

ACTIVITY REPORT

2019 - 2020

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 V S Ramachandran

Director
Birla Industrial & Technological Museum

Birla Industrial & Technological Museum
(National Council of Science Museums, Ministry of Culture, Govt. of India)
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Message

Dear all,

Greetings from BITM.

The year 2019 will be remembered for ever by all associated by BITM, including the past and present officers / staff members of BITM. The Museum celebrated its 60th Anniversary and Diamond Jubilee year. The sheer variety and magnanimity of the events made it a memorable to hundreds who came to the Museum to celebrate the day. There was inauguration of a new Gallery '*Digital Adventure*', Exhibitions on '*Mind over Matter: A tribute to Stephen Hawking*' and '*Biodiversity of East Kolkata Wetlands*'. The celebration continued for a week with Lectures, Dance Drama, Quiz, Painting Competition, Launch of new Science Show, Workshop on 'Periodic Table' etc. The nostalgic event of past members of BITM recapitulating their golden days with BITM was very touching. Two commemorative books and two folders were published. The programme on 2 May, 2019 was filmed for documentation purpose. All were presented with Diamond Jubilee mementos.

Other important inaugurations during 2019-20 were two exhibits, namely, 'Gaganyaan Space Suit' and 'Talking Robot', a new science show 'Balloons' and an open air 'Fitness Zone' at BITM, new 3D Shows 'Hurricane' at BITM, 'Meet the Dinoes' at Bardhaman Science Centre, 'The Lost World' at North Bengal Science Centre Siliguri, 'African Adventure' at DSC Purulia and 'Galapagos' at Digha Science Centre. DSC, Purulia inaugurated a new Innovation Hub.

Important exhibitions, such as, "Rare Artifacts" at BITM, 'The Future of Food: The Pulses' at Bardhaman Science Centre, 'Uniting India : Sardar Patel' at Srikrishna Science Centre, Patna were held.

Innovation Hub activities saw remarkable increase with news ideas of students germinating and getting shape. 'Innovation Festival' were organized by BITM and all its units for school students. The Biotech lab at BITM saw a surge in membership and project implementation.

The visitor's footfall to BITM and units was quite encouraging in 2019-20. Although the visitors entry faded from mid-February 2020 due to COVID'19 pandemic situation, we were close to matching last year's figure.

Lastly, RSC Bhubaneswar, Dhenkanal Science Centre and Kapilas Science Park from now on will be attached with Central Research and Training Laboratory, Kolkata. Until 31.03.2019, these three units were attached with BITM. I would like to thank these three units for their contribution towards science awareness activities in Eastern India. I wish them all success in their future endeavour.

Thank you all.

V. S. Ramachandran
Director, BITM



General Information

1. Birla Industrial & Technological Museum

- i. Name of Head of Museum : Shri V. S. Ramachandran, Director
ii. Full Address : 19A, Gurusaday Road, Kolkata - 700019
iii. Phone No and : 033 2287 7241, 2287 7242, 2287 7243, 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 weekdays, 10:30 am to 8:00 pm on Saturdays and
Sundays)
viii. Closed to visitors on : Doljatra and Kalipuja
ix. Entry Fee : a) Museum Entry
i. General Visitors - Rs.50.00 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

x. Inaugurated on : 2nd May 1959

xii. Floor Area in Sq. mtrs.: 10351.95

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

2. Srikrishna Science Centre, Patna

- 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. Entry Fee : a) Centre Entry
i. General Visitors - Rs.30.00 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
c) Science Show
i. General Visitors & Students in group - Rs. 10.00 per head
ii. Govt. School Students in Group - Rs. 5.00 per head

SSC, Patna Contd.

d) 3D Show

- i. General Visitor - Rs. 25.00 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

e) Digital Planetarium Show

- i. General visitor - 25.00 per head
- ii. Student in group - 15.00 per head
- iii. Govt. Student in group - 5.00 per head

f) 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

ix. Inaugurated on :

14th April 1978

x. Floor Area in Sq. mtrs

: 5000.69

4. District Science Centre, Purulia

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 :

10:30 am to 7:00 pm

vi. Closed to visitors on :

Doljatra and Kalipuja

vii. Entry Fee :

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 & including all shows) – Rs. 35.00

f) Gold Museum Tour Package for General (Entry & including 3D) – Rs.25.00

viii. Inaugurated on :

15th Dec, 1982

ix. Floor Area in Sq. mtrs :

1637

4. Bardhaman Science Centre

i. Name of Head of Centre :

Shri Nihillesh Biswas, District Science Officer

ii. Full Address :

Ramna Maidan, Baburbag P.O. Rajbati Dist.

Purba Bardhaman - 713104

iii. STD Code with Phone No :

0342 2657844

iv. Email :

sciencecentrebwn@gmail.com

v. Hours of opening :

10 am to 6:30 pm

vi. Closed to visitors on :

Doljatra and Kalipuja

vii. Entry Fee :

Centre Entry

- i. General Visitors - Rs. 20.00 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

Bardhaman Science Centre (Contd.)

Taramandal Show

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

Science Show

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

3D Show

- i. General Visitors - Rs. 25.00 per head
- II) 25 or more in a group - Rs. 20 per head
- ii. Students in Group : Rs. 10.00 per head

viii. Inaugurated on :

9th January 1994

ix. Floor Area in Sq. mtrs :

2117 Sq. Mtrs

8. North Bengal Science Centre

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,

nbscsiliguri1997@gmail.com

v. Website

<http://www.nbscsiliguri.org>

vi. Facebook:

<https://www.facebook.com/nbscsiliguri>

vii. Twitter:

<https://twitter.com/nbscsiliguri1>

viii. Youtube:

<https://www.youtube.com/channel/UCjwgmxzRCFAFBVrwHVUEF1Q>

ix. Hours of opening :

10:30 am to 7 pm

x. Closed to visitors on :

Holi & Diwali

xi. Entry Fee :

a) Centre Entry

- i. General Visitors - Rs. 25.00 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. 20.00 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 20.00 per head
- ii. 25 or more Visitors in a group - Rs. 15.00 per head
- iii. School Group - Rs. 10.00 per head
- iv. Govt. School Students in Group - Rs. 10.00 per head

viii. Inaugurated on :

17th Aug 1997

ix. Floor Area in Sq. mtrs:

2598

9. Digha Science Centre & National Science Camp

i. Name of Head of Centre :

Shri Niranjan Gupta, Project Coordinator

ii. Full Address :

Fore shore Road, New Digha - 721 463 West Bengal

iii. STD Code with Phone No :

03220 266360

iv. Email :

dscdigha@gmail.com

v. Hours of opening:

9 am to 7 pm

vi. Closed to visitors on :

Doljatra and Kalipuja

Digha Science Centre (Contd.)

vii. Entry Fee :

a) Centre Entry

- i. General Visitors - Rs.25.00 per head
- ii. 25 or more Visitors in a group - Rs.20.00 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 20.00 per head
- ii. 25 or more Visitors in a group - Rs. 15.00 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.25.00 per head
- ii. 25 or more Visitors in a group – Rs. 20.00 per head
- iii. Students in groups – Rs.15.00 per head
- iv. Govt. School Students in Group – Rs. 10.00 per head

viii. Inaugurated on :

31st Aug 1997

ix. Floor Area in Sq. mtrs :

2589.25

Inauguration of Innovation Hub

Innovation Hub	
<i>Name of the Museum</i>	<i>Date of Inauguration</i>
BITM, Kolkata	23 August 2013
Bardhaman Science Centre	10 July 2015
SSC, Patna	7 October 2016
NBSC, Siliguri	16 February 2018
RSC, Bhubaneswar	11 July 2018
Digha Science Centre	26 February 2019
DSC, Purulia	17 December 2019
Biotechnology Lab	
BITM, Kolkata	2 May 2017

Inauguration of Biotech lab**Inauguration of Space & Astronomy Centre**

Space and Astronomy Centre	
<i>Name of the Museum</i>	<i>Date of Inauguration</i>
NBSC, Siliguri	3 April 2010
SSC, Patna	7 October 2016
Digha Science Centre	9 February 2018

Inauguration of Science on a Sphere

Science on a Sphere	
<i>Name of the Museum</i>	<i>Date of Inauguration</i>
SSC, Patna	9 April 2018



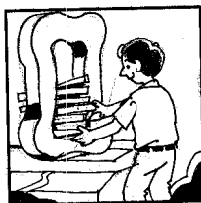
Visitors to Museum/Centre

	BITM Kolkata	SSC, Patna	DSC, Purulia	Sc. Cent. Bardh	N.B.S.C. Siliguri	Digha Sc. Centre
School Groups	1126	1306	192	367	777	603
Students	93813	75775	20764	42645	46955	33948
Visitors in Spl. prog	23976	74361	41784	22721	46959	65185
General visitors	101638	203090	134766	159556	219738	370565
In-house Visitors	219427	353226	197314	224922	313652	469698
Outreach Visitors including visitors in MSE	278182	829262	344183	201802	102681	22497
Total Visitors	497609	1182488	541497	426724	416333	492195



Mobile Science Exhibition

Museum/ Centre	Title of the Unit	Museum that developed the unit	No. of Exhibits	Year in which developed
BITM, Kolkata	Heat & Temperature	RSC, Bhubaneswar	20	2010
	Mathematics	NBSC, Siliguri	20	2007
	Machine in Everyday Life	BITM, Kolkata	20	2019
SSC, Patna	Popular Science	BITM Kolkata	20	2018
	Food & Health	CRTL, Kolkata	20	2019
	Machine in Everyday Life	SSC, Patna	20	2019
DSC, Purulia	Popular Science	BITM, Kolkata	24	2012
	Measurement	CRTL Kolkata	20	2019
	Food & Health	CRTL Kolkata	20	2019
SC, Bardhaman	Fun Science	BITM, Kolkata	24	2013
	Measurement	CRTL Kolkata	20	2019
N.B.S.C., Siliguri	Hands on Science	BITM, Kolkata	24	2014
	Machine in Everyday Life	BITM, Kolkata	20	2019
Digha Sc. Centre	Water - Daily Life Chemistry	Sc. City	20	2019



Existing Galleries

Museum/Centre	Name of the Gallery	Floor Area (Sq. mtr.)	Year of Inauguration	No. of Exhibits
Birla Industrial & Technological Museum, Kolkata	Transport	350	1973 & 2008	94
	Mock-up Coal Mine	475	1983 & 2008	65
	Motive Power Hall 1	475	2001	34
	Motive Power Hall 2	210	1962 & 2005	47
	Metals	360	2003	50
	Fascinating Physics	189	2006	65
	Television	255	2006	67
	Popular Science	210	1964 & 2007	45
	Mathematics	475	2009	45
	Children's gallery	260	1988 & 2010	42
	Electricity	170	1984 & 2015	66
	World in Darkness	265	2009	19
	Digital Adventure	230	2019	17
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	71
	S. K Singh Gallery	50	1978	20
	Children's Gallery	100	2018	12
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
Bardhaman Science Centre	Human Performance	450	2002	29
	Life Science & Fun Science	450	2011	14
				27
North Bengal Science Centre, Siliguri	Fun Science	380	2010	37
	Popular Science	380	1997	19
	Life Science & Children's Corner	120	1997	12
	Nature Interpretation	400	2001	17
	Light, Mirrors & Images	380	2017	32
Digha Science Centre	Life Science	247	2006	28
	Reflection	247	2010	30
	Fun Science	247	2014	32

NEW FACILITIES

Birla Industrial & Technological Museum, Kolkata

- * BITM inaugurated a new Gallery on 'Digital Adventure' by Prof. M. Jagadesh Kumar, Vice Chancellor, Jawaharlal Nehru University on 2 May, 2019.
- * BITM inaugurated two exhibits, namely, 'Gaganyaan Space Suit' and 'Talking Robot' on 4 September, 2019. Shri Firhad Hakim, Mayor of Kolkata and Minister in Charge, Urban Development & Municipal Affairs, Govt. of West Bengal inaugurated.
- * BITM launched a new 3D Show on 'Hurricane' on 25 September, 2019. Shri Debasish Kumar, MMIC, Parks & Gardens and Sports, Kolkata Municipal Corporation inaugurated.
- * BITM launched a new science show entitled 'Balloons' on 27 June, 2019. The show includes exciting experiments with 'Balloon' which explains principles of science like – Density, Weightlessness, Inertia of motion & rest, Inflammability, Air Pressure etc.
- * An open air 'Fitness Zone' was created with four participatory type exhibits at the entrance of BITM on 15 January 2020.
- * BITM introduced Online Ticketing System from September 2020.

