

कार्यकलाप प्रतिवेदन

Activity

र 2019-2020



National Science Centre

National Council of Science Museums, Ministry of Culture, Govt of India



Ministry of Culture
Government of India



कार्यकलाप प्रतिवेदन Activity Report

With Best Wishes

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2019-2020

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निदेशक की कलम से From Director's Desk



यह वार्षिक प्रतिवेदन मेरे कार्यकाल में प्रस्तुत होने वाला नवां संस्करण है, विभिन्न गतिविधियों एवं उपलब्धियों से भरे इस प्रतिवेदन को प्रस्तुत करने में मुझे अत्यंत प्रसन्नता हो रही है। इस वर्ष के दौरान राष्ट्रीय विज्ञान केंद्र, दिल्ली, आंचलिक विज्ञान नगरी, लखनऊ तथा कुरुक्षेत्र पैनोरमा और विज्ञान केंद्र, कुरुक्षेत्र की पूरी टीम ने निर्धारित लक्ष्यों को प्राप्त करने के लिए अथक परिश्रम किया। राष्ट्रीय विज्ञान केंद्र, दिल्ली ने 9,06,876 दर्शकों तक अपनी पहुँच बनाकर एक चुनौतीपूर्ण लक्ष्य प्राप्त किया। इसी प्रकार, आंचलिक विज्ञान नगरी, लखनऊ ने इस अवधि में 4,57,565 दर्शकों तक अपनी पहुँच बनाई। कुरुक्षेत्र पैनोरमा और विज्ञान केंद्र ने केंद्र के बाहर के कार्यक्रमों के दर्शकों को शामिल करते हुए, 13,21,456 दर्शकों तक अपनी पहुँच बनाई। मुझे यह बताते हुए खुशी हो रही है कि, इस वर्ष के दौरान, उत्तरी क्षेत्र ने पच्चीस लाख से अधिक दर्शकों तक अपनी पहुँच बनाई।

राष्ट्रीय विज्ञान केंद्र, दिल्ली उत्तर भारत क्षेत्र में नए विज्ञान केंद्रों और सुविधाओं को स्थापित करने के साथ-साथ पूरे वर्ष नियमित रूप से अच्छी गुणवत्ता वाले शैक्षिक कार्यक्रम आयोजित करने में व्यस्त रहा। उप-क्षेत्रीय विज्ञान केंद्र, पालमपुर की स्थापना का काम पूरा हो चुका है। जून 2020 के अंत तक इस परियोजना का उद्घाटन होने की संभावना है। उत्तराखंड के अल्मोड़ा में उप-क्षेत्रीय विज्ञान केंद्र की स्थापना की जा रही है, जिसके भवन का निर्माण कार्य शुरू हो गया है। यह परियोजना दिसंबर 2021 तक पूरी होने की संभावना है। संस्कृति मंत्रालय, भारत सरकार द्वारा संबद्ध **सांस्कृतिक गतिविधियों के वित्तीय सहायता योजना** के तहत, रा. वि. स. प. ने माता मनसा देवी मंदिर, पंचकुला और श्री काली माता मंदिर, कालका में ऑडियो सिस्टम की स्थापना को पूरा किया और उन्हें मनसा देवी ट्रस्ट को सौंप दिया।

It gives me a great pleasure in presenting this year's activity report – the ninth in a row in my tenure – which was full of activities and achievements. During the year the entire team of National Science Centre, Delhi, Regional Science City, Lucknow and Kurukshetra Panorama & Science Centre, Kurukshetra worked relentlessly in achieving the targets laid down. Amidst a challenging market, National Science Centre, Delhi garnered an overall footfall of 9,06,876. Similarly, the Regional Science City, Lucknow recorded the annual visitors of 4,57,565 during this period. Including visitors in outreach programmes, Kurukshetra Panorama & Science Centre received 13,21,456 visitors during this period. I am delighted to inform that in all, the North Zone has surpassed two and a half million clients during this year.

NSC, Delhi was very much engaged in setting up new science centres and facilities in the north zone as well as regularly organised quality educational programmes throughout the year. Setting up work of Sub-Regional Science Centre, Palampur has been completed. The project is likely to be inaugurated by the end of June 2020. Setting up of Sub-Regional Science Centre at Almora, Uttarakhand has been taken up. Excavation work has been completed and the building has come up partially. The project is likely to be completed by December 2021. Under the **Scheme for Financial Assistance for Allied Cultural Activities** of MoC, NCSM completed the installation of audio system at Mata Mansa Devi, Panchkula & Shri Kali Mata Temple, Kalka and handed over the same to the Mansa Devi Trust.



संस्कृति मंत्रालय, भारत सरकार के **आभासी वास्तविकता** और **संवर्धित वास्तविकता** परियोजना 'धरोहर' के अंतर्गत कार्य करने हेतु रा. वि. स. प. ने भारतीय पुरातत्व सर्वेक्षण के साथ समझौता ज्ञापन पर हस्ताक्षर किए। प्रस्ताव के लिए अनुरोध पत्र का एक मसौदा तैयार किया गया है और इस परियोजना को रा. वि. स. प. मुख्यालय द्वारा लिया जाना है। दिल्ली के द्वारका में **चुनाव और लोकतंत्र संग्रहालय** स्थापित करने के लिए भारत निर्वाचन आयोग (ई.सी.आई.) के साथ समझौता ज्ञापन पर हस्ताक्षर करने के बाद, उसके डिजाइन अभिन्यास के साथ प्रदर्शों का सूचीकरण और अनुक्रम निर्धारित किया गया और इसे अनुमोदन हेतु भारत निर्वाचन आयोग को प्रस्तुत किया गया। भारत निर्वाचन आयोग ने इस योजना को मंजूरी दी और इस परियोजना के लिए एक विशेषज्ञ समिति का गठन किया, जिसने प्रदर्श अवधारणाओं के अनुक्रम में कुछ और बदलाव का सुझाव दिया है। डिजाइन को अंतिम रूप देने के लिए भारत निर्वाचन आयोग की स्वीकृति की प्रतीक्षा है। राष्ट्रीय विज्ञान केंद्र, दिल्ली को संस्कृति मंत्रालय द्वारा इलाहाबाद संग्रहालय (प्रयागराज, उ. प्र.) में **चंद्रशेखर आज़ाद गैलरी** की स्थापना की जिम्मेदारी दी गई थी। अवधारणा डिजाइन तैयार किए गए और राज्यपाल, उ. प्र. को प्रस्तुत किए गए। अभी आज़ाद गैलरी के लिए स्थान आवंटित किया जाना बाकी है, वर्तमान में इस परियोजना को लंबित रखा गया है। संस्कृति मंत्रालय, भारत सरकार के आदेशानुसार, रा. वि. स. प. ने विभिन्न वैज्ञानिक प्रदर्शों और उपकरणों सहित 25 भ्रमणशील विज्ञान प्रदर्शनी बसें विकसित की। भारत के आकांक्षित जिलों के लिए भ्रमणशील विज्ञान प्रदर्शनी की परियोजना को औपचारिक रूप से **श्री प्रहलाद सिंह पटेल, माननीय संस्कृति और पर्यटन राज्य मंत्री (स्वतंत्र प्रभार)** ने 05.09.2019 को लद्दाख के प्रतिष्ठित लेह पैलेस से हरी झंडी दिखाई। राष्ट्रीय विज्ञान केंद्र, दिल्ली ने उद्घाटन का समन्वय किया और स्कूली बच्चों के लिए लेह, लद्दाख में महीने भर के प्रदर्शनी कार्यक्रम की शुरुआत की। भ्रमणशील विज्ञान प्रदर्शनी के निर्माण के लिए वैज्ञानिक सामग्री एकत्र करने हेतु, रा. वि. स. प. ने विज्ञान और प्रौद्योगिकी विभाग और उसके संगठनों के साथ भागीदारी की।

Regarding Virtual Reality and **Augmented Reality** project of MoC under 'Dharohar' project of Gol, NCSM has signed MoU with ASI for implementing the project. A draft RFP has been prepared and the project is to be taken up by NCSM HQ. Subsequent to the signing of MoU with Election Commission of India (ECI) for setting up **Election and Democracy Museum** in Dwarka, Delhi, listing and sequencing of exhibits was made along with their design layouts and submitted to ECI for approval. ECI approved the plan and constituted an expert committee for this project which has suggested some more changes in sequencing of exhibit concepts. Final approval is awaited to finalise the design. NSC, Delhi was given the responsibility of setting up of **Chandrasekhar Azad Gallery** in the Allahabad Museum, (Prayagraj, UP) by Ministry of Culture. The concept designs were prepared and presented to the Governor, UP. As the site is yet to be finally allotted, the project is currently put on hold. At the behest of MoC, NCSM developed 25 MSE buses with all exhibits and equipment. This MSE project for aspirational districts of India was formally flagged off by **Shri Prahlad Singh Patel, Hon'ble Minister of State for Culture and Tourism (I/C)** on 05.09.2019 from the iconic Leh Palace in Ladakh. NSCD coordinated the inauguration and started month long exhibition programme in the Leh, Ladakh for school children. For creating the content, NCSM partnered with Department of Science & Technology and its organizations.

राष्ट्रीय विज्ञान केंद्र, दिल्ली ने 'ऊर्जा' विषय पर भ्रमणशील विज्ञान प्रदर्शनी हेतु प्रदर्शों के 3 सेट विकसित किए जिनमें ऊर्जा और मनोरंजन विज्ञान पर विज्ञान व्याख्यान किट के 3 सेट शामिल हैं। पहली बार रा. वि. स. प. में, राष्ट्रीय विज्ञान केंद्र, दिल्ली ने अपनी प्रत्येक भ्रमणशील विज्ञान प्रदर्शनी इकाई को अनूठी आभासी वास्तविकता पर आधारित शैक्षिक सामग्री के साथ सुसज्जित किया जो कि हेड माउंटेड डिस्प्ले का उपयोग करके अनुभव किया जा सकता है।

केंद्र द्वारा दर्शकों को अद्भुत स्थानों की आभासी यात्रा का अनुभव देने हेतु एक नई सुविधा 'फैंटेसी राइड' की शुरुआत की गई जो 15-18 सीट युक्त एक राइड सिम्युलेटर है। इस सुविधा का उद्घाटन केंद्र की वर्षगांठ के अवसर पर 09.01.2020 को डॉ मनोज कुमार पटैरिया, वैज्ञानिक -जी और सलाहकार, एन.सी.एस.टी.सी., विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार द्वारा किया गया था।

प्रबंध निकाय, रा. वि. स. प., के सुझाव के अनुसार हर्बल गार्डन का विकास केंद्र की एक छत पर किया जा रहा है और यह काम जल्द ही पूरा होने वाला है। इसी प्रकार पारंपरिक चिकित्सा पद्धतियाँ विशेष रूप से भारतीय चिकित्सा पद्धति की समृद्ध चिकित्सा विरासत को चित्रित करने के लिए पारंपरिक चिकित्सा नामक एक चलायमान प्रदर्शनी भी विकसित की जा रही है। विभिन्न संगठनों जैसे-

National Science Centre Delhi developed 3 sets of MSE exhibits on 'Energy' including 3 sets of travelling SDL kits on Energy and Fun Science. For the first time in the Council, NSCD has equipped each of its MSE units with unique **VR based educational content** to be experienced using head mounted displays.

The Centre started a new facility of 'Fantasy Ride' consisting of 15-18 seater ride simulator in which visitors can experience virtual journey to amazing places. The facility was inaugurated by **Dr. Dr. Manoj Kumar Patariya, Scientist 'G' & Advisor, NCSTC, DST, Govt. of India** on 09.01.2020 on the occasion of anniversary of the Centre.

As per the suggestion of Governing Body, NCSM, a Herbal Garden is under development at one of the terraces in the building and this work is on the verge of completion. Similarly, a travelling exhibition titled '**Traditional Medicine**' to portray the rich medical legacy of Traditional Systems of Medicine particularly Indian Medicinal Systems is also under development. After



आयुष, राष्ट्रीय होम्योपैथी संस्थान आदि के साथ परामर्शी बैठक के बाद इस प्रदर्शनी के प्रदर्श सामग्री को अंतिम रूप दिया जा चुका है। यह 30 पैनल प्रदर्शनी 4 खंडों में विभाजित है-स्वास्थ्यप्रद परंपरा, पारंपरिक भारतीय चिकित्सा, पारंपरिक से आधुनिक और सम्पूर्णत्मक चिकित्सा।

मान महल में 06.07.2019 को स्थापित आभासीय अनुभूति संग्रहालय का दौरा माननीय प्रधानमंत्री श्री नरेंद्र मोदी द्वारा किया गया जिसकी व्यवस्था राष्ट्रीय विज्ञान केंद्र, दिल्ली द्वारा की गई। आभासीय अनुभूति संग्रहालय का उद्घाटन भारत के माननीय प्रधानमंत्री द्वारा 19.02.2019 को वाराणसी में कई अन्य परियोजनाओं के उद्घाटन के साथ किया गया था। इस दौरे के समय प्रधानमंत्री के साथ श्री जे पी नहुा और कई अन्य गणमान्य व्यक्ति भी उपस्थित थे।

केंद्र के स्वागत कक्ष पर **कोरोना वायरस** विषय पर आठ पैनलों की प्रदर्शनी लगाई गई है। इस प्रदर्शनी में कोरोना वायरस के बारे में विवरण, इसका प्रसारण; लक्षण और उपचार; इसके विश्वव्यापी प्रकोप और सामान्य सलाह के बारे में जानकारी दी गई है।

consultative meeting with different organizations such as AYUSH, National Institute of Homeopathy etc., the content has been finalized. This 30 panel exhibition is divided into 4 sections viz. Healing Traditions, Traditional Indian Medicine, and Tradition to Modernity and Integrative Medicine.

National Science Centre, Delhi made arrangements for conducting a guided tour for **Shri Narendra Modi, Hon'ble Prime Minister of India in the Virtual Experiential Museum of Varanasi** set up at Man Mahal on 06.07.2019. It was earlier inaugurated by the Hon'ble Prime Minister of India on 19.02.2019 along with several other projects in Varanasi. The PM was also accompanied by **Shri J. P. Nadda** and several other dignitaries.

'**Corona Virus**' exhibition comprised of eight panels including LED screen, details about Corona Virus, its transmission; symptoms & treatment; its worldwide outbreak and general advisories was also exhibited in the Centre.





एक पैनल प्रदर्शनी, जिसका शीर्षक **विज्ञान में नोबेल पुरस्कार** विजेताओं को समर्पित-एक प्रदर्शनी -2019' है, को रा.वि.के., दिल्ली में विकसित और स्थापित किया गया। इस प्रदर्शनी में छह पैनल शामिल हैं, जिसमें भौतिकी, रसायन विज्ञान और फिजियोलॉजी/मेडिसिन में नोबेल पुरस्कार -2019 के विजेताओं के कार्यों, आविष्कारों और खोजों एवं मानव जीवन पर उनके प्रभाव के बारे में बताया गया है।

केंद्र द्वारा **"सुपरबग: एंटीबायोटिक्स का अंत ?"** विषय पर चलायमान प्रदर्शनी के विकास में प्रदर्श सामग्री प्रदान की गई और इसे प्रदर्शित करने में भी सहयोग किया गया। इस प्रदर्शनी का उद्घाटन दिनांक 06.09.2019 को राष्ट्रीय विज्ञान केंद्र, दिल्ली में डॉ. हर्षवर्धन, माननीय केंद्रीय मंत्री, स्वास्थ्य और परिवार कल्याण विभाग, विज्ञान और प्रौद्योगिकी विभाग और पृथ्वी विज्ञान विभाग द्वारा श्री प्रहलाद सिंह पटेल, माननीय राज्य मंत्री, संस्कृति और पर्यटन विभाग (स्वतंत्र प्रभार) की अध्यक्षता में हुआ। इस प्रदर्शनी का आयोजन राष्ट्रीय विज्ञान संग्रहालय परिषद, भारत सरकार द्वारा विज्ञान संग्रहालय समूह, लंदन, वेलकम (यू.के.) और आई.सी.एम.आर. के सहयोग से किया गया। इस अवसर पर अन्य गणमान्य व्यक्ति प्रो. बलराम भार्गव, सचिव, डी.एच.आर. और महानिदेशक,

A panel exhibition titled **'The Tribute to Nobel Laureates-2019'** was developed and installed at NSC, Delhi. 'Nobel Laureates' exhibition comprised of six panels, introducing the Nobel Prizes-2019 winners in Physics, Chemistry and Physiology/ Medicine, about their invention and discoveries made by these scientists and their impact on human life.

