School, Kolkata took home the Sharmila Mookherjee Award for the best girl participant - leaving Adrish Pati of Mount Litera Zee School, Contai, with the Dr. Ramatosh Sarkar Award for the best performer of the West Bengal State Science Seminar and the chance to represent West Bengal in the upcoming National Science Seminar 2022.

## **Science Drama**

### **Kolkata District Science Drama Competition 2022-23 - November 07, 2022:**

With teams from Mahadevi Birla Shishu Vihar, Delhi Public School Ruby Park, Kolkata and Khalsa Model Senior Secondary School winning hearts with their act based on 'Science & Technology for the Benefit of Mankind' - South City International School was awarded 3rd Best Drama for 'Dawn of Hope', La Martiniere For Boys won Best Actor Award for 'A Protonomist Approach', Loreto Day School-Elliot Road won Best Script-Writer Award and 2nd Best Drama for 'Ctrl+Alt+Del' and Pratt Memorial School took home prizes for Best Actress, Best Director and Best Drama 'Save the Tiger'. Judged by Dr. Kaliprasanna Dhara, Prof. Siddhartha Chakraborty and Dr. Kartik Moitra, the top two teams represented Kolkata at the WB State Science Drama Competition 2022-23, on November 15, 2022 at BITM, Kolkata. The event was attended by about 300 students, teachers and interested audiences.

### **West Bengal State Science Drama Competition 2022-23 - November 15, 2022:**

Nine district-level science drama competition winning teams from Bardhaman, Purulia, Darjeeling, Purba Medinipur and Kolkata competed in the West Bengal Science Drama Competition 2022-23 on November 15, 2022. With Best Actor Award going to R. B. B. High (H. S.) School, Purulia; Hindi Balika Vidyapith, Siliguri, Darjeeling took home prizes for Best Script Writer and 3rd Best Drama; Pratt Memorial School, Kolkata won the awards for Best Actress and 2nd Best Drama; while Gouradag High School (H.S.), Purulia won the award for Best Director and Best Drama, along with the chance to represent West Bengal in the Eastern India Science Drama Competition 2022-23, due for November 17, 2022. The event was attended by about 270 students, teachers and interested audiences.

### **Eastern India Science Drama Competition 2022-23 - November 17, 2022:**

Five state-level winning teams from Bihar, Jharkhand, Odisha, Sikkim and West Bengal competed in the Eastern India Science Drama Competition 2022-23, inaugurated on November 17, 2022, in the presence of Shri Chandan Sen. With 'A-G O-G Go-G' from Upgraded High School, Badalpur, Jharkhand and 'Corona Bodh Pala' from Gouradag High School (H.S.), Purulia, West Bengal enthralled audiences, 'Tools to Technology' by Singhik Secondary School, North Sikkim, Sikkim won prizes for Best Actress and 3rd Best Drama; 'Tika ki Kahani' by +2 Rajkiya Uchh Vidyalaya, Lakhisarai, Bihar was awarded for Best Script Writer and 2nd Best Drama while Gandhiji Nodal Bidyapitha, Gojabandha, Odisha's 'Bhag Corona Bhag' took home prizes for Best Actor, Best Director and Best Drama. The top two teams will represent Eastern India in the National Science Drama Festival 2022-23, due on January 5-6, 2023 at Visvesvaraya Industrial & Technological Museum, Bengaluru.

## **Visit of the Underprivileged Students :**

### **Educational Excursion of Underprivileged Students to BITM, Kolkata :**

1. Over 6,000 underprivileged students visited BITM from 69 schools for an educational excursion in the month of September, 2022.

2. 554 underprivileged students availed of the Science Shows and Gallery visits, along with concessional entry, transport and lunch facilities – as applicable for their educational excursion at BITM in the month of October, 2022.
3. 887 underprivileged students from 16 schools availed of the Science Shows and Gallery visits, along with concessional entry, transport and lunch facilities during the month of November, 2022.
4. 1826 underprivileged students from 23 schools availed of the Science Shows and Gallery visits, along with concessional entry as a part of their educational excursion at BITM during the month of December, 2022.
5. 462 underprivileged students from 6 schools availed of the Science Shows and Gallery visits, along with concessional entry as a part of their educational excursion at BITM during the month of January, 2023.
6. 840 underprivileged students from 11 schools availed of the Science Shows and Gallery visits, along with concessional entry as a part of their educational excursion at BITM during the month of February, 2023.
7. 123 underprivileged students from Muraripukur Govt. Sponsored School availed of the Science Shows and Gallery visits as a part of their educational excursion at BITM on 6th March 2023.

### **Mobile Science Exhibition:**

#### **Mobile Science Exhibition:**

1. On the occasion of centenary celebrations of Ratneshwar Vidyalaya, Baruipur, South 24 Parganas, a Mobile Science Exhibition bus themed 'Heat and Temperature' was exhibited on September 09, 2022 which was visited by 1590 students.
2. On the occasion of centenary celebrations of Ramakrishna Mission Vidyapith, Deoghar, Jharkhand, a Mobile Science Exhibition bus themed 'Machines in Everyday Life' was exhibited along with a Fun Science demonstrations, from September 22 - 25, 2022 which was visited by 10,847 students and teachers.
3. 15,000 visitors, including students, teacher escorts from 19 schools attended the MSE Unit 'Heat & Temperature' during the 3-day tour at Dr. B. D. Nagchaudhuri Smarak Vigyan Mela, Behala, Kolkata from December 16-18, 2022.
4. 51,000 visitors attended the MSE Unit 'Heat & Temperature' during the 5-day tour of Paribesh Mela, Madhyamgram from December 23-27, 2022.
5. Visitors, including students, teacher escorts from schools attended the MSE Unit 'Machines in Everyday Life' and Fun Science Show during the 3-day tour at Dantan High School, Paschim Medinipur from December 28-31, 2022.
6. 14,000 visitors attended the MSE Unit 'Machines in Everyday Life' tour of Bira Ballavpara Girls High School, North 24 Parganas, near Barasat from January 14-15, 2023.
7. 10,000 visitors attended the MSE Unit 'Heat & Temperature' during the 3-day tour at Khanchi Gunadhar Adarsha Vidyapith, Purba Medinipur from January 14-16, 2023.
8. Over 24,500 visitors, including students, teacher escorts attended the MSE Unit 'Heat & Temperature' and Film Shows, during the tour at various Schools of North 24 Parganas from February 02 to 22, 2023.
9. Around 20,000 visitors, including students, teacher escorts attended the MSE Unit 'Machines in Everyday Life' at Haldia Utsav from February 08 to 10, 2023.
10. Around 15,000 visitors, including students and teacher escorts attended the MSE 'Machines in Everyday Life' and Film Shows, in 8 schools of South 24 Parganas from March 16 to April 01, 2023

### **Science Fair:**

#### **Kolkata District Science Fair 2022-23 - December 21-22, 2022:**

45 models by 81 students from 25 schools in Kolkata competed in the Kolkata District Science Fair 2022-23 themed 'Science & Technology for Sustainable Development', during December 21-22, 2022. The projects 'Word Life' and 'Free Energy from Moving Vehicle' by students from Patha Bhavan and Delhi Public School (Joka), South Kolkata respectively won Special Prizes in the Competition while four projects from Baranagar Mohan Girls' High School (H.S.), Khalsa Model Senior Secondary School, Sri Sri Academy and St. Xavier's Collegiate School were adjudged top-winners & qualified for the West Bengal State Science Fair 2023, to be held at the BITM, Kolkata premises during January 10-13, 2023.

### **Eastern India Science & Engineering Fair 2023 - January 10-13, 2023:**

The 46th Eastern India Science Fair (EISF) along with 20th Science & Engineering Fair (SEF) was organized by BITM and held at BITM premises, Kolkata, during January 10-13, 2023, based on the following theme: Main theme: Science and Technology for Sustainable Development and Sub-themes: 1. Eco Friendly Material 2. Cleanliness and Health 3. Environmental Concerns 4. Industrial Development 5. Future Transport and Communication 6. Educational Games and Mathematical Modeling The biggest show of innovative science models/exhibits by school students of Eastern India provided a unique platform for showcasing the creative potential in our youth. This four day long mega event brought students, teachers, parents, scientists, technologists, industrialists and common people together on a single meeting ground for a rewarding intellectual, social and cultural interaction. Students up to class XII participated- either individually or in-groups of two - with their models and exhibits from schools. EISF was organized in collaboration with the SCERT and Education Depts. of all the Eastern Indian States; NCERT, New Delhi and Dept. of Youth Services, Govt. of West Bengal. In the Engineering Fair, college students, got direct entry as selected by their respective colleges. Over 150 models and 25 projects by around 350 students were showcased at the BITM premises during the period. Prof. Abhijit Chakrabarti, Former Vice Chancellor, Jadavpur University, Kolkata, Chairman, Executive Committee, BITM, was the Chief Guest and Dr. Soumitro Banerjee, Professor, Indian Institute of Science Education and Research, Kolkata was the Hon'ble Guest on the inaugural day of the Science Fair. Prof. (Dr.) Dhrubajyoti Chattopadhyay, Vice Chancellor, Sister Nivedita University was the Chief Guest of Valediction & Prize Distribution Day. All other hon'ble guests like Shri Arnab Saha, President of Industrial Sales & Marketing, Exide Industries Ltd. Shri Sanjay Kumar Sinha, Chief Executive Officer, Birla Group of Companies, Shri Sanjay Kumar, Dy. General Manager (B & O), State Bank of India, Shri Simarpreet Singh, Director, JIS Group, Shri Milan Kumar Maity, Sales Engineer, Edutech India encouraged and praised the incredible innovative work of students participated in science fair.

### **Outreach Programme:**

#### **Sky Observation at Residential Complex:**

BITM arranged a Sky Observation programme with a Slide Show at a residential complex 'Surya Residency' on 9 April 2022. 100 members of the flat owner's association participated.

#### **Outreach Programme at Jadavpur University Hostel:**

Telescopic observation of Moon and Slide-Show for 150 residents of Jadavpur University Boys' Hostel, Salt Lake Campus on 08th May 2022.

#### **Outreach Programme at ISI Kolkata:**

A hands-on experiment based Fun Science Show was presented by BITM at Indian Statistical Institute (ISI) Kolkata on 1st July 2022.

#### **Science Outreach Programme at JIS School of Polytechnic, Kolkata - 3rd August 2022:**

BITM was invited to present hands-on experiment-based Fun Science Show, to about 350 students and teachers, during Open Day at Indian Statistical Institute (ISI) Kolkata, observed as part of Azadi ka Amrit Mahotsav, on 3rd August 2022.

#### **Fun Science Show & Science Magic Show:**

Spectacular, jaw-dropping experiments were demonstrated at 'Fun Science Show & Science Magic Show' on January 15, 2023 to ensure the propagation of the magic of science – across all age-groups. The show was organized by Konnagar Municipality. More than 2000 people gathered to watch the mesmerizing scientific demonstration at Konnagar Book Fair & Flower Exhibition.

#### **Outreach Fun Science Demonstration:**

The spectacular scientific show performed at the Meghnad Saha Vigyan Mela organised by Paschimbanga Vigyan Mancha, on 20th January 2023, at Triangular park, Kolkata, spellbound more than 500 spectators including students and the science workers. This show focussed on many things which are very essential for daily life which intended to popularise science and for eradication of superstitions.



**Outreach Sky Observation Program through Telescope:**

BITM, Kolkata organized an Outreach Sky Observation Program through Telescope in the evening of January 22, 26, 28. The Show was free for all and attended by over 110 visitors during the 3 days who witnessed the spectacular view of celestial bodies like Moon, Mars, Jupiter, Saturn.

**Outreach Programme:**

Special Science Show as outreach initiative of BITM, Kolkata at Juktiman Vigyan Mela, Konnagar on 5th February 2023, attended by around 2500 visitors.

**Outreach Science Workshop at St. Augustine's Day School**

Hands-on Science Workshop at St. Augustine's Day School, comprising of Science Demonstration and Science Kit making, attended by around 30 students and teachers on March 24, 2023.

## Shrikrishna Science Centre, Patna

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### New Facilities:

#### **Inauguration of a New Gallery: Ocean - A Blue world:**

Shrikrishna Science Centre, Patna inaugurated a very unique and New Gallery for its visitors named as "Ocean: A Blue World" on May 04, 2022. The gallery was inaugurated by Honourable Minister of Education, Bihar Shri Vijay Kumar Chaudhary in the presence of Hon'ble Director BITM, Kolkata, Former Vice-Chancellor of Patna University, Dr. (Prof.) Ras Bihari Singh and HoD of Geology Department, Patna University, Dr. (Prof.) Atul Aditya Pandey

#### **Launch of New Kit on Mathematical Games and Demonstration:**

Date of Inauguration: June 20, 2022

A brand new a curriculum based Science Demonstration Lecture on Mathematics was inaugurated by Shrikrishna Science Centre, Patna, on June 20, 2022. A total of 24 No. of kits have been developed for demonstration, based on 11 specified topics of mathematics. Important concepts like- Decimal and Fraction, Algebraic Equations, Graphical Representations, Geometrical shapes, Measurement of Angles etc. are covered in this kit.

#### **Launch of a new Science on a Sphere Show on "Monsoon":**

Shrikrishna Science Centre, Patna had introduced a new science on July 02, 2022 for students and general public on the topic: "Monsoon: Causes and Impacts". The show had been uploaded on the Facebook Page of the centre in online mood for wider outreach of the show.

#### **Launch of a new Science on Sphere Show on "Blue Planet":**

Date : March 22, 2023

Shrikrishna Science Centre, Patna launched a new science on a sphere show for students and general public on the topic: "Blue Planet" on the occasion of World Water Day- 2023. Concept of- Ocean Current, sea surface temperature, real time cloud data, distribution of dams and reservoirs throughout the world, wave energetic distribution are some topics which have been discussed during the show.

No. of participants : 135

#### **Development of a new science demonstration lecture on the topic "Introduction to Electromagnetic Induction":**

Date: March, 2023

Shrikrishna Science Centre, Patna had developed a curriculum based new science demonstration lecture on the topic "Introduction to Electromagnetic Induction" for class VII to X. It is being developed to correlate the topic of electricity and magnetism and to develop the easy understanding of the topic electromagnetic induction. Eleven numbers of experiments is being included in the demonstration. The topics of the SDL are :- Introduction of a bar magnet, poles of a bar magnet, magnetic lines of force, oersted experiment, faraday's laws of electromagnetic induction, Lenz's law, electric generator and motor etc.

### Special Events:

#### **State Level Science Seminar - 2022:**

Shrikrishna Science Centre, Patna in collaboration with State Council of Educational Research & Training, Patna organized a State Level Science Seminar- 2022 on September 30, 2022 on the topic: "Basic Science for Sustainable Development: Challenges & Prospects". The Chief Guest of the program Shri K. C. Sinha, Vice- Chancellor, Nalanda Open University, Patna shared his views on the above topic with the participants. He encouraged students to do more innovations related to basic problems of the society.

#### **State Level Science Drama Competition - 2022:**

Shrikrishna Science Centre, Patna in collaboration with State Council of Educational Research &

Training, Bihar had organized "State Level Science Drama Competition- 2022" on 4th November, 2022 in the premises of the centre. Participants from all 9 Divisions of Bihar have participated on the topic: "Science & Technology for the benefit of Mankind". 90 Participants presented their Dramas on the above topic in front of the judges.

### **Participation of Shrikrishna Science Centre, Patna in S & T Fairs:**

Shrikrishna Science Centre, Patna in collaboration with SCERT, Bihar had organized a Science Expo at Gandhi Maidan, Patna on the occasion of Bihar Diwas, 2023. The Honourable Minister of Education, Prof. Shri Chandra Shekhar assessed many innovative projects made by the Members of Innovation Hub. Apart from the Science Expo and Science Demonstration Lecture, SSC Patna had also taken the 3 Mobile Science Exhibition buses to the program to make it accessible to each student for their betterment. Exhibits of the buses were also placed for Demonstration to the students and General visitors. The Day was concluded by the presence of Honourable Chief Minister, Shri Nitish Kumar Ji. He gave his precious time to see the projects made by the students. The whole program was scheduled from 22nd – 24th March, 2023. The Event was well covered by the Print and Electronic Media of the state. The number of visitors who visited the Science Exhibition by the centre is: 3.15 Lakhs visitors.

### **Lunar occultation of Venus - 2023:**

Shrikrishna Science Centre, Patna organized a Mega Sky Observation Programme on 24th March, 2023 to observe a rare cosmic phenomenon popularly known to be as Lunar Occultation of Venus.  
Innovation Hub Activity

### **Innovation Hub Activity:**

#### **Activities and projects done & developed by the members of Innovation hub SSC, Patna during the year 2022- 2023:**

Various Projects were developed by the students like Floating Farming /Speaking hearing Aid-Project Sanjaya/Data Craft/ Fire Detection & Protection System for Train /ROBOSOCER BOT/ Developing advance Home Security System/ Next Gen Camera (Software)/ Exhaust Air Power Generator- Generating Electricity from Exhaust Air/Automatic adjustable solar panel/Electronic Sensor Based Safety Helmet/ Women safety device/ Smart Safety Protector/Automatic protection welding helmet/ Monitoring and Regulating the Soil Humidity/ Fuel from aquatic resources Algae/ One point Access of Electricity in a building / Growing paddy seedlings by using coco peat, Onion peels and groundnut shell powder etc.