Bardhaman Science Centre

Bardhaman Science Centre inaugurated a 3D Film 'Meet the Dinosaurs' on 10 May 2019. Dr. Shruhata Paul, Principal, Burdwan Medical College was the Chief Guest.

North Bengal Science Centre Siliguri, Siliguri

NBSC Siliguri launched a new 3D Film 'The Lost World' on 6 September 2019. Shri Dharmdeo Rai, IFS, Director, North Bengal Wild Animals Park, WB Zoo Authority, Siliguri inaugurated.

Digha Science Centre

Digha Science Centre launched a new 3D movie 'Galapagos' on 31 August 2019. It was inaugurated by Shri S. Balakrishnan, Scientist In-charge, Zoological Survey of India in presence of Shri Pijush Kanti Bera, District Inspector of Schools, Purba Medinipur.

DSC, Purulia

- * District Science Centre Purulia inaugurated a new Innovation Hub on 17 December 2019. Prof. Dipan Ranjan Kar, Vice-chancellor, Sidhu-Kanho-Birsha University, Purulia inaugurated in the presence of Swami Shivapradanandaji Maharaj, Secretary, RKM Vidyapith, Purulia.
- * 3D Film 'African Adventure' was inaugurated on 10 November 2019.

INAUGURATION OF EXHIBITIONS

- * BITM inaugurated an exhibition 'Rare Artefacts' on 20 February, 2020. The exhibition was inaugurated by Shri Jawhar Sircar, Former CEO, Prasar Bharati in the presence of Dr. Jayanta Sengupta, Secretary and Curator, Victoria Memorial Hall and Mr. V. Dementiev, Director & Vice Consul, Russian Centre for Science & Culture, Kolkata.
- * Shrikrishna Science Centre Patna organised a panel exhibition on 'COVID-19' from 13 February 2020 onwards.

Inauguration of Exhibitions (contd.)

- * SSC Patna opened a 4 panel exhibition on Chandrayaan-2 on 6 September 2019.
- * Digha Science Centre organized a panel exhibition to celebrate the 150th Birth Anniversary of Mahatma Gandhi on 2 October 2019. The programme was inaugurated by Dr. S Balakrishnan, Scientist In-charge, Zoological Survey of India.

TRAVELLING EXHIBITIONS

- * Birla Industrial & Technological Museum inaugurated exhibitions 'Mind over Matter: A tribute to Stephen Hawking', '60 Years of BITM' and 'Biodiversity of East Kolkata Wetlands' on 2 May 2019 on the occasion of its Diamond Jubilee celebration.
- * Bardhaman Science Centre inaugurated a travelling exhibition 'The Future of Food: The Pulses' on 5 June 2019. It continued till 4 July 2019.
- * Srikrishna Science Centre, Patna hosted a travelling exhibition – 'Uniting India: Sardar Patel'. It was inaugurated on 24 October 2019 by Shri Sushil Kumar Modi, Deputy Chief Minister of Bihar. Shri Nitish Kumar, Hon'ble Chief Minister, Bihar along with his cabinet ministers visited the exhibition on 31 October 2019.

INNOVATION FESTIVAL

- *BITM organized a science model competition "Innovation Festival" on 1 February 2020. 51 selected teams represented by 107 student displayed their models. Mrs. Devi Kar, Director, Modern High School for Girls inaugurated the festival.
- *Bardhaman Science Centre, in association with SSM, Purba Bardhaman organized the Rastriya Aviskar Abhiyan Mela on 20 and 21 December 2019. 100 participants from 50 Institutions and 22 Innovation Hub Members participated. 61 models were displayed. Shri Bijoy Bharti, District Magistrate, Purba Bardhaman inaugurated.
- *An Innovation Festival was organized at Digha Science Centre on 21 & 22 January 2020. Dr. Amit Kumar De, Principal, Contai P. K. College inaugurated in presence of Dr. S. Balakrishnan, In-charge, Geological Survey of India, Digha. 101 students with 47 model participated. 6099 teacher, students & visitors attended.
- *NBSC, Siliguri and National Innovation Foundation-India organized Innovation Festival from 20 to 22 January 2020. Prof. Tapas Sarkar, Sabhadhipati, Siliguri Mahakuma Parishad inaugurated. 67 models from 28 schools & colleges participated. Models by Grass-root Innovators were also displayed. Prof. B.C. Paul, University of North Bengal awarded prizes.
- *Innovation Hub of Digha Science Centre organized a 'Robotics Boot Camp' from 24 to 26 May 2019. 39 Innovation Hub members participated.
- * Shrikrishna Science Centre, Patna organized 'Inspire Award Manak' in collaboration with Bihar Education Project on 27 to 28 January 2020. Shri G. S. Rautela, former DG, NCSM delivered a lecture on 'Innovation and its importance'. There wss an Quiz and a show with Liquid Nitrogen. 53 selected projects were presented. 1600 people visited.

INNOVATION HUB ACTIVITY

BITM Kolkata

- * Orientation programme under Rashtriya Abishkar Abhijan activity for District Project Officers of Paschim Banga Sarba Shiksha Mission on 29 April 2019
- * Inspire to Innovate' programme conducted for The Future Foundation School on 6 May 2019.
- * Summer Camp from 20 to 25 May 2019
- * Mobile App Design Summer Camp held from 27 May to 1 June 2019.
- * Workshops on Bridge Making and Redesigning for individual members and institutional members on 19, 20 and 21 October 2019.
- * Interactive session on Braking System and Importance of ABS as per mandatory safety norms for automobile industry by 2020 in India in October 2019.
- * Workshop on Basic Electronics, Light Emitting Diode, Integrated Circuits and Introduction to Logic Gates in December 2019.
- * Workshop on 'Foldscope - Paper Microscope' conducted by Dr. Ramadas Chatterjee, Chittaranjan National Institute, Kolkata in January 2020
- * Workshop was organized on 'Science Film Making' conducted by Prof. Jyotirmoy Deb, TechnoIndia University and associated with Vijaygarh Jyotish Ray College on 28 February 2020.

Achievements by Members of BITM Innovation Hub

- * Shri Satyakam Saha got patent for "Energy free food preserver" Patent No.: 309871
- * Priyam Paul was awarded for his presentation 'Mass Colonization' on World UFO Day held at Techno World Research Institute on July 8 2019.
- * Advaita Saha, Arpotri Ghosal, Agnik Sen Roy submitted their projects in IRIS National Sc. Fair.
- * Avinaba Majumdar got selected at "NY Academy of Sciences" for research in Astrophysics.

Digha Science Centre

- * A Workshop on 'How Crystals Grow' was organized for 40 members from 12 to 14 June 2019.
- * Innovation Hub of Digha Science Centre organized a workshop on "Hydroponics" from 14 to 16 January 2020. 51 members participated.
- * A Workshop on "Entrepreneurship Development through Innovation" was organized on 27 & 28 January 2020. 47 college students participated.
- * Innovation Hub of Digha Science Centre organized a workshop on 'Innovative Techniques for '0' budget Animation movie Making' on 24 and 25 August 2019. 51 Innovation Hub members participated.

NBSC, Siliguri

- * Workshops on 'Kabad Se Jugad', Thod Phod Jod, Innovative Technologies & Innovative Session on Gandhian Innovation, Environmental Studies, Waste to Wealth were organized.
- * Workshop on System Design using Bluetooth Communication with Android App Application was organized from 18 to 20 November 2019.

Bardhaman Science Centre

- * Bardhaman Science Centre organized a workshop on 'Introduction to Robotics' on 21 July, 2019. 39 students from 12 institute participated.
- * A workshop on 'Drinking Water Purification' was organized on 27 August 2019 in which 98 Members participated from 6 Institutions.
- * Workshop on 'Analysis of Water Quality' of sample taken from different fast food Stall of Burdwan Town was organized by Innovation Hub of Bardhaman Science Centre 22 and 23 June 2019. 73 participants took part.

BITM Biotech Lab Activities

- * 2 Summer Camps were conducted on Biology from 20 to 25 May and 27 May to 1 June 2019
- * Two Teacher's workshop were conducted from 26 July to 16 September 2019
- * 'Genetiquiz', a quiz competition focussed on genetics was organised in collaboration with Calcutta Consortium of Human Genetics on 20 September 2019. Students from 12 schools and 39 colleges participated.
- * Workshop on 'Basics of Biotechnology' was arranged on 18 & 19 December 2019
- * Conducted demonstration to all the participants of Eastern India Science and Engineering Fair from 14 to 18 January 2020
- * Members of Biotech Lab participated in Innovation Festival 2020 held at BITM on 1 February 2020 with their projects.
- * During 2019-20, 20 school groups have visited Biotech lab exclusively for demonstration.



Collaborative Programmes

NATIONAL LEVEL COLLABORATION

- * BITM participated in the 15th Konnagar Science Fair organized by JUKTIMAN Kala O Bignan Kendra with a "Balloon Show" on 15 January 2020. Visitors - 1000
- * BITM and Dept. of Youth Services and Sports, Govt. of West Bengal organized the West Bengal State Level fair at Netaji Indoor Stadium from 17 to 19 November 2019.
- * BITM and Regional Outreach Bureau organized a seminar on 'Indian Constitution' on 26 November, 2019. Shri Rabindra Nath Mishra, DG (Eastern Zone), Ministry of I & B, GOI inaugurated. Oath was taken and an exhibition on 'Swachhata' was put up by DAVP. Students participants of Quiz were awarded a copy of the Preamble and a copy of 'Gandhi' by Joseph J Doke.
- * Shrikrishna Science Centre, Patna in collaboration with Agastya International Foundation organized a Science Exhibition at Shoshit Samadhan Kendra, Patna on 12 and 13 December 2019. 76 projects from 11 states participated. 2100 people, including general public and students visited.

National Level Collaboration (Contd.)