The centre has provided content for development of exhibition and supported for setting-up of a travelling exhibition titled **"Superbugs: End of Antibiotics?"** at NSCD which was inaugurated on 06.09.2019 by Dr. Harsh Vardhan, Hon'ble Union Minister for Health and Family Welfare, Science & Technology, and Earth Sciences and presided over by **Shri Prahlad Singh Patel**, Hon'ble Minister of State (Independent Charge) for Culture and Tourism. This exhibition was organised by National Council of Science Museums (NCSM) in collaboration with Science Museum Group, London, Wellcome (UK) and supported by ICMR. Other dignitaries present on the occasion were Prof. Balram Bhargava, Secretary, DHR & DG, IC MR, **Dr. Renu Swarup**, Secretary,



आई.सी.एम.आर., डॉ. रेणु स्वरूप, सचिव, जैव प्रौद्योगिकी विभाग, भारत सरकार, सुश्री जान थॉम्पसन, भारत में उप-ब्रिटिश उच्चायुक्त, श्री जोनाथन न्यूबी, एम.डी., विज्ञान संग्रहालय समूह उपस्थित थे। केंद्र ने प्रदर्शनी के साथ लोकप्रिय विज्ञान व्याख्यान, चित्रकला प्रतियोगिता, वाग्मिता प्रतियोगिता, नुक्कड़ नाटक, विज्ञान प्रश्नोत्तरी, कॉमिक मेकिंग कार्यशाला, पैनल चर्चा आदि का आयोजन भी किया। प्रदर्शनी 17.11.2019 तक जारी रही और विद्यार्थियों सहित लगभग 2 लाख दर्शकों ने इसे देखा।

राष्ट्रीय विज्ञान केंद्र, दिल्ली ने 4 से 6 दिसंबर 2019 तक **विज्ञान सृजनोत्सव** का आयोजन किया। यह कार्यक्रम विज्ञान मेला, विज्ञान नाटक प्रतियोगिता, नवप्रवर्तन महोत्सव आदि जैसे कई कार्यक्रमों का एक बहुआयामी, एकल स्थल पर, विशाल उत्सव था। विज्ञान सृजनोत्सव - विज्ञान, कला और रचनात्मकता का संगम, का उद्घाटन 4 दिसंबर 2019 को भारत सरकार के प्रधान वैज्ञानिक सलाहकार प्रो० के० विजय राघवन ने किया। इस अवसर पर सम्मानित अतिथि के रूप में डॉ. डी. के. असवाल, निदेशक, सी.एस.आई.आर.- राष्ट्रीय भौतिक प्रयोगशाला, नई दिल्ली उपस्थित थे। विज्ञान मेले में 17 टीम और 30 व्यक्तिगत मॉडलों को प्रदर्शित किया गया।

Dept. of Biotechnology, Govt. of India, Ms. Jan Thompson, Deputy British High Commissioner to India, Mr. Jonathan Newby, MD, Science Museum Group. The Centre organised Popular Science Lectures, Poster Making Contest, Elocution Contest, Nukkad Natak, Open House Quiz, Comic Making workshop, Panel Discussion etc. as side events of the exhibition. The exhibition continued till 17.11.2019 and was visited by about 2 lakh visitors including students.

The National Science Centre, Delhi organised **Vigyan Srijanotsav** from 4th to 6th December 2019. This event was a conglomeration of various programmes such as science fair, science drama, innovation fair/festival etc. into a multi-faceted, single venue mega festival. '**Vigyan Srijanotsav - A Confluence of Science, Art & Creativity**' was inaugurated by Prof. K. Vijay Raghavan, Principal Scientific Adviser, Government of India on 4th December 2019, The Guest of Honour on the occasion was Dr. D. K. Aswal, Director, CSIR-National Physical Laboratory, New Delhi. 17 Team and 30 individual projects were displayed in Science Fair.

10 छात्र टीमों, उत्तरी राज्यों के सभी विजेताओं ने विज्ञान नाटक का प्रदर्शन किया। निजी कंपनियों सहित 28 युवा प्रवर्तकों ने नवप्रवर्तन मेले में अपने प्रोजेक्ट प्रस्तुत किए। 10 टीमों ने नवप्रवर्तन चुनौती प्रतियोगिता में भाग लिया। विज्ञान केंद्र में बनाए कार्यक्रम में प्रतिभागियों ने बेकार चीजों से नवीन मॉडल बनाए। इसके साथ, लोकप्रिय विज्ञान व्याख्यान, नुक्कड़ नाटक, विज्ञान प्रश्नोत्तरी, खाद्य में मिलावट की जाँच पर कार्यशाला, प्राथमिक चिकित्सा शिविर, बौद्धिक संपदा अधिकार और कृत्रिम बुद्धिमत्ता पर कार्यशाला का आयोजन किया गया। विजेताओं को आमंत्रित मुख्य अतिथि प्रो. एच.पी. सिंह, निदेशक, क्लस्टर इनोवेशन सेंटर, दिल्ली विश्वविद्यालय द्वारा 06.12.2019 को समापन समारोह में पुरस्कार और प्रमाण पत्र प्रदान किए गए। राष्ट्रीय विज्ञान केंद्र, दिल्ली परिसर में 12 स्थानों पर 3 दिनों की अवधि में आयोजित 15 विज्ञान एवं प्रौद्योगिकी आधारित गतिविधियों / कार्यक्रमों / प्रतियोगिताओं / प्रश्नोत्तरी/प्रदर्शनी के साथ, इस आयोजन ने न केवल युवा छात्रों के लिए वरन आम दर्शकों, जिनमें परिवार समूह सम्मिलित हैं, के लिए विज्ञान उत्सव का माहौल प्रदान किया। इस अवधि के दौरान छात्रों/ शिक्षकों सहित लगभग 12,000 लोगों ने विभिन्न कार्यक्रमों का आनंद लिया।

राष्ट्रीय विज्ञान केंद्र, दिल्ली में विज्ञान और प्रौद्योगिकी विभाग और परमाणु ऊर्जा विभाग के सहयोग से 21.01.2020 को अपनी तरह की पहली विशाल विज्ञान प्रदर्शनी- '**विज्ञान समागम -विज्ञान की सीमाओं का विस्तार**' का उद्घाटन किया। यह विशाल प्रदर्शनी 21.01.2020 से 20.03.2020 तक जनता के लिए प्रदर्शन में थी, जिसमें विभिन्न अंतर्राष्ट्रीय सहयोगी वैज्ञानिक उपक्रम जैसे यूरोपीयन आर्गनाइजेशन फॉर न्यूक्लियर रिसर्च (CERN) एंटीप्रोटोन और आयन रिसर्च सुविधा (FAIR); भारत-आधारित न्यूट्रिनो वेधशाला (INO); अंतर्राष्ट्रीय थर्मोन्यूक्लियर प्रयोग रिक्टर (ITER); लेजर इंटरफेरोमीटर गुरुत्वाकर्षण-वेव वेधशाला (LIGO); स्क्वायर किलोमीटर ऐरे (SKA); और थर्टी मीटर टेलीस्कोप (TMT) में भारतीय प्रौद्योगिकियों के योगदान को एक ही मंच पर दिखाया गया था। प्रदर्शनी में आलेख, मॉडल एवं प्रदर्श, श्रव्य-दृश्य सामग्री, इलेक्ट्रॉनिक प्रदर्शन और विशाल विज्ञान प्रोजेक्ट्स में से प्रत्येक के लिए संवादात्मक कियोस्क शामिल थे।

10 student teams, all winners from northern states performed science drama. 28 young innovators including private companies presented their projects in Innovation Fair. 10 teams participated in 'Innovative Challenge' contest. In 'Make it at Science Centre' event, participants made innovative models from scrap. In addition, Popular Science Lectures, Nukkad Natak, Science Quiz, workshop on Adulteration checking in Food, First Aid Camp, Intellectual property Right and Artificial Intelligence was organized. The winners received the prizes and certificates during valedictory function on 06/12/2019 from the invited chief guest, **Prof. H.P. Singh, Director, Cluster Innovation Centre, University of Delhi.** With 15 number S&T based activities/programs/ contests/ quizzes/expositions organized over a period of 3 days at 12 venues within the National Science Centre, Delhi campus, the event has provided science festivity and feast for not only young students but also for the general visitors (including family groups) to the Centre. About 12,000 people including the students/teachers attended the programmes during this period.

National Science Centre, Delhi in collaboration with Department of Science & Technology and Department of Atomic Energy inaugurated a first-of-its-kind mega science exhibition '**Vigyan Samagam – Pushing the Frontiers of Science & Technology**' on 21.01.2020. This mega exhibition was on display for public from 21.01.2020 to 20.03.2020 projecting the Indian contributions to cutting-edge technologies developed by various International collaborative scientific ventures by organizations such as European Organization for Nuclear Research (CERN); Facility for Antiproton and Ion Research (FAIR); India-based Neutrino Observatory (INO); International Thermonuclear Experiment Reactor (ITER); Laser Interferometer Gravitational-Wave Observatory (LIGO); Square Kilometre Array (SKA); and Thirty Meter Telescope (TMT), for the first time in the world, on a single platform. The Exhibition consisted of infographics, working models and exhibits, informative audio-visual content, electronic displays and interactive kiosks for each of the Mega Science Projects.



डॉ. जितेंद्र सिंह, केंद्रीय राज्य मंत्री (स्वतंत्र प्रभार), पूर्वोत्तर क्षेत्र विकास मंत्रालय, कार्मिक, लोक शिकायत और पेंशन, परमाणु ऊर्जा और अंतरिक्ष ने 21.01.2020 को प्रदर्शनी का उद्घाटन किया। इस अवसर पर अन्य गणमान्य व्यक्ति, डॉ. आर. चिदंबरम, भारत सरकार के पूर्व प्रमुख वैज्ञानिक सलाहकार, पूर्व अध्यक्ष, परमाणु ऊर्जा आयोग (AEC) और सचिव परमाणु ऊर्जा विभाग (DAE); डॉ. पॉल टी. पी. हो., खगोलविद और महानिदेशक पूर्वी एशियाई वेधशाला; श्री के.एन. व्यास, अध्यक्ष ए.ई.सी. और सचिव, डी.ए.ई. और प्रो० आशुतोष शर्मा सचिव, विज्ञान और प्रौद्योगिकी विभाग (डी.एस.टी.) उपस्थित थे। इस अवसर पर लगभग 450 शिक्षाविद् और वैज्ञानिक उपस्थित थे।

विज्ञान समागम के उद्घाटन कार्यक्रम के बाद 'विज्ञान स्टेज' कार्यक्रम के अंतर्गत विज्ञान, प्रौद्योगिकी और उद्योग के क्षेत्र के प्रख्यात वक्ताओं को विज्ञान वार्ता और व्याख्यान के लिए आमंत्रित किया गया था। 17 उद्योगों ने अपने उत्पाद और स्टॉल इस कार्यक्रम के दौरान केंद्र में प्रदर्शित किए। औद्योगिक पैनल चर्चा और औद्योगिक प्रदर्शनी का आयोजन किया गया जिसमें मेगा प्रोजेक्ट्स से जुड़े उद्योगों ने भाग लिया। इससे पहले, जनता के बीच व्यापक प्रचार और संवर्धन के लिए विज्ञान समागम कार्यक्रम पर 16.01.2020 को प्रेस वार्ता का आयोजन किया गया।

Dr. Jitendra Singh, Union Minister of State (I/C), Ministry of Development of North Eastern Region, MoS PMO, Personnel, Public Grievances and Pensions, Atomic Energy and Space inaugurated the exhibition on 21.01.2020. The other dignitaries were Dr. R. Chidambaram, Former Principal Scientific Adviser to Govt, Former Chairman, Atomic Energy Commission (AEC) and Secretary, Department of Atomic Energy (DAE); Dr. Paul T. P. Ho, Astrophysicist & Director General of East Asian Observatory; Shri K. N. Vyas, Chairman, AEC & Secretary, DAE and Prof. Ashutosh Sharma, Secretary, Department of Science and Technology (DST). About 450 academicians & scientists were present on the occasion.

The inaugural program of Vigyan Samagam was followed by 'Scientre Stage' event comprising of invited talks and lectures by eminent speakers from the field of science, technology and industry. 17 industries put up their products and stalls at NSC, Delhi during the inauguration. Industrial panel discussion and Industrial exposition was organised in which the associated industries with Mega Projects participated. Earlier, curtain raiser and press meet on Vigyan Samagam event was organised on 16.01.2020 for wide publicity & promotion among the masses.





स्विट्जरलैंड के दूतावास के सहयोग से 23 और 24 जनवरी 2020 को विज्ञान फिल्म महोत्सव का आयोजन किया गया। जिसमें स्विट्जरलैंड में निर्मित वैज्ञानिक फिल्मों छात्रों को दिखाई गई। फिल्म के बाद विज्ञान प्रश्नोत्तरी का आयोजन किया गया और विजेताओं को आकर्षक पुरस्कार दिए गए। विज्ञान समागम मेगा प्रदर्शनी के दौरान 'रा० वि० के० के साथ विज्ञान' कार्यक्रम का आयोजन किया। इस कार्यक्रम में प्रयोग आधारित प्रदर्शन 10, 17 और 24 फरवरी 2020 को क्रमशः स्टैटिक इलेक्ट्रिसिटी को समझें, निम्न ताप भौतिकी प्रदर्शन, खगोल में आकार और माप विषय पर आयोजित किए गए। परियोजना जागरूकता गतिविधियों के हिस्से के रूप में, विज्ञान समागम में प्रत्येक भाग लेने वाली परियोजना ने 'द वीक' कार्यक्रम के दौरान मेगा विज्ञान परियोजनाओं के संबंधित विषयों पर व्याख्यान, क्विज, कार्यशाला, सत्र और प्रदर्शनों की एक श्रृंखलाबद्ध प्रस्तुति की। इस अवधि के में 58 लोकप्रिय विज्ञान व्याख्यान और 25 कार्यशालाएं आयोजित की गईं। इसके उद्घाटन के बाद से 70000 से अधिक लोगों द्वारा विज्ञान समागम प्रदर्शनी का भ्रमण किया गया।

A **Science Film Festival** was organised on 23rd & 24th January 2020 in collaboration with Embassy of Switzerland. Science films from Switzerland were shown to the students and it was followed by open house quiz. The winners were given attractive prizes. The Centre organised **Science with NSCD Programme** during Vigyan Samagam Mega exhibition. The experiment based demonstrations were organised on 10th, 17th and 24th February 2020 on 'Understanding Static Electricity'; 'Low Temperature Physics Demonstration' and 'Size and Scale in Astronomy' respectively. As part of project awareness activities, each participating project in Vigyan Samagam carried out a week-long activities consisting of a series of lectures, quizzes, workshops, sessions, and demonstrations on related topics of mega science projects during '**The Week**' **Programme** which started on 22.01.2020 and would continue till the exhibition is over. 58 popular science lectures and 25 workshops were conducted during the period. The Vigyan Samagam exhibition was visited by more than 70000 people since its inauguration.

नवम्बर-दिसम्बर 2019 के दौरान लगभग 60 दिनों के लिए देश के उत्तरी राज्यों के आकांक्षात्मक जिलों में विज्ञान महोत्सव आयोजित करने के लिए एक ठोस प्रयास किया गया। पोर्टेबल विज्ञान प्रदर्शनों के प्रदर्शन के अलावा, इस कार्यक्रम में खगोल विज्ञान जागरूकता कार्यक्रम के अंतर्गत पोर्टेबल तारामंडल, विज्ञान फिल्म शो और विज्ञान शो मुख्य घटक थे। इस अवधि के दौरान, लगभग 2 लाख छात्रों / शिक्षकों और सामान्य दर्शकों ने विज्ञान महोत्सव में भागीदारी की।

राष्ट्रीय विज्ञान केंद्र, दिल्ली ने अप्रैल और सितंबर 2019 में स्वच्छ भारत मिशन के बारे में जागरूकता बढ़ाने के लिए छात्रों/शिक्षकों और आम जनता के लिए कई कार्यक्रमों का आयोजन किया। इस जागरूकता कार्यक्रम की शुरुआत स्वच्छता शपथ के साथ हुई। स्वच्छता और हमारा समाज विषय पर नुक्कड़ नाटक के प्रदर्शन के बाद स्वास्थ्य और स्वच्छता पर लिखित विज्ञान प्रश्नोत्तरी आयोजित की गयी। 'हस्त प्रक्षालन' पर संवादात्मक कार्यशाला आयोजित की गई जिसमें विभिन्न स्कूलों के छात्रों और शिक्षकों ने भाग लिया। दर्शकों के लिए स्वच्छता पर फिल्म शो का आयोजन भी किया गया।

विज्ञानोदय शीर्षक से हिंदी में त्रैमासिक ई-पत्रिका प्रकाशित की गई और इसे केंद्र की वेबसाइट पर अपलोड किया गया है। पत्रिका के चार अंक जिसमें वैज्ञानिक सूचना और गतिविधियों वाले लेख हैं, केंद्र की वेबसाइट पर उपलब्ध है। **विज्ञान सृजनोत्सव पर रिपोर्ट का प्रकाशन** और बच्चों द्वारा निर्मित चित्रकथा रेखाचित्र के संग्रह, जिसका उद्देश्य एंटीबायोटिक प्रतिरोध के बारे में जागरूक करना था, को **'सुपरहीरो सुपरबग के विरुद्ध'** शीर्षक से प्रकाशित किया गया।

A concerted effort was made to organise **Science Festivals** for about 60 days during Nov.-Dec. 2019 at **aspirational districts of northern states** of the country. Apart from display of portable science exhibits, astronomy awareness programme in portable Taramandal, science film shows & SDLs were the components of the programme. During this period, about 2 lakh students/teachers including general public visited the science festivals.