Performed various Activities like Science Exhibition at Darbhanga , Summer Camp on Microscopic World ,Participation in WRC (World Robotics Championship), Participation of Innovation Hub students in WRC 2022 and secure Runner-up position, Preparation for WRO (World Robot Olympiad), participated in NCSC 2022 and Got Selected for State Level,For the projects "Impact of Junk food on children's health" and "Biological Control of Dengue virus: a modern approach", participated in State level NCSE and got selected for National, Participated in INEX INTERNATIONAL and got Silver Medal, Qualified "30th National Level NCSC" and got A+ Point, awarded Laptop for Qualifying State level NCSC, Three students received PRATIBHA PURUSHKSR from NIRMAN, Project Proposal is submitted to Vishlesan I-Hub Foundation IIT Patna, Received Ignite Award for their innovative Project for Women Safety Device etc.

### **Innovative Models Presentation in Bihar Diwas 2023:**

Activities of Innovation Hub and Innovative projects were demonstrated on "Science Fair" in Gandhi Maidan, Patna on the occasion of Bihar Diwas 2023.

### **Workshops of Innovation Hub:**

Study of Plant Physiology (Basic to Innovative) – Workshop on April 10, 2022

Microscopic World- Disease & Prevention on April 17, 2022

Workshop on Microscopic World on May 15, 2022

Ecology and Sustainable Life (Workshop) on May 22, 2022

Bio-Physics Workshop on June 19, 2022

Lecture & Workshop on Robotics Awareness on July 10, 2022  
Young Scientist Meet on July 17, 2022  
Science Exhibition awareness workshop on July 24, 2022  
Workshop on Life Science- Survival of plant in different condition on November 13, 2022  
Workshop on Electricals- Distribution and management of AC and DC current on 20-11-2022  
Workshop on Electronics on 04-12-2022  
Workshop on Electricals wiring and installation on 11-12-2022  
Workshop on Artificial propagation of plant to enrich the green environment on 18-12-2022  
Workshop on Basic Electricals for Junior Students on 08-01-2023  
Workshop on Plant Root Regeneration on 12-02-2023

## **Collaborative Programmes:**

### **District Level Children's Science Congress - 2022:**

District Level Children Science Congress was organized for Patna District in Shrikrishna Science Centre, Patna on October 15, 2022. The programme was jointly organized by Science for Society, Bihar and NCSTC, DST, Govt. of India. A total of 296 students from 36 Schools presented their ideas on the topic: "Understanding Ecosystem for Health and Well- Being" and the number of Projects were 91. 10 students had been selected for the State Level Competition which will be held from 4-6 November, 2022 in Begusarai District.

### **Science Expo at Bihar Diwas - 2023:**

Shrikrishna Science Centre, Patna in collaboration with Bihar Education Project Council (BEPC), Patna and SCERT, Bihar had organized a Science Expo at Gandhi Maidan, Patna on the occasion of Bihar Diwas, 2023. The Honourable Minister of Education, Prof. Shri Chandra Shekhar assessed many innovative projects made by the Members of Innovation Hub. Apart from the Science Expo and Science Demonstration Lecture, SSC Patna had also taken the 3 Mobile Science Exhibition buses to the program to make it accessible to each student for their betterment. Exhibits of the buses were also placed for Demonstration to the students and General visitors. The Day was concluded by the presence of Honourable Chief Minister, Shri Nitish Kumar. He gave his precious time to see the projects made by the students. The whole program was scheduled from 22nd – 24th March, 2023. The Event was well covered by the Print and Electronic Media of the state. The number of visitors who visited the Science Exhibition by the centre is 3.15 Lakhs.

## **Participation in Government Programmes & Initiatives:**

### **Celebration of Swachhta Pakhwada:**

SSC, Patna has organized and celebrated the "Swachhta Pakhwada- 2021" from 16-30th April, 2022. On the occasion, two programs were organized as:  
i) Pledge taking ceremony by the officials.  
ii) Special cleaning drive of the office premises.

### **Swachhata Pakhwada, 2022:**

Shrikrishna Science Centre, Patna organized and celebrated the "Swachhta Pakhwada- 2022". A Special cleaning drive was organized at the 2nd floor of the New Building-Digital Planetarium on June 15, 2022 as per the schedule of Swachhta Action Plan 2022-23.

### **Special Cleaning Drive Under Swachhta Action Plan - 2022:**

A Special Cleaning Drive had been organized by Shrikrishna Science Centre, Patna under Swachhta Action Plan, 2022-2023. Under this plan, the cleaning drive had been completed in the Ocean gallery, the Public Demonstration Lecture Hall and the Auditorium of the centre on 03rd and 17th August, 2022.

### **National Hindi Seminar - 2022:**

In collaboration with Akhil Bhartiya Hindi Mahadabha, Shrikrishna Science Centre, Patna organized the National Hindi Seminar on the auspicious occasion of Mother's Day, May 08, 2022.

Shri Amit Rajak, President of Akhil Bhartiya Hindi Mahadabha was the Guest of Honor. Apart from this, Prof. Prakash Kumar, Head of the Dept. Hind, RPPM College, Samastipur and Dr. Archana Tripathi, Dept. of Hindi, Arvind Mahila College, Patna were also present during the programme. Staffs of SSC Patna also shared their thoughts with the guests and present visitors. A total of 45 Students, Staff and Teachers were present during the seminar.

#### **Hindi Workshop - 2022:**

Hindi workshop on 'Karyalaya ke karyo mein Rajbhasha Hindi ka Prayog' was held on June 16, 2022 organized by NCSM in which officials of SSC Patna have participated.

#### **Hindi Workshop - 2022:**

Hindi workshop on 'Sanghralaya ke phalak par bhasha aur takneek' was held on September 19, 2022 organized by NCSM in which officials of SSC Patna have participated.

#### **Hindi Pakhwada Celebration - 2022:**

Shrikrishna Science Centre, Patna celebrated the Hindi Saptah- 2022 by organizing various programs and competitions for its staff members from 20-23 September, 2022. Competitions like, Essay Writing, Speech Contest and Translation competitions were organized to encourage the members to use Hindi in day to day life.

#### **Hindi Workshop - 2022:**

Hindi workshop on 'Hindi Kanthadtha 2.0' was held on December 20, 2022 organized by NCSM in which officials of SSC Patna have participated.

#### **Hindi Workshop - 2022:**

Hindi Workshop on 'How to type in Mangal Font (Inscript) on computer' was held on March 27, 2023 in which officials of SSC Patna have participated.

#### **Visit of Hon. Consulate of Bosnia & Herzegovina:**

Honorary Consulate of Bosnia and Herzegovina, Mr Suhad Mantri along with his family members, visited Shrikrishna Science Centre, Patna on 6th March, 2023. He went through all the exhibits of the galleries along with the facilities and shows, and was very much impressed with the demonstration of Science on a Sphere (SoS) Show.

#### **List of Popular Lectures (offline):**

	<b>Date</b>	<b>Topic</b>	<b>Lecturer</b>
1	05.06.2022	Environment	Dr. Ravi Gupta, State Project Expert (Environmnet), Govt. of Bihar
2	19.06.2022	Our Solar System	Shri Sandeep Poddar, Educationalist
3	11.07.2022	Population: Recent trends in Global Population	Prof. (Dr.) Ras Bihari Singh Ex Vice Chancellor, Patna University
4	20.07.2022	Recent Advancement in Space	Dr. Rishi Raj Associate Professor Dept. of Mechanical Engineering, IIT, Patna
5	20.07.2022	Talk on James Webb Space Telescope	Md. Aftab Hussain Education Assistant 'A', SSC, Patna
6	12.08.2022	Development of Science & Technology in Independent India	Prof. (Dr.) S.K Verma, Vice-Chancellor Bihar Engineering University

	Date	Topic	Lecturer
7	22.11.2022	Role of Science Museum in Society	Shri Amitabh Project Coordinator,SSC, Patna
8	12.01.2023	Challenges & Prospects of youth in contemporary world	Prof. Sudhir Kumar Anugrah Narayan Sinha Institute, Patna
9	28.02.2023	Human Life & Environment	Prof. (Dr.) Ashok Kumar Ghosh Chairman, State Pollution Control Board, Bihar
10	22.03.2023	Water Crisis and Conservation	Dr. Gopal Sharma, Scientist 'E' and Joint Director, Zoological Survey of India

### **Camps, Training and Workshops:**

#### **Creative Science Workshop - 2022:**

Shrikrishna Science Centre, Patna had organized “Creative Science Workshops” on various topics related to Science & Technology for the students of class V to X from May 28- June 16, 2022. These programs have been organized to nurture the young minds and to inculcate the scientific temper amongst the students. The details of all the camps are given below:

Name	Date	Total Number of participants in Creative Science Workshop
AI with Robot	May 28- 30, 2022	32
Microscopic World	June 07- 09, 2022	
Joy of Toy	June 14- 16, 2022	

#### **Summer Vacation Camp - 2022:**

SSC Patna had organized a month long “Summer Vacation Camp 2022” from May 17- June 16, 2022, for School Students from class 5 to 12 to nurture their Scientific Skills and to create scientific awareness amongst the students on different topics as:

Name	Date	Number of Participants	Number of Projects
Robotics	May 17-19,2022	11	11
Scientific Toy Making	May 17-19, 2022	19	38
Electronics	May 24-26, 2022	22	22
Electricity & Magnetism	May 24-26, 2022	23	46
Fun with Chemistry	May 31- June 02, 2022	22	22
Basics of Biology	May 31- June 02, 2022	20	20
Aero-modeling	June 07- 09, 2022	11	33

## **30th National children Science Congress District level teacher's orientation cum training workshop - 2022:**

Shrikrishna Science Centre, Patna in collaboration with Science for Society, Patna organizes the One Day District level Teacher's orientation cum training workshop on July 30, 2022 on the topic: Understanding Ecosystem for Health and Well- Being, in which 125 teachers of various schools of Patna District present their ideas on the mentioned topic. The President of Science for Society, Dr. Shri Vinay Kumar presided over the programme and gave his valuable inputs to the teachers to make the projects more sustainable and useful for the society. Total no. of participants were 145.

### **Teachers' Training Programme - 2022:**

Shrikrishna Science Centre, Patna had organized a three days Teachers' Training Programme for the Trainee Teachers of Department of Education, Patna Women's College, Patna from August 03-05, 2022. In this program, Teachers were encouraged to make low cost science kits for their teaching purpose. Various Laws and principles of Physics, Chemistry, Biology and Mathematics were discussed with them.

The last day of the program had been started with an interactive Session on "Misconception in Science". In the second Half, A Live Science Demonstration Lecture and Special Science on a Sphere was organized for the Science as well as for Humanities Students of the College. A total of 42 candidates from Science stream have participated in all three days and 51 candidates from Humanities and social science students participated on the last day of the program.

### **Inspirational Science Workshop - 2022:**

A three-day Teacher's Training Programme was organized from 01-03 December, 2022 in collaboration with Royal Society of Chemistry, UK and Madhubun Educational Books, Patna for the Science and Arts teachers of Patna district. The workshop was organized with an aim to encourage the teachers to engage themselves in a process of activity & experimental based learning. A total of 42 Schools of Patna district have taken the participation and the total number of teachers were 148.

## **Observance of Important Days:**

### **International Museum Day 2022:**

On the occasion of International Museum Day 2022, SSC Patna had organized a weeklong programmes from May 16- 20, 2022. Various activities like Open Air Science Demonstration, Hobby Camp on Robotics, Hobby Camp on Scientific Toy Making, Launch of new kit on Mathematical Games and Demonstration etc were organized. Total no. of General Public, Students and Teachers and Participants is 255

### **Tarang Medha Utsav - 2022:**

On September 22, 2022, a team of 155 Students from all Nine Divisions of Bihar have visited Shrikrishna Science Centre, Patna under the program "Tarang Medha Utsav- 2022".

This visit was jointly organized by SSC Patna and Bihar Education Project Council (BEPC), Bihar. Workshop on Foldscope (Paper Microscope), Special Science on a Sphere (SOS) show, Exposure visit to the Innovation Hub and a guided tour of all the galleries were organized for them.

### **International Day of Scientific Culture - 2022:**

Shrikrishna Science Centre, Patna celebrated International Day of Scientific Culture- 2022 on September 28, 2022 by organizing various Scientific activity and competitions such as Poster Competition, Hands-on Workshop and Special Science on a Sphere Show for the participants, teachers and parents. The topic of the Poster Competition was: "Nature & its Conservation" in which 140 participants participated in Both Junior & Senior Group. The topic of the Hands-on Workshop was: "Science in Daily Life" in which 18 numbers of participants participated. At the end a Special Show of Science on a Sphere was organized on the topic: "Monsoon" for the participants and teachers.

### **Birth Anniversary Celebration of Netaji Subhash Chandra Bose :**

A Mega, Sit & Draw Competition and a Special Film show was organized on the Life and Works of Shri Subhash Chandra Bose on the occasion of his Birth Anniversary celebration on January 23, 2023. The whole programme was a joint collaboration of Shrikrishna Science Centre, Patna and Navin Sinha Memorial trust, Patna. A total of 186 participants took participation in this event. An Event of Pariksha Pe Charcha was the highlight of the occasion as the themes of the painting competition was based on it.



## District Science Centre, Purulia

### New Facilities:

#### **Inauguration of New 3D Film:**

On 6th July, 2022 a brand new 3D film was inaugurated at DSC, Purulia by Shri Susanta Kumar Aich, General Manager, Santaldehi Thermal Power Plant.

#### **Inauguration of Food Processing Training for the Tribal Women:**

To enhance the skill of the tribal women, District Science Centre Purulia organised a Food Processing training on 6th July, 2022. The Programme was inaugurated by Prof. (Dr.) Dipak Kumar Kar, Vice-chancellor, Sidho-Kanho-Birsha University, Purulia in presence of Dr. Subrata Raha, HOD, Department of Botany, Sidho-Kanho-Birsha University, Purulia along with Maitreyo Foundation, Howrah.

### Innovation Hub Activity:

#### **Workshop on Development of IoT systems using Arduino:**

A 3-day long workshop was organized by DSC, Purulia for Jawahar Navodaya Vidyalaya of Purulia from 22nd March to 24th March, 2023. About 35 students took part in this three-day workshop. They made different working models like motion sensor switch, IoT enable weather station etc. They were actively taking part in this model making using Arduino base.

### List of Popular Lectures:

	Date	Topic	Lecturer
1	07.04.22	"Our Planet, Our Health".	Dr. Nayan Mukherjee, Additional Medical Officer Deban Mahato Government Medical College & Hospital, Purulia
2	22.04.22	"Invest in Our Planet"	Shri Samya Basu, Ex-Education Officer, WWF (In online Mood)
3	29.04.22	"Swatchhata - A Nobel Work"	Shri Dhruvajyoti Chattopadhyay DSO, DSC, Purulia
4	07.05.22	"Astronomy for People"	Dr. Santanu Chattopadhyay Principal, J.K.College, Purulia
5	18.05.22	"Museum for People"	Shri S. K. Bagchi Ex. Director, BITM, Kolkata
6	22.05.22	"Mendelian Genetics: Past and Present".	Dr. Jagat Kumar Roy Professor, Department of Zoology, Banaras Hindu University
7	05.06.22	"Only One Earth".	Dr. Subrata Raha HOD, Department of Botany, S.K.B.U, Purulia
8	14.06.2022	"Donating Blood is an act of Solidarity"	Dr. Nayan Mukherjee Additional Medical Officer, Deban Mahato Govt. Medical College & Hospital, Purulia
9	25.06.2022	"Unsung Bengali Scientist"	Shri Dhruvajyoti Chattopadhyay DSO, DSC, Purulia

	Date	Topic	Lecturer
10	26.06.2022	“Life and Works of Rishi Bankim Chandra Chattopadhyay”	Dr. Dilip Bandyopadhyay Department of Bengali, J.K. College, Purulia
11	21.06.2022	“Yoga for Humanity”	Shri, Milan Dutta. Eminent Yoga Teacher, Purulia
12	20.07.2022	“Gregor Johan Mendel: A Scientist Who lives After Death”	Dr. Biplob Kumar Modak HOD, Department of Zoology, S.K.B.U, Purulia
13	09.08.2022	“Radioactivity”	Dr. Debdas Mandal Associate Professor, Sidho-Kanho-Birsha University, Purulia
14	20.08.2022	“The Magic of Alexander Graham Bell”	Dr. Manas Pratim Das Programme Executive, All India Radio, Kolkata (In online mood)
15	27.09.2022	“Animal Model for Research”	Prof. Jagat Kumar Roy Department of Zoology, Banaras Hindu University
16	28.09.2022	“Mathematics as a way of Life”.	Dr. Chinmoy Kumar Ghosh Director, NCIDE, IGNOU
17	16.10.2022	“Identification of Common adulterants in food stuffs”	Shri Suman Karmakar Education Officer, DSC, Purulia.
18	25.10.2022	“Solar and Lunar Eclipse”	Dr. Gorachand Chakraborty Assistant professor, Department of Mathematics, SKBU, Purulia.
19	08.11.2022	“Basic of Eclipse”	Dr. Susanta Kumar Mondal Assistant professor, Department of Physics (Astronomy & Astrophysics), SKBU, Purulia.
20	10.11.2022	“Science for Sustainable Development”	Dr. Debasis Dhak Assistant professor, Department of Chemistry, SKBU, Purulia.
21	16.01.2023	“Nurturing creative Mentality”.	Dr. Arun Bandyopadhyay Director, CSIR- Indian Institute of Chemical Biology, Kolkata
22	28.01.2023	Life and work of Edward Jenner- father of Immunology.	Dr. Nayan Mukherjee Senior Medical Officer, Purulia Govt. Medical College, and Hospital
23	04.02.2023	“Close the Care Gap”.	Mrs. Sonali Bandopadhyay secretary, Purulia Nutan Pran Cancer Organization

	Date	Topic	Lecturer
24	11.02.2023	“Life and Work of Dr. Kadambini Ganguly”	Shri Dhruvajyoti Chattopadhyay DSO, DSC, Purulia

### **Camps, Training and Workshops:**

#### **Vacation Science Camp:**

A Vacation Science Camp was conducted by DSC, Purulia from 20th May to 31st May, 2022. The main aim of this camp was to grow interest and to inculcate scientific enquiries among the students and to make them interested in project making in the fields of science by involving them in the world of practical abilities and skills, starting from the scrap.