* SSC, Patna and Agha Khan Foundation organized block level science fair for Patna district from 7 to 9 November 2019. 400 school students participated.

* SSC, Patna in collaboration with Prem Youth Foundation and Vishwa Yuvak Kendra, Delhi organized a Training Programme for the environment activists & grass root players on the theme "Role of Civil Society in promotion of Climate Action".

* SSC, Patna organized a Science Demonstration Lecture in Patna Book Fair at Gandhi Maidan on 15 November 2019. 1000 students and general public were present.

* Bardhaman Science Centre in association with District Youth Office, Purba Burdwan organized the District Level Science Fair-2019 on 24 and 25 September 2019. 151 schools student from 151 Institutions and 3 students from 3 college participated.

Participation In Vigyan Samagam

BITM participated with a prototype of 'Particle Accelerator' in the Vigyan Samagam, a mega-science exhibition held at Science City, Kolkata from 4 November to 31 December 2019. The exhibition was organized by Dept. of Atomic Energy (DAE), Dept. of Science and Technology (DST) and National Council of Science Museums (NCSM), Ministry of Culture, Govt. of India.

Health Awareness Programme

* BITM in collaboration with Prof. J. J. Ghosh Foundation and Society for Nutrition & Dietetics organized a Popular Lecture by Dr. Kunal Sarkar, Cardiac Surgeon, Medica Super Specialty Hospital on 'Medicine: Yesterday, Today and Tomorrow', 'Nutritional Assessment by Anthropometry for school children' by Society for Nutrition & Dietetics, Demonstration of 'Measuring Body Mass Index (BMI)' and Sit & Draw Contest on occasion of World Health Day on 8 April, 2019. 260 students from 18 schools participated.

* NBSC, Siliguri, in association with Medica Cancer Hospital, Rangapani, organized a 'Health Awareness Programme' on 31 August 2019. Various activities like Open House Quiz, Lecture by Dr. Rituparna Biswas, Cancer Specialist of Medica Cancer Hospital on 'Detection, Treatment and Prevention of Common Cancers in India'.

Collaborative Seminars

* NBSC Siliguri, in collaboration with Petroleum Conservation Research Association, Ministry of Petroleum and Natural Gas, Govt. of India organized a Seminar on Energy Conservation & Savings on 26 August 2019.

* BITM organized a seminar on 'Water: Crisis and Conservation' in collaboration with Institute of Science, Education & Culture on 23 November 2019.

* SSC, Patna organized district level Children Science Congress on 19 October 2019 in collaboration with National Children Science Congress. Selected students from 9 divisions of Bihar participated. 270 students, teachers and general public visited.

* BITM and in collaboration with Amateur Radio Convention and Conference Samity organized a Seminar on the occasion of World Amateur Radio Day on 18 April, 2019. 200 students including Bharat Scouts and Guides attended.

* BITM, in collaboration with, Institute of Science Education and Culture, organized a Seminar on 'Iswar Chandra Vidyasagar's Thoughts on Education' on 8 February 2020. Audience – 65.

* BITM observed the Birth Anniversary Celebration of Acharya P. C. Ray in collaboration with Acharya Prafulla Chandra Sammelani on 2 August 2019. Eminent personalities spoke on the different aspects of 'Life and Works of Acharya Prafulla Chandra Ray'.

INTERNATIONAL LEVEL COLLABORATION

Eco Art Contest

* BITM, Kolkata organized an Eco Art Contest for on 22 and 23 April 2019. 500 students participated in Sit & Draw and Poster Painting Competition. The event was organized in collaboration with U. S. Consulate General Kolkata and South Asian Forum for Environment.

* Shrikrishna Science Centre, Patna organized an Eco Art Contest on 'Greener World Through Art' on 17 January 2020. 240 students from 15 schools participated. It was organized in collaboration with U. S. Consulate General Kolkata and South Asian Forum for Environment.

Science Film Festival on "Humboldt & the Web of Life" in collaboration with Goethe Institute & Max Mueller Bhavan, New Delhi

* BITM organized a Science Film Festival from 13 November to 23 December, 2019. 4328 students enjoyed 23 shows.

* District Science Centre, Purulia organized a Science Film Festival on 3 and 4 December, 2019. 464 students and teachers took part.

* Shrikrishna Science Centre, Patna organized a Science film festival based on 'Humboldt & the Web of Life' on 19 & 20 December 2019. 220 students and teachers participated.

* Bardhaman Science Centre organized a Science Film Festival from 4 to 6 November, 2019. The Festival was inaugurated by Shri Bhaskar Mukhopadhyay, SP, Purba Bardhaman. 366 students participated. A workshop was also organized on the 'Use of Science in Daily Life'.

* Digha Science Centre organized the Film Festival from 25 November till 1 December, 2019.

* North Bengal Science Centre organized the Film Festival from 14 to 20 November, 2019. Shri Asok Bhattacharya, Mayor, Siliguri Municipal Corporation inaugurated.

Popular Lecture

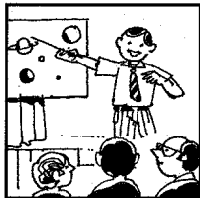
* BITM in collaboration with National Geographic India organized a lecture session by Prof. Somak Raychaudhury, Director, The Inter-University Centre for Astronomy and Astrophysics, Pune on 'Chandrayan 2' on 30 August 2019. 260 students from 12 Schools participated.

* BITM and British Council organized a lecture by Prof. Lewis Dartnell, University of West Minster on 'Astrobiology – the Hunt for Alien Life' on 27 July 2019. 232 students participated.

CATALYTIC SUPPORT

* Bargarh Science Centre in the district of Bargarh, Odisha was developed by BITM, on behalf of NCSM and handed over to the Govt. of Odisha on January 21 2020 in presence of Shri Naveen Patnaik, Hon'ble Chief Minister of Odisha.

* The renovation work of Digital Planetarium, 3D Theater, Innovation Hub and Science Park at Sikkim Science Centre, Gangtok were executed by BITM, as per request made by DST, Govt. of Sikkim, in February 2020.



Special Events

Diamond Jubilee Celebration of BITM

Birla Industrial & Technological Museum, Kolkata celebrated its Diamond Jubilee on 2 May 2019. Prof. M. Jagadesh Kumar, VC, Jawaharlal Nehru University inaugurated a new Gallery on 'Digital Adventure' and three new exhibitions, namely, Mind over Matter: A tribute to Stephen Hawking, 60 Years of BITM and 'Biodiversity of East Kolkata Wetlands'. Other educational events organized were a Lecture by Dr. Shyamal Chakrabarti, Calcutta University on 'Journeys from Alchemy to Chemistry', Dance Drama 'Manav Se Mahatma', by Uttaran, a unit of Harijan Sevak Sangha, Quiz on 'Elements of the Periodic Table', Science Show on 'Magical Chemistry', Workshop on 'Periodic Picnic', Painting Competition 'Beat The Plastic Pollution' and Exhibit Hunt Competition 'Know Your Museum'. More than 250 ex-employees of BITM took part in a reminiscence programme. A Musical Band Troupe from Modern High School for Girls added an extra dimension to the inaugural programme. A School Principals meet was organized on 26 and 31 July 2019. 225 heads of schools responded. Smt. R. Vimala, State Project Director, Samagra Shiksha Abhijan and Shri Kartick Manna, Chairman, Kolkata District Project, Samagra Shiksha Abhijan addressed the Principals.

National Science Drama Festival

BITM organized the National Science Drama Festival 2019-20 on 9 January, 2020. Shri Manish Jain, IAS, Principal Secretary, School Education, Govt. of West Bengal inaugurated the Festival in the presence of Shri Vinay Sharma, Artistic Director, Padatik Theatre and Smt. Gouri Basu, Director, Eastern Zonal Cultural Centre. 10 teams with 100 students (winners and runners from East, West, North, South and North East) performed. Yog Sonawane, Children's Academy, Mumbai, Maharashtra was adjudged the Best Actor, Shreya Rao, Indraprastha Vidyalaya, Uppinangady, Karnataka was the Best Actress, Abid P. T., Government Oriental Higher Secondary School, Pattambi, Palakkad, Kerala got the Best Directors award and Best Script Writer was Meghamanti Bhattacharya, Gokhale Memorial Girls' School, Kolkata, West Bengal. A workshop for Drama participants was conducted by Ashoke Vishwanathan on 8 January 2020.

Chandrayaan 2

BITM arranged live streaming of the soft landing of the Chandrayaan 2 lander on 6 September night with feed from ISRO and National Geographic. A Giant screen was set up in BITM lawn. Hon'ble Shri Jagdeep Dhankar, Governor of West Bengal along with more than a thousand enthusiasts were present. All units under BITM arranged similar programmes.

Observation of Partial Solar Eclipse on 26 December 2019

- * BITM, Kolkata made arrangements for observation of partial solar eclipse through telescope.
- * NBSC made arrangements for solar filter fitted on windows for viewing the eclipsed Sun directly. A panel exhibition and Quiz was arranged.
- * DSC Purulia arranged for viewing the Partial Solar Eclipse. 57 visitor took part.
- * SSC Patna organized viewing of Partial Solar Eclipse. 900 visitors including students were present to see this astronomical event.

International Year of Periodic Table of Chemical Elements

- * Digha Science Centre organized a workshop on 'Know your Element' by Dr. Arati Mukhopadhyay, Ex-teacher, Howrah Jogesh Chandra Girls School to celebrate 150th Anniversary of Periodic Table. Quiz, Film show on 'Prof. APC Roy' was arranged. 56 students took part.
- * BITM, Kolkata, jointly with Kendriya Vidyalaya Sanghatan, conducted a workshop for KV teachers of North-East India and West Bengal on 11 June 2019. 53 teachers took part. They were exposed to making a 3D Periodic table of chemical elements. Chemical Reactions of different types with multi-media support. The teachers prepared 25 teaching aid kits.
- * BITM and Institute of Science, Education & Culture organized '150th Year Celebration of Periodic Table' on 14 September 2019. Speakers were Dr. Probir Mukherjee, Professor (Retd), Surendra Nath College, Kolkata, Prof. Susanta Lahiri, Professor, Saha Institute of Nuclear Physics, Kolkata and Dr. P. K. Sarkar, Bhabha Atomic Research Centre, Mumbai.
- * BITM In association with Royal Society of Chemistry, Eastern India Section organized an online Visual Interpretation of Periodic Table competition entitled 'Mendeleev Makeover - Online Visual Interpretation Contest' from 28 September to 24 November 2019. 80 Students participated from 25 schools. A panel of judges scrutinized them on 3 December, 2019.
- * NBSC, Siliguri, in association with Dept. of Chemistry, University of North Bengal organized a Scientific Symposium involving school and undergraduate college students on 18 and 19 December 2019 on the occasion of International Year of Periodic Table of Chemical Elements.