National Science Centre, Delhi organized a series of programmes for students/teachers and general public to inculcate the awareness about **Swachh Bharat Mission** in April and September 2019. The programme started with pledge taking. Nukkad Natak performance on **'Swachhta and Our Society'** was organized followed by a written science quiz on **'Health & Hygiene'**. Interactive workshop on **'Hand-Washing'** was organized in which students & teachers from different schools participated. Film show on **'Swachhta'** was organized for general public.

The quarterly **E-newsletter** in Hindi titled **'Vigyanodaya'** has been published and is available on NSCD website. All the four issues containing scientific information and activities have been uploaded on the website. **Publication of report of 'Vigyan Srojanotsav'** and collection of handmade comic sketches by children titled **'Superheroes against Superbugs'** aiming awareness of antibiotic resistance in the form of comic book was done.





केंद्र ने 15 नवंबर से 18 दिसंबर 2019 तक उत्तराखंड के गैरसैण में साइम ऑफ सोशल डेवलपमेंट संस्था द्वारा आयोजित उत्तराखंड सृजन कार्यक्रम में भाग लिया। कार्यक्रम के दौरान दर्शकों के लिए विज्ञान प्रदर्शन व्याख्यान और आकाश अवलोकन कार्यक्रम आयोजित किए गए। लगभग 5500 व्यक्ति मेले में आए और कार्यक्रम के दौरान होने वाली गतिविधियों में भाग लिया।

केंद्र ने अक्टूबर 2019 में महात्मा गांधी की 150 वीं जयंती वर्ष के उपलक्ष में विभिन्न गतिविधियों और कार्यक्रमों का आयोजन किया। 'गांधी - एक शिक्षाविद्' विषय पर वामिता प्रतियोगिता एवं एक लोकप्रिय व्याख्यान का आयोजन 1 अक्टूबर 2019 को स्कूल के विद्यार्थियों के लिए किया गया, जिसमें लगभग 300 स्कूली बच्चों ने भाग लिया। कार्यक्रम का उद्देश्य छोटे बच्चों को अहिंसा, शांति, सादगी और सच्चाई का संदेश देना था।

केंद्र ने अंतर्राष्ट्रीय आवर्त सारणी वर्ष-2019 के अवसर पर विशेष कार्यक्रम आयोजित किए। 13 अगस्त 2019 को 'मेंडेलीव्स यूनिवर्स: यह कहाँ समाप्त होता है?' विषय पर एक विज्ञान व्याख्यान आयोजित किया गया। केंद्र ने रसायन विज्ञान में एक नया विज्ञान व्याख्यान 'आवर्त सारणी: तत्व, यौगिक और अभिक्रियाएँ' भी शुरू किया। 28 और 29 अगस्त 2019 को विज्ञान शिक्षकों के लिए 'तत्वों की यात्रा' विषय पर एक कार्यशाला का आयोजन किया गया। भारतीय रत्न एवं रत्नशास्त्र संस्थान के प्राध्यापक ने आभूषणों के डिजाइन और इनके प्रसंस्करण और पुराने आभूषणों से सोने के निष्कर्षण पर प्रदर्शन किया। राष्ट्रीय शैक्षिक अनुसन्धान और प्रशिक्षण परिषद् के प्राध्यापक ने पाठ्यक्रम आधारित प्रयोगों को दिखाया। रसायन विज्ञान में नवीन प्रयोगों को विकसित करने के लिए शिक्षकों के लिए विचार-मंथन सत्र का भी आयोजन किया गया।

The centre participated in the **Uttarakhand Srajan** programme organised by Cyme of Social Development at Gairsain, Uttarakhand from 15th to 18th December 2019. Science demonstration lecture and Sky observation programme were conducted for visitors during the programme. About 5500 people visited the fair and participated in the activities during the programme.

The Centre organized various activities & programmes in October 2019 to commemorate the 150th birth anniversary year of Mahatma Gandhi. A **Popular Lecture** on 'Gandhi - An Educationist' and **Elocution contest** was organised on 1st October 2019 for school students in which about 300 school children participated. The objective of the programme was to spread the message of his non-violence, peace, simplicity and truth among the young children.

The Centre organised special programmes on the occasion of celebration of International Year of Periodic Table 2019. A lecture on '**Mendeleev's Universe: Where does it end?**' was organised on 13th August 2019. The Centre also launched a new SDL on Chemistry titled 'Periodic Table: Elements, Compound & Reactions' on this occasion. A **workshop on Odyssey of Elements** was organised for Science teachers on 28th & 29th August 2019. The faculty from Indian Institute of Gems and Gemmology demonstrated on designing & processing jewellery and extraction of gold from old Jewellery. The faculty from NCERT gave demonstrations on curriculum based experiments. The brainstorming sessions for teachers were also held to develop innovative experiments in chemistry.



केंद्र में विद्यार्थियों के लिए ग्रीष्मकालीन अवकाश अभिरुचि शिविर के तीन बैच आयोजित किये। कक्षा 6 से 12वीं के छात्रों ने विभिन्न विषयों- वैज्ञानिक खिलौना निर्माण (कनिष्ठ), वैज्ञानिक खिलौना निर्माण (वरिष्ठ), प्रकृति की खोज, एस्ट्रो लैब, इलेक्ट्रॉनिक्स के चमत्कार, रोबोटिक्स एवं जैवप्रौद्योगिकी, के शिविरों में भाग लिया। इन 23 अभिरुचि शिविरों में विभिन्न स्कूलों के 666 छात्रों ने भाग लिया और 1880 किट / प्रोजेक्ट बनाए।

अल्प सुविधा प्राप्त बच्चों के लिए कार्यक्रम के अंतर्गत रा०वि०के०, दिल्ली ने विशेष अभियान चलाकर एन०जी०ओ० से जुड़े एवं अभावग्रस्त बच्चों को विज्ञान के प्रति जागरूकता कार्यक्रम को ध्यान में रखकर 8643 अभावग्रस्त बच्चों को यात्रा की सुविधा प्रदान की। इसी प्रकार, आ.वि.न. लखनऊ ने 4607 और कु.पै.वि.के., कुरुक्षेत्र ने 4476 अभावग्रस्त बच्चों को यात्रा की सुविधा प्रदान की।

गोएथे इंस्टीट्यूट, मैक्स मुलर भवन, नई दिल्ली के सहयोग से रा०वि०के०, दिल्ली में 17 से 19 दिसंबर 2019, आंचलिक विज्ञान नगरी, लखनऊ, में 25 से 28 दिसंबर 2019 और कुरुक्षेत्र पैनोरमा और विज्ञान केंद्र, कुरुक्षेत्र में 8 से 15 नवंबर 2019 तक विज्ञान फिल्म महोत्सव का आयोजन किया गया। फिल्म प्रदर्शन के बाद दर्शकों के लिए वैज्ञानिक प्रयोग भी किए गए। दिल्ली विश्वविद्यालय और केंद्रीय प्रदूषण नियंत्रण बोर्ड से आए विशेषज्ञों द्वारा विद्यार्थियों के लिए वैज्ञानिक गतिविधियों का संचालन किया गया। विभिन्न स्कूलों के लगभग 5000 विद्यार्थियों/ शिक्षकों ने विज्ञान फिल्मों का आनंद लिया और वैज्ञानिक गतिविधियों में भाग लिया।



Three batches of summer vacation hobby camps for school students were held at the Centre. The students from class 6th to 12th participated in the camps in disciplines - Scientific Toy Making (Junior), Scientific Toy Making (Senior), Exploring Nature, Astro Lab, Wonders of Electronics, Robotics & Biotechnology. In these 23 hobby camps 666 students from different schools participated and 1880 kits/projects were developed.

Under the program titled Under-privileged Children, NSCD facilitated the visit of 8643 under privileged children. Similarly, RSCL facilitated 4607 & KPSC facilitated 4476 underprivileged children's visit.

Science Film Festival was organised from 17th to 19th December 2019 at NSC, Delhi; from 25th to 28th December 2019 at RSCL & from 8th to 15th November 2019 at KPSC in collaboration with Goethe Institut, MaxMuller Bhawan, New Delhi. The screening of science films were followed by hands-on experiments for audiences. The resource persons from University of Delhi and Central Pollution Control Board were engaged for conducting activities with the students. About 5000 students/teachers from various schools enjoyed the science films and participated in hands-on activities.



आंचलिक विज्ञान नगरी, लखनऊ में "खेलकूद एवं स्वस्थता" पर एक नई गैलरी का उद्घाटन 20 फरवरी, 2020 को श्रीमती संयुक्ता भाटिया, माननीय महापौर, लखनऊ द्वारा किया गया। इस अवसर पर डॉ॰ सी॰एम॰ नौटियाल, सलाहकार-आई.एन.एस.ए., नई दिल्ली और एल.ए.सी., आ.वि.न.ल. के सदस्य भी उपस्थित थे। इस दीर्घा में कुल 29 प्रदर्श हैं, जिनमें संवादात्मक/ भागीदारी परक, मल्टीमीडिया कियोस्क और डिस्प्ले पैनल शामिल हैं। विशेष रूप से डिजाइन की गई दीर्घा में प्रदर्शनी और प्रौद्योगिकियों का उपयोग यह बताने के लिए किया गया है कि विज्ञान, प्रौद्योगिकी और इंजीनियरिंग का उपयोग करके कैसे खेल और फिटनेस स्तर को बढ़ाया जा सकता है। मानव आचरण दीर्घा में मल्टीमीडिया आधारित 14 प्रदर्शनों को नवीकरण योजना के तहत सुधारा गया। अंतर्राष्ट्रीय आवर्त सारणी- 2019 के उपलक्ष में, 'आवर्त सारणी का उत्सव' विषय पर एक प्रदर्शनी आ.वि.के. लखनऊ द्वारा परिकल्पित और विकसित की गयी। प्रदर्शनी का उद्घाटन 9.12.2019 को वै.औ.अ.प.- केन्द्रीय औषधि अनुसंधान संस्थान, लखनऊ के निदेशक डॉ॰ तपस कुमार कुंडू द्वारा किया गया। प्रदर्शनी में 15 पैनलों की सहायता से एक समयावधि में आवर्त सारणी की

A new gallery on "Sports & Fitness" at Regional Science City, Lucknow was inaugurated on 20th February, 2020 by Smt. Sanyukta Bhatia, Hon'ble Mayor, Lucknow in presence of Dr. C. M. Nautiyal, Consultant- INSA, New Delhi and member, LAC, RSCL. The gallery has a total of 29 Nos. of exhibits including interactive/participatory exhibits, multimedia kiosks and display panels. Specially designed exhibits and technologies have been used to illustrate how science, technology and engineering could maximize sporting and fitness level. 14 nos. of multimedia based exhibits have been upgraded in 'Being Human' gallery under renovation plan. To commemorate International Year of Periodic Table 2019, an exhibition on 'Celebrating the Periodic Table' was conceptualised & developed by RSC, Lucknow. The exhibition was inaugurated on 9.12.2019 by Dr. Tapas Kumar Kundu, Director, CSIR-CDRI, Lucknow. The exhibition comprises of 15 panels describing the genesis and evolution of periodic table over the period of time



उत्पत्ति और विकास को केन्द्रीय सहभागिता प्रदर्श से दिखाया गया था। 'माइंड ओवर मैटर: ए ट्रिब्यूट टू प्रो० स्टीफन हॉकिंग' नामक एक चलायमान प्रदर्शनी का उद्घाटन 07.11.2019 को आ.वि.न. लखनऊ में किया गया। प्रदर्शनी में 40 पैनल शामिल हैं, जिसमें हॉकिंग के जीवन और उनकी वैज्ञानिक उपलब्धियों के विभिन्न पहलुओं को चित्रमय प्रदर्शन, श्रव्य-दृश्य प्रदर्शन, मल्टीमीडिया और ब्लैक होल के 3 -डी मॉडल के माध्यम से दिखाया गया। डॉ० विक्रम ए० साराभाई शताब्दी कार्यक्रम के अवसर पर, आ.वि.न. लखनऊ ने इसरो के साथ मिलकर 'स्पेस' विषय पर एक पैनल प्रदर्शनी का आयोजन किया, जो 17 से 22 जनवरी 2020 तक जारी रही। प्रदर्शनी का उद्घाटन पद्मश्री डॉ० वी० आदिमूर्ति, मानद प्रोफेसर, इसरो, विक्रम साराभाई अंतरिक्ष केंद्र, तिरुवनंतपुरम, केरल ने किया। इसरो टेलीमेट्री, ट्रैकिंग एंड कमांड नेटवर्क और इंडियन इंस्टीट्यूट ऑफ रिमोट सेंसिंग, लखनऊ के सहयोग से शैक्षिक कार्यक्रमों की एक श्रृंखला आयोजित की गई।

आंचलिक विज्ञान नगरी, लखनऊ ने वर्ल्ड रोबोटिक ओलंपियाड-2019 के आंचलिक स्तर की प्रतियोगिता में भाग लिया, जो 10 और 11 अगस्त 2019 को सनबीम सन सिटी, वाराणसी में आयोजित की गई थी। भूजल विभाग, उत्तर प्रदेश के सहयोग से 16 से 22 जुलाई 2019 तक भूजल संरक्षण पर

and one central participatory model on periodic table. A travelling exhibition titled 'Mind over Matter: A tribute to Prof. Stephen Hawking' was inaugurated on 07.11.2019 at RSC, Lucknow. The exhibition, comprises of 40 panels, depict various aspects of Hawking's life and his scientific achievement through graphical display, audio-video clippings, multimedia and a 3D model of black hole. On the occasion of Dr. Vikram A. Saraabhai Centenary programmes, RSCL organised a panel exhibition on 'Space' in association with ISRO which continued from 17th to 22nd January 2020. The exhibition was inaugurated by Padamshree Dr.V.Adimurthy, ISRO Honorary Distinguished Professor, Vikram Sarabhai Space Centre, Thiruvananthapuram, Kerala. A series of educational programmes were organised in association with ISRO Telemetry, Tracking & Command Network and Indian Institute of Remote Sensing, Lucknow.