Sl. No.	Camp	No. of Students	No. of Projects
1.	Play With Science (Batch – 1)	25	11
2.	Life Science	25	05
3.	Physical Science	25	12
4.	Geography & Basics Astronomy	25	09
5.	Basics Electrical and Electronics	25	10

#### **Vacation Science Camp:**

A second phase Summer Vacation Science Camp was conducted at DSC, Purulia from 1st June to 5th June, 2022. The main aim of this camp was to grow interest and to inculcate scientific enquiries among the students and to make them interested in project making in the fields of science by involving them in the world of practical abilities and skills, starting from the scrap.

Sl. No.	Camp	No. of Students	No. of Projects
1.	Play With Science (Batch – 2)	25	11
2.	Robotics	24	05

#### **Inauguration of Food Processing Training for the Tribal Women:**

To enhance the skill of the tribal women, District Science Centre Purulia organised a Food Processing training on 6th July, 2022. The Programme was inaugurated by Prof. (Dr.) Dipak Kumar Kar, Vice-chancellor, Sidho-Kanho-Birsha University, Purulia in presence of Dr. Subrata Raha, HOD, Department of Botany, Sidho-Kanho-Birsha University, Purulia along with Maitreyo Foundation, Howrah.

#### **Teachers’ Training Programme I:**

A 3-day long Teachers’ Training Programme on hands-on demonstrations on Physics & Chemistry using TLM was organized at DSC, Purulia from 27th February to 1st March, 2023. They fabricated different teaching aids. About 40 teachers from Sponsored Teacher's Training College attended this event. The objective of the training was to impart a new methodology of science teaching as well as low-cost science kit making programme.

#### **Teachers’ Training Programme II:**

A 3-day long Teachers’ Training Programme on hands-on demonstrations on Physics & Chemistry using TLM was organized at DSC, Purulia from 2nd March to 4th March, 2023. They fabricated different teaching aids. About 35 teachers from Manbhum Teacher's Training College attended this event. The objective of the training was to impart a new methodology of science teaching as well as low-cost science kit making programme.

## Observance of Important Days:

### **World Autism Awareness Day:**

World Autism Awareness Day was commemorated at DSC, Purulia on 2nd April, 2022. Around 50 divyang students took part in a Sit & Draw Competition.

### **World Health Day:**

District Science Centre, Purulia observed World Health Day on 7th April, 2022 to create awareness among people as well as students. Different activities like Online Popular Science Lecture by Dr. Nayan Mukherjee, Additional Medical Officer, Deban Mahato Government Medical College & Hospital on "Our Planet, Our Health", Online Quiz Competition were organized for the school students.

### **Observation of Earth Day:**

District Science Centre, Purulia organized Earth Day on 22nd April, 2022. Various activities like Online Popular Lecture by Shri Samya Basu, Ex-education officer, WWF on "Invest in Our Planet" followed by Sapling Plantation, Workshop on "Kabard sa Jugard" and Open House Quiz were organized for the school students.

### **World Astronomy Day:**

District Science Centre, Purulia observed World Astronomy Day on 7th May, 2022 to create awareness among the people as well as students. Various activities like Popular Science Lecture by Dr. Santanu Chattopadhyay, Principal, J.K.College, Purulia on "Astronomy for People" Open House Quiz Competition etc were organized for the students. A total of 120 students including students took part in the above programme.

### **International Museum Day:**

District Science Centre, Purulia celebrated International Museum Day from 16 to 20 May, 2022 to create awareness among people as well as students. Programme Details:

Sl. No.	Date	Name & Brief Description of the Programme	Venue	No. and Type of Participants (School Children/General Public/Underprivileged etc.)
1	16.05.2022	1. Essay Writing Competition 2. Science Show	DSC, Purulia	80 School Students 180 School Students
2	17.05.2022	1. Sit and Draw Competition 2. Slogan Writing Competition	DSC, Purulia	104 School Students 32 School Students
3	18.05.2022	1. Popular Science Lecture By S. K. Bagchi Ex. Director BITM, Kolkata. 2. Open House Quiz	DSC, Purulia	88 School Students, teachers and common people 88 School Students, teachers and common people
4	19.05.2022	1. Workshop on Preservation of Butterfly. 2. Exhibition on "Your Collection"	DSC, Purulia	25 School Students 322 School Students, teachers and common people
5	20.05.2022	1. Special visits for orphans and underprivileged 2. Bird Watching. 3. Open House Science Show.	DSC, Purulia	135 underprivileged students. 190 General Visitors 190 General Visitors

**International Biodiversity Day:**

District Science Centre, Purulia observed International Biodiversity Day on 22nd May, 2022 to create awareness among the people as well as students. Online Popular Science Lecture by Dr. Jagat Kumar Roy, Professor, Department of Zoology, Banaras Hindu University on "Mendelian Genetics: Past and Present", Online Quiz Competition etc were organized to commemorate this event. Many students took part in the abovementioned programme.

**World Environment Day:**

District Science Centre, Purulia observed World Environment Day on 5th June, 2022 to create awareness among people as well as students. Popular Science Lecture by Dr. Subrata Raha, HOD, Department of Botany, S.K.B.U, Purulia on "Only One Earth", Sapling Plantation, Quiz Competition etc. were organized to commemorate this event. A total of 120 students including teachers took part in the above mentioned programme.

**World Blood Donor Day:**

District Science Centre, Purulia observed World Blood Donor Day on 14th June, 2022 to create awareness among the people as well as the students. Seminar cum Popular Science Lecture by Dr. Nayan Mukherjee, Additional Medical Officer, Deban Mahato Govt. Medical College & Hospital, Purulia on "Donating Blood is an act of Solidarity", Meet The doctor Programme, A short Drama on Blood Donation, Quiz Competition etc. were organized to commemorate this event. A total of 95 students including teachers took part in the above programme.

**Observation of International Yoga Day:**

District Science Centre, Purulia celebrated 8th International Yoga Day on 21st June, 2022. Different programmes like Essay Writing competition on "Yoga for Humanity", performance of Yoga on "Yoga for Humanity", Yoga Practice session with eminent yoga expert Shri Milan Dutta, quiz Competition on "Health & Yoga" etc were organized to celebrate this day. A total of 145 students including teachers took part in the above programme.

**Celebration of 200th Birth Anniversary of Gregor Johan Mendel:**

District Science Centre, Purulia celebrated 200th Birth Anniversary of Father of Genetics, Gregor Johan Mendel on 20th July, 2022 to create awareness among people as well as students. Different activities like Popular Science Lecture by Dr. Biplob Kumar Modak, HOD, Department of Zoology, S.K.B.U, Purulia on "Gregor Johan Mendel: A Scientist Who lives After Death", Science Film Show, Open House Quiz Competition etc were organized to commemorate this event. A total of 120 students including teachers took part in the above programme.

**World Nature Conservation Day:**

District Science Centre, Purulia observed World Nature Conservation Day on 28th July, 2022. Different activities like online Essay Writing Competition on "Saving nature and its resources for the future", online Quiz Competition were organized to celebrate this event. Many students including teachers took part in the above programme.

**Observation of Nagasaki Day:**

District Science Centre, Purulia observed Nagasaki Day on 9th August, 2022 to create awareness among people as well as students. Different activities like Popular Science Lecture by Dr. Debdas Mandal, Associate Professor, Sidho-Kanho-Birsha University, Purulia on "Radioactivity", Essay Writing Competition on "Is Nuclear Energy: Safe, Economical, Reliable?", Science Film Show, Quiz Competition were organized for the school students. A total about 130 students including teachers took part in the above programme.

**Observation of 100th Death Anniversary of Alexander Graham Bell:**

District Science Centre, Purulia observed 100th death anniversary of Alexander Graham Bell on 20th August, 2022 to create awareness among the people as well as students. A series of activities like Online Popular Science Lecture by Dr. Manas Pratim Das, Programme Executive, All India Radio, Kolkata on "The Magic of Alexander Graham Bell", Online Quiz Competition etc. were organized for the school students. Many students including teachers took part in the above programme.

# Glimpses of Events

## Birla Industrial & Technological Museum, Kolkata



Eastern India Science Fair 2023



National Science Day 2023



Inauguration of Motive power Gallery 2022



Hands-on Training programme on Biotechnology



Inauguration of Tales of Tricolour



Exposure visit of underprivileged students



Summer Camp 2022



International Photographic Conference



Celebration Children's Day 2022

Inauguration of Exhibition on **Nobel Worthy** ~ what it takes to be



# Glimpses of Events

## Bardhaman Science Centre, Bardhaman



Mobile Science Exhibition



Exhibition on Nobel Worthy



District Science Fair 2022

## Digha Science Centre & National Science Camp, Digha



Events on National Energy Conservation Day



Students' Science Seminar 2022



District Level Science Fair 2022



Distribution of Educational Kits to Underprivileged Students



# Glimpses of Events

## District Science Centre, Purulia



Workshop during the celebration of IDSC



Science Fair at DSC, Purulia



Popular Lecture at DSC, Purulia

## Shrikrishna Science Centre, Patna



Inauguration of New Ocean Gallery



Celebration of Bihar Diwas



Launch of new SoS show

Sky observation programme

**Lunar  
Occultation of Venus**





# Glimpses of Events

## North Bengal Science Centre, Siliguri



Celebration of International Museum Day



Popular Lecture, National Science Day



Inauguration of Curriculum based STEM programme



Open House Quiz during the celebration of Moon Landing Day



Unveiling of logo of 25 Years of NBSC, Siliguri



Release of Folder of New Popular Science Gallery at NBSC, Siliguri

## Inauguration of Exhibition - 25 years of North Bengal Science Centre



### **Celebration of International Day of Scientific Culture:**

District Science Centre Purulia organized International Day of Scientific Culture from 27th September to 29th September, 2022. The Programme was inaugurated by Prof. Dipak Kumar Kar, Vice-Chancellor, Sidho-Kanho-Birsha University, Purulia. Various interactive activities like Workshop on "Animal Model for Research" for university and college students by Prof. Jagat Kumar Roy, Department of Zoology, Banaras Hindu University, Popular Science Lecture by Dr. Chinmoy Kumar Ghosh, Director, NCIDE, IGNOU on "Mathematics as a way of Life", Essay Writing Competition, Quiz Competition etc. were organized for the school students. Many students including teachers took part in the above programme.

### **Observation of World Food Day:**

World Food Day was observed on 16th October, 2022 at District Science Centre Purulia.

A series of activities like Workshop cum popular lecture on "Identification of Common adulterants in food stuff" by Shri Suman Karmakar, Education Officer, DSC, Purulia, Quiz Competition etc. were organized to celebrate the event. A total of 50 students, teachers and others attended this daylong event.

### **Celebration of International Science Centre & Science Museum Day:**

ISCSM Day was celebrated at DSC, Purulia on 10th November, 2022. A series of activities like Popular Science lecture on "Science for Sustainable Development" by Dr. Debasis Dhak Assistant professor, Department of Chemistry, SKBU, Purulia, Essay Writing Competition on "Basic Science for Sustainable Development", Workshop on "Mathematics in Nature", Science Film Show, Open House Quiz etc. were organized for the local school students. Near about 120 people including students and teachers participated.

### **Celebration of Children Day:**

DSC, Purulia celebrated Children Day on 14th November, 2022.

A series of activities like Exhibit Hunt Competition, Sense the Aroma Competition, Science Magic & Miracle Show, Quiz Competition etc. were organized to commemorate this event.

### **Observation of National Mathematics Day:**

National Mathematics Day was celebrated at District Science Centre, Purulia on 22nd December 2022. A series of activities like Discussion on Life and Work of Srinivasa Ramanujan, Workshop on "Workshop on shortcut tips on Mathematics", Science Film Show on Srinivasa Ramanujan, Open House Quiz etc were organized to commemorate this event.

### **Observation of World Cancer Day:**

District Science Centre, Purulia observed World Cancer Day on 4th February, 2023 by organizing different programme as follows 1. Popular science lecture by Mrs. Sonali Bandopadhyay, secretary, Purulia Nutan Pran Cancer Organization on "Close the Care Gap". 2. Short Science Drama 3. Felicitation to the cancer warriors, 4. Open House Quiz. Near about 166 students and teachers took part in this aforementioned programme.

### **Celebration of International Day of Women and Girls in Science & 100th Death Anniversary of First Indian Women Doctor Practitioner:**

District Science Centre, Purulia celebrated International Day of Women and Girls in Science on 11th February, 2023. To commemorate this event a memorial lecture was delivered by Shri Dhruvajyoti Chattopadhyay, DSO, DSC, Purulia on "Life and Work of Dr. Kadambini Ganguly" followed by Open House Quiz for the school students.

### **Celebration of National Science Day:**

District Science Centre, Purulia celebrated National Science Day on 28th February, 2023 by organizing different programme like Science Demonstration Lecture on "Properties of Light", Essay Writing Competition on "Life and Work of Sir C.V. Raman.", Seminar on "Life and Work of Sir C.V. Raman" by post-graduate students, Workshop on scientific kits making for teachers, Open House Quiz etc.

# Bardhaman Science Centre

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## Special Events:

### **Open Air Science Show at Central Correctional Home:**

Bardhaman Science Centre organized an Open Air Science Show at the Central Correctional Home, Bardhaman on Feb. 14, 2023. A huge audience took in the abovementioned programme. The programme was highly appreciated by the District Administration, Purba Bardhaman

### **Special MSE Programme:**

A special MSE Programme was conducted by Bardhaman Science Centre at Ramakrishna Mission Vidyapith, Deoghar on the occasion of their centenary celebration from September 22- September 25, 2022. A special science demonstration lecture was arranged there for the students and general people.

### **Open Air Science Show:**

An Open Air Science Show has been started for the General Visitors from January 1, 2023 at Science Park of Bardhaman Science Centre.

### **Celebrating Bengal (June 20-26, 2022):**

A week-long programme was organized by Bardhaman Science Centre to commemorate Celebrating Bengal.

Day 1: An essay writing competition on the topic "Scientists of Bengal" was held as part of the Celebrating Bengal on 20.06.2022.

Day 2: A lectures cum demonstration on "Yoga and Health" was held on 21.06.2022 as part of Celebrating Bengal as well as to celebrate the International Day of Yoga.

Day 3: A popular science lecture on the topic "Life and Works of Prof. Amal Kumar Raychaudhury" was delivered by Dr. Abhijit Chakraborty, Associate Professor, Department of Physics, The University of Burdwan.

Day 4: As part of the Celebrating Bengal, a painting competition on the topic "Heritage of Bengal" was organized for the junior and senior students group on 23.06.2022.

Day 5: An open house quiz on the topic "Heritage of Bengal" was conducted for the students and general public on 24.06.2022.

Day 6: An open house quiz on the topic "Birds of Bengal" was held on 25.06.2022 for the school students.

Day 7: On the concluding day of the week-long commemoration of Celebrating Bengal, an extempore talk on the topic "Your Vision on Future of Bengal" was held on 26.06.2022.

### **Observance of Partial Solar Eclipse:**

Bardhaman Science Centre observed Partial Solar Eclipse on October 31, 2022 by organizing an online popular lecture on the topic "Solar Eclipse". The lecture was delivered by Dr. Amitava Choudhury, Assistant Professor, Department of Physics, The University of Burdwan.

## Innovation Hub Activity:

Workshop on Lego kit :

Date - July 22, 2022; Participants - 37

Seminar On 'Play with Electronics':

Date - October 16, 2022 Participants - 26

Workshop On Electricity Generated by Conventional Energy :

Date- November 15, 2022; Participants - 35

Seminar On "Aerodynamics":

Date - December 17, 2022. Participants - 39

Workshop on Arduino with Interfacing Module :

Date- January 7, 2023; Participants -43.