Swachh Bharat Mission

- * BITM organized a Popular Lecture, a Student's Rally and a four panel exhibition from 25 to 30 September 2019 as part of the 'Plastic Free Cleanliness Drive'. 360 students participated. The Swachhata Pledge, a cleaning drive, distribution of glass jugs and tumblers, Quiz on 'Plastic Pollution' were organized for staffs on 3 October 2019. An exhibition on Swachh Bharat Mission was organized by BITM and DAVP, Kolkata at BITM on 16 November 2019.
- * SSC Patna observed Swachhta Pakhwada fortnight from 16 April 2019. The programme included a Swachhta pledge, Cleaning Drive of the campus, office area, workshop, exhibits etc.
- * A Special Cleanliness Drive was undertaken by North Bengal Science Centre, Siliguri from 16 to 30 April 2019.
- * Swachhta Pakhwada was observed at DSC, Purulia from April 16 to 30 2019. Events organized were Quiz, Lecture and Drama. 800 students attended.

Centenary year of Jallianwala Bagh Massacre

- * BITM arranged a March by staff members and also organized Sit & Draw Competition, Quiz Competition and Film Show to commemorate the incident of Jallianwala Bagh Massacre, in its Centenary year, from 25 to 27 April 2019. Participating students - 941.
- * Digha Science Centre observed the Centenary of Jallianwala Bagh Massacre by organizing Student's March, Quiz, Extempore Talk, Lectures by Dr. Haripada Maiti, Mugberia Gangadhar Mahavidyalaya and Shri Nandagopal Patra, Digha D.J. Sikshasadan, on 13 April 2019. 108 students participated.
- * Bardhaman Science Centre observed 100 years of The Jallianwala Bagh Massacre from 13 April to 8 May, 2019 with a Film Show, Popular Lecture, Open House Quiz, Essay Writing Competition, Sit & Draw Competition. 549 students assembled.

* NBSC, Siliguri organized several programmes from 13 to 30 April, 2019 to commemorate Centenary of Jallianwala Bagh Massacre. They were Film show on Jallianwala Bagh Massacre, Visual Quiz and Sit & Draw Competition on India's Freedom Movement.

* DSC, Purulia observed the 100th year of Jallianwala Bagh Massacre from 13 to 30 April, 2019. Quiz and Lecture were organized. 200 students, teachers & guardians attended.

* Shrikrishna Science Centre, Patna organized Jallianwala Bagh Massacre Centenary programmes on 8 May 2019. The programmes held were a Film Show, Quiz and a Lecture by Prof. Imtiaz Ahmad (Retd), KhudaBaksh Oriental Library, Patna. 840 students attended.

150th Birth Anniversary of Mahatma Gandhi

* Innovation Hub members of Bardhaman Science Centre participated in a workshop on 'Grass Root Innovation' on 23 June 2019. 166 students took part in a workshop and Quiz on "Gandhian Philosophy" on 31 July 2019. Dr. Shiladitya Pujari, University Institute of Technology, Burdwan and Er. Faruk Bin Poyen, AEIE were present as resource persons.

* NBSC, Siliguri organized Plastic Free Cleanliness Drive on 1 and 2 October, 2019. Other events were Painting, Slogan Writing, Quiz Competitions, Science Drama, Poster Campaigning, Multimedia presentation on 'Mahatma'. Workshop on 'Waste to Wealth' were arranged.

* A Seminar on 'Innovative & Scientific Thought of Mahatma Gandhi' was organized on 22 November, 2019 at Digha Science Centre. 57 students & teachers participated.

* BITM and Regional Outreach Bureau organized an exhibition on 'Swachh Bharat Mission' on 26 November, 2019. Shri R. N. Mishra, DG (Eastern Zone), Ministry of I & B, GOI inaugurated.

Science Drama

* District Science Centre, Purulia, organized the District Level Science Drama Competition 2019 on 30 July 2019. Prof. Dipak Kumar Kar, Vice Chancellor of Sidho Kano Birsha University inaugurated. 6 school teams participated. Visitors – 250.

* North Bengal Science Centre Siliguri organized Unit Level Science Drama Competition on July 25 2019. The competition was inaugurated by Dr. Malay K Karanjai, Principal, GyanJyoti College. 5 schools participated.

* Bardhaman Science Centre organized District level Science Drama Contest on 26 & 27 July 2019. 15 teams from 15 institutions participated. 350 students enjoyed.

* Science Drama Competition 2019 was organized by Digha Science Centre on 23 July 2019. The programme was inaugurated by Shri Sujan Dutta, Executive Officer, DSDA. 6 school teams participated. 140 students enjoyed.

* Kolkata Science Drama Competition 2019 held on 24 and 25 July 2019. 15 school teams participated.

* West Bengal Science Drama Competition 2019 was held at BITM on 7 August 2019. 7 dramas from 6 Districts of West Bengal were staged.

* Eastern India Science Drama Competition was held on 21 August 2019. 5 states participated. Gokhale Memorial Girls' School, West Bengal was the winner.

* Bihar State Science Drama Competition 2019 was organized at SSC Patna on 9 August, 2019 in association with SCERT, Bihar. 9 drama teams from 9 divisions of Bihar participated.

COMMUNITY PROGRAMME

Programme for Specially Abled

Turning Point and BITM, jointly organized a programme entitled 'Open the Door' for mentally challenged students on 1 February, 2020. Poetry Writing, Poster Making Competition and Quiz were organized. 210 students participated.

Programme for Girls and Women

Digha Science Centre organized a sensitization programme on 'Harassment of Women at Workplace: Issues & Concerns' on 27 September 2019. Dr. Shashi Nath Mandal, Dept. of Law, Hooghly Mohasin College delivered a lecture.

Programme for Jail Inmates

Bardhaman Science Centre organized a 'Science Awareness Programme' at Bardhaman District Correctional Home Inmates on 27 May 2019. Popular Lecture, Quiz, Film Show on "Galileo Galilei", Chemistry Show and Sky Observation through Telescope were arranged.

Programme on COVID-19

* BITM organized a panel discussion on 'Containing Novel Corona Virus' on 14 February 2020. The panel experts were from All India Institute of Hygiene & Public Health, Kolkata and Indian Dietetic Association, Bengal Chapter. 210 students participated.

* NBSC in association with North Bengal Medical College & Hospital arranged a Panel Discussion on Novel Corona Virus on 12 February, 2020. Panelists were Prof. (Dr) Prabir Kumar Deb, Principal, NBMC&H. Other panellist were Prof. (Dr) Dipanjan Bandyopadhyay, Dr. Sandip Kumar Sengupta, and Dr. Nilanjana Ghosh, all from NBMC&H.

Outreach Sky Observation Programme

BITM arranged telescope viewing at residential complexes by developing a bus customized to accommodate the telescope inside. It was flagged off on 7 December, 2019 by Shri Subrata Mukherjee, Minister, Panchayat & Rural Development, Govt. of West Bengal.

HONOURS AND AWARDS

* The International Union of Pure and Applied Chemistry (IUPAC) have awarded the People's Choice Winner in Service & Education to a Workshop on Periodic Table organized by BITM entitled 'Periodic Picnic'. Adjudged on creativity, commitment and impact (votes received), the Workshop has been declared the Summer Winner on 28 July 2019 - IUPAC's 100th birthday.

* BITM was awarded a certificate from UN declaring BITM as a 'World Environment Hero' for its activities related to Environment.



Science Park

Museum/Centre	Area	No. of Exhibits	Date of Inauguration
<i>SSC, Patna</i>	1 acre	46	1979
<i>DSC, Purulia</i>	1 Acre	41	1977
<i>Science Centre Bardhaman</i>	3 Acre	46	1992
<i>Digha Science Centre</i>	1.7 Acre	30	1997
<i>N.B.S.C. Siliguri</i>	4.6 acres	29	1997



Science Demonstration Lecture

Museum/Centre	No. of Lectures held in Museum	No. of Students in Museum	No. of Lectures held outside	No. of Student outside
<i>BITM, Kolkata</i>	37	2934	83	17825
<i>SSC, Patna</i>	42	1688	119	188645
<i>DSC, Purulia</i>	24	5575	71	300214
<i>Sc.Cent.Bardhaman</i>	50	7564	39	1687
<i>N.B.S.C. Siliguri</i>	50	3470	59	27045
<i>Digha Science Centre</i>	99	9670	5	1260



Mobile Science Exhibition

Museum- / Centre	Theme of the Exhibit	No. of Exhibition Sites	No. of Exhibition days	No. of Film Shows	No. of visitors in film shows	No. of visitors in exhibitions	Km. Travelled
BITM, Kolkata	Heat & Temperature, 'Mathematics and Machines in Everyday life	77	186	103	28,507	2,03,225	3259
SSC, Patna	Popular Science Food & Health Machines in Everyday Life	119	354	119	1,88,645	6,34,292	8125
DSC, Purulia	Popular Science, Measurement, Food & Health	71	206	35	21,615	3,429,06	4225
Digha Science Centre	Water, Daily Life Chemistry	24	60	0	0	36,232	3108
Bardh. Sc. Cent.	Fun Science Measurement	56	137	64	50,517	2,00,743	2380
NBSC, Siliguri	Hands on Science Machines in Everyday Life	49	126	66	27,890	73,291	3876

MOBILE SCIENCE EXHIBITION at ASPIRATIONAL DISTRICTS

* BITM launched a MSE unit, 'Machines in Daily Life' on 5 September 2019 at Pannalal Institution, Kalyani. It was inaugurated by Shri S. K. Talukdar, Chairman, Kalyani Municipality.

* NBSC inaugurated a new MSE on "Machines in Everyday Life" at Balurghat High School, Dakshin Dinajpur on 5 September 2019. Dr. Sukanta Majumdar, MP, Balurghat, inaugurated.

* District Science Centre, Purulia launched two MSE buses on Measurement, Food & Health for the aspirational District of Bokaro, Jharkhand on the 19 September 2019 and the other for Birbhum district of West Bengal on 19th November, 2019.

* Bardhaman Science Centre inaugurated an MSE on 'Measurement' on 19 September 2019 on 19 September 2019 at Bibhuti Bhusan High School, District – Malda, West Bengal.

* Digha Science Centre Inaugurated a new MSE on 'Water and Daily Life Chemistry' at Goaljan Refugee High School, Murshidabad, West Bengal on 19 September 2019.

* SSC, Patna organized MSE on 'Machines in Everyday Life' and 'Food & Health' in the Aspirational districts of Bihar, such as, Aurangabad, Gaya, Purnea, Jamui, Sheikhpura & Muzaffarpur.