Regional Science City, Lucknow participated in Regional Level Contest of World Robotic Olympiad 2019 held on 10th & 11th August 2019 at Sunbeam Sun City, Varanasi. The awareness programme on conservation of groundwater was organised from 16th to 22nd

जागरूकता कार्यक्रम आयोजित किया गया। प्रतियोगिताएं और गतिविधियाँ जैसे कि प्रश्नोत्तरी, जल प्रदूषण और सावधानियों पर प्रदर्शन, कोलाज बनाना, नारा लेखन, 'जल विवाद और चुनौतियाँ' विषय पर वाद-विवाद प्रतियोगिता तथा विज्ञान फिल्म शो आयोजित किए गए। आंचलिक विज्ञान नगरी, लखनऊ द्वारा ग्रीष्मकालीन अवकाश अभिरुचि शिविर के तीन बैच 20 से 24 मई 27 से 31 मई 2019 और 3 से 7 जून 2019 तक आयोजित किए गए। कक्षा 2 से 10 वीं तक के छात्रों ने सृजनात्मक कला, वैज्ञानिक खेलौने बनाना, विज्ञान स्पार्कल, एस्ट्रो-लैब, मनोरंजक इलेक्ट्रॉनिक्स, मोबाइल ऐप बनाना और रोबोटिक्स विषयों पर कार्यशाला में भाग लिया। 24 अभिरुचि शिविरों में विभिन्न स्कूलों के लगभग 475 छात्रों ने भाग लिया और कई किट्स का विकास किया। 'एलईडी लैंप बनाना', 'हर्बल उत्पाद बनाना' और '3-डी मॉडलिंग' पर संवादात्मक कार्यशाला का आयोजन भी किया गया। रोबोटिक्स, 3-डी प्रिंटिंग, वायु और जल, खगोलशास्त्र, हाइड्रोपोनिक्स, सी.ए.डी. और डी.एन.ए. निष्कर्षण पर सत्र आयोजित किए गए। नवप्रवर्तन महोत्सव 29 से 31 जनवरी 2020 तक आयोजित किया गया। महोत्सव का उद्घाटन उत्तर प्रदेश मेट्रो रेल कॉर्पोरेशन लिमिटेड लखनऊ के प्रबंध निदेशक श्री कुमार केशव ने किया। श्री कुमार केशव ने प्रतिभागियों के लाभ के लिए 'मेट्रो की बात' विषय पर एक व्याख्यान भी दिया। इस महोत्सव में 115 नवप्रवर्तनशील प्रोजेक्ट्स प्रदर्शित किए गए। समापन समारोह के दौरान, विजेताओं को पुरस्कार और प्रमाण पत्र दिए गए। आ.वि.न. लखनऊ 3 भ्रमणशील विज्ञान प्रदर्शनी बसों का उपयोग करके उत्तर भारत में आकांक्षित जनपदों में भ्रमणशील विज्ञान प्रदर्शनी कार्यक्रमों के संचालन के लिए समन्वय कर रहा है। अक्टूबर-नवंबर 2019 के दौरान, उत्तर प्रदेश के बलरामपुर, बहराइच और फतेहपुर जिले में भ्रमणशील विज्ञान प्रदर्शनी का आयोजन किया गया और दिसंबर 2019-जनवरी 2020 के दौरान श्रावस्ती और चित्रकूट जनपद में भ्रमणशील विज्ञान प्रदर्शनी का आयोजन किया गया। आंचलिक विज्ञान केन्द्र, लखनऊ ने महात्मा गांधी की 150 वीं जयंती वर्ष के उपलक्ष में अक्टूबर 2019 में विभिन्न गतिविधियों और कार्यक्रमों का आयोजन किया। 'महात्मा गाँधी - जीवनी और गाँधी शिक्षा' पर एक लोकप्रिय व्याख्यान और छात्रों के लिए 02.10.2019 को रेखाचित्र बनाने की प्रतियोगिता का आयोजन किया, जिसमें लगभग 250 स्कूली बच्चों ने भाग लिया। आ.वि.न. लखनऊ द्वारा सरदार वल्लभभाई पटेल की

July 2019 in collaboration with Ground Water Department, Uttar Pradesh. Contests & activities such as quiz, demonstration on water contamination & precautions, collage making, slogan writing, debates on water issues & challenges and science film shows were conducted. Three batches of summer vacation hobby camps for school students were held from 20th to 24th May; 27th to 31st May 2019 & 3rd to 7th June 2019 at the Centre. The students from class 2nd to 10th participated in the camps in disciplines – Creative Art, Scientific Toy Making, Science Sparkle, Astro-Lab, Fun with Electronics, Mobile App making and Robotics. In these 24 hobby camps about 475 students from different schools participated and developed many projects. Interactive workshops on 'LED Lamp making', 'Herbal Product making' & '3D Modelling' were organized during the period. Hands-on session on Robotics, 3D printing, Air & water, Astronomy, Hydroponics, CAD & DNA Isolation were conducted during the period. Innovation Festival was organised from 29th to 31st January 2020. The festival was inaugurated by Shri Kumar Keshav, Managing Director, Uttar Pradesh Metro Rail Corporation Ltd. Lucknow. Shri Kumar Keshav also delivered a lecture on 'Matter of Metro' for benefit of participants. 115 Innovative Projects were on display in this festival. During closing ceremony, prizes and certificates were given to winners. RSCL is coordinating for organization of MSE programs in the aspirational districts in northern India using 3 MSE buses. During Oct.-Nov. 2019, MSE was organised in Balrampur, Bahraich and Fatehpur district of Uttar Pradesh and during Dec. 2019-Jan. 2020 in Shrawasti and Chitrakoot district.

RSCL organized various activities & programmes in October 2019 to commemorate the 150th birth anniversary year of Mahatma Gandhi. A Popular Lecture on 'Mahatma Gandhi – Biography & Gandhi Education' and Sketch making contest was organised on 02.10.2019 for school students in which about 250 school children participated. RSCL celebrated National Unity Day to mark the Birth Anniversary



जयंती 31.10.2019 को राष्ट्रीय एकता दिवस के उपलक्ष में छात्रों और आम जनता के लिए शैक्षिक कार्यक्रम आयोजित किए गए। एकता दिवस के उपलक्ष में सरदार वल्लभभाई पटेल पर रेखाचित्र बनाओ प्रतियोगिता और 'सरदार वल्लभभाई पटेल की जीवनी' पर एक लोकप्रिय वार्ता आयोजित की गई। कार्यक्रमों में लगभग 300 स्कूली बच्चों ने भाग लिया। आ.वि.न. लखनऊ ने 13 से 15 नवंबर 2019 तक नगर स्तरीय विज्ञान मेला और विज्ञान नाटक प्रतियोगिता का आयोजन किया। लखनऊ के विभिन्न स्कूलों के 65 प्रोजेक्ट छात्रों द्वारा प्रदर्शित किए गए। नगर स्तरीय विज्ञान नाटक प्रतियोगिता में विभिन्न स्कूलों की 8 टीमों ने भाग लिया। समापन समारोह का आयोजन 15.11.2019 को किया गया और विजेताओं को पुरस्कार और ट्रॉफी प्रदान किए गए। लगभग 4500 दर्शकों और विद्यार्थियों ने विज्ञान मेले और नाटक को देखा।

of Sardar Vallabhbhai Patel on 31.10.2019 by organizing educational programmes for the school students as well as general public. 'Sketch Making Contest' on Sardar Vallabhbhai Patel and a popular talk on 'Biography of Sardar Vallabhbhai Patel' were organised. About 300 school children participated in the programmes.

RSCL organised the City Level Science Fair & Science Drama from 13th to 15th November 2019. 65 projects from different schools of Lucknow were displayed and demonstrated by the students. 8 teams of different schools participated in City Level Science Drama contest. The Valedictory ceremony was organised on 15.11.2019 and the winners received the prizes and trophy. About 4500 students including general public visited the fair and drama.



कुरुक्षेत्र पैनोरमा और विज्ञान केंद्र, कुरुक्षेत्र (के.पी.एस.सी.) दर्शकों को विज्ञान के प्रति आकर्षित करने हेतु विभिन्न शैक्षिक गतिविधियों और कार्यक्रमों का आयोजन करता है। विद्यार्थियों के लिए ग्रीष्मकालीन अवकाश अभिरुचि शिविर 3 से 14 जून 2019 तक केंद्र में आयोजित किए गए। कक्षा 2 से 10 वीं तक के छात्रों ने सृजनात्मक कला, वैज्ञानिक खेलौनों का निर्माण, प्रकृति की खोज, इलेक्ट्रॉनिक्स के चमत्कार और वैदिक गणित विषयों के शिविरों में भाग लिया। इन अभिरुचि शिविरों में, विभिन्न स्कूलों के 110 छात्रों ने भाग लिया और प्रोजेक्ट्स विकसित किए। छात्रों को गैर-औपचारिक तरीके से विभिन्न वैज्ञानिक अवधारणाओं को बेहतर और स्पष्ट रूप से समझने में सक्षम बनाने के लिए विज्ञान फिल्म शो का आयोजन 15 से 21 जुलाई और 1 से 10 अगस्त 2019 तक किया गया।

मोबाइल विज्ञान प्रदर्शनी का आयोजन अप्रैल/अगस्त 2019 में करनाल, यमुनानगर और जींद जिले में किया गया, इस प्रदर्शनी को लगभग 23,000 छात्रों ने देखा। विज्ञान-पिकनिक कार्यक्रम का आयोजन 20 से 31 मई; 9 से 24 जुलाई; 13 से 24 अगस्त 2019 तक छात्रों के लिए किया गया। भारतीय धरोहर विषय पर लोकप्रिय व्याख्यान और धरोहर प्रश्नोत्तरी का आयोजन 18 जुलाई 2019 को स्कूली बच्चों के लिए इंडियन नेशनल ट्रस्ट फॉर आर्ट एंड कल्चरल हेरिटेज (INTACH) के सहयोग से किया गया।

The Kurukshetra Panorama & Science Centre, Kurukshetra (KPSC) focuses mainly on activities and programmes to engage visitors. Summer vacation hobby camps for school students were held from 3rd to 14th June 2019 at the Centre. The students from class 2nd to 10th participated in the camps in disciplines – Creative Art, Scientific Toy Making, Exploring Nature, Wonders of Electronics & Vedic Maths. In these hobby camps, 110 students from different schools participated and developed projects. Science Film Shows were organised from 15th to 21st July; 1st to 10th August 2019 for students to enable them to understand different scientific concepts better & clearly in the non-formal way. Mobile Science Exhibition was organised at Karnal, Yamuna Nagar & Jind district in April/August 2019 during which about 23,000 students visited this exhibition. Sci-Picnic Programmes were organised from 20th to 31st May; 9th to 24th July; 13th to 24th August 2019 for the school students. Popular lecture on 'Indian Heritage' and Heritage Quiz contest was organized in collaboration with Indian National Trust for Art and Cultural Heritage (INTACH) on 18th July 2019 for school children.

कु.पै.वि.के. ने 'एकल प्रयोग प्लास्टिक पर प्रतिबंध' विषय पर एक पैनल प्रदर्शनी विकसित की जिसका उद्घाटन 31.12.2019 को किया गया। यह प्रदर्शनी प्लास्टिक से संबंधित विभिन्न मुद्दों, उनके दुरुपयोग और पर्यावरण पर प्लास्टिक के हानिकारक प्रभावों को चित्रित करती है। माइंड ओवर मैटर: ए ट्रिब्यूट टू प्रो० स्टीफन हॉकिंग' नामक एक चलायमान प्रदर्शनी का उद्घाटन 25.02.2020 को किया गया। इस 40 पैनल की प्रदर्शनी में प्रो० स्टीफन हॉकिंग' के जीवन और उनकी वैज्ञानिक उपलब्धियों के विभिन्न पहलुओं को दर्शाया गया था। कु.पै.वि.के. ने अंतर्राष्ट्रीय गीता जयंती महोत्सव में वैज्ञानिक प्रदर्श और व्याख्यान के साथ 23 नवंबर से 10 दिसंबर 2019 तक ब्रह्म सरोवर, कुरुक्षेत्र में भाग लिया और 13 नवंबर से 16 नवंबर 2019 तक हिमाचल प्रदेश के बिलासपुर में राज्य स्तरीय बाल विज्ञान कांग्रेस में भी भाग लिया। एस.सी.ई.आर.टी., चंडीगढ़ में 26 से 30 नवंबर, 2019 तक 47 वीं चंडीगढ़ राज्य स्तरीय विज्ञान, गणित और पर्यावरण प्रदर्शनी में भाग लेने के दौरान कई शैक्षिक कार्यक्रमों का आयोजन किया गया।

उत्तर क्षेत्र की सभी इकाइयों द्वारा राष्ट्रीय और अंतर्राष्ट्रीय महत्व के दिवस जैसे विश्व स्वास्थ्य दिवस (7 अप्रैल), पृथ्वी दिवस (22 अप्रैल), राष्ट्रीय प्रौद्योगिकी दिवस (11 मई), अंतर्राष्ट्रीय संग्रहालय दिवस (18 मई), विश्व पर्यावरण दिवस (5 जून), अंतर्राष्ट्रीय योग दिवस (21 जून), विश्व जनसंख्या दिवस (11 जुलाई), विश्व ओजोन दिवस (16 सितंबर), राष्ट्रीय एकता दिवस (31 अक्टूबर) और राष्ट्रीय विज्ञान दिवस (28 फरवरी) को मनाने के लिए विशेष कार्यक्रम आयोजित किए।

मुझे लगता कि संदेश समाप्त करने के पूर्व, जब तक कि मैं रा.वि.के.दि., आ.वि.न.ल. और कु.पै.वि.के. के अपने साथी अधिकारियों एवं कर्मचारियों के अथक प्रयासों को श्रेय नहीं दूंगा जिन्होंने अपनी पूर्ण निष्ठा से पूर्व निर्धारित लक्ष्यों को प्राप्त करने में हमारी सहायता की है मैं अपने कर्तव्यों को पूर्ण नहीं कर सकूंगा। साथ ही मैं अपने मुख्यालय राष्ट्रीय विज्ञान संग्रहालय परिषद् के प्रति भी कृतज्ञता अभिव्यक्त करता हूँ जिन्होंने जब और जहाँ भी आवश्यकता हुई, हमें सहयोग प्रदान किया।

मुझे विश्वास है कि रा.वि.के.दि. आने वाले वर्षों में अनेक सफलताओं व उपलब्धियों के मील के पत्थर स्थापित करेगा।

(डी. राम शर्मा)

KPSC developed a panel exhibition on 'Ban of Single Use Plastics' which was inaugurated on 31.12.2019. This exhibition portrays various issues related with plastics, their misuses and harmful effects on the environment. A travelling exhibition titled 'Mind over Matter: A tribute to Prof. Stephen Hawking' was inaugurated on 25.02.2020 that comprises of 40 panels depict various aspects of Hawking's life and his scientific achievements. KPSC participated with exhibits and demonstrations in the International Gita Jayanti Mahotsava at Brahma Sarover, Kurukshetra from 23rd November to 10th December 2019 and also participated in State level Children's Science Congress from 13th to 16th November 2019 at Bilaspur, Himachal Pradesh. During participation in 47th Chandigarh State Level Science, Mathematics and Environment Exhibition from 26th to 30th November 2019 at SCERT, Chandigarh, large number of educational programmes were organised.

All the units in north zone organised special programmes to commemorate the days of national & international importance like World Health Day (7th April), Earth Day (22nd April), National Technology Day (11th May), International Museum Day (18th May), World Environment Day (5th June), International Day of Yoga (21st June), World Population Day (11th July), World Ozone Day (16th September), National Unity Day (31st October) & National Science Day (28th February).

Before I conclude, I will be failing in my duties, if I do not acknowledge the untiring efforts put in by my fellow officers and staff members of NSCD, RSCL and KPSC in achieving the targets set before us. I also express my indebtedness to our headquarter at NCSM, for providing support as & when needed.

I am sure NSCD will achieve many more milestones in the years to come.

(D. Rama Sarma)

Brief of Programmes/Activities/Colloborations

NSC, Delhi

Three batches of **summer vacation hobby camps** for school students were held at the Centre from May 20, 2019 to June 7, 2019. The students from class 6th to 12th participated in the camps in disciplines - Scientific Toy Making (Junior), Scientific Toy Making (Senior), Exploring Nature, Astro Lab, Wonders of Electronics, Robotics & Biotechnology. In these 23 hobby camps 666 students from different schools participated and 1880 kits/projects were developed.

The Centre organised an orientation programme on '**Low Cost Teaching Aid**' on April 8, 2019. The In-service teachers from Kendriya Vidyalayas of Delhi & NCR and Science Coordinators from SDMC schools attended the orientation programme. About 200 in-service teachers attended the programme and developed 40 teaching aid.

The National Science Centre, Delhi organised a workshop an **Odyssey of Elements** for Science teachers on August 28 & 29, 2019. Teaching faculty from Department of Chemistry, Hindu College presented the demonstration on 'Green Chemistry' and 'Fun with Chemistry'. The faculty from Indian Institute of Gems and Gemmology demonstrated on



designing & processing jewellery and extraction of gold from old Jewellery. The faculty from NCERT gave demonstrations on curriculum based experiments. The brainstorming sessions for teachers were also held to develop innovative experiments in chemistry. 32 teachers attended the interactive workshop.



The Centre organized **Teacher's Orientation Programme** on February 28, 2020 on the topic 'Digi Abhyas' in collaboration with Learning Links Foundation, Delhi. About 350 pre service teachers participated in the programme.