## Participation in Government Programmes & Initiatives

### **Programme on Swachh Bharat Abhiyan:**

Bardhaman Science Centre and Field Outreach Bureau, Bardhaman, Ministry of Information and Broadcasting jointly organized a programme on Swachh Bharat abhiyan on May 31, 2022. Smt. Uttara Biswas, District Youth Officer, Nehru Yuva Kendra, Bardhaman was present as special guest. A Popular lecture on “Swachhata” was delivered by Dr. Sarbajit Josh, Dept. of History, The University of Burdwan.

### **Celebration of International Day of Yoga:**

Bardhaman Science Centre organised a popular lecture cum live demonstration on “Yoga and Health” to celebrate the International Day of Yoga on June 21, 2022. All total 65 participants from local area along with the staff members of this centre participated in this event.

### **Hindi Week Festival:**

Bardhaman Science Centre celebrated Hindi week Festival by organizing Hindi NibandhPratijogita and Hindi AshubhasanPratijogita for the staff members of this centre on Sep. 14 , 2022 and Sep. 16, 2022 respectively.

### **Observance of Vigilance Awareness Week:**

Bardhaman Science Centre observed Vigilance Awareness Week from October 31 – November 6, 2022. At the beginning of the observance, the integrity pledge was taken by the staff members. A quiz was conducted for the staff member on 02.12.2022. It was continued till November 6, 2022.

### List of Popular Lectures:

	<b>Date</b>	<b>Topic</b>	<b>Name of the Speaker</b>
1	22.4.2022	Expedition to the Southern Ocean and Antarctica Region.	Dr. Rajib Bandopadhyay Professor, Dept of Botany, Burdwan University
2	16.5.2022	What is 5G? How will It work in India?	Shri Amiya Kumar Kalidaha Senior Scientific Officer, Department of Science & Technology and Biotechnology, Govt. of West Bengal
3	17.5.2022	The Power of Museums	Dr. Rangan Kanti Jana Honorary Fellow Institute of Historical Studies, Dept. of Higher Education, Social Branch, Govt. of West Bengal
4	18.5.2022	The Power of Museum toward attaining sustainability	Online Popular Science Lecture by Shri Rajib Nath, Curator BITM
5	18.5.2022	Power of Innovation on Digitalization and Accessibility	Dr. Faruk Bin Poyen Asst. Professor, University Institute of Technology
6	19.5.2022	Creative Science Learning through Science Museums	Dr. Naba Kumar Mondal Professor, Dept. of Environmental Science, The University of Burdwan
7	20.5.2022	Screen Time: How Much is Too Much?	Dr. Naba Kumar Mondal Professor, Dept. of Environmental Science, The University of Burdwan
8	31.5.2022	Swachhata	Dr. Sarbajit Josh Asst. Professor, Dept. of History, The University of Burdwan

	Date	Topic	Name of the Speaker
9	05.6.2022	Living Sustainably in Harmony with Nature	Dr. Apurba Ratan Ghosh Professor, Dept. of Environmental Science, The University of Burdwan.
10	25.10.2022	Solar Eclipse	Dr. Amitava Choudhuri Assistant Professor, Dept. of Physics, The University of Burdwan
11	31.10.2022	Role of Sardar Vallabhbhai Patel in National Integration	Dr. Pradip Chattopadhyay Professor, Department of History, The University of Burdwan.
12	09.01.2023	My Journey towards Mt. Everest	Ms. Piyali Basak Eminent Mountainer
13	28.02.2023	Global Science for Global Wellbeing	Dr. Avijit Mitra Principal University Institute of Technology, Bardhaman
14	21.03.2023	Biodiversity and Management'	Dr. Baisakhi Saha Asst. Professor in Zoology Rabindra Mahavidyalaya, Hooghly.

## Camps, Training and Workshops

### **Workshop on Foldscope:**

A One day workshop on Foldscope was organized at Bardhaman Science Centre on February 15, 2023. Total 43 students from different school of Burdwan took part in the above programme.

### **Teachers' Training Programme:**

A Two days long Teachers' Training Programme was organized from February 27 -28, 2023 at Bardhaman Science Centre. Total 26 nos teachers were participated in the above programme.

### **School Ambassador Meet Programme:**

Bardhaman Science Centre organized School Ambassador Meet on July 18, 2022 to connect the educational institutions with this centre more actively. Teachers from 16 different schools participated in this programme. All the facilities of Bardhaman Science Centre were explored before the ambassadors. The programme concluded with an interactive session with the ambassadors. During the interactive session, a proposal was made by the ambassadors to live telecast the educational programme (free programme) on their school projector screens so that a huge number of students can be benefited by our programme.

## Observance of Important Days

### **Celebration of Earth Day:**

Bardhaman Science Centre celebrated Earth Day by organizing various events on April 22, 2022. A popular lecture on the topic "Expedition to the Southern Ocean and Antarctica region" was given by Dr. Rajib Bandopadhyay, Professor, Dept. of Botany, The University of Burdwan. Apart from this, an open house quiz on "Planet Earth" and "Identify Your Native Bird by Hearing Its Call" were organized on the same day.

### **Week-long Celebration of International Museum Day :**

Bardhaman Science Centre organized a week-long programme to celebrate International Museum Day from May 16 – May 20, 2022. Various interactive activities and programme like Popular Science Lectures, Flash Mob Programme, Open-Air Science Show, Science Demonstration Lectures, Essay

Writing Competition, Idea workshop on “Creative Science Learning through Science Museums”, one line slogan writing competition were organized as a part of this celebration.

#### **Celebration of World Environment Day:**

Bardhaman Science Centre celebrated World Environment Day on June 5, 2022 by organising various events for the students and general people. A popular lecture on the topic “Living Sustainably in Harmony with Nature” was delivered by Dr. Apurba Ratan Ghosh, Professor, Dept. of Environmental Science, The University of Burdwan. Open house quiz on “Environmental Science” and painting competition on “Only One Earth” were organized on the same day as parts of the celebration.

#### **Celebration of World Photography Day:**

World Photography Day was celebrated on August 19, 2022 at Bardhaman Science Centre by organizing different online and on-site activities. An Online Nature Photography Contest was held on that day and a huge number of photographs received from different parts of the country. The best 10 photographs were displayed on Bardhaman Science Centre Facebook page. A Science Demonstration Lecture on Photography was held on the same day for the school students.

#### **Celebration of International Day of Scientific Culture:**

Bardhaman Science Centre organized 4 workshops named Workshop on Traffic Noise and Cardiovascular Effect, Workshop on Purification of Drinking Water Workshop on Smokeless Stove Preparation and Workshop on Effective Utilization of Plastics for the school & college students as part of the celebration of International Day of Scientific Culture on September 28, 2022 and September 29, 2022.

#### **Observance of National Unity Day:**

Bardhaman Science Centre celebrated National Unity Day as well as the birth anniversary of Sardar Vallabhbhai Patel on October 31, 2022 by organizing various types of events. A popular lecture was delivered by Dr. Pradip Chattopadhyay, Professor, Department of History, The University of Burdwan on the topic “Role of Sardar Vallabhbhai Patel in National Integration. A competitive activity named “Identify the City from its Location on the India Map” was organized for the students.

#### **Celebration of International Science Centre & Science Museum Day :**

Bardhaman Science Centre celebrated International Science Centre & Science Museum Day on November 10, 2022 by organizing an open house quiz on “Science Museums in India” and a special science demonstration lecture on “Electromagnetic Induction” for the school students.

#### **Celebration of Children’s Day:**

Children’s Day was celebrated at Bardhaman Science Centre the on Sept. 14, 2022. A visual quiz was organized for the children. Memory Test competition and Musical Ball competition were held as part of the celebration. 186 students and general visitors participated in the above programmes

#### **National Mathematics Day:**

Bardhaman Science Centre observed National Mathematics Day as well as the birth anniversary of Srinivasa Ramanujan on December 22, 2022. A workshop on the “Value of Pie” and “The Ramanujan Magic Square” was organized for the school students as a part of the observance.

#### **Celebration of 29th Anniversary Day:**

29th Anniversary Day was celebrated on January 9, 2023 at Bardhaman Science Centre through a no. of different events and educational programmes. Total 212 students and general visitors participated in the above mentioned programmes.

#### **Celebration of National Science Day:**

Bardhaman Science Centre celebrated National Science Day by organizing various events on February 28, 2023. A Popular Science Lecture on “Global Science for Global Wellbeing” was delivered by Dr. Avijit Mitra, Principal University Institute of Technology, Bardhaman followed by Sit & Draw competition for Jr. & Sr. Groups and Annual Science Quiz (Final Round) as parts of the celebration.

**Celebration of World Forestry Day :**

Bardhaman Science Centre celebrated World Forestry Day by organizing various events / programmes on March 21, 2023. A Popular Science Lecture on 'Biodiversity and Management' was delivered by Dr. Baisakhi Saha, Asst. Professor in Zoology Rabindra Mahavidyalaya, Hooghly. An Open House Science Quiz was also organized as a part of the celebration.

## North Bengal Science Centre, Siliguri

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### **New Facilities:**

#### **Inauguration of New Gallery: :**

As part of year-long Silver Jubilee Celebrations (Aug. 2022 – Aug. 2023) of North Bengal Science Centre, Siliguri, a unit of National Council of Science Museums-NCSM, Ministry of Culture, Government of India, a new Popular Science Gallery was inaugurated on Sept. 28, 2022 by Prof. (Dr.) Mahendra Nath Roy, FRSC (London), Vice Chancellor, Alipurduar University in the august presence of Prof. (Dr.) Mithun Chakraborty, Principal, Siliguri Institute of Technology, Dr. Pranab Kr. Mishra, Principal, Surya Sen Mahavidyalaya, Siliguri, Shri Rajib Nath, Curator, BITM, Kolkata among other dignitaries & guests.

New Exhibitions:

#### **Photographic exhibition on Astronomy:**

As part of Celebration of IMD 2022, a photographic exhibition on Astronomy - "Our Celestial Neighbours" was inaugurated at NBSC, Siliguri on 16.05.2022. This exhibition was inaugurated by Dr. Kartick Ch Dey, HoD, Dept of Physics, APC Roy Govt College, Siliguri in presence of other dignitaries.

#### **Ethnic Artefact Exhibition:**

As part of week-long celebration of IMD 2022, an Ethnic Artefact Exhibition was inaugurated at NBSC, Siliguri on 17.05.2022 showcasing the cultural heritage of the different indigenous communities of this region.

#### **Exhibition 25 Years of North Bengal Science Centre :**

As part of Silver Jubilee Celebration of North Bengal Science Centre (NBSC), Siliguri, Exhibition-25 Years of North Bengal Science Centre was inaugurated by Shri Arvind Kumar Mishra, Director, Darjeeling Himalayan Railway, ( A UNESCO World Heritage Site) in the august presence of Prof. Subhas Ch. Roy, Dean, Faculty of Science, University of North Bengal, Dr. Mayukh Sarker, Officer-in-Charge, A.P.C. Roy Govt. College, Siliguri & Shri Rajib Nath, Curator, BITM, Kolkata among other dignitaries.

### **Special Events:**

#### **Programs for the Underprivileged:**

1. A special SDL on Fun Science was organized for the under-privileged students of Raphael Academic & Vocational Higher Secondary School on May 16, 2022 as part of the weeklong celebration of International Museum Day 2022.
2. On June 20, 2022, as part of Week-long Commemoration of Celebrating Bengal, Poster Exhibition - Achievements of Scientists of Bengal was opened at NBSC, Siliguri for students & general visitors. Underprivileged children from tea-belt areas visited the centre on that day and participated in the Science Awareness Programmes, specially organized for them. A lecture with a multimedia presentation on the topic – Bengal in Freedom Movement was arranged on that occasion.

#### **Programs for Divyangs (Specially Abled):**

Report on Science Exposure Programme with CWSN School's Students  
North Bengal Science Centre, Siliguri and the Office of S.I. of Schools, Phansidewa & Siliguri West Circle, Govt. of West Bengal jointly organised Science Exposure Programme involving CWSN (Children with Special Needs) School's Students on January 13, 2023. At first students were shown the different galleries of NBSC and later a Sit & Draw competition was arranged for them on the topic - Visit of Science Centre.

#### **PRAKRITI-PATH: Environment Awareness Programme:**

NBSC, Siliguri in association with Basundhara Foundation, Dagapur organised Prakriti-Path



an Environment Awareness Programme on 10.02.2023 (Friday) at Basundhara, Dagapur to aware the different aspects of ecology and environment. The programme started with an inaugural session, where Shri Sujit Raha, Co-ordinator, Basundhara Foundation delivered the inaugural lecture. Shri Biplab Ray, eminent environmentalist, delivered a Popular Lecture on the topic Ecology and Environment and guided the students in the Ecological Workshop.

### **Astronomy Education Programme**

#### **Navobikshan: Special Sky Observation Programme:**

North Bengal Science Centre, Siliguri organized special sky observation programme “Navobikshan” from December 29, 2022 to January 07, 2023 from 5:15 – 6:15 pm every day

#### **Observance of Partial Solar Eclipse:**

As part of this partial solar eclipse NBSC, Siliguri organised a host of activities on October 25, 2022 to create awareness and to explain the science behind the eclipse as follows: 1. Multimedia Presentation on Solar Eclipse, 2. Spot Quiz Competition 3. Live Streaming of Partial Solar Eclipse. The live updates were made available through live streaming on October 25, 2022 from 2.30 pm onwards to the end of the eclipsed period in the gallery of the NBSC.

#### **Observance of Lunar Eclipse:**

As part of the observance of Lunar Eclipse NBSC, Siliguri organised a host of activities on November 08, 2022 to create awareness and to explain the science behind the eclipse, as follows:

Live Streaming of Lunar Eclipse

Direct viewing of Lunar Eclipse through telescope from NBSC

The direct viewing of partial lunar eclipse through telescope was arranged when the Moon came out from the umbra region and attain the optimum altitude. The live updates were made available through live streaming in the science park area of NBSC.

### **Innovation Hub Activity:**

#### **Workshop - Waste to Wealth:**

Workshop on the topic Waste to Wealth was organised on April 25, 2022 for the girl-students at Innovation hub of NBSC. A good number of girl-students from different schools participated in the workshop very enthusiastically to make models using waste materials like plastic bottles, waste news paper etc.

#### **Workshop on Robotics & Artificial Intelligence (AI):**

In order to introduce the basic concept of Robotics & AI, a Workshop was organized in the Innovation Hub of North Bengal Science Centre, Siliguri on Sept. 25, 2022, where students were engaged in learning elementary robotics and making hands-on projects on robotics under the guidance of Dr. Dipanjan Bhattacharjee, Assistant Professor, Department of Electronics & Communication Engineering, Sikkim Manipal Institute of Technology. 20 students from different schools and colleges actively participated in the workshop.

#### **STEM Workshop on Learning through Experimentations:**

STEM workshop on “Learning through Experimentations” was organized in the Innovation Hub of NBSC from October 19 to 21, 2022 to create innovation mindset among the students in different advanced technology. Students were engaged to do hands-on experiments on Electromagnetism, Biology, Mathematics, Electronics and Robotics. Total 39 students of class IX to Class XI, actively participated in the workshop.

#### **Workshop on Artificial Intelligence (AI) :**

In order to introduce the basic concept of Artificial Intelligence, a Workshop was organized in the Innovation Hub of North Bengal Science Centre, Siliguri on November 06, 2022, where students were engaged in learning elementary theories of Artificial Intelligence and doing some practical activities on AI under the guidance of Dr. Tirthankar Ghosal, Scientist at Oak Ridge National Laboratory, United States and Head of Research at SciSpace, Palo Alto, California. 20 member-students from different schools and colleges actively participated in the workshop.

### **STEM Orientation Programme for Girl-Students:**

STEM Orientation Programme for Girl-students was organised by the Innovation Hub, North Bengal Science Centre, Siliguri on 30.01.2023. In the workshop, students were engaged in gaining knowledge on Mathematics, Physics, and Chemistry through theoretical and practical sessions. Total 28 girl-students actively participated in the workshop.

### **Curriculum Based STEM Programme:**

As part of year-long Silver Jubilee Celebrations (Aug. 2022 – Aug. 2023), Innovation Hub of North Bengal Science Centre, Siliguri, launched a new activity Curriculum Based STEM Programme.

Shri Raju Bista, Hon'ble Member of Parliament (Lok Sabha), Darjeeling Parliamentary Constituency attended the inaugural ceremony as Chief Guest and inaugurated the programme. After the inaugural ceremony, Shri Biswajit Kundu, Education Officer of North Bengal Science Centre delivered the demonstration-lecture, where different scientific phenomenon related to school-science syllabus were explained with the help of simple, funny and interesting experiments, so that everyone would be able to understand and bear the ideas in their minds for long period of time.

### **Workshop on Foldscope:**

Workshop on Foldscope, a paper-made simple microscope, was organised on 10.03.2023 at Innovation Hub of North Bengal Science Centre from 11:30 a.m. where students were made aware on assembling and usages of Foldscope. The workshop was arranged in association with K K Chatterjee Memorial Association, Kolkata. 41 Students from 6 different schools actively participated in the workshop. The event was highly appreciated by all the participating students and teachers.