Exhibits Developed

	BITM, Cal	SSC, Patna	SC, Bardh	DSC, Puru	NBS- C, Sili	DSC, Digha
Gallery Exhibits	20	7	1	-	2	3
Duplicate Exhibits	0	-	-	-	-	-
Park Exhibits	10	1	4	2	4	5
MSE Exhibits	40	20	-	-	-	-
Kits/Aids	0	-	-	-	-	-
Duplicate Kits/Aids	0	-	-	-	-	-
Temporary Exhibition Exhibits	15	-	-	-	-	-
Total	85	28	05	02	06	08

Exhibit Developed during 2019-20

BITM, Kolkata

Gallery Exhibits

Rare Artefacts

1. Surveyor's Transit Theodolite
 2. 16 mm Movie Projector
 3. Stereoscopic Slide Viewer
 4. View Master
 5. Radio : Superhet
 6. Bell's Electromagnetic Telephone
 7. Wall type CB Telephone with Detachable Earpiece
 8. Pedestal type CB Telephone
 9. Neumann's Disc Recording Machine
 10. His Master's Voice (HMV) Gramophone
 11. Wall type Telephone with Receiver
 12. Wall type Automatic Telephone with Detachable Earpiece
 13. Mechanical Calculator
 14. Rotary Duplicating Machine
- ##### Motive Power
15. Power : The Rate of doing work
 16. The Machine Age Begins

SRSC, Kokrajhar

17. Musical Tubes
18. Spinning Eraser
19. Rising Arc
20. Floating Dish

Park Exhibits

1. Giant Yo-Yo (SRSC, Kokrajhar)
2. Echo Tube (-do-)
3. ISIS Speaks (-do-)
- 4 - 7. Exhibit on Body fitness - 4 nos. (BITM)
- 7 - 10. Magic Water Tap - 3 sets (BITM)

MSE Exhibits

MSE Unit: Machines in Everyday Life

1. Simple Machine: Lever
2. Simple Machine: Inclined Plane
3. Simple Machine: Wheel and axle
4. Simple Machine: Pulley
5. Keeping Time: How Clock Works
6. Powering the Wheel
7. Generators
8. Motors
9. Transformer: The Efficient Machine
10. Home Appliances and Saving Energy

11. Solar Power
12. Machines in Infrastructure Development
13. Rack and Pinion
14. Drives in Machines
15. Agricultural Machineries-I
16. Agricultural Machineries-II
17. Agricultural Machineries-III
18. Cell Phone: The Smart Machine
19. Machines in Digital Age/Digital Machines
20. Quiz
21. Quiz
22. Machines in Digital Age
23. Hydroponic
24. Agricultural Machinery: Field Chopper
25. Agricultural Machinery: Potato Harvester
26. Powering the Wheel
27. Generator
28. Rack & Pinion
29. Drives in Machines
30. Mobile Phone: The Smart Machine
31. Simple Machine: Lever
32. Simple Machine: Inclined Plane
33. Simple Machine: Wheel & Axle
34. Simple Machine: Pulley
35. Time Keeping Machines
36. Machines in Infrastructure Development
37. Solar Devices
38. Home Appliances & Energy Saving
39. Transformer
40. Motor

Temporary Exhibition Exhibits

Reminiscence – 60 Years of BITM

1. The Genesis
2. A Dream Comes True
3. Initial Years (1959 -1964)
4. Milestones – I
5. Milestones – II
6. Milestones – III
7. Milestones –IV
8. Milestones – V
9. Science on Wheels
10. Supplementing School Education
11. Educational Activities – I
12. Educational Activities – II
13. Precious Possessions
14. Interactions to Remember
15. People Behind

SSC, Patna

Gallery Exhibits

1. Colour Venture
2. Interference of Sound
3. Plastic in ocean
4. How submarine works
5. Bermuda mystery
6. Kaleidoscope
7. Ocean Currents
8. Tug of War

MSE Exhibits

1. Simple Machine Lever
2. Simple Machine: Inclined plane
3. Simple machine: Wheel and axle
4. Simple Machine Pulley
5. Keeping Time: How clock works
6. Powering the Wheel
7. Generators
8. Motors
9. Transformer: The Efficient Machine
10. Home Appliances and Saving Energy
11. Solar Power
12. Machines in infrastructure (Excavator)
13. Rack and Pinion
14. Drivers in Machines
15. Agricultural Machineries-I
16. Dumper truck
17. Cement mixing truck
18. Cell phone : The smart machine
19. Machines in Digital Age
20. Quiz

SC, Bardhaman

Gallery Exhibit

1. Augmented Reality

Park Exhibits

1. Energy Drum
2. Aerobic Exercise
3. Turn Twister
4. Giant Yo-Yo

DSC, Purulia

Park Exhibits

1. Magic Water tap
2. Archimedes Screw

NBSC, Siliguri

Gallery Exhibits

1. Pyramid Hologram
2. Musical Pipes

Park Exhibits

1. Swing is a Pendulum
2. Sympathetic Swing
3. Action – Reaction
4. Magic Water Tap

DSC, Digha

1. Interactive Wall Designer
2. Energy Drum,
3. Pendulous Platform,
4. Magic Tap I
5. Inclined Plane,
6. Lift yourself
7. Pulley
8. Jurassic Park

**Science Education**

	BITM, Calcut- ta	SSC, Patna	DSC, Purulia	Sc. Cent. Bardh	NBSC, Siliguri	Digha Sc. Cent
Digital Planetarium Shows						
Shows held	-	1493	-	-	1984	2249
Visitors	-	57560	-	-	61462	54258
Popular Lecture						
No. of Lectures	13	13	10	16	16	17
Audience	2730	1952	2255	3540	1852	1850
Taramandal Show						
No. of Shows	577	-	752	553	356	389
Audience	6396	-	18510	13128	6907	5574
Science Quiz						
Contests	57	49	23	50	54	50
Participa- nts	1413	1205	2635	112	2580	377
Visitors	2600	3020	3738	2234	660	489
Sky Observation						
No. of Prog. held	45	53	40	58	44	35
Visitors	2645	3520	1856	1167	2834	729

POPULAR LECTURE

BITM, Kolkata

1. Dr. Sutapa Sanyal, Krishnanagar Govt. College	Protect Our Species	22.04.2019
2. Dr. Kunal Sarkar, Cardiac Surgeon, Medica	Medicine: Past, Present and Future	08.04.2019
3. Prof. Syamal Chakraborty, Calcutta University	From Alchemy to Chemistry	03.05.2019
4. Mr. Manas Bagchi, Curator, NCSM	Black Hole	28.05.2019
5. Prof. Lewis Dartnell, University of West Minister	Astrobiology: Hunt for Alien Life	27.07.2019
6. Prof. Somak Raychawdhury, Director IUCAA, Pune	Chandrayan-2 Mission	30.08.2019
7. Dr. Punarbasu Choudhuri, Ballygunge Science College	Plastic Pollution	25.09.2019
8. Prof. Rajesh Kumble Nayak, IISER, Kolkata	Our Place in Cosmos	23.10.2019
9. Dr. Sanjib Ganguly Prof. ,Dept. of Chemistry, St. Xavier's College, Kolkata	Impact of Periodic Table on Biological Processes	30.11.2019
10. Dr. Partha Karmakar Deputy Secretary (Academic), WB Board of Secondary Education	Shortcut Techniques and Fundamental Concepts of Mathematics	23.12.2019
11. Prof. Ena Roy Banerjee Dept. of Zoology, Ballygunge Sc. College	Popularisation of Science	14.01.2020
12. Dr. Madhumita Dobe, Director-Professor, All India Institute of Hygiene and Public Health Kolkata, Dr. Ramendra Narayan Chaudhuri, Director-Professor, All India Institute of Hygiene and Public Health Kolkata, Ms. Mitali Palodhi Consultant nutritionist and Dietician, National Vice President, Indian Diabetic Association, Bengal Chapter	Containing Novel Coronavirus	14.02.2020
13. Dr. Uday Bandyopadhyay Director, Bose Institute, Kolkata	Gastrointestinal Disorder	29.02.2020

Bardhaman Science Centre

22.04.2019	Dr. I D Mishra, Nehru Vidyamandir	Make Every Day, Earth Day
26.04.2019	Dr. Naryan Chandra Chattopadhyay Burdwan University	Fun in Botany
18.05.2019	Dr. Subrata Chattopadhyay, UIT, Burdwan	Botanical Museums
05.06.2019	Dr. Biswaranjan Mistry, Burdwan University	Earthquake: Causes & Effects
06.06.2019	Dr. Nabakumar Mondal, Burdwan University	Water Crisis in India
07.06.2019	Shri Nikhilesh Biswas, DSO, Bardh. Sc. Centre	Global Warming
09.06.2019	Shri Rajnarayan Das, Bardhaman Science Centre	Pollution and your Impact
11.07.2016	Dr. Shashi Nath Mondal, Dy Director of Public Instruction, Govt. of West Bengal	Waste management in Burdwan District
15.09.2019	Amiya Kumar Kalidaha, S & T Dept, Govt of W.B	India & Modern Technology
31.10.2019	Shri Budhadeb Das, DYO, Paschim Burdwan	Role of Sardar V. Patel
14.11.2019	Dr Biswaranjan Mistry, Burdwan University	Process of Abstraction in Human Cognitive Space and Development of Science
10.11.2019	Shri Suhas Ray. BMCH, Burdwan,	Overweight and Obesity
21.12.2019	Amiya Kumar Kalidaha, S & T Dept, Govt of W.B	The Role of Creative and Innovative Mindset
09.01.2020	Smt. Mouli Sanyal, DPO, SSM, Purba Bardhaman	Science for all
28.02.2020	Smt. Mouli Sanyal, DPO, SSM, Purba Bardhaman	Coronavirus and its Effect
08.03.2020	Dr. Parthaprotim Mukherjee, Principal, Malda Medical College	Gender Equality and Women's Empowerment

NBSC, Siliguri

20.04.2019	Shri. Biplab Ray, Eminent Environmentalist	Protect Our Species
08.05.2019	Dr. Gouri Dey, Gyan Jyoti College, Siliguri	Impact of Jallianwala Bagh Massacre on Indian Freedom Movement
22.05.2019	Shri. Biplab Ray, Retd. Teacher, N.P.H.S. School, Naxalbari	Our Biodiversity, Our Food, Our Health
06.06.2019	Shri Ritabrata Biswas, PC, NBSC	Air Pollution
21.06.2019	Swami Jibananandaji Maharaj Sri Ramkrishna Vivekananda Ashram, Sahudangi, Jalpaiguri	Yoga for Peace and Harmony
22.07.2019	Dr. Manas Pratim Das, Fellow, WAST	50 Years of Moon Landing
31.08.2019	Dr. Rituparna Biswas, Cancer Specialist, Medica Cancer Hospital	Detection, Treatment and Prevention of Cancer in India
14.09.2019	Shri Bipin Gupta, Teacher Bharati Hindi Vidyalaya	III Effects of Tobacco on Human Health
16.09.2019	Shri Biswajit Kundu, Edu. Officer, NBSC	Ozone Layer Depletion & Climate Change
18.12.2019	Dr. Abhjit Roy, Professor (Retd.), University of North Bengal	Periodic Table: The Wonder of Chemistry
19.12.2019	Prof. Pranab Ghosh, University of North Bengal	Natural Combination of Elements and their Applications
19.12.2019	Prof. Bhaskar Biswas, University of North Bengal	Evolution of Periodic Table and Bio-elements
22.12.2019	Shri Swapanendu Nandi, Headmaster, Haiderpara Buddha Bharati High School	Fun of Mathematics
22.12.2019	Shri. Rathin Paul, Secretary, Raj Kishor Bose Mathematical Society, Siliguri	Story of Maxima and Minima in Mathematics
22.01.2020	Dr. Ranadhir Chakraborty University of North Bengal	Future Innovations in Science & Technology
28.02.2020	Dr. Malay K. Karanjai, Principal, Gyan Jyoti College	Prof. C. V. Raman and Raman Effect