The Centre participated in the **Science Symposium** organized by Directorate of Education, Govt. of Delhi at Government Sr. Sec. School, Ambedkar Nagar, and New Delhi on July 26, 2019. The Centre also participated in the Science Carnival organized by Khaitan Public School, Noida on July 22, 2019.

A popular science lecture on '**Indian Traditional Medicines**' by Prof. Dr. Sathya N. Dornala, Swami Vivekanand Ayurvedic Panchakarma Hospital, Delhi was delivered on 8th April 2019.

The Centre organised special programmes on the occasion of celebration of **International Year of Periodic Table 2019**. A Popular Science Lecture by Prof. Nidhi Jain, Department of Chemistry, IIT Delhi was organised on the topic 'Mendeleev's Universe: Where does it end?' on August 13, 2019. The Centre

also launched a new SDL on Chemistry titled 'Periodic Table: Elements, Compound & Reactions' on this occasion.

The Centre organized a **popular Science Lecture and Teacher's Orientation Programme** on the occasion of National Science Day February 28, 2020.

The Centre also organized a series of lectures for the general public and college students from May 20 to June 7, 2019 on major theme 'Understanding Adolescence' and 'Conservation of Energy Sources' in which about 2000 people attended the lectures.

A popular science lecture on **Chandrayaan-2** was organized in collaboration with National Geographic on September 4, 2019. Dr. Biman Basu, Renowned Science Communicator delivered the lecture that was attended by 400 students.

A lecture on '**Quantum: The Next Scientific Frontiers**' by Prof. K. Thyagrajan, Retd. Prof. IIT, Delhi was organised on February 28, 2020.



VIGYAN SAMAGAM

National Science Centre, Delhi in collaboration with Department of Science & Technology and Department of Atomic Energy inaugurated a first-of-its-kind mega science exhibition '**Vigyan Samagam – Pushing the Frontiers of Science & Technology**' on January 21, 2020. This was on display for public from January 21 to March 20, 2020. This exhibition projects the Indian contributions to cutting-edge technologies developed by various International collaborative scientific ventures by organizations such as European Organization for Nuclear Research (CERN); Facility for Antiproton and Ion Research (FAIR); India-based Neutrino Observatory (INO); International Thermonuclear Experiment Reactor (ITER); Laser Interferometer Gravitational-Wave Observatory (LIGO); Square Kilometre Array (SKA); and Thirty Meter Telescope (TMT), for the first time in the world, on a single platform. The Exhibition consists of infographics, working models and exhibits, informative audio-visual content, electronic displays and interactive kiosks for each of the Mega Science Projects. Dr. Jitendra Singh, Union Minister of State (I/C), Ministry of

Development of North Eastern Region, MoS PMO, Personnel, Public Grievances and Pensions, Atomic Energy and Space inaugurated the exhibition on January 21, 2020. The other dignitaries were Dr. R. Chidambaram, Former Principal Scientific Adviser to GoI, Former Chairman, Atomic Energy Commission (AEC) and Secretary, Department of Atomic Energy (DAE); Dr. Paul T. P. Ho, Astrophysicist & Director General of East Asian Observatory; Shri K. N. Vyas, Chairman, AEC & Secretary, DAE and Prof. Ashutosh Sharma, Secretary, Department of Science and Technology (DST). About 450 academicians & scientists were present on the occasion. As part of project awareness activities during 'Vigyan Samagam – Pushing the Frontiers of Science & Technology' mega exhibition, 60 popular science lectures and 25 workshops were conducted during the period.

The inaugural program of Vigyan Samagam was followed by '**Science Stage**' event comprising of



invited talks and lectures by eminent speakers from the field of science, technology and Industry. 17 industries put up their products and stalls at NSC, Delhi during the inauguration. Industrial panel discussion and Industrial exposition was organised in which the associated industries with Mega Projects participated. Earlier, curtain raiser and press meet on Vigyan Samagam event was organised on January 16, 2020 for wide publicity & promotion among the masses.



Demonstration'; 'Size and Scale in Astronomy'; 'Fun with Air Pressure' & 'Energy Show' respectively.

About 1200 students and teachers participated in these demonstrations.

As part of project awareness activities, each participating project

A Science Film Festival was organised on January 23 & 24, 2020 in collaboration with Embassy of Switzerland. Science films from Switzerland were shown to the students and it was followed by open house quiz. The winners were given attractive prizes.

The Centre organised Science with NSCD Programme during Vigyan Samagam Mega exhibition. The experiment based demonstrations were organised on February 10, 17 & 24, 2020 and March 2 & 9, 2020 on '**Understanding Static Electricity**'; '**Low Temperature Physics**

in Vigyan Samagam carried out a week- long activities consisting of a series of lectures, quizzes, workshops, sessions, and demonstrations on related topics of mega science projects during '**The Week' Programme** which started on January 22, 2020 and continued till the exhibition was over. 60 popular science lectures and 25 workshops were conducted during the period. About 12,000 students including teachers attended these programme. The Vigyan Samagam exhibition was visited by more than 70000 people since its inauguration.

Brief of Programmes/Activities/Collaborations

The centre organised the **City Level Science Fair** on November 29, 2019. 42 projects from different schools of Delhi & NCR were displayed and demonstrated by the students. The Valedictory ceremony of the City Level Science Fair was organised same day and the winners received the prizes and trophy. About 3000 students including general public visited the fair.



The **Innovation Space**, National Science Centre, Delhi organized interactive workshop for members of Innovation Space on 'Tool Operation' on June 22 & 23, 2019 in which 21 members participated. A workshop in collaboration with Design Innovation Centre was organised from May 20 to 25, 2019 at University of Delhi in which 36 students participated and developed 12 innovative projects.



The Centre organized a series of programmes for students/teachers and general public to inculcate the awareness about **Swachh Bharat Mission** from April 16 to 30, 2019 and September 16 to 30, 2019. The programme started with pledge taking.

Nukkad Natak performance on '**Swachhta and Our Society**' was organized followed by a written science quiz on 'Health & Hygiene'. Interactive workshop on 'Hand-Washing' was organized in which students & teachers from different schools participated. Poster Making contest on "**Swachhta Hi Seva Hai**" was organised for the school students. Quiz contest and Slogan Writing Contest was also organized. Science demonstration lecture on 'Clean Water' was conducted for general public. Cleanliness drive was taken up by the staff members in their respective sections in NSCD. Film show on 'Swachhta' was organized for general public.





The Centre organized **various activities & programmes** in August 2019 to commemorate the 150th birth anniversary year of Mahatma Gandhi. **Poster Making Contest on 'Gandhi - An Educationist'** was organised on August 7, 2019 for school students in which about 250 school children participated. **A Popular Lecture on 'Gandhi - An Educationist' and Elocution contest** was organised on October 1, 2019 for school students in which about 300 school children participated. The objective of the programme was to spread the message of his non-violence, peace, simplicity and truth among the young children.

The Centre made arrangements for **live streaming of launching of Chandrayaan-2** on July 22, 2019 for public viewing. Around 100 enthusiastic visitors enjoyed and cherished the launch.

The Centre organized school **curriculum based educational package programme** for school students of Delhi & NCR. In this programme, intense and focussed interaction is done with students for 2-2 ½ hrs. and students are engaged in hands on activities on themes such as Air & Water; Biotechnology; Robotics; Static Electricity; Astronomy & Geography for the students of grade 6th to 10th. The latest state of art educational technological tool, 'Science on Sphere' facility was also used for the purpose

The centre organized **Partial Solar Eclipse Observation Programme** on December 26, 2019.

The arrangements were made for direct observation of partial eclipse through telescope fitted with filters for students and general public. Solar Filter goggles were distributed to observe the rare celestial event. Apart these, live webcast of annular solar eclipse, an awareness workshop on Eclipses were also organized for the visitors.



SUPERBUGS

The centre has contributed in content development of exhibition titled “Superbugs: End of Antibiotics?” and contributed substantially for setting-up of this exhibition at NSCD. It was inaugurated on September 6, 2019 by Dr. Harsh Vardhan, Hon’ble Union Minister for Health and Family Welfare, Science & Technology, and Earth Sciences and presided over by Shri Prahlad Singh Patel, Hon’ble Minister of State

(Independent Charge) for Culture and Tourism. This is an National Council of Science Museums (NCSM) exhibition developed in collaboration with Science Museum Group, London, Wellcome (UK) and supported by ICMR. Other dignitaries present on the occasion were Prof. Balram Bhargava, Secretary, DHR & DG, ICMR, Dr. Renu Swarup, Secretary, Dept. of Biotechnology, Govt. of India, Ms. Jan Thompson, Deputy

British High Commissioner to India, Mr. Jonathan Newby, MD and Science Museum Group. The Centre organised Popular Science Lectures, Poster Making Contest, Elocution Contest, Nukkad Natak, Open House Quiz, Comic Making workshop, Panel Discussion etc. as side events of the exhibition. The exhibition continued till November 17, 2019 and was visited by about 2 lakh visitors including students.



‘Corona Virus’ exhibition comprised of eight panels including LED screen, details about Corona Virus, its transmission; symptoms & treatment; its worldwide outbreak and general advisories.



Two panel exhibitions titled '**Corona Virus**' & **The Tribute to Nobel Laureates - 2019**' were developed and installed at NSC, Delhi.



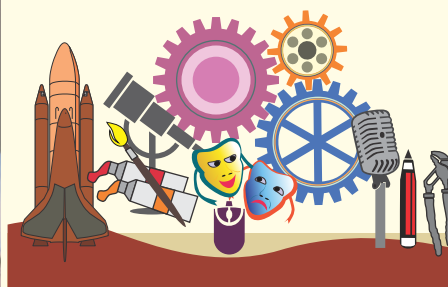
‘Nobel Laureates’ exhibition comprised of six panels, introducing the Nobel Prizes-2019 winners in Physics, Chemistry and Physiology/ Medicine, about their invention and discoveries made by these scientists and their impact on human life.

विज्ञान सृजनोत्सव

The National Science Centre, Delhi organised **Vigyan Srijanotsav** from December 4 to 6, 2019. This event was a conglomeration of various programmes such as science fair, science drama, innovation fair/festival etc. into a multi-faceted, single venue mega festival. 'Vigyan Srijanotsav - A Confluence of Science, Art & Creativity' was inaugurated by Prof. K. VijayRaghavan, Principal Scientific Adviser, Government of India on December 4, 2019. The Guest of Honour on the occasion was Dr. D. K. Aswal, Director, CSIR-National Physical Laboratory, New Delhi. 17 Team and 30 individual projects were displayed in Science Fair. 10 student teams, all winners from northern states performed science drama. 28 young innovators including private companies presented their projects in Innovation Fair. 10 teams participated in 'Innovative Challenge' contest. In 'Make it at Science Centre' event, participants made innovative models from scrap. In addition, Popular Science Lectures, Nukkad Natak, Science Quiz, workshop on Adulteration checking in Food, First Aid Camp, Intellectual property Right and Artificial Intelligence was organized. The winners received the prizes and certificates during valedictory function on December 6, 2019 from the invited chief guest, Prof. H.P. Singh, Director, Cluster Innovation Centre, University of Delhi.

With 15 number S & T based activities/ programs/ contests/quizzes/expositions organized over a period of 3 days at 12 venues within the National Science Centre, Delhi campus, the event has provided science festivity and feast for not only young students but also for the general visitors (including family groups) to the Centre. About 12,000 people including the students/teachers attended the programmes during this period.





Science Film Festival was organised from December 17 to 19, 2019 at NSC, Delhi in collaboration with Goethe Institute, Max Muller Bhawan, New Delhi. The screening of science films were followed by hands-on experiments for audiences. The resource persons from University of Delhi and Central Pollution Control Board were engaged for conducting activities with the students. About 5000 students/teachers from various schools enjoyed the science films and participated in hands-on activities. Students get sensitized in use of science and technology for human welfare.



Yoga is an invaluable gift of ancient Indian tradition. It embodies unity of body and mind; thought and action, harmony between man and nature and a holistic approach to health and wellbeing. Yoga is a 5,000 year-old tradition from India. National Science Centre, Delhi organised various activities on International Yoga Day on 21st June 2019. Teacher faculty from Indira Gandhi Institute of Physical Education and Sports Sciences, Delhi University was invited to perform live demo on Yoga practice in the morning. About 575 parents and students participated in the above programs. Contests like Sit & Draw, Open House Quiz for young children were also organised on the occasion.



राष्ट्रीय विज्ञान केन्द्र, दिल्ली



The centre participated in the Uttarakhand Srajan programme organised by Cyme of Social Development at Gairsain, Uttarakhand from December 15 to 18, 2019. Science demonstration lecture and Sky observation programme were conducted for visitors during the programme. This programme was conducted for popularizing science among villagers in remote locations. Visitors learnt basic scientific concept by using interactive exhibit during the programme. About 5500 people visited the fair and participated in the activities during the programme. They enjoyed scientific learning during the Uttarakhand Srajan.



Being one of the most diverse nations in the world, India is a place where numerous traditions, customs, religions and languages flourish. And among all the languages, Hindi is considered the chief as well as the widely spoken in India. Hindi got an exalted status in India on September 14, 1949, when it was adopted as the official language of the country. Since then September 14 is celebrated as Hindi Diwas to pay honor to the official language of India. Today, Hindi enjoys the status of Rashtra Bhasha. In today's highly commercialized environment, where people are forgetting their roots, Hindi Diwas plays a significant role. In this is occasion, the Centre organized a series of programmes for **staff members of National Science Centre, Delhi** to encourage the use of Hindi language in official communication as well in daily routine work. Extempore talk, Quiz contest, Essay writing contest, Dictation writing contest, Hindi



Typing contest, Hindi Translation contest & note/proposal making contest in Hindi was organized from September 14 to 28, 2019 during Hindi Diwas Pakhwada. Most of the staff participated in these programmes with great enthusiasm and won prizes as well.



Regional Science City Lucknow organizes several event based on different theme of science throughout the year (2019-20). Commemorative programme like Earth Day, Jallianwala Bagh Massacre Centenary, National Technology Day, International Museum Day, International Biodiversity day, World Environment Day, International Yoga Day, 30th Anniversary Celebration of RSCL, 150th Birth anniversary of Mahatma Gandhi, National Unity Day, Vigilance Awareness Week, Dr. Vikram A. Sarabhai Centenary Celebration and National science Day were celebrated along with workshops like robotics, fun with electronics, Astrolab, exploring nature etc. This year Ground Water Week Celebration, Vikram A. Sarabhai Centenary Celebration, International Ozone Conservation Day and World Environment Day were celebrated in collaboration with Ground Water Department U.P, ISTRAC-ISRO, Lucknow and Environment Directorate U.P respectively.

Besides above The Mobile Science exhibitions were also organized in aspirational district like Balrampur, Baraich, Shravasti, Fatehpur and Chitrakoot for the benefit of students' teachers and general masses of remote areas. In order to make the mission of a corruption free India successful, Regional Science City, Lucknow organized a Vigilance Awareness Program in its premises on November 2, 2019. On this occasion, the oath-taking program was organized for making corruption-free India. Many special cleaning drives were organized at RSC Lucknow during swachhta pakhwada to create awareness about health & hygiene.



Earth Day Celebration: Regional Science City Lucknow celebrated Earth Day by organizing a Mega Painting contest in three categories on April 22nd 2019. More than 900 students and teachers took part in both days programme.

Swachhta Pakhvada: Regional Science City, Lucknow organized various educational programme, activities, awareness programme during 'Swachhta Pakhwara' from April 16-30, 2019. About 400 school students took part from different local schools.

Jallianwala Bagh Massacre Centenary: Regional Science City, Lucknow commemorated Jallianwala Bagh Massacre Centenary on May 9th 2019 by organizing a Sketch Making Contest for school children. In all about 200 students participated.

National Technology Day: Regional Science City, Lucknow commemorated National Technology Day on May 11th 2019 by organizing with poster making contest, science film show, science demonstration lecture and an innovative workshop on 'Learning By Doing' was held for school children. In all about 250 students and teachers participated in the events enthusiastically.

International Museum Day Celebration: Regional Science City, Lucknow celebrated International Museum Day on May 18th 2019 by organizing a science film show, exhibit hunt quiz contest and an innovative workshop on 'Hands on Activities' was held for school children. About 150 students participated in entire event.

Summer Vacation Hobby Camps: Regional Science City Lucknow organized three summer vacation hobby camps from May 20th 2020 on different disciplines of science. About 250 students from different local schools participated in various camps.