### **Collaborative Programmes:**

1. NBSC, Siliguri in association with Basundhara Foundation, Dagapur organised Prakriti-Path, an Environment Awareness Programme on February, 2023 (Friday) at Basundhara, Dagapur
2. As part of celebration of National Mathematics Day on December 22, 2022, North Bengal Science Centre, Siliguri in association with Rajkishore Bose Mathematical Society, Siliguri various activities related to Mathematics were organized for the school students to popularize Mathematics and its various applications.
3. North Bengal Science Centre, Siliguri and the Office of S.I. of Schools, Phansidewa & Siliguri West Circle, Govt. of West Bengal jointly organised Science Exposure Programme involving CWSN ( Children with Special Needs) School's Students on January 13, 2023.

### **Online STEM Workshop for Girl- students on Fun with Mathematics:**

To develop technical knowledge and skills among Girl students towards present-day science & technology, Online STEM activities are being organised by Innovation of NBSC involving girl-students.

As part of the programme an Online STEM Workshop, exclusively for girls of class VI to Class- XII, on the topic Fun with Mathematics was organized by the Innovation Hub of NBSC on June 29, 2021. Total 35 students actively participated in the workshop.

### **Participation in Government Programmes & Initiatives:**

#### **Observance of Swachhta Pakhwada from April 16 to 30, 2022:**

As part of observance of Swachhta Pakhwada from April 16 to 30, 2022, a Special Cleanliness Drive was undertaken by North Bengal Science Centre, Siliguri. As part of the fortnight-long cleanliness drives, following actions were undertaken like:-

Cleaning of exhibits, models and store materials, Auditoriums and Innovation Hub, The flower pots etc. The staff members of NBSC took Swachhta-pledge and participated actively in the Special Cleanliness Drive organised during the Swachhta Pakhwada. As part of observance of Swachhta Pakhwada, a Workshop on the topic Waste to Wealth was organised on April 25, 2022 for the girl-students. A good number of girl-students from different schools participated in the workshop very

enthusiastically to make models using waste materials like plastic bottles, waste news paper etc. A Slogan Writing Competition on the topic – Clean India, Healthy India and Open House Quiz Competition on the topic -Health & Hygiene were also arranged for the students on April 25, 2022.

### **International Day of Yoga:**

In order to create awareness in the society about Yoga and its benefits; International Day of Yoga was celebrated at North Bengal Science Centre, Siliguri on June 21, 2022, involving school students and staff members of the centre. Swami Achyutatmanandaji Maharaj, Sri Ramkrishna Vivekananda Ashram, Sahudangi, Jalpaiguri inaugurated the programme and delivered the lecture on the topic Yoga for Peace and Harmony. A film show on yoga was also arranged for the visitors. A good number of participants attended the programme.

### **Rajbhasha related Activities**

#### **Celebration of Hindi Week & Hindi Day at NBSC, Siliguri:**

In order to instill the spirit of progressive use of Hindi in official works and in science popularization activities, Hindi Week was celebrated at North Bengal Science Centre from 14.09.2022 to 20.09.2022. During this week various competition and activities such as News Paper Reading Competition, Hindi Dictation Competition were organized for the staff members of the centre. As part of celebration of Hindi week, a workshop on 'Different Dimensions of Official Language Implementation' (राजभाषा कायान्वयन के विविध आयाम) was organized at North Bengal Science Centre, Siliguri on 19.09.2022. This workshop was conducted by Shri Vikram Kumar, Member Secretary, TOLIC, Siliguri. All the officers and employees of NBSC participated in this workshop. A popular lecture on the topic Dengue and its Prevention was delivered in Hindi language by Shri Bipin Kumar Gupta, Teacher, Bharti Hindi Vidyalaya to spread awareness among students. Quiz competition was organized for the students and prizes were given to the winners. A large number of students and teachers from local High School participated in the programme.

#### **Week-long Commemoration of Celebrating Bengal from June 20-26, 2022:**

Day 1: As part of Week-long Commemoration of Celebrating Bengal, Poster Exhibition - Achievements of Scientists of Bengal was opened at NBSC, Siliguri on 20.06.2022 for students & general visitors.

Day 2: In order to create awareness in the society about Yoga and its benefits; International Day of Yoga was celebrated at North Bengal Science Centre, Siliguri on 21.06.2022 involving school students and staff members of the centre.

Day 3: The day long programme started with guided visits in the Poster Exhibition - Achievements of Scientists of Bengal, where students of different schools were demonstrated about the glorious achievements of renowned scientists of Bengal. A Popular Science Lecture, which was delivered by Dr. Prabir Kumar Panda, OSD, Centre for Innovative Studies, University of North Bengal, on the topic Cultivation of Science in Bengal on 22.06.2022.

Day 4: To highlight the unique cultural heritage of Bengal, Workshop on Traditional Bengali Ritual Art – ALPANA was organized on 23.06.2022. Students from different schools participated and learned the process of designing Alpana from Shri Samrat Ghosh, eminent artist of Siliguri.

Day 5: As part of Week-long Commemoration of Celebrating Bengal, the event - Cultural Heritage of Bengal was organised on June 24, 2022 showcasing the unique cultural heritage of Bengal.

Day 6: Painting Competition on the topic Natural Environment of Bengal was organised on 25.06.2022, as part of Week-long Commemoration of Celebrating Bengal, involving school students.

Day 7: The day started with remembrance of Bankim Chandra Chattopadhyay the composer of Bande Mataram, the song created immense motivation and enthusiasm among the youth-minds during the Swadeshi Movements. A lecture with multimedia presentation on the topic – Tribute to Bankim Chandra Chattopadhyay was arranged for school students.

#### **Observance of Vigilance Awareness Week:**

Integrity Pledge taking Ceremony was organized on 31st October, 2022 as part of observance of Vigilance Awareness Week at North Bengal Science Centre, Siliguri from October 31 to November 06, 2022.

## **Celebration Rashtriya Ekta Diwas on the occasion of Birth Anniversary of Sardar Vallabhbhai Patel:**

To commemorate the Birth Anniversary of Sardar Vallabhbhai Patel, Rashtriya Ekta Diwas was celebrated at North Bengal Science Centre (NBSC), Siliguri on Oct. 31, 2022 by organizing a host of activities like Pledge taking Ceremony, Visual Quiz on the topic - Our India, etc involving school-students, teachers, general public & staff-members of NBSC. Film show on Sardar Vallabhbhai Patel was screened during the programme. The event was well received and drew much appreciation from the participants.

### **List of Popular Lectures:**

	<b>Date</b>	<b>Topic</b>	<b>Name of the Speaker</b>
1	22.4.2022	Our Friends on Earth	Dr. Ratula Mukherjee Assistant Professor, A. C. Training College, Jalpaiguri
2	18.5.2022	Inclusive Museums – A Space Celebrating Diversity, Mental Well-being and Equality with Access for All.	Shri Siddhant Shah, Founder of Access For ALL
3	05.6.2022	Emerging Viral Diseases in the Face of Global Climate Change: With Special Reference to Monkey Pox	Prof. Ranadhir Chakraborty Dept. of Biotechnology University of North Bengal
4	21.5.2022	Yoga for Peace and Harmony	Swami Achyutatmanandaji Maharaj, Sri Ramkrishna Vivekananda Ashram, Sahudangi, Jalpaiguri
5	22.5.2022	Cultivation of Science in Bengal	Dr. Prabir Kumar Panda, OSD, Centre for Innovative Studies, University of North Bengal
6	20.6.2022	Destination Moon	Shri Debasis Sarkar, Eminent Science Communicator and Secretary
7	02.8.2022	Life and Works of Acharya Prafulla Chandra Roy	Dr. Gopal Dey Eminent Science Communicator & Ex- Teacher, N P H.S. School, Nakshalbari
8	02.8.2022	Dengue and its Prevention	Shri Bipin Kumar Gupta, Teacher, Bharti Hindi Vidyalaya
9	28.9.2022	Plastic: Its Sources, Uses, Side Effects and Controlling Managements	Prof. (Dr.) Mahendra Nath Roy FRSC (London), Vice Chancellor, Alipurduar University
10	10.1.2023	Ecology and Environment	Shri Biplab Ray Eminent Environmentalist & Ex- Teacher, N P H.S. School, Nakshalbari
11	28.2.2023	Nanocrystalline Silicon Solar Cell	Dr. Romyani Goswami, Associate Professor, Dept of Physics, Surya Sen Mahavidyalaya, Siliguri

## **Camps, Training and Workshops:**

### **Workshops and Training Programmes for Students**

#### **Creative Science Workshop:**

As part of celebration of International Science Centre and Science Museum Day (ISCSMD) on November 10, 2022 Creative Science Workshop was arranged at the Innovation Hub of North Bengal Science Centre where students were engaged in doing hands-on experiments.

#### **Mathematics Workshop on Data Computation:**

As part of celebration of National Mathematics Day at North Bengal Science Centre, Siliguri on December 22, 2022 a workshop on Mathematics on the topic Data Computation was arranged for the students.

#### **A Hands-on Workshop on “Experiments with Water”:**

As part of observance of World Water Day a Hands-on Workshop on “Experiments with Water” was conducted on March 22, 2023 involving school students.

#### **Science Camps:**

North Bengal Science Centre organised 3nos Vacation Science Camps, Science Sparkle (for Class 3 to 7), Tinkering Science (for Class 7, 8,9) & SCI-Lab: Learning through Experimentation (for Class 9 to 12), from May 23, 2022 to June 3, 2022 for school students. During the camps, the students are being engaged for performing hands-on science experiments and making science projects. 48 students participated in the camps

#### **Teachers’ Training Programme - I**

A Teachers’ Training Workshop was organised at NBSC for the students of Pragati College of Education, Siliguri on 11.07.2022. During the workshop the trainee-teachers were engaged in experimenting different hands-on scientific activities, helpful for their classroom teaching for pedagogical development. Special Science Demonstration session was also arranged, where all the participating trainees were actively participated. 46 trainee-teachers participated in the workshop and very good responses were received from them.

#### **Teachers’ Training Programme - II**

A Teachers’ Training Programme was organised at NBSC involving trainee-teachers of Siliguri Primary Teachers’ Training College and Siliguri Terai B.Ed College on January 20, 2023. During the workshop the trainee-teachers were engaged in experimenting different hands-on scientific activities, helpful for their classroom teaching for pedagogical development. Special Science Demonstration session was also arranged, where all the trainee-teachers actively participated. 34 trainee-teachers participated in the workshop and very good responses were received from them.

## **Observance of Important Days:**

#### **Celebration of Earth Day - 2022:**

As part of celebration of Earth Day – 2022, North Bengal Science Centre, Siliguri organized a host of activities to create mass environmental awareness on April 22, 2022. The celebration started with Sapling Plantation programme followed by a Sit & Draw Competition and a Popular Science Lecture, which was delivered by Dr. Ratula Mukherjee, Assistant Professor, A. C. Training College, Jalpaiguri on the topic Our Friends on Earth.

#### **Week long Programme for celebration of International Museum Day 2022:**

Day 1: A photographic exhibition on Astronomy

As part of Celebration of IMD 2022, a photographic exhibition on Astronomy - "Our Celestial Neighbours" was inaugurated at NBSC, Siliguri on 16.05.2022.

Day 2: An Ethnic Artefact Exhibition

An Ethnic Artefact Exhibition was inaugurated at NBSC, Siliguri on 17.05.2022 showcasing the cultural heritage of the different indigenous communities of this region.

#### Day 3: Online Lecture

An online lecture on “Inclusive Museums-as pace celebrating diversity, mental well-being, quality with access for all” was organized on May 18, 2022. This virtual talk was delivered by Shri Siddhant Shah, Founder of Access for ALL.

#### Day 4: Indigenous Cultural Fest

As part of week-long celebrations for IMD 2022, an Indigenous Cultural Fest was organized on May 19, 2022 showcasing the intangible cultural heritage & diversity of the different communities of this region.

#### Day-5: Open House Quiz

As part of week-long celebrations for IMD 2022, an open house quiz on Our India - Our pride was organized for the visiting students on May 20, 2022.

#### **Celebration of International Day for Biological Diversity- 2022:**

In order to create awareness about issues related to Biodiversity and conservation of ecosystem, North Bengal science Centre Siliguri celebrated International Day for Biological Diversity on May 22, 2022. The celebration started with Sapling Plantation programme where students of different schools participated enthusiastically to plant saplings. Next programme was a Multimedia Presentation on the topic Biodiversity. An Open House Quiz and a Film Show were also organized on this occasion.

#### **Celebration of World Environment Day- 2022:**

North Bengal Science Centre, Siliguri celebrated World Environment Day on June 05, 2022 with the main theme for this year 'Only One Earth' by organizing different types of activities like Sapling Plantation, Popular Science Lecture, Quiz on Nature, Film Show on Environment etc for the students and general public.

#### **Celebration of Moon Landing Day:**

NBSC, Siliguri celebrated Moon Landing Day, which is also celebrated as International Moon Day, by organizing different activities like Popular Science Lecture, Visual Quiz Competition etc for the students on July 20, 2022. The lecture was delivered by Shri Debasis Sarkar, Eminent Science Communicator and Secretary of Sky Watchers' Association of North Bengal, Siliguri.

#### **Celebration of 25th Anniversary Day/ Silver Jubilee of NBSC:**

NBSC, Siliguri is celebrating its 25th anniversary in 2022 in a befitting manner by organizing a host of round-the-year activities starting August 17, 1997. As part of Silver Jubilee Celebration of NBSC, Siliguri, a new 3D Film Dramatic Underwater World & an Exhibition 25 Years of North Bengal Science Centre was inaugurated by Shri Arvind Kumar Mishra, Director, Darjeeling Himalayan Railway, (A UNESCO World Heritage Site. On this occasion present & past Officials of NBSC, Siliguri along with LAC Members were felicitated. A grand cultural event, presented by Padam-Dance-Academy, was also organized to commemorate this event.

#### **International Day of Scientific Culture:**

The International Day of Scientific Culture (IDSC) was observed on Sept. 28, 2022 at NBSC, Siliguri. To commemorate this day and as part of year-long Silver Jubilee Celebrations (Aug. 2022 – Aug. 2023) of NBSC, Siliguri, a new Popular Science Gallery was inaugurated on Sept. 28, 2022 by Prof. (Dr.) Mahendra Nath Roy, FRSC (London), Vice Chancellor, Alipurduar University in the presence of other dignitaries & guests. On this occasion, Silver Jubilee Lecture was also organized for the participating students.

#### **Celebration of International Science Centre and Science Museum Day - 2022:**

North Bengal Science Centre, Siliguri celebrated the International Science Centre and Science Museum Day (ISCSMD) on November 10, 2022 by conducting several programmes for school students. A Special Science Demonstration Lecture was arranged, where students were explained different scientific theories with some spectacular experiments. To foster the innovative scientific

ideas in young minds, Creative Science Workshop was arranged at the Innovation Hub of North Bengal Science Centre where students were engaged in doing hands-on experiments.

### **Celebration of Children's Day**

North Bengal Science Centre celebrated Children's Day by organizing different educational activities like Special Science Show, Audio-Visual Science Quiz competition on 14th November, 2022. Special Digital Planetarium Shows were also been organized for the participating students. A good number of school students from different schools and under-privileged children attended the programmes.

### **Celebration of National Mathematics Day on December 22, 2022:**

National Mathematics Day was observed at North Bengal Science Centre, Siliguri on December 22, 2022. On this occasion various activities related to Mathematics were organized for the school students to popularize Mathematics and its various applications, in association with Rajkishore Bose Mathematical Society, Siliguri Workshop on Mathematics on the topic Data Computation was arranged for the students. An Open House Quiz on Mathematics was also arranged for the students

### **Celebration of National Science Day:**

As part of commemoration of National Science Day, a host of activities like Multimedia Presentation on 'The Life & Works of Sir CV Raman, Special Science Show on 'Fun with Light', Visual Science Quiz, etc. were organized on February 28, 2023. A Popular Science Lecture was given by Dr. Romyani Goswami, Assoc. Prof., Dept of Physics, Surya Sen Mahavidyalaya, Siliguri on the topic 'Nanocrystalline Silicon Solar Cell' for the participating students.

### **Celebration of World Water Day:**

World Water Day was celebrated by on the theme by North Bengal Science Centre (NBSC), Siliguri on March 22, 2023. On this occasion, a Multimedia Presentation on "Water Conservation & Sanitation" was organized. A hands-on Workshop on "Experiments with Water" was also conducted as part of this celebration.

# Digha Science Centre & National Science Camp

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## **New Facilities:**

### **Inauguration of Exhibition:**

On 26th June 2022 a Panel Exhibition on the Topic "Contribution of Bengali Scientist" was inaugurated by Dr. S Balakrishnan, Scientist & Officer In-charge MARC, ZSI, Digha.

### **Inauguration of Life Science Gallery & "Prehistoric Corner":**

On December 2, 2022, a brand new "Life Science Gallery" & "Prehistoric Corner" was inaugurated by the Chief Guest Dr. S. Balakrishnana, Joint Director & Officer in Charge, Marine Aquarium, ZSI, Digha and Guest of Honour Dr. Sandip Bag, Superintendent of Digha State General Hospital, at DSC, Digha

## **Special Events:**

### **Celebration of 75 Years of India's Independence:**

To celebrate 75th years of Indian Independence, Digha Science Centre has organized different events in and outside of the campus. To commemorate the afore mentioned event, various activities like Tiranga Yatra, Distribution of National flag among the Staffs and Students, Cultural programme by staffs, students were organized from August 13 - 15, 2022 at Digha Science Center.