District Science Centre, Purulia

22.04.2019	Dr. Subrata Raha, S.K.B University, Purulia.	Aquatic Plant or Hydrophytes of Saheb Badh
23.04.2019	Shri Dhruvajyoti Chattopadhyay, DSO, DSC, Purulia	Jallianwala Bagh
18.05.2019	Shri Dhruvajyoti Chattopadhyay, DSO, DSC, Purulia	First Dist. Sc. Centre in India
05.06.2019	Shri Dhruvajyoti Chattopadhyay, DSO, DSC, Purulia	Benefits & Usefulness of Yoga
21.06.2019	Shri Sudin Adhikari, Yoga Teacher, Purulia	To Create Global Communities of Heart Heroes
28.09.2019	Dr. Subhendu Mishra, Eminent Cardiologist	Indian Scientists and their Work
10.11.2019	Shri Prayabrata Mukherjee, Nistarini College, Purulia	Indian Women Scientist - Bibha Chowdhuri
15.10.2019	Shri Dhruvajyoti Chattopadhyay, DSO, DSC, Purulia	Partial Solar Eclipse
26.10.2019	Shri Pankaj Sarkar, J.K. College, Purulia	Indian Women Scientist
28.02.2020	Shri Dhruvajyoti Chattopadhyay, DSO, DSC, Purulia	

Digha Science Centre

02.05.2018	Shri Palash Chaterjee, Guest Faculty, M.P. Birla Institute of Fundamental Research, Kolkata	Our Solar System
21.06.2018	Sk. Abdul Rahim, President, Patanjali Yoga Samati, Egra	International Yoga Day Celebration
20.07.2018	Shri Ratan Kumar Chakraborty, Ex-education Officer, BITM	The Apollo Mission and First Moon Landing by Men
17.08.2018	Dr. I. Mishra, eminent Hindi Teacher	Hindi as an official language in India
01.10.2018	Shri Samya Basu, Ex-Education Officer, WWF, India	Human & Elephant Interaction
10.11.2018	Prof. (Dr.) Parthasarathi Mujumder, Senior Professor, Ramkrishna Mission Vivekananda Education and Research Institute, Belur Math, Howrah	Science & Technology
14.12.2018	Prof. (Dr.) Parthasarathi Mujumder, Senior Professor, Ramkrishna Mission Vivekananda Education and Research Institute, Belur Math, Howrah	Conservation of Energy and Use of Renewable Sources
04.02.2019	Dr. Sankar Kumar Nath, Ex-oncologist, R.G. Kar Medical College, Kolkata	Food & Cancer
04.02.2019	Dr. Sukanta Mukherjee, Senior Oncologist, Onlalink, Moulali, Kolkata.	Role of Micronutrient on Food and Nitration
14.02.2019	Dr. Surajit Das, H.O.D, Dept. of Zoology, Kabi Nazrul College, Muraral, Birbhum	Mosquito borne diseases, Malaria, Filariasis, Dengue
14.02.2019	Dr. Debadin Bose, Kabi Nazrul College, Muraral, Birbhum	Bioinformatics
28.02.2019	Shri Binoy Bhusan Das, Ramnagar College, Ramnagar, Purba Medinipur	National Science Day : Raman & Galileo's Life
13.03.2019	Dr. Debiprosad Duari, Director, Research & Academic, M.P. Birla Institute of Fundamental Science, Kolkata	A New view of the Solar System
22.03.2019	Shri Debojyoti Panda, Teacher of Physics, Aniruddha High School, Ramnagar	Water Crisis of India - Past, Present & Future

SSC, Patna

22.04.2019	Shri S. Chandrasekhar, IFS Conservator, Dept. of Forest & Environment, Bihar	Biodiversity of Bihar
08.05.2019	Prof. Imtiyaz Ahmad (Retd) Khuda Baksh Oriental Library, Patna	Jallianwala Bagh Massacre
05.06.2019	Dr. Zoyita Das, Patna Women's College, Patna	Air Pollution
14.11.2019	Doctors of Ruban Memorial Hospital, Patna	Increasing threat of diabetes
25.11.2019	Dr. Ravi Gupta, Environmentalist	Role of Civil Society
12.12.2019	Shri Amitabh, PC SSC Patna	Idea Hunt
19.12.2019	Prof. Amarendra Sinha, Science College, Patna	Imagination and Science
20.12.2019	Prof. (Dr) M.P Trivedi, Science Cllege, P.U.	DNA: The base of life
26.12.2019	Shri Vishwanath Gupta, Edn. Officer, SSC Patna	Partial Solar Eclipse
27.01.2020	Shri G.S. Rautela, Former DG NCSM	Innovation and its Importance
27.01.2019	Shri G.S. Rautela, Former DG NCSM	Learning Wrong Science
28.02.2020	Md. Aftab Hussain, Edn. Asstt. SSC Patna	Women in Science
07.03.2020	Md. Aftab Hussain, Edn. Asstt. SSC Patna	Women in Science

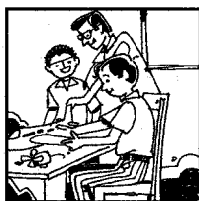


Science Fair

Name of the Museum	Dates	Level	No. of Schools/ Colleges	No. of Students and teachers	No. of Science Clubs	No. of Projects	Visitors
SSC Patna	27.01.2020 to 28.01.2020	District Level	-	503	-	219	860
SC., Bardhaman	12.09.2019 to 13.09.19	District Level	157	287	-	157	5872
DSC Purulia	04.02.2020 to 06.02.2020	District	25	121	-	93	11,957
NBSC, Siliguri	20.01.20 to 22.01.20	Unit	28	113	02	67	6981
BITM, Kolkata	25.09.2019 to 26.09.2019	Kolkata District	94	285	-	94	9698
	14.01.2020 to 18.01.2020	Eastern India Science Fair	153	387	-	160	
		Science and Engineering Fair	15	45	-	15	

The 46th Eastern India Science & Engineering Fair was organized by BITM during 14 to 18 January, 2020 at BITM, Kolkata. Shri Jagdeep Dhankhar, Hon'ble Governor of West Bengal inaugurated in the presence of Mr. Nick Low, British Deputy High Commissioner, Kolkata and Prof. Dhrubajyoti Chattopadhyay, Vice Chancellor, Sister Nivedita University, Kolkata. Shri D. P. Duari, Director, Research and Academics, M. P. Birla Planetarium and Shri A. K. Chandra, Managing Director, P. C. Chandra Group gave away the prizes on 18 January, 2020. The fair was supported by M/s. P. C. Chandra Group, MCKV Institute of Engineering and Titagarh Wagaons Limited.

* DSC, Purulia organized a Science Festival 2020 from 4 to 6 February, 2020. Painting Competition, Open House Quiz, Science Show, Model Display and Night Sky Observation were organized. Prof. (Dr.) Dipak Kumar Kar, Vice Chancellor, S-K-B University, Purulia inaugurated. 11,957 visitors attended.



Creative Ability Centre

Name of the Museum	BITM Calcutta	SSC Patna	DSC Purulia	SC. Cen Bardha	NBSC Siliguri	Digha Science Centre
Projects completed in Museum CAC	215	26	32	15	15	11
Students Participated	101	20	16	19	91	71
Vacation Hobby Camps	18	11	5	4	6	1
Projects completed in above	180	445	40	28	364	5
Students Participated	372	169	102	42	91	33

Workshops for Students

* BITM Kolkata organized a workshop on 'Mathematics' on 27 and 30 September, 2019. 112 students participated. 25 students participated in a workshop on 'Mathematics' on 30 January, 2020 at the Innovation Hub at BITM.

* BITM Biotech Lab organized a workshop on 'Basics of Biotechnology' on 18 and 19 December, 2019. 22 members took part.

* SSC, Patna organized a Capacity Building workshop related to Inspire Award Manak 2019 on 9 and 13 December, 2019 at Hajipur.

* BITM hosted a workshop on 'Science Film Making' by Prof. Jyotirmoy Deb, Techno India University on 28 February 2020 at BITM. Participants – 20.

* Bardhaman Science Centre organized a workshop on 'Intellectual Property Right (IPR)' on 22 December 2019. 180 students participated.

* BITM organized mentored workshops 'Periodic Picnic' on 6 May 2019 and 6 January 2020. The second one was part of the concluding ceremony of the Mendeleev Makeover Visual Interpretation Contest, organized by BITM and Royal Society of Chemistry, Eastern India Section.

* A workshop on 'Human Rights' was organized on 4 August 2019 at Digha Science Centre in collaboration with Promise for Human Rights and Development, an NGO. 35 school students participated.

* National Selection Examination in Astronomy (NSEA) was conducted at North Bengal Science Centre on 24 November, 2019. 42 students enrolled.



Science Seminar

Topic - 'Periodic Table of Chemical Element: Impact on Human Welfare'

Name of the Museum	Date	Level	No. of Schools	No. of Students Participated	Audience
BITM, Kolkata	28.08.2019 29.08.2019	District	62	62	400
	04.09.2019	State	8	12	333
SSC, Patna	20.09.2019	State	18	18	107
DSC, Purulia	28.08.2019	District	21	21	150
NBSC, Siliguri	22.08.2019	District	17	17	120
Digha Science Centre	27.08.2019	District	16	16	79
Bardhaman Science Centre	26.08.2019	District	28	28	157

State Level Seminars on 'Periodic Table of Chemical Element: Impact on Human Welfare'

* BITM, Kolkata, in association with Dept. of Youth Services & Sports, Govt. of West Bengal and Royal Society of Chemistry, Eastern India Section organized the West Bengal Students' Science Seminar 2019 on 4 September, 2019. Shri Firhad Hakim, Mayor of Kolkata and Minister, Urban Development & Municipal Affairs, Govt. of West Bengal inaugurated.

* SSC Patna and SCERT, Bihar organized the State Level Science Seminar on 20 September, 2019. 9 students spoke on 'Periodic Table of Chemical Elements : Impact on Human Welfare'. Audience - 150.

Training and Workshop for Teachers

* BITM, Kolkata organized orientation programme for 17 District Project Officers of Paschim Banga Samagra Shiksha Mission on 29 April 2019. This training programme was arranged under Rashtriya Abishkar Abhijaan Project. The event was inaugurated by Ms. R. Vimala, State Project Director, Paschim Banga Samagra Shiksha Abhijaan.

* BITM organized four workshops for teachers on Mathematics, Chemistry, Biology and Physics from 22 to 30 July, 2019. 273 teachers from 170 schools participated.

* BITM, Kolkata organized a Teacher's Workshop on Physics, Chemistry, Biology and Mathematics from 16 to 20 September, 2019. 75 teachers from 15 schools developed 27 projects.

* Shrikrishna Science Centre Patna conducted a training programme from 4 to 6 April 2019 for the B.Ed students of Patna Women's College, Patna University. 49 students participated.

Training Contd.

* Shrikrishna Science Centre organized a Teachers Training programme from 17 to 19 August 2019 for the science teachers of Aga Khan Foundation, Patna. 20 B.Ed teachers were trained to make simple class room teaching kits related to Physics, Life Science, Electricity, Electronics, Mathematics and Chemistry.

* A teachers training programme was organised by SSC, Patna for a team of 26 science instructors of Agastya Foundation, Patna. Low cost Science kits were fabricated on different topics - physical science, electronics, chemistry and biology.

* Teachers Training Programme was organized at Digha Science Centre for the Trainee Teachers on 14th and 15th February 2020. 52 candidates participated in 5 projects.