Ground Water Week Celebration: Regional Science City, Lucknow in association with Ground Water Department, Uttar Pradesh organized the weeklong celebrations on Ground Water awareness from July 16th to 22, 2019. The entire weeklong programme was fully sponsored with the amount of Rs.4.25 lakhs by the Ground Water Department, Govt. of Uttar Pradesh.

Vrikshabhushan Karyakaram: On July 11th, 2019 a special programme on "Vraksha Bhushan" was organized jointly by Dainik Jagran, SKD Academy and Regional Science City, Lucknow. About 150 trees were planted by the gathering and invited guests.

Plantation Programme to celebrate 'Gandhi-150': On July 30th and 31st, 2019 a plantation programme was organized to commemorate Gandhi 150 celebration. Around 100 trees were planted by students, teachers, general visitors and RSCL staff members within the premises.

International Ozone Layer Conservation Day

Celebration: Regional Science City, Lucknow in collaboration with Directorate of Environment, UP commemorated the International Ozone Layer Conservation Day from September 14th to 16th, 2019. On this occasion various educational events was held and about 526 students from different schools participated.

30th Anniversary of RSCL: 30th Anniversary of Regional Science City was celebrated during September 7th - 21st, 2019. Various educational programmes for school students were held and more than 1000 students were participated.

Hindi Pakhwara: Regional Science City, Lucknow organized various contests on the occasion of 'Hindi Pakhwara' from September 14-30th, 2019 for staff members of RSCL.

Hindi Karyashala: RSCL organized a workshop on "Karyalaya Mein Rajbhasha Ke Protsahan Hetu Charcha" on September 24th 2019 which was conducted by Dr. Vijay Narayan Tiwari, Former Hindi Officer, CSIR-CDRI Lucknow. The workshop was attended by 27 officials of centre who were trained for working in Hindi smoothly.



Launching of new Mobile Science Exhibition buses for aspirational district of Uttar Pradesh: Regional Science City, Lucknow launches 2 new Mobile Science Exhibitions titled 'Energy' and 'Mechanic in every day Life' for the benefit of students, teachers and general public of aspirational district of Uttar Pradesh. The MSE 'Energy' was inaugurated on September 5th, 2019 at Bahraich district and the 2nd MSE 'Mechanic in every day Life' was inaugurated on September 14th, 2019 at Varanasi.

National Unity Day: Regional Science City, Lucknow celebrated National Unity Day: Birth Anniversary of Sardar Vallabhbhai Patel on October 31st, 2019 by organizing various interactive educational programmes for the school students as well as general public.

150th Birth Anniversary of Mahatma Gandhi: Regional Science City, Lucknow celebrated 150th Birth Anniversary of Mahatma Gandhi on October 2nd, 2019 in its premises. On this occasion a 'Sketch Making Contest' titled "Sketch the Mahatma" was held. About 250 students took part.

Dr. Vikram A. Saraabhai Centenary Celebration-

2020: Regional Science City, Lucknow organized a series of popular programmes on the occasion of Dr. Vikram A. Saraabhai Centenary Celebration in association with ISRO Telemetry, Tracking & Command Network and Indian Institute of Remote Sensing, Lucknow from January 17th to 22nd, 2020. On this occasion a special 'Space Exhibition' has been displayed by the ISRO in the campus of RSCL. In all about 1400 school children took part in various events held on this occasion.

Innovation Festival: Regional Science City, Lucknow organized 3-days long Innovation Festival from January 29th to 31st, 2020. This Innovation Festival was inaugurated by Shri Kumar Keshav, Managing Director, Uttar Pradesh Metro Rail Corporation Ltd. Lucknow. About 1800 school children, teachers and general masses participated in entire program during the period.

International Women Day-2020: On the occasion of International Women Day, Regional Science City, Lucknow organizes an open house quiz programme for housewives on March 8th 2020 on the topic 'The achievements of women in Science'. Around 50 housewives/women's took part in this programme.

A newly developed gallery on "Sports & Fitness" at Regional Science City, Lucknow inaugurated on 20th February, 2020 by Smt. Sanyukta Bhatia, Hon'ble Mayor, Lucknow. The exhibition is showcasing the exhibits related to sporting activities which involves physical ability, skill and progressive resistance training. This exhibition is showcasing the application of scientific knowledge such as bio-mechanics, endurance and energy requirement, physiology, psychology, nutrition, counselling & aerodynamic principles in sports training. This knowledge provides the cutting edge and improves the performance level of sportsperson.



Science Film Festival: Regional Science City, Lucknow in association with Goethe Institut, Max Mueller Bhavan, New Delhi has organized Science Film Festival for the school students from November 25th to 28th, 2019. More than 2500 school students of different age group were participated in the film Festival.

Visit of Underprivileged Children to the Centre: About 5000 underprivileged children/students of different NGO's visited the centre during the year under the special visit programme. All facilities of the centre including gallery guided programme was arranged for these students.

Science Festival

RSC, Lucknow organized a Science Festival from November 13th to 15th 2019, during this period a City Level Science Fair and Science Drama was held. In this Science Fair 65 projects were displayed including 30 individual projects and 35 team projects. In continuation this festival a City Level Science Drama contest was also held on November 14th 2019 in which 8 teams of different schools took part.



Swachhta Pakhvada

RSC, Lucknow organized various educational programmes from April 16-30, 2019 during swachta pakhwara. The programme started with pledge taking, Written science quiz on 'Health & Hygiene, Interactive workshop on 'Hand-Washing' was organized in which 400 students & teachers from different schools participated. Poster Making, Quiz and Slogan Writing Contest were also organized. Cleanliness drive was taken up by the staff members in their respective sections.

Summer Vacation Hobby Camps



Regional Science City Lucknow organized three batches during summer vacation hobby camps from May 20, 2019 on different disciplines of science. About 250 students from different local schools participated in various camps.

World Environment Day Celebration



RSC, Lucknow in association with Environment Directorate, UP organized a number of educational event to mark the World Environment Day from June 4th to 5th 2019. The famous TV and Film Artist Shri Pranay Dikshit who acted in the movie “Roar; Save the Tiger” was also present on this occasion. He answered various questions raised by the participating students related to his movie and endangered animals. More than 650 students enthusiastically participated.

National Science Day Celebration



Regional Science City, Lucknow in association with NASI- Lucknow Chapter, organized National Science Day celebrations from February 27th to 28th, 2020. About 500 school children participated from different local schools.



Exhibition 'Celebrating the Periodic Table'

A special Exhibition on the title “Celebrating the Periodic Table” displayed at Regional Science City, Lucknow was inaugurated on December 12, 2019 by Dr. Tapas Kumar Kundu, Diretor, CSIR-CDRI, Lucknow.

RSCL

KPSC

Kurukshetra

KPSC participated in **International Geeta Jayanti Mahotsava**, a local fair organized by Kurukshetra Administration from November 23rd, 2019 to December 10th, 2019. The Centre participated with portable exhibits, NCSM Nationwide Panels & educational kits. Regular Science demonstrations were held for the general visitors and school groups visiting the Mahotsav. More than 5 Lakh people visited the exhibition during the period.

KPSC participated in **Craft and Saras Mela** from November 23rd, 2019 to December 10th, 2019 and displayed panels on NCSM Nationwide and portable exhibits on Fun Science. Regular demonstration on Science verses Miracles were also done during the period.

A Centre Level Painting & Essay writing Contest on “Gandhi at 150” was conducted at KPSC on February 14th, 2020 in which 200 students participated.

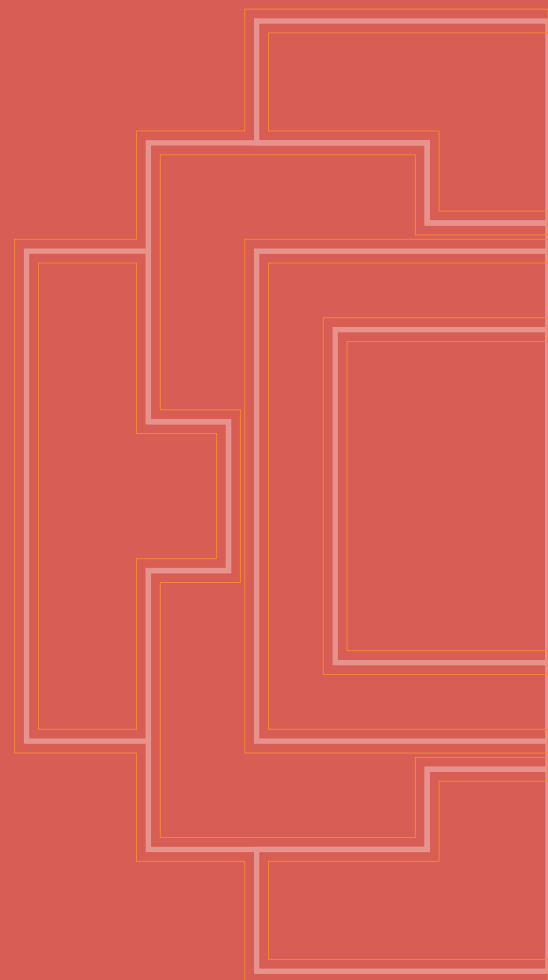
District Level Science Fair: District Level Science Fair was organised on November 21st & 22nd, 2019 in which about 200 students and teachers and 70 projects were displayed.

District Level Science Drama: District Level Science Drama was organized on November 4th, 2019 in which 7 teams from the schools of Kurukshetra, Karnal, Kaithal and Bhiwani presented the performance.

Sky Observation Programme: The Centre organized 70 programmes in which 1646 students & general visitors participated.

Teachers' Training Programme: 37 teachers attended and developed 12 teaching aids during the training programme.olio Immunisation & Swachhata Pakhwada.

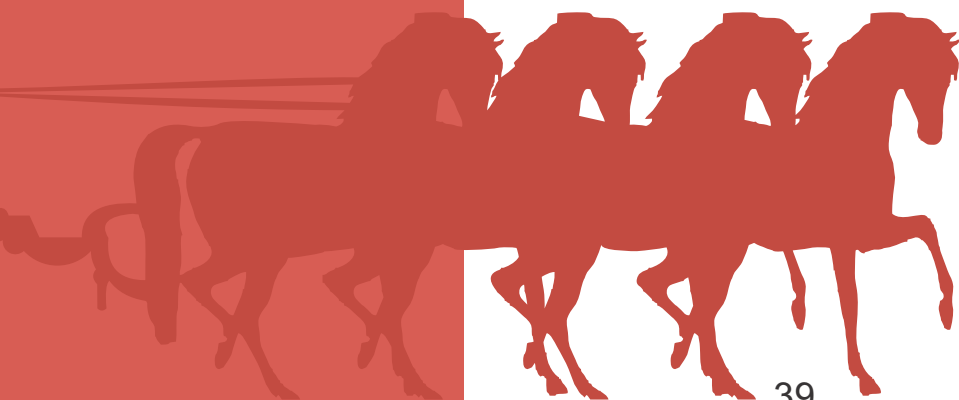
Community Programmes: Public Demonstration Lectures (Science & Miracles) World Environment Day, Pulse Polio Immunisation & Swachhata Pakhwada.



Centre has organised Science Film Festival in collaboration of Goethe-Institut / Max Mueller Bhavan, New Delhi for school students from November 8th to 15th, 2019. The main objective of the programme is to promote science literacy and facilitates awareness of contemporary scientific, technological and environmental issues through international films with accompanying educational activities. The Science Film Festival presents scientific issues accessibly and entertainingly to a broad audience and demonstrates that science can be fun. The students were taken to the guided visit to the galleries, Science Park and other facilities of the Centre. About 1500 students participated in the Programme.

A Space Science Exploration Program conducted on December 31st, 2019 at Kurukshetra Panorama and Science Center, Kurukshetra in collaboration with Tec mantra labs, Kurukshetra and International Space Education Institute, Germany. Under Space Science Exploration Program all schools in Kurukshetra were invited to participate in district Level student activities: Sit and Draw Contest, Open House Quiz Contest, Innovative poster with Article Contest. International Guest & Key Note Speaker of the day was Mr. Ralf Heckel (Director, ISEI Germany) This Programme was designed to motivate, encourage and develop interest of school students toward Space Science Education.

Mr. Ralf Heckel, addressed students and guided them about Space Science opportunities in the World. In this activity, student had shown their creativity by participating in painting contest, open Quiz Contest and Poster presentation with article writing. Finally, student with best results was awarded in the end of ceremony. Special arrangements were done for the webcast of India's most prestigious Mission Chandaryaan-2 at the reception of the Centre. Live streaming of Launch of Chandaryaan-2 was arranged for visitors and school students from 1.30 pm to 5.30 pm on July 22nd 2019. They were also informed about the mission and its usefulness to India. Kurukshetra Panorama & Science Centre organised programme to view the Solar Eclipse at Brahmasarovar & Science Park of the centre on December 26th, 2019. About 50,000 visitors attended the programme. The Kurukshetra Panorama & Science Centre organised a number of educational activities for school students to commemorate centenary of Jallianwala Bagh Massacre on May 9th 2019. On the occasion of Jallianwala Bagh Massacre, the Centre organised a number of educational activities for the school students in the form of Sit & Draw Contest and Slogan writing contest. A popular lecture on "Jallianwala Bagh Massacre" was also delivered by Dr. Sukhdev Saini, Chairman, Department of Ancient Indian History, Culture & Archaeology, Kurukshetra University, Kurukshetra who was also the chief guest of the programme. More than 250 students from 10 different schools from in & around Kurukshetra participated enthusiastically in the events organised on the occasion.







A Glance...





1. General Information

Name of the Centre	National Science Centre Delhi	Regional Science City Lucknow	Kurukshetra Panorama & Science Centre, Kurukshetra
Name of Head of Museum/Centre and Designation	Shri D. Rama Sarma Director	Dr. Raj Mehrotra Project co-ordinator	Shri K. Srinivasa Nehru Project co-ordinator
Full Address	Near Gate No.1 Pragati Maidan, Bhairon Road New Delhi -110001	Aliganj Extension Sector-E, Ekta Vihar Lucknow - 226024	Pehowa Road Kurukshetra - 136118 Haryana
S.T.D.	011	0522	01744
Phone Number of Director/PC	2337-1946	2321804, 2327833	251100
EPABX	2337-1297, 2337-1893 2337-1945	2321804	270810
Telefax E-mai	2337-1263 nscdl01@gmail.com	rsclu89@rediffmail.com pcrscl@gmail.co	kpsckkr@gmail.com
Website	nscdelhi.org, nscd.gov.in	rscl.nscd.gov.in	kpsc.nscd.gov.in
Hours of opening	09:30 am to 6:00 pm	9.30 am to 6.00	9.30 am to 6.00
Closed on	Diwali & Holi	Diwali & Holi	Diwali & Holi
Admission Fee i)General Public ii)Genral Entry (Group more than 25) iii)Genral Entry (BPL Card holder)	i)Rs.60/- per head ii)Rs.50/- per head iii)Rs.5/- per head	Rs.30/- per head 25/- per head Rs.5/- per head	Rs. 40/- per head Rs. 35/- per head Rs.5/- per head
Admission Fee i)Student group (Pvt. Schools) ii)Student group (Govt. Schools)	i)Rs.25/- per head ii)Rs.20/- per head	Rs.15/- per head Rs.5/- per head	Rs10/- per head Rs.5/- per head
3-D Film Show/ Science on Sphere i)General Public ii)General Public (in Groups)	i)Rs.25/- per head ii)Rs.20/- per head	Rs.20/- per head Rs.15/- per head	Rs.20/- per head

3-D Film Show/ Science on Sphere i)Student Group (Pvt. Schools) ii)Student Group (Govt. Schools)	i)Rs.20/- per head ii)Rs.10/- per head	Rs.15/- per head Rs.10/- per head	Rs. 10/- per head Rs. 5/- per head	
SDL/Taramandal i)General ii)Student Group (Pvt. Schools) iii)Student Group (Govt. Schools)	I) Rs.10/- per head ii) Rs.10/- per head iii) Rs.5/- per head	10/- per head Rs. 10/- per head Rs. 10/- per head	Rs. 10/- Rs. 10/- Rs. 10/-	
Space Theatre General Visitor Student group	–	Rs.50/- per head Rs.30/- per head	–	
Inaugurated on	January 9 th , 1992	September 7 th , 1989 Upgraded to Regional Science City on 21 st Sept. 2007	March 6 th , 2001	
Total floor Area in Sq. M.				
18,773		8186	4000	
Staff strength	Scientific	5	2	1
	Technical	59	15	8
	Admn.	30	8	6
	Total	94	25	15

Financial Data

Financial Year -2019-20				
FY	EXPENDITURE			
2019-20	UNIT	GIA-GEN	GIA-SALARY	GIA-CCA
	NSCD	526.68	1048.94	164.50
	RSCL	288.36	256.77	47.40
	KPSC	117.47	96.27	111.95
	TOTAL	932.51	1401.98	323.85

FY	HEAD	FUND
2019-2020	GIA-GEN	230.93
	GIA-SALARY	1309.00

FY	EXPENDITURE			
	UNIT	GIA-GEN	GIA-SALARY	GIA-CCA
	NSCD	526.68	1048.94	164.50
2019-20	RSCL	288.36	256.77	47.40
	KPSC	117.47	96.27	111.95
	TOTAL	932.51	1401.98	323.85

FY	HEAD	FUND
2019-2020	GIA-GEN	230.93
	GIA-SALARY	1309.00
	GIA-CCA	321.39*

*Fund received. Rs. 250.25 & Rs. 71.14 amount adjusted during the FY 2019-20

RECEIPTS				
FY	NSCD	RSCL	KPSC	TOTAL
2014-15	193.94	115.00	147.10	456.04
2015-16	237.10	119.89	171.36	528.35
2016-17	265.04	126.02	173.70	564.76
2017-18	328.12	141.33	175.41	644.86
2018-19	314.42	156.40	193.66	664.48
2019-20	337.18	146.65	186.75	670.58

*All figures are in lakhs

VISITORS

S.No	Visitors	NSCD	RSCL	KPSC
1.	Number of school groups	2594	1186	1638
2.	No.of students in groups	259335	95824	113788
3.	No.of general visitors	301772	252095	494468
4.	No.of outreach visitors	345769	109646	713200
5.	Total no.of visitors	906876	457565	1321456

Note: Graphs showing visitors details and comparative data are enclosed at Annexure - I.