### **Observation of International Day of Scientific Culture:**

International Day of Scientific Culture was observed at Digha Science Center on September 29, 2022. To commemorate the event various activities like Nature Trail Programme, Plastic Awareness campaign, Special Science Demonstration Lecture etc have been organized for the School students.

### **Observation of Children's Day:**

Children's Day was celebrated at Digha Science Centre on November 14, 2022. On this occasion various activities like Open House Quiz Competition & special PDL on Balls-Balloons & Bubbles etc. were organized for the Participating students to commemorate this day.

### **Observation of National Mathematics Day:**

National Mathematics Day was observed on December 22, 2022 at Digha Science Centre & National Science Camp. On this occasion, a new PDL show on "Fun Math" has been launched by Sri Biswarup Das, Edu. Officer along with an interactive workshop on "Visual Math" given by Sri Debashis Dhar, Edu. Officer, DSC, Digha for the participating students & visitors

### **A Special Nature Trail programme:**

A day-long Nature Trail Programme was organized on May 8, 2022 by Digha Science Center for the college students to explore and understand the intricate relationship between nature and Humankind. Different types of Biological Specimens were collected from the seashore by the students and identified by the resource person.

### **Special Outreach "Science Lecture cum Demonstration":**

1. A "Science Demonstration Lectures" was organized by Digha Science Centre at Sulani, Kolaghat on January 21, 2023. The demonstration lecture was delivered by Shri Debasis Dhar, Edu. Officer, DSC, Digha. The Cumulative visitor's figures for that outreach programmes were around 1017 nos. including students, teachers and associated visitors.

2. Digha Science Centre has organized a Science Popular lecture on Astronomy and the Sky Observation programme through on January 27, 2023 at Tetulia Sarrang N. N. High School, Egra, East Midnapore. The Astronomy lecture was delivered by Biswarup Das, Edu. Officer, DSC, Digha on "Knowing the solar system very well begins within our galaxy" and his extensive discussion and along with that, Jupiter and Moon were shown through the telescope.



### **Week long Observation of Celebrating Bengal:**

A weeklong programme has been organized at Digha Science Center from 20th June to 26th June 2022 to commemorate "Celebrating Bengal 2022". Various activities like Sit & Draw competition, Essay Writing Competition, Open House Quiz, Popular Science Lecture, Inauguration of Panel Exhibition, Extempore Talk Competition etc were organized from 20th to 26th June, 2022 at Digha Science Center. On 26th June, 2022 a Panel Exhibition on the Topic "Contribution of Bengali Scientist" was inaugurated by Dr. S Balakrishnan, Scientist & Officer In-charge MARC, ZSI, Digha. The aforementioned exhibition portrayed on the Life & Work of Different world renowned Bengali Scientist.

### **Celebrating 25th Years Anniversary (Silver Jubilee):**

25th Anniversary Day (Silver Jubilee) of DSC, Digha was observed at Digha Science Centre on August 31, 2022. On this auspicious moment a new 3D film "Dramatic Underwater World" was jointly inaugurated by Dr. Amit Kumar De, Principal, Contai P. K. College & Dr. S. Balakrishnana, Joint Director & Officer in Charge, Marine Aquarium, ZSI, Digha and Shri Manas Mandal, Administrator & Chief Executive Officer, DSDA, New Digha.

### **Students Science Exhibition:**

Digha Science Centre has organized a daylong "Students Science Exhibition" on August 31, 2022. The exhibition was inaugurated by Shri Subhabrata Chaudhuri, Director, BITM, Kolkata. About 26 models & 50 students from 5 different schools participated in this exhibition.

### **Collaboration Programmes:**

#### **"Azadi Ka Amrit Mahotsav":**

Digha Science Centre organized the celebration of "Azadi Ka Amrit Mahotsav" in collaboration with Central Bureau of Communication, Ministry of Information Broadcasting from January 23 – 26, 2023 at DSC, Digha. In this occasion Sit and Draw competition, Essay Writing, Open House Quiz and Cultural programme were organized for different school students, teachers and general public.

#### **Interactive Workshop on Waste Management:**

An interactive Workshop on Waste Plastic Management, named "Wealth from Waste" was conducted on May 17, 2022 for the school students. A Special Awareness Campaign cum Interactive Workshop on Waste Management has been organized by Digha Science Centre in collaboration with a NGO "Bitan Institute for Training, Awareness & Networking" on October 27, 2022 at the Innovation Hub of Digha Science Centre. Various idea, methods and new approaches have been shared and different future plans have been discussed with the staff members and participants from nearby localities.

#### **Nature Trail Programme:**

A day long interactive programme has been organized by Digha Science Centre in collaboration with West Bengal Biodiversity Board on 12.11.2022. A Natural Trail programme followed by interaction with resource persons and extensive studies of various animals and plants have been carried out under the guidance of West Bengal Biodiversity Board, Digha Science Centre and Forest Department. Near about 45 students along with their escort teachers from Contai Public School took part and enjoyed the entire programme. The entire programme has been sponsored by West Bengal Biodiversity Board.

### **Participating in Government Programmes & Initiatives:**

#### **Swachhta Programme:**

On May 20, 2022 a Special Cleaning campaign by Digha Science Center with school students from different local schools at Oceania Beach, New Digha. All total 35 students along with teachers and other staff members of Digha Science Center took part in this programme. Plastic materials, packets, containers almost everything have been collected and disposed by the students during this Beach cleaning campaign.

### International Day of Yoga:

International Yoga Day was celebrated on 21st June, 2022 at DSC Digha. To commemorate the aforementioned event Yoga practice and Yoga Demonstration programme have been organized for the staff members.

### Hindi Pakhwada:

Digha Science Centre had organized “Hindi Pakhwada” from September 14 – 28, 2022 for the promotion of official language among the staff members. Various activities like popular lecture, extempore talk & Essay writing competition etc. have been organized to commemorate this event. Dr. Sanjay Kumar, Vice Chancellor & Writer, International Open University, Shilong, Meghalay delivered a lecture on “Official Language Act and Similarities of Hindi-Bengali Language” through Digital platform.

### List of Popular Lectures:

	Date	Topic	Name of the Speaker
1	22.04.2022	“Plastic: Pollution to solution”	Shri Debasis Dhar Education Officer, Digha Science Centre.
2	16.05.2022	"The History of Science Museum”	Dr. Manas Pratim Das Programme Executive, All India Radio, Kolkata.
3	05.06.2022	“Marine Bio Diversity of Digha”	Dr. Surajit Das Asst Professor and HOD Zoology from Kabi Nazrul College, Birbhum.
4	22.06.2022	“Scientific Heritage of Bengal”	Sri Niranjan Gupta PC, DSC, Digha.
5	23.06.2022	“World Renowned Bengali Scientist”	Shri Debasis Dhar Education Officer, Digha Science Centre.
6	28.07.2022	“Connecting with Nature for sustainable future”	Shri Biswarup Das Education Officer, Digha Science Centre.
7	28.09.2022	“Official Language Act and Similarities of Hindi-Bengali Language”	Dr. Sanjay Kumar Vice Chancellor & Writer, International Open University, Shilong, Meghalay
8	28.09.2022	“Plant Classification”	Sri Niranjan Gupta PC, DSC, Digha
9	10.11.2022	“Importance of Science Canters & Science Museums for students and visitors”	Shri Biswarup Das Education Officer, Digha Science Centre.
10	14.12.2022	“Fossil Fuel is Earth's Death Meal”	Shri Biswarup Das Education Officer, Digha Science Centre.
11	27.01.2023	“Knowing the solar system very well begins within our galaxy and his extensive discussion”	Shri Biswarup Das Education Officer, Digha Science Centre.
12	22.03.2023	“Accelerating the Change to Solve the Water and Sanitation Crisis”	Shri Biswarup Das Education Officer, Digha Science Centre.

## **Camps, Training & Workshop:**

### **Workshop on Waste Plastic Management:**

An interactive Workshop on Waste Plastic Management, named "Wealth from Waste" was conducted on May 17, 2022 for the school students. A Special Awareness Campaign cum Interactive Workshop on Waste Management has been organized by Digha Science Centre in collaboration with a NGO "Bitan Institute for Training, Awareness & Networking" on October 27, 2022 at the Innovation Hub of Digha Science Centre. Various idea, methods and new approaches have been shared and different future plans have been discussed with the staff members and participants from nearby localities.

### **Hindi Seminar cum Workshop:**

Digha Science Centre has organized one day "Hindi Seminar cum Workshop" on July 4, 2022 for the promotion of official language among the staff members. Popular lecture and Extempore talks have been organized for the staff members. The Popular Talks were given by Shri Prabir Kumar Ghosh, Chief Manager, Official Language, UCO Bank, Zonal Office, Kolkata.

### **Basic Electronics Boot Camp:**

A three day long residential summer hobby camp, "Basic Electronics Boot Camp" was organized at Digha Science Centre for the School students from 26 – 28 April, 2022. A brief Exposure on the fundamental principle of electronics and electronic component have been given to the students. Different types of simple electronics circuit have been fabricated by the students on Bread board. All total about 31 students participated along with 2 escort teachers. 6 projects (Verification of Ohms Law, Simple LED Circuit, Capacitor as Power Storage Unit, Bridge rectification etc.) were completed by students.

### **Educational Extension Activities:**

A two-day long Workshop on "Educational Extension Activities" has been organized by Digha Science Centre from November 22 -23, 2022. The inaugural speech was given by Shri Subhabrata Chowdhuri, Director, BITM, Kolkata. Education Officers and Education Assistants from different Science Centers of Eastern Zone took part in this aforesaid programme. The programme was conducted by Shri Dilip Ghosh, Senior Education Officer, BITM, Kolkata.

### **Science Activity Session:**

A "Science Activity Session" was conducted by Digha Science Centre on March 19, 2023 for School students. In that session different kits on Astronomy were fabricated by school students. All total 15 numbers of students from different school took part in this programme and enjoyed a lot.

## **List of Commemorative Days & Special Observation**

01. Observation of Earth Day - 22nd April, 2022
02. Observation of Astronomy Day – 7th May, 2022
03. Week long Observation of International Museum Day – 16th to 20th May, 2022
04. Observation of International Biodiversity Day – 22nd to 26th May, 2022
05. Observation of World Environment Day - 5th June, 2022
06. Week long Observation of Celebrating Bengal – 20th to 26th June, 2022
07. Observation of International Yoga Day - 21st June, 2022
08. Observation of World Nature Conservation Day – 28th July, 2022
09. Celebration of 25th Years Anniversary of Digha Science Centre - 31st of August, 2022
10. Celebration of Hindi Pakhwada – 14th to 28th September, 2022
11. Observation of International Science Centre and Science Museum Day - 10th November, 2022
12. Observation of Children's Day - 14th November, 2022
13. Celebration of "Azadi Ka Amrit Mahotsav" in collaboration with Central Bureau of Communication, Ministry of Information Broadcasting, Govt. of India- 23rd to 26th January, 2023
14. A Daylong Hindi Workshop – 17th February, 2023
15. Annual Inter-School Science Quiz Competition 2023 - 20th to 25th February, 2023
16. Observation of National Science Day - 28th February, 2023

## **SECTION IV**

Visitor Statistics

Science Demonstration Lecture

Mobile Science Exhibition

Shows & Demonstrations

Other Shows

Creative Ability Centre / Vacation Science Camps / Training

Science Seminar

Science Fair

Exhibit Development for BITM & its units during the year 2022-23

List of Exhibits Developed



## Visitors to Museum / Centre:

	BITM, Kolkata	SSC, Patna	DSC, Purulia	Bardham an Science Centre	NBSC, Siliguri	Digha Science Centre
School Group	972	1,077	91	146	401	487
Students	66,117	59,109	5,106	10,110	23,273	25,330
Visitors in Spl. Prog.	26,305	35,287	34,325	27,965	30,514	30,484
General Visitor	1,00,764	2,64,971	1,47,228	1,41,958	2,24,270	4,60,624
In-house Visitor	1,93,186	3,59,371	1,86,659	1,80,033	2,78,057	5,16,438
Outreach Visitor including Visitors in MSE	1,08,268	4,11,150	46,867	63,558	46,270	6,555
Total Visitors	3,01,454	7,70,521	2,33,526	2,43,591	3,24,327	5,22,993
Visitor Since inauguration	1,31,23,215	1,20,01,208	93,21,844	51,06,475	52,43,280	75,79,694



## Science Demonstration Lecture:

Museum / Centre	No. of Lectures held in Museum	No. of Students in Museum	No. of Lectures held outside	No. of Students outside
BITM Kolkata	23	1749	71	24,984
SSC, Patna	32	4736	12	3360
DSC, Purulia	35	4888	16	8256
Bardhaman Sc. Centre	58	9918	42	6762
NBSC, Siliguri	37	2176	16	4647
Digha Sc. Centre	51	3344	03	2715



## Mobile Science Exhibition:

Museum / Centre	Theme of the Exhibition	No. of sites	No. of Exhib. days	No. of Visitors in Exhib.	No. of Film Shows	No. of Visitors in Film Shows	Km. Travelled
BITM Kolkata	Heat & Temperature Mathematics Machines in Everyday Life	26	60	1,08,268	38	8794	1710
SSC, Patna	Popular Science Food & Health Machines in Everyday Life	15	33	4,10,700	6	1200	528
DSC, Purulia	Measurement	16	32	32,211	16	9777	461
Bardhaman Sc. Centre	Measurement Aarth Ganga	41	79	50,082	32	13476	1064
NBSC, Siliguri	Machines in Everyday Life	10	10	6,305	16	4090	147
Digha Sc. Centre	Water & Daily Life Chemistry	02	04	5,238	-	-	321



## Science Education Shows / Public Demonstrations:

	BITM Kolkata	SSC, Patna	DSC, Purulia	Bardham an Sc. Centre	NBSC, Siliguri	Digha Sc. Centre
<b>Digital Planetarium</b>						
No. of Shows	-	1403	-	-	1667	2536
Visitors	-	51932	-	-	47122	56277
<b>Taramandal</b>						
No. of Shows	140	-	546	419	62	-
Visitors	2330	-	6874	4015	1268	-
<b>Sky Observation</b>						
No. of Programmes	58	57	47	53	42	41
Visitors	3527	7480	1785	3074	2942	1054
<b>Science Quiz</b>						
Contests	67	27	49	52	26	43
Participants	2775	850	84	162	2,208	785
Visitors	3417	1130	1452	1404	460	1475
<b>Popular Lecture</b>						
No. of Lectures	27	12	24	14	11	12
Audience	4194	1680	3867	2520	1334	935
<b>Science Shows: Science Magic &amp; Miracle / Super Cool Bodies / Surprising Chemical Reactions/ Fun Science / Egg-cellent / Fire-Y-Tale / Balls, Balloons &amp; Bubbles</b>						
No. of Lectures	844	302	306	446	674	362
Audience	98,693	6,550	7,655	7598	27,637	12,051
<b>3D Shows</b>						
No. of Shows	1,810	1718	906	1422	1989	2772
Audience	87,567	58,250	12,345	24,592	53,169	68,170

## Others Shows:

	No. of Programmes	No. of Audience
<b>BITM Kolkata:</b>		
Underground Coal Mine	2,372	75,119
ChromaKey Show in TV Studio	248	11,613
Show in Spark Theatre	197	12,324
Fun Mathematics Demonstration	-	-
<b>SSC, Patna:</b>		
Science on a Sphere	390	13,120
<b>DSC, Purulia:</b>		
Show in Prehistoric Life Park	231	It is free programme to all visitors***



## Creative Ability Centre / Vacation Science Camps / Training:

	BITM, Kolkata	SSC Patna	DSC Purulia	Bardhaman Sc. Centre	NBSC Siliguri	Digha Sc. Centre
<b>Creative Ability Centre</b>						
Projects Completed	157	-	65	12	12	09
No. of Students	528	-	209	35	18	46
<b>Vacation Science Camps</b>						
No. of Camps	16	07	07	08	03	01
Projects Completed	132	42	65	13	240	06
No. of Students	442	157	209	112	48	31
<b>Teachers' Training Programme</b>						
No. of Programmes	01	03	02	01	02	-
No. of Teachers	10	335	75	26	80	
No. of Teaching Aids Developed	05	84	12	39	240	-
<b>Computer Training Programme</b>						
No. of Programmes	-	-	-	04	-	-
No. of Trainees	-	-	-	63	-	-





## Science Seminar:

Boosting Immunity - The Need of the Hour: Prospects & Challenges

Museum / Centre	Date	Level	No. of Schools	No. of Participants	Audience
BITM Kolkata	13.09.2022	District	17	17	110
	21.09.2022	State	10	10	170
SSC, Patna	30.09.2022	State	18	18	335
DSC, Purulia	09.09.2022	District	21	21	170
Bardhaman Sc. Centre	12.09.2022	District	10	10	178
NBSC, Siliguri	02.09.2022	District	17	17	110
Digha Sc. Centre	15.09.2022	District	19	19	79



## Science Fair

Museum / Centre	Date	Level	No. of Schools	No. of Projects	No. of Participants	Visitors
BITM Kolkata	10/01/23-13/01/23	Zonal	195	195	431	4679
SSC, Patna			-	-	-	-
DSC, Purulia	15/10/22-16/10/22	District	22	65	75	2985
Bardhaman Sc. Centre	09/12/22-10/12/22	District	40	80	160	2074
NBSC, Siliguri	20/12/22-21/12/22	District	20	45	64	2100
Digha Sc. Centre	23/12/22-24/12/22	District	13	-	38	2620



## Exhibit Development for BITM & its units during the year 2022-23

Particulars	BITM, Kolkata	SSC, Patna	NBSC, Siliguri	SC, Bardhaman	DSC, Purulia	DSC, Digha
Gallery Exhibits	-	05 nos.	08 nos.	-	-	28 nos.
Duplicate Exhibits	-	-	-	-	-	-
Park Exhibits	-	-	-	04 no.	-	04 no.
MSE Exhibits	-	-	-	-	-	-
Taramandal	-	-	-	-	-	-
Kits / Aids	-	11 no.	08 no.	-	-	09 no.
Duplicate Kits / Aids	-	-	-	-	-	90 no.
Temporary Exhibits	-	-	-	-	-	07 no.
<b>Total</b>	-	16 nos.	16 nos.	04 no.	-	138 nos.