* Bardhaman Science Centre organized a Teachers' Training Programme from 12 to 14 September 2019. 34 teachers from 19 Institutions participated. 12 kits were developed.

* DSC, Purulia organized a Teachers' Training Programme on Hands-on Demonstrations on Physics & Chemistry using TLM from 26 to 28 February, 2020. 40 teachers attended.



Training

	BITM Cal	SSC Patna	DSC Purulia	SC.Cen Bardha	NBSC Siliguri	Digha Sc. Cen
Teachers' Training Programme						
No. of Programmes	9	5	2	1	1	1
No. of Teachers	401	139	16	34	28	52
No. of Teaching Aids Developed	69	502	16	12	56	5
Computer Training Programme						
No. of programmes	0	0	0	4	0	0
No. of Trainees	0	0	0	65	0	0

REGULAR PUBLIC DEMONSTRATION LECTURE

Science Shows on : Science Magic & Miracle, Super Cold, Surprising Chemical Reactions, Fun Science, Egg-cellent / Fire-y-Tale and Balls, Balloons & Bubbles.

Name of the Centre	No. of Programmes	No. of Audience
BITM, Kolkata	1563	110791
SSC, Patna	713	21395
NBSC, Siliguri	685	43649
DSC, Purulia	517	18588
Bardhaman Science Centre	371	26918
Digha Science Centre	347	15579

• 3D SHOW

Name of the Centre	No. of Programmes	No. of Audience
BITM, Kolkata	2338	85231
SSCPatna	2029	81165
NBSC Siliguri	2382	70308
Digha Science Centre	2481	73132
DSC, Purulia	1192	26978
Bardhaman Science Centre	1834	31298

• SCIENCE ON A SPHERE

SSC, Patna	1069	42760
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• SHOWS IN PREHISTORIC LIFE PARK

Name of the Centre	No. of Shows	No. of Visitors
District Science Centre, Purulia	437	-

• CHROMAKEY SHOW

Name of the Centre	No. of Shows	No. of Visitors
BITM, Kolkata	924	29832

• MATH DEMO

Name of the Centre	No. of Shows	No. of Visitors
BITM, Kolkata	149	5419

• UNDERGROUND COAL MINE DEMONSTRATION

Name of the Centre	No. of Shows	No. of Visitors
BITM, Kolkata	2966	79815

• SHOWS IN SPARK THEATRE

Name of the Centre	No. of Shows	No. of Visitors
BIT M, Kolkata	1069	42760

OBSERVANCE OF IMPORTANT DAYS

Birla Industrial & Technological Museum, Kolkata

- * World Health Day on 8 April 2019
- * World Amateur Radio Day - 18 April 2019
- * Earth Day - 22 and 23 April 2019
- * Commemoration of Jallianwala Bagh Massacre on its Centenary year - 25 to 27 April 2019
- * Diamond Jubilee of BITM - 2 May 2019
- * International Museum Day - 18 May 2019
- * Environment Day - 6 June 2019
- * 5th International Day of Yoga - 21 June 2019
- * Birth Anniversary of Acharya P. C. Ray - 2 August 2019
- * Swatchh Bharat Mission and Plastic Free Cleanliness Drive - September to November 2019
- * Hindi Week - 14 to 20 September 2019
- * Vigilance Awareness Week - 28 October 2019
- * Rashtriya Ekta Diwas - 31 October 2019
- * International Science Center and Science Museum Day - 10 November 2019
- * Children's Day - 14 November 2019
- * National Mathematics Day - 23 & 24 December 2019
- * Constitution Day Celebration - 26 November 2019
- * National Science Day - 28 February 2020
- * International Year of Periodic Table of Chemical Elements and 100th anniversary of the International Union for Pure and Applied Chemistry (IUPAC) - Year long activity
- * 150th Birth Anniversary of Mahatma Gandhi - Year long activity

Digha Science Centre

- * Earth Day - 22 April 2019
- * International Museum Day - 18 May 2019
- * World Environment Day - 5 June 2019
- * International Day of Yoga - 21 June 2019
- * 22nd Anniversary Day - 31 August 2019
- * Moon Landing Day - 20 July 2019
- * World Heart Day – 29 September 2019
- * International Science Centre Day - 10 November 2019
- * Children Day - 14 November 2019
- * National Energy Conservation Day - 14 December 2010
- * National Science Day - 28 February 2019

Shrikrishna Science Centre, Patna

- * Earth Day -22 April 2019
- * World Population Day - 11 July 2019
- * World Diabetes Day
- * World Environment Day - 5 June 2019
- * Swachhta Pakhwada - 16 - 30 April 2019
- * International Yoga Day - 21 June 2019
- * Birth Anniversary of late Dr Shrikrishna Singh - 21 October 2019
- * National Science Day on 28 February 2020

North Bengal Science Centre, Siliguri

- * Earth Day - 22 April 2019
- * International Museum Day - 18 May 2019
- * International Day for Biological Diversity - 22 May 2019
- * World Environment Day - 5 June 2019
- * International Day of Yoga - 21 June 2019
- * Anniversary Day – 17 August 2019
- * Teachers' Day - 5 September 2019
- * Hindi Day - 14 September 2019
- * World Ozone Day - 16 September 2019
- * Rashtriya Ekta Diwas - 31 October 2019
- * International Science Centre and Science Museum Day - 10 November 2019
- * Children's Day - 14 November 2019
- * Samvidan Divas (Constitution Day) - November 26 2019
- * National Mathematics Day - 22 December 2019
- * National Science Day – 28 February 2020
- * International Women's Day – 8 March 2020

Bardhaman Science Centre

- * Earth Day -22 April 2019
- * International Museum Day - 18 May 2019
- * World Environment Day 5 June 2019
- * International Day of Yoga - 21 June 2019
- * World Population Day - 11 July 2019
- * Ozone Day - 16th September 2019
- * Hindi Week from 14 to 21 September 2019
- * Wildlife Week 1 to 7 October 2019
- * 150th Birth Anniversary of Gandhi
- * Vigilance Awareness Week -29 October 2019
- * Birth Anniversary of Sardar Vallabhai Patel / National Unity Day (Rastriya Ekta Divas) -31 October 2019

Observance of Important Days (Contd.)**Bardhaman Science Centre (Contd.)**

- * International Science Centre & Science Museum Day - 10 November 2019
- * Children's Day -14 November 2019
- * National Pollution Control Week - 1 to 7 December 2019
- * National Science Day - 28 February 2020,
- * International Women's Day - 8 March 2020

District Science Centre, Purulia

- * Earth Day - 22 April 2019
- * Jalianwala Bagh Centenary – 13 April to 12 May 2019
- * International Museum Day – 18 May 2019
- * World Environment Day 5 June 2019
- * International Day of Yoga - 21 June 2019
- * Hindi Day - 14 September 2019

District Science Centre, Purulia (Contd.)

- * World Heart Day - 29 September 2019
- * Vigilance Awareness Week - 28 October to 2 November 2019
- * International Science Centre & Science Museums Day – 10 November 2019
- * Children Day – 14 November 2019
- * 37th Anniversary Day of DSC, Purulia – 15 December 2019
- * National Mathematics Day – 22 December 2019,
- * Partial Solar Eclipse – 26 December 2019
- * National Science Day – 28 February 2020
- * Year long Constitution Day Events

Library Holding

Name of the Museum	Items	Total holding as on 01.04.2018	Acquired during the year	Written-off during the year	Total holding as on 31/3/2019
BITM, Kolkata	Books	16469	44	-	16513
	Brochure	2975	26	-	3001
	Journals	8595	32	-	8727
	Films/Cassettes	919	-	-	919
	CDs	679	-	-	679
SSC, Patna	Books	2282	-	-	2282
	Journals	1356	-	-	1356
DSC, Purulia	Books	1143	-	-	1143
	Films	43	-	-	43
	Cassette	17	-	-	17
	CDs	58	-	-	58
NBSC, Siliguri	Books	379	-	-	379
	Films	5	-	-	5
	CDs	15	-	-	15
Digha Science Centre	Books	283	-	-	283
	CDs	27	-	-	27
Science Centre Bardhaman	Books	211	13	-	224
	Journals	291	12	-	303
	CDs	27	-	-	27
	Films	21	-	-	21
	Video Cassettes	02	-	-	01

Staff Strength

Name of the Museum/Centre	Scientific	Technical	Administrative	Total
BITM, Calcutta	6	55	41	102
SSC, Patna	2	11	7	20
DSC, Purulia	-	6	4	10
Sc.Cent. Bardhaman	-	8	5	13
Digha Sc. Centre	1	9	3	13
Siliguri Sc. Centre	1	8	5	14

Personnel

Retirement / Resignation/ Death				
Museum / Centre	Name Shri/Smt.	Designation at the time of Retirement /Death/Completion	Date of Retirement or Release / Death/Completion	Remarks
BITM	Dibakar Biswas	O.A. Gr. I	30.06.19	Retirement
BITM	Satinath Banerjee	Tech 'F'	30.06.19	Retirement
SSC, Patna	Rama Prasad Singh	Tech 'C'	31.07.19	Retirement
SC, Burdwan	B. Chongdar	Tech 'E'	02.08.19	Expired
BITM	Dr. A. Mondal	Curator 'G'	31.10.19	Retirement
BITM	S. K. Dutta	Tech 'E'	31.12.19	Retirement
Appointment				
Museum / Centre	Name Shri/Smt.	Designation	Date of Appointment	Remarks
DSC, Digha	Marghoob Enam	O.A. Gr. III	13.05.19 (FN)	
SSC, Patna	Dilip Kr. Bhagat	Tech 'A'	20.05.19 (FN)	
BITM	Md. Sajid Chakdar	Tech 'A'	21.06.19 (AN)	
BITM	Jhantu Sanbui	Tech 'A'	02.09.19 (FN)	
BITM	Susmita Saha	O.A. Gr. III	01.01.20 (FN)	
DSC, Purulia	Bankim Chandra Mohanti	Driver	03.01.20 (FN)	
BITM	Sohom Banerjee	O.A. Gr. III	08.01.20 (FN)	
SSC, Patna	Ashish Kumar	O.A. Gr. III	17.01.20 (FN)	