2. EXISTING GALLERIES

Name of the Centre/ Museums	Name of the gallery	Floor area (sq.m.)	Date of first Inauguration	Date of last major renovation	Number of exhibits
National Science Centre, Delhi	Our Science and Heritage Technology	1135	09.01.1992	21.10.2009	99
	Human Biology	757	09.01.2003	--	55
	Uniqueness of Human Life	204	02.06.2008	--	16
	Prehistoric Life	959	08.08.2004	--	42
	Fun Science (including 3D, Spark Theater & Science Show)	1007	09.01.1992	14.01.2006	79
	Nuclear Power	677	16.01.2016	--	58
	Information Revolution	987	09.01.1992	March 2009	65
	Digital Information Revolution	348	09.01.1992	24.06.2006	41
	Emerging Technology	845	01.09.1996	21.07.2007	62
	Water- The Elixir of Life	200	14.12.2010	-	45
	Energy Ball	122	09.01.1992	-	23
	Innovation Space	200	23.01.2014	-	45 kits
	Biotechnology Lab	110	22.04.2016	-	40
	Science on Sphere	110	07.06.2016	-	--
	Communication Saga	200	09.01.2016	-	-
	Reception Area	316	- -	17.03.2014	12
	Temp. Exhibition Gallery	496	-	-	--
	Holo Show	74.4	14.11.2018	—	---

Name of the Centre/ Museums	Name of the gallery	Floor area (sq.m.)	Date of first Inauguration	Date of last major renovation	Number of exhibits
Regional Science City, Lucknow	Fun Science	400	20.05.1995	March, 2005	50
	Fluidics	400	07.09.1989	Sept. 2008	64
	Popular Science	400	07.09.1989	March, 2004	Under Renovation
	Water-Our Life	400	24.12.2012	–	39
	Children Gallery	400	08.06.2011	4.11.2016	32
	Under water Exploration	680	21.09.2007	–	67
	Being Human	410	21.09.2007	–	41
	Biotech. Revolution	207	21.09.2007	–	66
	Aquamobile	130	21.09.2007	2009	01
	Scimax Hall	380	21.09.2007	–	01
	Pre historic life park & Light & Sound Show	4500	15.02.2008	—	41
	Science Park	Open Area	07.09.1989	—	67
	Wonder World of Materials Gallery	400	19.12.2009	—	68
	Innovation Hub	296	04.01.2016	—	—
	Sports & Fitness	373	20.02.2020	--	35
Kurukshetra Panorama Science Centre Kurukshetra	Ground Floor a. Our Heritage	1520.25	06.03.2001	31.03.2013	47
	Ground Floor b. Fun Science		06.03.2001		88
	First Floor a. Panorama	1371.15	06.03.2001	30.04.2018	11
	Science Park	12500	06.03.2001	31.03.2017	38
	Panorama Hall				11
	3D - Theatre			2015	1
	TV Studio			2017	1
	Herbal Garden		01.03.2019		15

3. NEW GALLERIES / MAJOR RENOVATION

NSCD:

- a) The Centre started a new facility of '**Fantasy Ride**' consisting of a 15-18 seater ride simulator which was inaugurated on January 9, 2020 on the occasion of anniversary of the Centre.
- b) As per the suggestion of Governing Body, NCSM, a **Herbal Garden** was developed in one of the terraces in the building.
- c) Setting up work of Sub-Regional Science Centre, Palampur is at an advanced stage. Construction of main building with science park, landscaping has been completed. Exhibit installation work is in progress.
- d) Setting up of Sub-Regional Science Centre at Almora, Uttarakhand has been taken up. The foundation work has been completed and the columns construction above foundation is in progress.
- e) Nsc, Delhi developed **3 sets of MSE exhibits on 'Energy'** including 3 sets of travelling SDL kits on Energy and Fun Science. MSE bus is equipped with unique **VR based educational content** to be experienced using head mounted displays

RSCL:

- a) A newly developed gallery on "**Sports & Fitness**" at Regional Science City, Lucknow has been inaugurated on February 20th, 2020 by Smt. Sanyukta Bhatia, Hon'ble Mayor, Lucknow
- b) The '**Being Human**' gallery that depicts human behavior science and how it evolved from pre-historic life was set up a long back.
- c) A new Scimax show titled "**Journey to Space**" was inaugurated on September 24, 2019 by Dr. V. V. Srinivasan, Director, ISRO, Telemetry Tracking and Command Network, Bengaluru, Dept. of Space, Govt. of India.
- d) 6 Nos. exhibits have been renovated and also 10 Nos. of new exhibits have been fabricated for **popular science gallery**.

KPSC

4. EXISTING MOBILE SCIENCE EXHIBITS IN THE CENTRE/ MUSEUM

Title of the Unit	Name of the Centre	No. of Exhibits	Year in which unite was developed	Year of major renovation
Mathematics Understading	RSC, Lucknow	24	2015-16	---
Energy: The Lifeline of Mankind		20	September 2019	---
Energy: Machines in Everyday Life		20	September 2019	---
Understading Mathematics	KPSC, KKR	24	2014-15	---

5. NEW TEMPORARY EXHIBITION

Name of the Centre	Name of the Exhibition/project	No. of Exhibits	Date of Inauguration
NSCD	Superbugs – The End of the Antibiotics Era ?	32	September 6 th , 2019
	Vigyan Samgam	80	January 21 st , 2020
	The Tribute to Nobel Laureates-2019	6	February, 2020 March, 2020
	Corona Virus	8	March, 2020
RSCL	Celebrating the Periodic Table	15	December 9 th , 2019
KPSC	Ban of Single Use Plastics	7	December 31 th , 2019

6. EXHIBIT DEVELOPMENT

	NSCD	RSCL	KPSC
Gallery exhibits	6	10	23
Duplicate exhibits	56	26	05
Park exhibits	0	0	23
MSE exhibits	20	0	0
Taramandal	0	0	0
Kits/aids	19	05	10
Duplicate kits/aids	20	25	60
Temporary exhibits	30	15	7
Total	151	81	128

Note: List of major exhibits and kits developed during the year is given in Annexure-II

7. PLANNING FOR THE YEAR 2020-2021

NSCD

Sl. No.	Name off the Scheme
1.	Setting up Election and Democracy Museum in Dwarka, Delhi,
2.	Setting up of Chandrasekhar Azad Gallery in the Allahabad Museum, (Prayagraj, UP) by Ministry of Culture.

8. MOBILE SCIENCE EXHIBITION PROGRAMMES

	NSCD	RSCL	KPSC
No. of exhibition sites	25	64	51
No. of exhibition days	84	139	150
No. of film shows	56	169	0
No. of visitors to exhibition	84736	66917	140000
No. of visitors in film shows	162886	27434	0
Distance traveled (in Kms)	6082	1692	2575



9. SCIENCE EDUCATION ACTIVITIES

a) Science Demonstration Lectures (SDL)

Science Demonstration Lectures are conducted for providing an exposure to the teachers on the effectiveness of use of simple experimental demonstrations during the classroom lecture, made out of low cost materials and with hand tools. This method is conducive for interactive learning through the process of raising questions, making observations, logical reasoning and arriving at inferences to postulates of basic scientific principles.

Name of the Centre	Name of the SDL unit	No. of Lectures Held in Centre	No. of Students Attended	No. of Lectures Held outside	No. of Students Attended
NSCD	1.Liquid Nitrogen 2.Unexpected Science 3. Sound 4. How Animals Walk 5. Fun with Physics 6. Air Pressure 7. Heat	648	32,400	79	95159
RSC Lucknow	1.Super Cooled Show 2.Air Pressure 3.Sound 4.Chemical Demonstration 5.Our Body 6.Light	494	19884	2	2665
KPSC Kurukshetra	1. Science & Miracles 2. Sound 3. Surprising Chemistry 4. Liquid Nitrogen 5. Heat 6. Air Pressure 7. Our Human Body	246	12,300	84	140000

b.Environment Awareness Programmes

Name of the Centre	Name of the Programme	Date of the programme	No. of Participants
NSC Delhi	World Environment Day	June 5,2019	350
	Earth Day	April 22, 2019	200
	Swachh Bharat Mission	April 16 to 30, 2019 and September 16 to 30,2019	300
	Earth Day	April 22 2019	900
	International Biodiversity day	May 22, 2019	225
	World Environment Day	June 4 -5, 2019	185
	Ground water week	July 16-22, 2019	14600
	International Ozone conservation Day	September 14-16 2019	526
KPSC	World Environment Day	June 05 2019	70

C . SCIENCE FILM SHOW

Name of the Centre	Date/Duration	Title/Theme	No. of Shows	No. of Total Visitors
NSC,Delhi	January23 & 24,2020	The Sense of Beauty	4	1000
	December17-19,2019	Our Environment	4	1100
RSC,Lucknow	August 19-31 2019	Science & Technology	22	1500
	November 25-28 2019	Environment Education	16	2502
KPSC,KKR				

D. POPULAR SCIENCE LECTURES

Name of the Centre	No. of Lectures	No. of Audience
NSC,Delhi	96	24,300
RSC,Lucknow	36	9880
KPSC,KKR	15	3000

Note: List is given in Annexure – III

E. Taramandal Shows

Taramandal is a portable mini planetarium with an inflatable dome and simple projection equipment providing an opportunity to promote interactive learning of elementary astronomy. It could also serve the purpose of an improvised dark room for conducting scientific experiments requiring dark room facilities.

Name of the Centre	Number of Shows held	Number of Audience
NSC, Delhi	320	9603
RSC, Lucknow	667	12265
KPSC, Kurukshetra	374	9023

F. Sky Observation

Name of the Centre	No. of Programmes held	No. of Participants
NSC, Delhi	43	2043
RSC, Lucknow	49	1573
KPSC, Kurukshetra	70	1646

G. Science Quizzes

Name of the Centre	No. of Quizzes held	No. of Participants	No. of Audience
NSC, Delhi	73	3655	5619
RSC, Lucknow	52	1573	1675
KPSC, Kurukshetra	12	1584	1750

10. Video/ Computer Software/ Multimedia Software Developed

Name of the Centre	Name of the Exhibit	Formet	Duration
NSC Delhi	Plan Your Energy	Switch operated Computer based interactive multimedia	User interactive
	Fossil Fuel	Switch operated Computer based interactive multimedia	User interactive
	Power Generation	Switch operated Computer based interactive multimedia	User interactive
	Fission and Fusion	Switch operated Computer based interactive multimedia	User interactive
	Energy Quiz	Switch operated Computer based Unmanned Quiz interface	User interactive
	Being Human Quiz	Switch operated Computer based Unmanned Quiz interface	User interactive
	Group HMD based VR Broadcasting system	VR based show with 10 nos. of educational titles	Show
	Continental Drift	Switch operated Computer based interactive multimedia	User interactive
	Disaster Quiz	Switch operated Computer based Unmanned Quiz interface	User interactive
	Space Adventure	3D Film	17:01 Minutes
	Mysteries of Earth	3D Film	16:03 Minutes
	The Underwater	3D Film	16:41 Minutes
	Plan your Energ	Switch operated Computer based interactive multimedia	User interactive
	Nuclear Fusion	Animation	00:13 Minutes
	QR Scanner App	QR code based Android App	User interactive
	How Fuel Cell works	Animation	05:33 Minutes
	Crude Oil Distillation	Animation	00:10 Minutes
	MSE AR App	Augmented reality based Android App	User interactive
	Superbug Intro Movie	Introduction movie	02:28 Minutes
	Volcano projection mapping	Projection mapping of lava	User interactive
	Virtual tornado	Switch operated Computer based Virtual reality based interactive multimedia	User interactive
	Election Commission 360 app	360° Virtual reality video app	User interactive

RSC, Lucknow	-----	-----	-----
KPSC, Kurukshetra	-----	-----	-----

11. CREATIVE ABILITY

a). Vacation Hobby Camps

Name of the Centre	Number of Camps held	Number of Projects Completed	Number of Participants
NSC, Delhi	23	1880	666
RSC, Lucknow	19	250	275
KPSC, Kurukshetra	10	50	110

b) Science Fair

Name of the Centre	Date & Duration	Name of the Science Fair	No. of Schools Participated	No. of Students /participants	No. of Projects
NSC, Delhi	November 29, 2019	City Level Science Fair	106	126	42
	December 4-6, 2019	Northern India Science Fair	47	64	47
RSC, Lucknow	November 13-15, 2019	Science Festival	16	100	65
KPSC, Kurukshetra	November 21-22 2019 , 9.30am-3.00 pm	City Level Science Fair	26	300	70

c) Date, Duration & Streams of Vacation Hobby Camps

Name & Venue of programme	Date/Duration	Streams/Subjects	No. of Participants	No. of projects
NSC, Delhi	May 20 to June 7, 2019	Scientific Toy Making (Junior) Scientific Toy Making (Senior) Exploring Nature Astro Lab Wonders of Electronics Robotics & Biotechnology	666	1880
Regional Science City, Lucknow	May 20 to June 7, 2019	1.Creative Kids Art 2.Astrolab 3.Science Sparkle 4.Exploring Nature 5.Robotics 6.Mobile App Making 7.Fun with Electronics 8.Arduino Workshop 9.Know the herbs	19	250
KPSC, Kurukshetra	First batch from June 3 to 7, 2019 & Second batch from June 10 to 14, 2019 (Daily 10.00 am to 1.30 pm)	1. Creative Art 2. Scientific Toy Making 3. Exploring Nature 4. Wonders of Electronics 5. Vedic Maths	110	50

12. CONFERENCES, TRAINING/WORKSHOPS & OLYMPIADS

a) Teachers' Training Programmes (TTP)

Teachers' Training Programme envisages providing an opportunity and exposure to school teachers in handling of simple tools, raw materials and also introduces techniques as well as ideas for developing low cost teaching-aids with ultimate goal of 'build your own laboratory'. Specially designed TTP was organised for the school teachers of various schools of Delhi and adjoining areas at National Science Centre, Delhi. Regional Science City Lucknow and KPSC, Kurukshetra also conducted TTP for the teachers.

Vanue of Programme	Number of programme	No. of Teachers Trained	No. of Teaching Aids /Kits Developed
NSC, Delhi	13	520	438
Regional Science City Lucknow	3	61	60
KPSC, Kurukshetra	06	37	12

b) Robotics boot camps/ Computer Training Programmes (TTP)

Name of the Centre	Number of programme	Duration	No. of Participants	Subjects
NSC, Delhi	0	--	--	--
Regional Science City Lucknow	54	2 hours each	2730	Robotics
KPSC Kurukshetra	0	--	--	--

C. CONFERENCES, TRAINING/WORKSHOPS & OLYMPIADS

National Science Centre, Delhi

The Centre organised an orientation programme on 'Low Cost Teaching Aid' on April 8, 2019. The In-service teachers from Kendriya Vidyalayas of Delhi & NCR and Science Coordinators from SDMC schools attended the orientation programme. About 200 in-service teachers attended the programme and developed 40 teaching aid.