### List of Exhibits Developed during 2022-23

	<b>BITM, Kolkata</b>	2	Value of Pi
	<b>Motive Power Gallery</b>	3	Elliptical Speaking Tube
1	Motive Power		<b>SSC, Patna</b>
2	Minimizing Muscle Power		<b>Fun Science Gallery exhibits</b>
3	Cottage Industry	1	Matching the Shapes
4	Wind Power	2	Reaction Time
5	Animal Power		<b>Children Gallery</b>
6	Making Steam Work	1	Jumping Ball
7	The Machine Age Begins	2	Fun with Balls
8	Harbinger of Industrial Revolution		<b>Space &amp; Astronomy Gallery</b>
9	Steam Engine	1	Zodiac
10	Walschaert Valve Gear		<b>NBSC, Siliguri</b>
11	Howe's Locomotive Valve		<b>Renovation of Science Park Exhibits</b>
12	Types of Engine Valve	1	Magic Water tap
13	Steam Generator	2	Seeing is a Pendulum

	<b>SRSC, Bodhgaya</b>	3	Sympathetic Swing
1	See Saw,	4	Energy Drum
2	Swing		<b>Gallery Exhibit: Popular Science</b>
	<b>Gallery Exhibit : RSC, Chalakuddy</b>	1	Frozen Shadow
1	Augmented Reality		<b>Kalimpong Science Centre</b>
2	Virtual Motion	1	Zeotrope
3	Visual Cryptography		<b>Our Celestial Neighbours Exhibition</b>
	<b>NBSC, Siliguri Popular Science Gallery</b>	1	6 No Panels
1	Square Wheel		<b>DSC, Bardhaman</b>
2	Star Wheel		<b>Science Park Exhibit</b>
3	Human Body - I	1	Simple Camera
4	Human Body - II	2	Archimedes Screw
5	Levitating Disc	3	Straight or Circle
6	Farm land	4	All Road Lead to Rome
7	Spark Wheel		<b>DSC, Digha</b>
8	Wave Motion		<b>Gallery Exhibit: Life Science</b>
9	Virtual Football	1	Aquarium - 1 (Oscar)
10	Identify the Object	2	Aquarium - 2 (Severam)
11	Dexterity Test	3	Aquarium - 3 (Albino Shark)
12	Talking Darwin	4	Aquarium - 4 (Mono Angel)
13	Clap Tree	5	Aquarium - 5 (Colour Tetra)
14	Head on a Platter	6	Aquarium - 6 (Gourami)
	<b>“25 years of NBSC, Siliguri”</b>	7	Molluscas - 1
1	Panel Exhibition - 14 nos.	8	Molluscas - 2
	<b>DSC, Digha Gallery Exhibit: Life Science</b>	9	Molluscas - 3
1	Plant Cell & Animal Cell	10	Corals
2	Talking Darwin	11	Diaspora of Plants
3	Mitosis & Meiosis	12	Diaspora of Animals
4	Human Evolution (Diorama)		<b>Panel Exhibition</b>
5	Human Organs	1	The Scientific Heritage of Bengal
6	Our Senses	2	A P C Ray & Sir U N Brahmachari
7	World of Microbes	3	Dr. Sambhunath De & Dr. S Mukherjee
8	World of Biomes	4	A J C Bose & Dr. G.C. Bhattacharya
9	Biodiversity of Digha	5	Satyendra Nath Bose & Meghnad Saha
10	Polar World	6	Sir Radhanath Sikdar & P C Mahalanobis
	<b>Fabrication of Science Park Exhibit</b>		
1	Who Runs Faster		

## **SECTION V**

Staff Strength

Personnel

Retirement / Resignation / Death

Appointment

Promotions

MACP

Transfer

Expenditure

## Staff Strength:

Name of the Museum/ Centre	Scientific	Technical	Administrative	Total
BITM, Kolkata	6	54	43	103
SSC, Patna	2	11	7	20
DSC, Digha	1	9	4	14
DSC, Purulia	0	6	2	10
NBSC, Siliguri	1	8	5	14
SC, Burdwan	0	8	4	12
<b>TOTAL</b>				<b>173</b>

## Retirement/ Resignation/ Death:

Museum/ Centre (1)	Name Shri/ Smt.(2)	Designation at the time of retirement/ Death/ Completion (3)	Date of retirement/ Release/ Death/ Completion (4)	Remarks (5)
BITM, Kolkata	Gautam Seal	Technical Officer 'D'	31.05.2022	Retirement
BITM, Kolkata	V.S. Ramachandran	Curator 'G' & Director	31.07.2022	Retirement
BITM, Kolkata	Kishore K. Biswas	Technician 'G'	31.07.2022	Retirement
BITM, Kolkata	Ranjan Mallick	Technical Officer 'C'	31.10.2022	Retirement
BITM, Kolkata	Dilip Ghosh	Education Officer 'D'	30.11.2022	Retirement
BITM, Kolkata	Kamal Mondal	Technician 'G'	30.11.2022	Retirement
NBSC, Siliguri	A. N. Mondal	Exhibition Officer	30.11.2022	Retirement
BITM, Kolkata	R. B. Marick	Private Secretary	30.11.2022	Retirement
BITM, Kolkata	Narendra Paul	Exhibition Officer	31.12.2022	Retirement
BITM, Kolkata	Ajoy Kumar Singha	Technician 'G'	31.01.2023	Retirement

## Appointment:

Museum/Centre	Name Shri/ Smt.	Designation	Initial Appointment
DSC, Digha	Sujoy Kumar Mandal	Education Assistant 'A'	27.04.2022
BITM, Kolkata	Debadityuti Saha	Exhibition Assistant 'A'	06.06.2022
BITM, Kolkata	Souvik Mazumder	O.A. Gr. III	30.05.2022
NBSC, Siliguri	Swati Shaw	O. A. Gr. III	01.06.2022
BITM, Kolkata	Chandrachur Ghosh	O. A. Gr. III	14.06.2022
DSC, Digha	Chandradev Shee	Technician 'A'	27.07.2022
SSC, Patna	Gulsan Kr. Gupta	Technician 'A'	20.09.2022
DSC, Digha	Amit Kumbhakar	Education Assistant 'A'	31.10.2022
SSC, Patna	Sreejita Durra	O. A. Gr. III	29.12.2022
BITM, Kolkata	Abhisek Biswas	Technician 'A'	27.01.2023
BITM, Kolkata	Anup Naskar	Technician 'A'	03.02.2023
NBSC, Siliguri	Basudeo Projapati	Technician 'A'	06.02.2023
BITM, Kolkata	Kamal Karmakar	Exhibition Assistant 'A'	20.03.2023
BITM, Kolkata	Rittick Mondal	Technician 'A'	20.03.2023

## Transfer:

Museum/Centre	Name Shri/ Smt.	Transfer from	Transfer to	Date of Transfer/ Resignation
NBSC, Siliguri	Avik Banerjee	NBSC, Siliguri	BITM, Kolkata	20.05.2022 (AN)
BITM, Kolkata	A.B. Bose	BITM, Kolkata	CRTL, Kolkata	31.05.2022 (AN)
NSC, Delhi	S. D. Sharma	NSC, Delhi	BITM, Kolkata	01.06.2022 (FN)
NSC, Mumbai	Subhabrata Chaudhari	NSC, Mumbai	BITM, Kolkata	01.08.2022 (FN)
Science City, Kolkata	P. S. Chakraborty	Science City, Kolkata	BITM, Kolkata	07.11.2022 (FN)
BITM, Kolkata	Pintu Biswas	BITM, Kolkata	VITM, Bangalore	07.11.2022(AN)
Science City, Kolkata	Debabrota Das	Science City, Kolkata	BITM, Kolkata	01.12.2022 (FN)
BITM, Kolkata	Jay Mazumder	BITM, Kolkata	Science City, Kolkata	21.12.2022 (AN)
Science Centre, Bardhaman	Sumit Das	Science Centre, Bardhaman	BITM, Kolkata	31.01.2023 (AN)
Digha Science Centre	Debasis Dhar	Digha Science Centre	BITM, Kolkata	28.02.2023 (AN)
BITM, Kolkata	Mahadeb Das	BITM, Kolkata	CRTL, Kolkata	26.03.2023 (AN)
BITM, Kolkata	Debobrata Sarkar	BITM, Kolkata	CRTL, Kolkata	26.03.2023 (AN)

## Promotion:

Museum/ Centre (1)	Name Shri/ Smt.(2)	Designation before promotion	Designation after promotion/ upgradation	Date of promotion/ up gradation
BITM, Kolkata	S.D. Sharma	Section Officer	Dy. CoFA	01.06.2022
NBSC, Siliguri	Buddhadeb Bhattacharjee	Driver Gr. I	Driver Spl. Grade	18.07.2022
NBSC, Siliguri	Arun Kr. Adhikari	Driver Gr. II	Driver Gr. I	18.07.2022
BITM, Kolkata	Subhashis Paul	Dy. CoA	CoA	24.08.2022
BITM, Kolkata	Sandip Dikshit	Technical Assistant 'B'	Technical Officer 'A'	08.09.2022
BITM, Kolkata	Biplab Kr. Seal	Technician 'E'	Technician 'F'	09.10.2022
BITM, Kolkata	Debobrata Das	O. A. Gr. II	O. A. Gr. I	01.12.2022
BITM, Kolkata	P. S. Chakraborty	Sr. Stenographer	Private Secretary	01.12.2022
BITM, Kolkata	Bhaskar Mutt	O. A. Gr. III	O. A. Gr. II	01.12.2022
SSC, Patna	Santosh Kumar	Technician 'B'	Technician 'C'	27.12.2022

**MACP:**

Museum/Centre	Name & Designation Shri/ Smt.	Date of Up gradation
BITM, Kolkata	R. K. Majhi O.A. Gr. I (upgrade)	04.09.2022

**Expenditure (2022-23) under GIA / Salaries & General (Rs. in Lakhs)**

Particulars	BITM Kolkata	SSC. Patna	D.S.C. Purulia	S.C. Bardhaman	Digha Science Centre	N.BS.C Siliguri	Total
GIA Salaries	1609.79	143.61	69.74	117.58	105.98	122.79	2169.49
GIA General	1468.19	131.86	69.66	73.12	100.65	111.03	1954.51
Gross Exp.	3077.98	275.47	139.4	190.7	206.63	233.82	4124.00
Receipt	138.09	133.60	29.92	47.33	178.33	103.84	631.11
Net Expenditure (A - B)	2939.89	141.87	109.48	143.37	28.3	129.98	3492.89
GIA-CCA Gross Expenditure	39.89	2.81	1.98	20.92	53.59	31.18	150.37

**Total Expenditure (Gross) GIA -- Salaries + General + CCA (Rs. in Lakhs)**

Particulars	BITM Kolkata	SSC. Patna	D.S.C. Purulia	S.C. Bardhaman	Digha Science Centre	N.BS.C Siliguri	Total
Gross Expenditure	3117.87	278.28	141.38	211.62	260.22	265	4274.37

**Expenditure (2022-23) Innovation Hub (Rs. in Lakhs)**

Particulars	BITM Kolkata	SSC. Patna	D.S.C. Purulia	S.C. Bardhaman	Digha Science Centre	N.BS.C Siliguri	Total
Gross Expenditure	0	0	4.43	0	1.94	1.97	8.34

## **SECTION VI**

### **Committee Members of BITM & Satellite Units**

**Executive Committee of BITM**

**Planning & Programming Committee of BITM**

**Local Advisory Committee of SSC, Patna**

**Local Advisory Committee of NBSC, Siliguri**

**Local Advisory Committee of Bardhaman Science Centre**

**Local Advisory Committee of DSC, Purulia**

**Local Advisory Committee of Digha Science Centre**



## Executive Committee of BITM, Kolkata

- |                                                                                                                                                                                                                                |                 |                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>1. Dr. Abhijit Chakraborty</b><br/>Former Vice Chancellor<br/>Jadavpur University, Kolkata<br/>Former Vice Chancellor<br/>West Bengal State Council Of Higher Education</p>                                              | <p>Chairman</p> | <p><b>8. Shri Subhabrata Chaudhuri</b> Ex-officio Member<br/>Director<br/>Birla Industrial &amp; Technological Museum,<br/>19A, Gurusaday Road<br/>Kolkata - 700 019</p>                                                            |
| <p><b>2. Prof. Rajib Bandyopadhyay</b><br/>Dept. Of Instrumentation And Electronics Engineering<br/>Jadavpur Universityb-73-80, Plot No.8, Salt Lake<br/>Bypass, Lb Block, Sector Iii, Salt Lake City<br/>Kolkata -700 098</p> | <p>Member</p>   | <p><b>9. Shri Rajib Nath</b> Ex-officio Member<br/>Curator F<br/>Birla Industrial &amp; Technological Museum,<br/>19A, Gurusaday Road<br/>Kolkata – 700 019</p>                                                                     |
| <p><b>3. Dr. Debasish Bandyopadhyay</b><br/>CSIR- Central Glass &amp; Ceramic Research Institute<br/>(CGCRI)<br/>196 Raja Sc Mullick Road<br/>Kolkata – 700 032</p>                                                            | <p>Member</p>   | <p><b>10. Shri Amitabh</b> Ex-officio Member<br/>Curator D<br/>&amp; Project Coordinator<br/>Shrikrishna Science Centre<br/>Patna - 800001</p>                                                                                      |
| <p><b>4. Dr. Jayanta Sengupta</b><br/>Secretary &amp; Curator<br/>Victoria Memorial Hall<br/>1, Queens Way, Kolkata - 700 071</p>                                                                                              | <p>Member</p>   | <p><b>11. Financial Adviser</b> Ex-officio Member<br/>Ministry of Culture or Or His /Her Nominee<br/>Govt. of India,<br/>Shastri Bhavan, Delhi - 110001</p>                                                                         |
| <p><b>5. Mrs. Indu Chander</b><br/>Principal Mahadevi Birla Shishu Vihar<br/>4 Iron side Road, Ballygunge Park,<br/>Ballygunge, Kolkata - 700 019</p>                                                                          | <p>Member</p>   | <p><b>12. The Secretary</b><br/><b>Or His/Her Nominee</b> Ex-officio Member<br/>Department Of Science &amp; Technology<br/>Government Of West Bengal ,Kolkata</p>                                                                   |
| <p><b>6. Mrs. Richa Agarwal</b><br/>Chairperson of KCC &amp; CEO Emami Art<br/>Anandapur Adarsha Nagar<br/>kolkata</p>                                                                                                         | <p>Member</p>   | <p><b>13. Director General NCSM</b><br/><b>Or His Nominee</b> Ex-Officio Member<br/>Secretary<br/>Dy. Controller of Administration,<br/>Birla Industrial &amp; Technological Museum<br/>19A, Gurusaday Road, Kolkata - 700 019.</p> |
| <p><b>7. The Secretary Or His/Her Nominee</b><br/>Department Of School Education<br/>Government Of West Bengal ,<br/>Bikash Bhavan, Kolkata</p>                                                                                | <p>Member</p>   | <p><b>14. Shri Subhashis Paul</b> Ex-officio Member<br/>Controller Of Administration<br/>Birla Industrial &amp; Technological Museum<br/>19A, Gurusaday Road, Kolkata – 700 019.</p>                                                |