Promotion				
Museum / Centre	Name Shri / Smt	Designation before promotion	Designation after Promotion / upgradation	Date of promotion / upgradation
SSC, Patna	Bashistha Roy	Tech 'E'	Tech 'F'	23.04.19
SC, Burdwan	Swapan Roy	Tech 'E'	Tech 'F'	23.04.19
SSC, Patna	Gadadhar Mahapatra	Tech 'F'	Tech 'G'	23.04.19
BITM	Sumit Mazumder	Tech 'F'	Tech 'G'	23.04.19
SC, Burdwan	Mahadeb Panja	Driver Gr. I	Driver Spl. Grade	23.04.19
DSC, Purulia	Gurupada Das	Driver Gr. I	Driver Spl. Grade	23.04.19
SSC, Patna	Indrajeet Kumar	Driver Ordinary Gr.	Driver Gr. II	23.04.19
BITM	Khela Murmu	Driver Ordinary Gr.	Driver Gr. II	23.04.19
BITM	Palash Khanra	Tech 'B'	Tech 'C'	01.05.19
BITM	Subrata Roy	Tech 'B'	Tech 'C'	01.05.19
BITM	Bimal Kr. Debnath	Tech 'B'	Tech 'C'	01.05.19
BITM	Chandan Maity	Tech 'B'	Tech 'C'	01.05.19
BITM	Sanat Mondal	Tech 'B'	Tech 'C'	01.05.19
SSC, Patna	Nanda Dulal Das	Tech 'A'	Tech 'B'	01.05.19
SSC, Patna	Ashok Kumar	Tech 'C'	Tech 'E'	01.05.19
BITM	Dr. A. Mondal	Curator 'F'	Curator 'G'	06.08.19
BITM	Ranajit Kr. Majhi	O.A. Gr. II	O.A. Gr. I	13.08.19
BITM	T.K. Bhattacharya	Tech. Officer 'C'	Tech Officer 'D'	14.08.19
DSC, Digha	Dilip Kr. Maity	O.A. Gr. III	O.A. Gr. II	01.10.19
NBSC, Siliguri	B.B. Roy	O.A. Gr. III	O.A. Gr. II	01.10.19
SSC, Patna	Durgawati Sukla	O.A. Gr. III	O.A. Gr. II	01.10.19
BITM	Kamal Mondal	Tech 'F'	Tech 'G'	15.10.19

Promotion				
Museum / Centre	Name Shri / Smt	Designation before promotion	Designation after Promotion / upgradation	Date of promotion / upgradation
BITM	P.K. Mitra	Artist 'F'	Artist 'G'	15.10.19
NBSC, Siliguri	Amarendra Nath Mondal	Tech. 'F'	Tech 'G'	15.10.19
BITM	T.K. Morduney	Tech. 'F'	Tech 'G'	15.10.19
BITM	Prabir Ghorai	Tech 'B'	Tech 'C'	15.10.19
NBSC, Siliguri	Avik Banerjee	Edu. Asstt. 'B'	Edu Officer 'A'	15.10.19
DSC, Digha	Pijus Halder	Tech 'E'	Tech 'F'	04.02.20
BITM	Dilip Malakar	Tech 'E'	Tech 'F'	04.02.20
BITM	Srimanta Karmakar	Tech 'E'	Tech 'F'	04.02.20
BITM	Kamal Kr. Modak	Tech 'B'	Tech 'C'	04.02.20
BITM	Chandan Sadhukhan	Tech 'B'	Tech 'C'	04.02.20
NBSC, Siliguri	Dilip Kr. Sen	Tech 'B'	Tech 'C'	04.02.20
NBSC, Siliguri	Manik Saha	Tech 'B'	Tech 'C'	04.02.20
BITM	Meghnath Purkait	Tech 'B'	Tech 'C'	04.02.20
DSC, Purulia	Bidhan Chandra Ganai	Tech 'B'	Tech 'C'	04.02.20
SC, Burdwan	Shyamal Sarkar	Tech 'B'	Tech 'C'	04.02.20
BITM	Debangshu Chatterjee	Edu. Asstt. 'B'	Edu Officer 'A'	04.02.20
BITM	Prabir Kr. Sarkar	Tech 'F'	Tech 'G'	04.02.20
SSC, Patna	Viswanath Gupta	Edu. Officer 'B'	Edu Officer 'C'	13.03.20
BITM	Chandan Das	Exh. Officer 'E'	Chief Exh. Officer	13.03.20

MACP		
Museum/ Centre	Name and Designation of Shri / Smt.	Date of upgradation
SSC, Patna	B. K. Sivanunni, Jr. Stenographer	12.05.11 (OM dated 04.03.20)
SSC, Patna	Durgawati Sukla, O.A. Gr. III	09.04.19
BITM	Ajoy Ray, O.A. Gr. III	09.04.19
NBSC, Siliguri	Prakash Ghosh, O.A. Gr. III	19.10.19
BITM	Dipankar Pal, O.A. Gr. III	02.03.20

Retirement / Resignation/ Death				
Museum / Centre	Name Shri/Smt.	Designation at the time of Retirement /Death/Completion	Date of Retirement or Release / Death/Completion	Remarks
BITM	Dibakar Biswas	O.A. Gr. I	30.06.19	Retirement
BITM	Satinath Banerjee	Tech 'F'	30.06.19	Retirement
SSC, Patna	Rama Prasad Singh	Tech 'C'	31.07.19	Retirement
SC, Burdwan	B. Chongdar	Tech 'E'	02.08.19	Expired
BITM	Dr. A. Mondal	Curator 'G'	31.10.19	Retirement
BITM	S. K. Dutta	Tech 'E'	31.12.19	Retirement
Appointment				
Museum / Centre	Name Shri/Smt.	Designation	Date of Appointment	Remarks
DSC, Digha	Marghoob Enam	O.A. Gr. III	13.05.19 (FN)	
SSC, Patna	Dilip Kr. Bhagat	Tech 'A'	20.05.19 (FN)	
BITM	Md. Sajid Chakdar	Tech 'A'	21.06.19 (AN)	
BITM	Jhantu Sanbui	Tech 'A'	02.09.19 (FN)	
BITM	Susmita Saha	O.A. Gr. III	01.01.20 (FN)	
DSC, Purulia	Bankim Chandra Mohanti	Driver	03.01.20 (FN)	
BITM	Sohom Banerjee	O.A. Gr. III	08.01.20 (FN)	
SSC, Patna	Ashish Kumar	O.A. Gr. III	17.01.20 (FN)	

Transfer				
Museum / Centre	Name S/Shri/Smt.	Transfer from	Transfer to	Date of Transfer
NCSM Hqrs.	Mantu Ch. Das	NCSM Hqrs.	DSC, Purulia	08.04.19 ~AN~
NCSM Hqrs.	Abhijit Bala	On completion of preplacement training at CRTL	Posted at BITM, Kolkata	31.05.19 ~AN~
BITM	Saikat Sikdar	BITM	NCSM Hqrs.	03.06.19 ~AN~
DSC, Purulia	Biswaroop Das	DSC, Purulia	DSC, Digha	17.06.19 ~AN~
DSC, Digha	Suman Karmakar	DSC, Digha	DSC, Purulia	17.06.19 ~AN~
BITM	Sudipta Saha	BITM	RSC, BBSR	30.06.19 ~AN~
Sc City, Kolkata	Avik Banerjee	Sc. City, Kolkata	NBSC, Siliguri	12.07.19 ~AN~
SSC, Patna	Ram Swaroop	SSC, Patna	NSC, Delhi	21.07.19 ~AN~
BITM	Khela Murmu	BITM	NCSM Hqrs.	31.01.20 ~AN~
SSC, Patna	Shyamal Sarkar	SSC, Patna	SC, Burdwan	15.02.20 ~AN~
BITM	Anindita Mondal	On completion of preplacement training at CRTL	Posted at BITM, Kolkata	28.02.20 ~AN~
SSC, Patna	Lalruatfela Renthlei	On completion of preplacement training at CRTL	Posted at BITM, Kolkata	28.02.20 ~AN~

EXPENDITURE

GIA / Salaries / General (Rs. in Lakhs)							
Particulars	BITM, Kolkata	SSC., Patna	D.S.C., Purulia	S.C., Bardh	Digha S.C.	N.B.S.C, Siliguri	Total
GIA Salaries	1174.58	133.60	63.90	100.89	87.29	102.69	1662.95
GIA General	1185.81	172.54	82.73	85.82	94.16	100.47	1721.53
Gross Exp.	2360.39	306.14	146.63	186.71	181.45	203.16	3384.48
Receipt	152.36	99.68	28.04	37.61	125.76	85.85	529.30
Net Exp.	2208.03	206.46	118.59	149.10	55.69	117.31	2855.18
GIA - CCA (Rs. in Lakhs)							
Gross Exp.	BITM, Kolkata	SSC., Patna	D.S.C., Purulia	S.C., Bardh	Digha S.C.	N.B.S.C, Siliguri	Total
Total Exp. (Gross) GIA - Salaries + General + CCA	2459.77	328.10	150.59	194.45	195.04	220.18	3548.13

Expenditure (2019-20) nnovation Hub (Rs. in Lakhs)							
Particulars	BITM, Kolkata	S.S.C., Patna	DSC Purulia	S.C., Bardh	DSC Digha	NBSC Siliguri	Total
Gross Exp	13.01	12.34	57.34	1059	14.40	9.72	117.40

COMMITTEE MEMBERS OF BITM AND SATELLITE UNITS

Executive Committee of BITM

Sl. No.	Name and Address
1	Prof. Sibaji Raha, Chairman Former Director, Department of Physics, Bose Institute, Unified Academic Campus, EN 80, Sector V, Bidhan Nagar, Kolkata – 700 091
2.	Prof. Rajib Bandyopadhyay, Member Dept. of Instrumentation and Electronics Engg., Jadavpur University, B-73-80, Plot No.8, Salt Lake Bypass, LB Block, Sector III, Salt Lake City, Kolkata -700 098
3.	Dr. Bhupati Chakraborty, Member Former Professor, Dept. of Physics, City College 23, Imbrahimpur Road, Jadavpur, Kolkata – 700 032
4.	Dr. Jayanta Sengupta, Member Secretary & Curator, Victoria Memorial Hall, 1, Queens Way, Kolkata – 700 071
5.	Mrs. Rupkatha Sarkar, Member Principal, La Martiniere for Girls, 14, Rowdon Street, Kolkata – 700 017
6.	Shri Vinay K. Goenka, Member Executive Chairman, Warren Tea Ltd. Suvira House, 4B, Hungerford Street, Kolkata – 700 017
7.	The Secretary or his nominee, Member Dept. of School Education, Govt. of West Bengal Bikash Bhavan, 5 th & 6 th floor, DF Block, Sector 1, Salt Lake City, Kolkata – 700 091
8	The Director (Museums), Ex-officio Member Ministry of Culture, Govt. of India 323-C Wing, Shastri Bhawan, Dr. Rajendra Prasad Road, New Delhi : 110 015
9	Shri A. D. Choudhury, Ex-officio Member Director General, National Council of Science Museums 33, Block – GN, Sector – V, Bidhan Nagar, Kolkata – 700 091
10	Shri V. S. Ramachandran, Ex-officio Member Director, Birla Industrial and Technological Museum, 19A, Gurusaday Road Kolkata – 700 019
11	Shri Rajib Nath, Ex-officio Member Curator 'E', BITM, 19A, Gurusaday Road, Kolkata – 700 019.
12	Shri Subhashis Paul, Non-member Secretary Dy. Controller of Administration BITM, 19A, Gurusaday Road, Kolkata – 700 019.

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Former Professor, Dept. of Physics, City College,
23, Imbrahimpur Road, Jadavpur Kolkata – 32
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5. **Shri Anindya Narayan Biswas IAS**, Member
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Govt. of West Bengal, 7th floor, DF Block, Sector-
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Govt. of West Bengal, Bikash Bhawan, Salt Lake,
Kolkata – 700 091
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11. **Shri Rajib Nath**, Member
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12. **Dr. Abdullah Mondal**, Member Secretary
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6. **Shri Subhashis Paul**, Ex-Officio Member
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9. **Invitee Members**
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11. **Shri Sujan Dutta**, Member
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12. **Shri Niranjana Gupta**,
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Digha Science Centre
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