## Planning & Programming Committee of BITM

- 1. Prof. Rajib Bandyopadhyay** Chairman  
Dept. of Instrumentation & Electronics  
Engineering, Jadavpur University  
B-73-80, Plot No.8, Salt Lake Bypass LB  
Block, Sector III, Salt Lake City Kolkata - 700 098
- 2. Deputy Commissioner** Member  
Kendriya Vidyalaya Sangathan  
Regional Office, Kolkata E. B. Block, Laboni,  
Sector - 1 Salt Lake City, Kolkata - 700 064
- 3. Dr. Titas Nandi** Member  
Dept. of Mechanical Engineering  
Jadavpur University  
Kolkata – 700 032
- 4. Dr. Punarbasu Chaudhuri** Member  
Assistant Professor  
Dept. of Environmental Science, UC  
Room No. 856, 7th Floor, Ballygunge  
Circular Road, Kolkata -700 019
- 5. District Inspector of Schools** Member  
(Secondary Education), Kolkata  
27A, Bose Pukur Road  
Shiksha Bhaban, Kolkata – 700 042
- 6. Principal** Member  
Kendriya Vidyalaya  
Ballygunge, Kolkata – 700 019
- 7. Principal** Member  
Mahadevi Birla World Academy  
17A, Darga Road, Kolkata - 700 017
- 8. Mrs. Dipa Chakraborty** Member  
Headmistress  
Smt. Jahar Nandi Vidyapith 20 & 22, Tarak  
Dutta Road & 9, Cornel Biswas Road,  
Kolkata – 700 019
- 9. Director General or his nominee** Ex-officio Member  
National Council of Science Museums  
33, Block-GN, Sector-V Bidhan Nagar,  
Salt Lake City, Kolkata - 700 091
- 10. Director Birla Industrial & Technological  
Museum** Ex-officio Member  
19A, Gurusaday Road  
Kolkata – 700 019
- 11. Shri Amitabh** Ex-officio Member  
Project Coordinator  
Shrikrishna Science Centre West Gandhi  
Maidan Chajju Bagh, Patna - 800 001
- 11. Shri Rajib Nath** Member Secretary  
Curator  
Birla Industrial & Technological Museum  
19A, Gurusaday Road, Kolkata-700 019

## Building Committee of BITM

- 1. Shri S. Roy Chowdhury** Chairman  
Former Chief Architect, CPWD  
83, K. P. Roy Lane, Near Tollygunj Phari  
(R.S.V. Hospital), Kolkata – 700 033
- 2. Shri Biswajit Bose** Member  
Retd. Chief Architect (ER), CPWD  
Beledanga Road, Kethopole  
P.O. Sibrampur, Kolkata - 700 141
- 3. Shri Anup Kumar Ghosh** Member  
Director General of Operation KMDA (Retd.)  
Flat No. A-2, 2nd Floor, Tulip Apartment,  
282, Parnasree Pally, Kolkata - 700 060
- 4. Prof. Arup Guha Niyogi** Member  
Dept. of Civil Engineering  
Jadavpur University, Kolkata - 700 032
- 5. Dr. Bhaskar Sengupta** Member  
Chief University Engineer  
Rabindra Bharati University Emerald Bower  
Campus, 56A, B. T. Road, Kolkata - 700 050
- 6. Director** Ex-Officio Member  
Birla Industrial & Technological Museum  
19A, Gurusaday Road, Kolkata – 700 019
- 7. Shri Saikat Sikdar** Ex-Officio Member  
Superintending Engineer  
National Council of Science Museums  
33, Block-GN, Sector-V, Bidhan Nagar,  
Salt Lake City, Kolkata – 700 091
- 8. Shri Subhashis Paul** Ex-Officio Member  
Controller of Administration  
Birla Industrial & Technological Museum  
19A, Gurusaday Road, Kolkata – 700 019
- 9. Shri Sunil Dutt Sharma** Ex-Officio Member  
Dy. Controller of F&A  
Birla Industrial & Technological Museum  
19A, Gurusaday Road, Kolkata – 700 019
- 10. Shri Arabinda Kundu** Member Secretary  
Technical Officer (Civil)  
Birla Industrial & Technological Museum  
19A, Gurusaday Road, Kolkata – 700 019
- 11. Invitee Members**  
To be invited based on requirements for  
discussing specific Building projects of NCSM

**Local Advisory Committee of  
Shrikrishna Science Centre, Patna**

- 1. Prof. Rasbihari Prasad Singh** Chairman  
Former Vice Chancellor, Patna University  
101, Rewati Apartment, Road No. 2, Kazipur,  
Patna, Pin - 800 004
- 2. Ms. Jyoti Parihar** Member  
Director, Kilkari Bal Bhawan  
Saidpur, Patna, Pin - 800 004
- 3. ADM Law and Order** Member  
Patna  
Patna Collectorate, Patna - 800 001
- 4. Ms. Moumita Ghosh** Member  
Curator, Bihar Museum,  
Baily Road, Patna - 800 001
- 5. Shri Naveen Kr. Nischal** Member  
Dept. of Physics,  
IIT Patna, Bihar - 801 103
- 6. Dr. Shayesta Bedar** Member  
Director  
Khuda Baksh Oriental Public Library, Patna  
Ashok Rajpath, Patna, Pin – 800 004
- 7. Dr. Vivekanand Pandey** Member  
Pro Vice Chancellor,  
Amity University,  
DPS More, Danapur, Patna- 801 503
- 8. Dr. Kumari Nimisha** Member  
Asst. Professor, Dept. of Chemistry  
Rajkiya Mahila Mahavidyalaya  
Patna- 800 007
- 9. Prof. (Retd.) Arun Kumar** Member  
Chairman Science for Society, Bihar  
C/o Chemistry Department (New Building),  
Science College, Patna University, Patna- 800 005
- 10. Shri B. Vinod** Member  
Principal, Delhi Public School,  
Vill. Chandmari, Danapur, Patna - 801 503
- 11. Director** Ex-officio Member  
Birla Industrial & Technological Museum,  
19A, Gurusaday Road Kolkata – 700 019
- 12. Shri Amitabh** Member Secretary  
Project Coordinator,  
Shrikrishna Science Centre,  
Chaju Bagh, West Gandhi Maidan, Patna- 800001

**Local Advisory Committee of  
North Bengal Science Centre, Siliguri**

- 1. Vice Chancellor** Chairman  
University of North Bengal  
P.O. NBU, Rajarammohunpur, Darjeeling,  
Pin - 734 013
- 2. Prof. (Dr.) Subhas Ch. Roy** Member  
Professor, Dept. of Botany & Dean Faculty Council  
for P. G. Studies in Science University of North  
Bengal, P.O. NBU, Rajarammohunpur,  
Darjeeling, Pin- 734 013
- 3. AEO & ADM** Member  
Siliguri Mahakuma Parishad  
Bhutia Market, Hakim Para, Siliguri, Pin- 734 001
- 4. CEO** Member  
Siliguri Jalpaiguri Dev. Authority Tenzing Norgay  
Road, Siliguri Pradhannagar, Ward 1, Patiram  
Jote, Pin- 734 001
- 5. Prof. (Dr.) Mithun Chakraborty** Member  
Principal, Siliguri Institute of Technology  
SIT Campus, Salbari Hill Cart Road, Sukna,  
Siliguri Pin- 734 009
- 6. Director** Member  
Darjeeling Himalayan Railway (A UNESCO  
World Heritage Site) Elysia Place, Kurseong,  
Dist. Darjeeling, Pin- 734 203
- 7. District Education Officer** Member  
SSM & RMSA, Siliguri  
Educational District 3rd Floor, Siliguri Mahakuma  
Parishad Bhutia Market, Hakim Para, Pin- 734 001
- 8. Dr. Mayukh Sarker** Member  
Principal-in-charge  
Acharya Prafulla Chandra Roy Govt. College  
Himachal Bihar, Matigara, Siliguri- 734 010
- 9. Smt. Atyuha Bagchi** Member  
Headmistress  
Siliguri Girls' High School, Ashutosh Mukherjee  
Road, College Para, Siliguri, Pin- 734 001
- 10. Asstt. Director of Information,** Member  
Office of Asstt. Director of Information, Dept. of  
I&CA Govt. of West Bengal Mainak Tourist Lodge  
Complex Hill Cart Road, Pradhan Nagar,  
Pin. 734 001
- 11. Director** Ex-officio Member  
Birla Industrial & Technological Museum,  
19A, Gurusaday Road Kolkata – 700 019
- 12. Shri Ritabrata Biswas,** Member Secretary  
Project Coordinator,  
North Bengal Science Centre,  
P.O. Matigara, Siliguri – 734 010

**Local Advisory Committee of Bardhaman Science Centre**

- 1. District Magistrate** Chairperson  
Court Compound,  
P.O & Dist. Purba Bardhaman Pin- 713 101
- 2. Shri Utpal Samui** Member  
Principal  
M.B.C. Institute of Engineering & Technology  
Sadhanpur, Purba Bardhaman Pin- 713 101
- 3. Dr. Naba Kumar Mondal,** Member  
Head & Associate Professor, Dept. of  
Environmental Science, University of Burdwan,  
Golapbag, P.O. Rajbati, Golapbag Pin- 713 104
- 4. District Inspector of School,** Member  
(Secondary Education)  
Post- Purba Bardhaman, Pin- 713 101
- 5. Shri Pramad Kumar Swain** Member  
Senior General Manager, The Supreme Industries  
Ltd. E.P.I.P, P.O- Bankskopa, Dist- Paschim  
Bardhaman Durgapur-12
- 6. District Education Officer** Member  
Sarva Siksha Mission  
New Administrative Building  
P.O & Dist. Purba Bardhaman Pin- 713 101
- 7. District Youth Officer** Member  
Purba Bardhaman  
Postal Co-operative Building  
1st floor, P.O & Dist. Purba Bardhaman, Pin- 713 101
- 8. Smt. Rama Bandyopadhyay** Member  
Headmistress  
Rathtala Monohar Das Balika Vidyalaya, P.O.  
Kanchannagar, Dist. Purba Bardhaman, Pin-713 102
- 9. Shri Soumen Konar** Member  
Headmaster  
Krishnapur High School Post- Rajbati, Dist.  
Purba Bardhaman, Pin- 713 104
- 10. Dr. Anindya Bose,** Member  
Senior Scientific Officer, Dept. of Physics,  
The University of Burdwan,  
Rajbati, Purba Bardhaman, Pin. 713 104
- 11. Director** Ex-officio Member  
Birla Industrial & Technological Museum, 19A,  
Gurusaday Road, Kolkata – 700 019
- 12. Shri Nikhilesh Biswas,** Member Secretary  
District Science Officer,  
Bardhaman Science Centre,  
Ramna Maidan, Baburbag, P.O. Rajbati,  
Purba Bardhaman, Pin. 713 104

**Local Advisory Committee of District Science Centre, Purulia**

- 1. Vice Chancellor** Chairperson  
Sidho Kanho Birsha University  
Purulia, Pin- 723 104
- 2. Secretary** Member  
Ramakrishna Mission Vidyapith  
Vivekananda Nagar, Purulia  
Pin- 723 147
- 3. Smt. Krishna Saha** Member  
Govt. Girls' High School  
Ranchi Road, Purulia, Pin. 723 101
- 4. District Project Officer** Member  
Sarva Siksha Mission  
Zilla Parishad Bhavan  
5th Floor, Purulia, Pin- 723 101
- 5. Dr. Santanu Chattopadhyay** Member  
Principal, J. K. College,  
Purulia, Pin- 723 101
- 6. Dr. Bibek Chakraborty** Member  
Principal, Rama Krishna Mahato Govt.  
Engineering College, Vill. Agharpur, P.O.  
Amamoti P.S. Joypur, Pin- 723 103
- 7. Dr. Subrata Raha** Member  
Head, Dept. of Botany  
Sidho Kanho Birsha University  
Purulia, Pin- 723 104
- 8. Dr. (Mrs.) Indrani Deb** Member  
Principal,  
Nistarini College  
Desh Bandhu Road, Purulia – 723 101
- 9. District Inspector of School (H.S.)** Member  
Zilla Siksha Bhavan (Hill View Ground),  
P.O. Dulmi Nadiha, Purulia, Pin- 723 101
- 10. District Youth Officer** Member  
District Youth Office  
Ranchi Road, Purulia  
Pin- 723 101
- 11. Director** Ex-officio Member  
Birla Industrial & Technological Museum, 19A,  
Gurusaday Road, Kolkata – 700 019
- 12. District Science Officer** Member Secretary  
District Science Centre  
North Lake Road, Purulia- 723 101

## Local Advisory Committee of Digha Science Centre

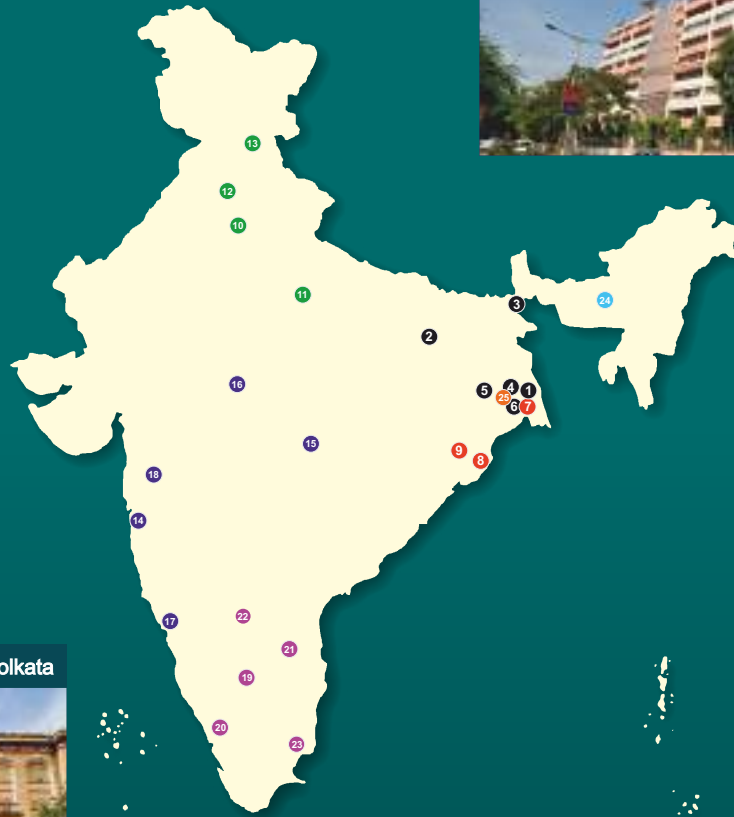
<b>1. District Magistrate &amp; District Collector</b> Purba Medinipur Tamluk, Midnapur (E) Pin- 721 636	Chairman	<b>7. Superintendent</b> Digha State General Hospital Digha, Purba Medinipur, Pin- 721 463	Member
<b>2. Dr. Amit Kr. Dey</b> <b>Principal</b> Prabhat Kumar College Contai, Purba Medinipur, Pin- 721 401	Member	<b>8. Shri Samarendra Nath Das</b> Principal, Contai Public School Contai, Purba Medinipur, Pin- 721 401	Member
<b>3. Block Development Officer</b> Ramnagar - I, Purba Medinipur, Pin- 721 441	Member	<b>9. Shri Subhendu Karan</b> Headmaster Digha Bidyabhawan, Digha - Contai Rd, Alankarpur , West Bengal- 721 441	Member
<b>4. Joint Director &amp; Officer- in-charge</b> Marine Aquarium, Zoological Survey of India, Digha, Pin- 721 101	Member	<b>10. Executive Officer</b> Digha Shankarpur Development Authority Digha – 721 428, Purba Medinipur	Member
<b>5. District Inspector of School, (Secondary),</b> Contai, Purba Medinipur, Pin- 721 401	Member	<b>11. Director</b> Birla Industrial & Technological Museum, 19A, Gurusaday Road, Kolkata - 700 019	Ex-officio Member
<b>6. Sub-Divisional Officer</b> Contai, Purba Medinipur Pin- 721 401	Member	<b>12. Shri Niranjana Gupta,</b> Project Coordinator, Digha Science Centre, Foreshore Road, New Digha Purba Medinipur, Pin- 721 463	Member Secretary

# SCIENCE CENTRES UNDER NCSM

National Council of Science Museums



- East Zone
- CRTL Zone
- North Zone
- West Zone
- South Zone
- North East Zone
- Science City



Birla Industrial & Technological Museum, Kolkata



## East Zone

1. Birla Industrial & Technological Museum, Kolkata
2. Shri Krishna Science Centre, Patna
3. North Bengal Science Centre, Siliguri
4. District Science Centre, Bardhaman
5. District Science Centre, Purulia
6. Digha Science Centre, Digha

## CRTL Zone

7. Central Research and Training Laboratory, Kolkata
8. Regional Science Centre, Bhubaneswar
9. Dhenkanal Science Centre, Dhenkanal and Kapilas Science Park

## North Zone

10. National Science Centre, Delhi
11. Regional Science City, Lucknow
12. Kurukshetra Panorama and Science centre, Kurukshetra
13. Palampur Science Centre, Palampur

## West Zone

14. Nehru Science Centre, Mumbai
15. Raman Science Centre & Planetarium, Nagpur
16. Regional Science Centre, Bhopal
17. Goa Science Centre, Panjim
18. District Science Centre, Dharampur

## South Zone

19. Visvesvaraya Industrial & Technological Museum, Bangalore
20. Regional Science Centre & Planetarium, Calicut
21. Regional Science Centre, Tirupati
22. District Science Centre, Gulbarga
23. District Science Centre, Tirunelveli

## North East Zone

24. Regional Science Centre, Guwahati

## Science City

25. Science City, Kolkata

## Birla Industrial & Technological Museum

A Unit of National Council of Science Museums

Ministry of Culture, Government of India

19A, Gurusaday Road, Kolkata – 700019, Ph. 9477345290/1/2