The National Science Centre, Delhi organised a workshop an Odyssey of Elements for Science teachers on August 28 & 29, 2019. Teaching faculty from Department of Chemistry, Hindu College presented the demonstration on 'Green Chemistry' and 'Fun with Chemistry'. The faculty from Indian Institute of Gems and Gemmology demonstrated on designing & processing jewellery and extraction of gold from old Jewellery. The faculty from NCERT gave demonstrations on curriculum based experiments. The brainstorming sessions for teachers were also held to develop innovative experiments in chemistry. 32 teachers attended the interactive workshop.

The Centre organized Teacher's Orientation Programme on February 28, 2020 on the topic 'Digi Abhyas' in collaboration with Learning Links Foundation, Delhi. About 350 pre service teachers participated in the programme.

The Centre participated in the Science Symposium organized by Directorate of Education, Govt. of Delhi at Government Sr. Sec. School, Ambedkar Nagar, and New Delhi on July 26, 2019. The Centre also participated in the Science Carnival organized by Khaitan Public School, Noida on July 22, 2019.

RSC, Lucknow

Workshop on 'Know the Herbs': A 2-day workshop on making herbal cosmetics from the natural plant & fruits was organized at Regional Science City, Lucknow during May 30-31, 2019. The workshop was attended by 10 homemakers who learned about how aromatic oils present in various herbs found in nature are capable of curing many diseases. This therapy which is known as Aroma Therapy is becoming very popular worldwide.

Workshop on Hydroponics: The art of growing plants without soil: A Workshop on Hydroponics was organized on July 18th 2020 where a live demonstration on how to grow plants and vegetables without soil with minimal water consumption. Through this technique, plants can be protected from dangerous pesticides and fertilizers.

World Robotic Olympiad: Regional Level Contest of World Robotic Olympiad-2019 was held on August 10th & 11th, 2019 at Sunbeam Sun City, Varanasi. 22 Teams were participated in Regional level contest. About 1000 students were present on this occasion.

Regional Science City, Lucknow organized various workshops during Innovation Festival-2020 in the premises of centre like innovative teaching learning workshop for school science teachers, workshop on Math-O-Magic, Aroma Oil Extraction, Hydroponics, Arduino, 3-D Printing, NXT Robotics and making of Bonsai were also conducted for participating students and teachers.

KPSC, Kurukshetra

The Centre organized 06 interactive one-day Teachers Training Programme for Pre / In - service teachers on December 27, 2019, 20th & January 21 and February 25, 2020. Teachers from GDR College of Education, Chandauli, Panipat and Budha College of Education, Rambha, Karnal participated in this Teachers Training Programme. Teachers were given Science Demonstrations on Interesting Physics, Sound, Liquid Nitrogen and Fantastic Chemistry & Biology. They were given a guided gallery visit and other facilities of the Centre. An interactive session on How to develop curriculum based educational kits was conducted for the teachers. Later on they learnt about to make good Teaching Aids and Models viz. Simple Camera, Periscope, Value of Pie, etc. 37 teachers participated in this programme and learned on better teaching skills in various branches of science with the objective of how the conventional classroom teaching could be made interactive & interesting by using this non-formal modes such as teaching aids & models. They developed 12 teaching aids.

The Centre organized Workshop on Hindi on June 8th, 2019. On this occasion PC, KPSC advised all staff members to do more & more official work in Hindi. All staff members of KPSC participated in this Hindi Workshop. The emphasis was given to

improve knowledge about Hindi language and its use in office work. A word dictionary in Hindi-English of daily use words was also prepared during the workshop. The Centre organised Hindi Pakhwara from September 14 to 28 2019. During the period various contests like हिन्दी आशुभाषण प्रतियोगिता (Hindi Asubhasan Contest) हिन्दी टिप्पणी लेखन प्रतियोगिता (Hindi Tippani Lekhan Contest) एवं हिन्दी निबन्ध लेखन प्रतियोगिता (Hindi Nibandh Lekhan Contest) etc. were organised for the staff members of Kurukshetra Panorama & Science Centre. The objective of the programme was to encourage the officials on the use of Hindi Language in their day-to-day works. All the staff members of KPSC participated in different contest enthusiastically and cash prizes was also given to the winners of above contests by the chief guest Sh. Rajender Rana, Head of Srikrishna Museum, Kurukshetra.

Yoga Practices and training were arranged for the staff members of the Centre on June 21 2019 on the occasion of International Day of Yoga in the afternoon from 12.30 pm to 2.30 pm. Yoga trainer Dr. Rajni Bali, Yoga Trainer, Department of Physical Education, Kurukshetra University, Kurukshetra taught about different Asanas and Pranayams. All

13. COMMUNITY PROGRAMMES

NSC, Delhi

A special focus was created, under the directives of Ministry of Culture, to expose the science centre to the Under-privileged Children of the society. Under this program, NSCD facilitated the visit of 8696 under privileged children.

A special visit for a group of cancer patients, mostly children was organized on April 10, 2019. The visit was made possible with the help of an NGO, CanSupport, engaged in spreading awareness on the causes of cancer disease, prevention & treatment. About 100 children including NGO's staff visited on the occasion.

The Centre organised a Health Check-up Camp with support from B. L. Kapoor Hospital, New Delhi on

April 8, 2019. The objective of the camp was to create awareness about keeping good health & hygiene. About 100 people including office staff, security & sanitation keeping staff attended the camp.

The centre organized Partial Solar Eclipse Observation Programme on December 26, 2019. The arrangements were made for direct observation of partial eclipse through telescope fitted with filters for students and general public. Solar Filter goggles were distributed to observe the rare celestial event. Apart these, live webcast of annular solar eclipse, an awareness workshop on Eclipses were also organized for the visitors.

A concerted effort was made to organise Science Festivals for about 60 days during Nov-Dec. 2019 at Firozpur & Moga district in Punjab; Haridwar, Udham Singh Nagar, Champawat & Bageshwar in Uttarakhand; and district Balrampur, Siddharth Nagar, Chaundauli & Sonbhadra in Uttar Pradesh. Apart from display of portable science exhibits, astronomy awareness programme in portable Taramandal, science film shows & SDLs were the components of the programme. Most of the science festivals were organised in aspirational districts of northern states of the country. The festivals were organised in association with Navodaya Jawahar Samiti, Govt. of India & reputed NGOs. During this period, about 2 lakh students/teachers including general public visited the science festivals.

The Centre organized a series of programmes for students/teachers and general public to inculcate the awareness about Swachh Bharat Mission from April 16 to 30, 2019 and September 16 to 30, 2019. The programme started with pledge taking. Nukkad Natak performance on 'Swachhta and Our Society'

was organized followed by a written science quiz on 'Health & Hygiene'. Interactive workshop on 'Hand-Washing' was organized in which students & teachers from different schools participated. Poster Making contest on "Swachhta Hi Seva Hai" was organised for the school students. Quiz contest and Slogan Writing Contest was also organized. Science demonstration lecture on 'Clean Water' was conducted for general public. Cleanliness drive was taken up by the staff members in their respective sections in NSCD. Film show on 'Swachhta' was organized for general public.

International Yoga Day on June 21, 2019 was organised at NSCD. Teacher faculty from Indira Gandhi Institute of Physical Education and Sports Sciences, Delhi University was invited to perform live demo on Yoga practice in the morning. About 575 parents and students participated in the above programs. Contests like Sit & Draw, Open House Quiz for young children were also organised on the occasion.

RSC, Lucknow

International Yoga Day: To mark International Yoga Day Regional Science City, Lucknow organized a special Yoga camp on June 21st 2019 since 5:30 AM onwards. Yog expert Shri Saumil Sharma, Coordinator, Yogic Treatment, Lucknow delivers a popular talk on Health and Yoga.

Live Streaming of Chandrayaan : Regional Science City, Lucknow organized live streaming arrangement to watch the Chandrayaan-2 mission for visitors on July 22nd 2019.

Vigilance Awareness Programme: In order to make the mission of a corruption free India successful, Regional Science City, Lucknow organized a

Vigilance Awareness Program in its premises on November 2, 2019. On this occasion, oath-taking program was organized for making corruption-free India and a popular talk organized which was delivered by Shri Satyam, IPS, Superintendent of Police (Lucknow Sector), Headquarters Vigilance Establishment, Lucknow.

Nukkad Natak: A Nukkad natak was performed by professional artists at various/prominent place of city for awareness of ground water conservation for general masses from 16th & 22nd July 2019.

KPSC, Kurukshetra

Yoga Practices and training were arranged for the staff members of the Centre on June 21st 2019 on the occasion of International Day of Yoga 12.30 pm to 2.30 pm. Yoga trainer taught about different Asanas and Pranayams. The Centre had organised a special Programme for Children with special needs of Asha Deep, Kurukshetra on June 8th, 2019.

Special Science Demonstration Lectures was organised on topics Amazing Physics and Fantastic Chemistry for them. A Pulse Polio immunization Camp was organised at the Centre in collaboration with Lok Nayak Jai Parkash Hospital, Kurukshetra on September 15th, 2019. Polio drops were given to about 148 infants during this Camp.

The Centre organised Swachh Bharat Pakhwara (Cleanliness Drive Fortnight) from September 16th to 30th, 2019 with the help of staff members and school students. Cleanliness Pledge was taken by students, Teachers & Officials of Kurukshetra Panorama & Science Centre, Kurukshetra at the main gate of the centre in the kind presence of Chief Guest Dr. Jitender Kumar Kapoor, Associate Professor, National Institute of Technology, Kurukshetra. Cleanliness March was taken up in the surrounding way to Kurukshetra Panorama & Science Centre, Kurukshetra in which students from different School had participated. During the way of March students from different schools was chanting slogans for keeping cleanliness and were also holding placards written with slogans on cleanliness and its importance to spread message in society. Cleanliness drive was taken up in the entire way of cleanliness march by Kurukshetra Panorama & Science Centre, Kurukshetra in which Chief Guest Dr. Jitender Kumar Kapoor, Associate Professor, National Institute of Technology, Kurukshetra was

participated. Sit & Draw Contest was held at Kurukshetra Panorama & Science Centre, Kurukshetra. In this contest around 150 students of class 6th to 10th from different school were participated and they draw paintings on the topic "Clean India-Our Society". Open House Quiz Contest on the topic "Health & Hygiene" was held at Kurukshetra Panorama & Science Centre, Kurukshetra. In this contest around 100 students of class 6th to 10th from different school were participated and they were asked questions on the Clean India-Our Society. Popular Science Lecture was held at Kurukshetra Panorama & Science Centre, Kurukshetra on the topic "Plastic: Pollution & its impact" by chief guest Dr. Jitender Kumar Kapoor, Associate Professor, National Institute of Technology, Kurukshetra. In this lecture to make them aware why plastic is producing pollution and also its importance in our daily life was given to the students with pre questioner measures to protect our earth from plastic.

14. Science Drama/ Puppetry/Other forms of Performing Art

Name of the Centre	Venue of programme	Description of Media	No. of teams Participated	No. of players Performed	No. of Audience
NSC, Delhi	NSCD	Northern India Science Drama Contest December 4-6, 2019	10	10	810
		Nukkad Natak on Superbugs- The End of Antibiotics ? September 6 - November 17, 2019	-	08	7500
		Nukkad Natak on Swacchata April 16 to 30, 2019 and September 16 to 30, 2019.	10	10	2000
Regional Science City, Lucknow	RSCL	City Level Science Drama Contest	08	08	250
KPSC, Kurukshetra	KPSC	City Level Science Drama Contest	07	07	200

15. COMMEMORATIVE EVENTS

Name of the Centre	Name of the Events	No. of Programmes	No. of Participants
NSC, Delhi	International Day of Yoga	3	216
	World Environment Day	2	350
	International Women Day	3	50
	National Technology Day	2	300
	National Unity Day	1	100
	National Science Day	3	500
	Earth Day	2	200
RSC, Lucknow	Earth Day	2	900
	Jallianwala Bagh Massacre Centenary	2	200
	National Technology Day	2	250
	International Museum Day	4	150
	International Biodiversity day	3	225
	World Environment Day	5	185
	International Yoga Day	2	28
	Ground water week	19	14600
	30 th Anniversay Celebration of RSCL	9	928
	International Ozone conservation Day	5	526
	150 th Birth anniversary of Mahatma Gandhi	3	150
	National Unity Day	2	150
	Vigilance Awareness Week	1	150
	D. Vikram A. Sarabhai Centenary Celebration	11	1400
	National science Day Celebration	4	500
KPSC, Kurukshetra	Earth Day Celebration	3	200
	Heritage Day	3	400
	Commemoration of JallianwalaBagh Massacre	2	250
	National Technology Day	3	300
	World Environment Day	1	70
	International Day of Yoga	5	70
	National Science Day	4	300
	Centre' s Anniversary Day	2	150

16. TEMPORARY EXHIBITIONS

Name of the Centre	Title of the Exhibits	Date/Duration	No. of Visuals/Panels	No. of Working Animated Exhibits
NSC, Delhi	Superbugs- The End of the Antibiotics?	September 6 th , 2019- November 17 th , 2019	32	25
	Vigyan Samagam	January 21 st 2020 -March 20 th 2020	80	--
	Noble laureate	February, 2020	6	1
	Corona virus	March, 2020	8	1
Regional Science City, Lucknow	Mind Over Matter	November 7 th , 2019	37	8
KPSC, Kurukshetra	Mind Over Matter	February 25 th , 2020 -March 15 th , 2020	48	4

17. COLLABORATIVE PROGRAMMES

NSC, Delhi

SL. No.	Name of Collaborative Agency	Programme	Date of programme
1.	PCRA, New Delhi	Lecture programme during summer camps	May 20, 2019 to 7, June 2019
2.	Expression India-NGO New Delhi	Lectures on Understanding Adolescence	June 2019
3.	Katyur Foundation	Science Carnival at Uttarakhand	November 2019
4.	Design Innovation at University of Delhi	Innovative Workshop	May 20-May 25, 2019
5.	Patent & Intellectual Property Right Company Aurbindo Marg, New Delhi	Workshop on 'Patent & Intellectual Property Right'	December 05 2019
6.	Hope Initiative NGO New Delhi	Swachhta Pakhwada Programmes	April & September 2019
7.	Moolchand Hospital New Delhi	Workshop on 'Problems & solution of Adolescence'	May & June 2019
8.	Hara Jeevan NGO New Delhi	Workshop on 'Save Environment'	May & June 2019
9.	Navodaya Jawahar Samiti Govt. of India	Science Festival	November- December, 2019
10.	Expression India-NGO New Delhi	'Conservation of Energy Sources'	June 2019
11.	Embassy of Switzer land	Science Film Festival	January 23 & 24, 2020
12.	Respective SCERT/SISE/ SIE in Northern states & NVS	Northern India Science Drama Competition	December 4-6, 2019
13.	Goethe Institute, Max Muller Bhawan, New Delhi	Science Film Festival	December 17 to 19, 2019
14.	National Geographic	PSL on Chandrayaan-24	September 04, 2019.
15.	Science Museum Group, London, Wellcome (UK) and ICMR	Superbugs: End of Antibiotics?	September 6 – November 17, 2019
16.	Learning Links Foundation, Delhi	Digi Abhyas'	February 28, 2020
17.	Department of Science & Technology and Dept. of Atomic Energy	'Vigyan Samagam – Pushing the Frontiers of Science & Technology'	January 21–March 20, 2020
18.	Respective SCERT/SISE /SIE in Northern states, & NVS	Northern India Science Fair	December 4-6 ,2019
19.	Cyme of Social Development	Uttarakhand Srajan	December 15 to 18, 2019.

RSC Lucknow

Sl. No.	Name of Collaborative Agency	Programme	Date of programme
1.	Environment Directorate, UP, Lucknow	World Environment Day	June 4-5, 2019
2.	Ground Water Deptt. UP, Lucknow	Ground Water Week Celebration	July 16-22, 2019
3.	Environment Directorate, UP, Lucknow	International Ozone conservation Day	September 14 -16, 2019
4.	Goethe Institut, Max Muller Bhavan, New Delhi	Science Film Festival	November 25-28, 2019
5.	ISTRAC-ISRO, Lucknow	Dr. Vikram A. Sarabhai Centenary Celebration	January 17-22, 2020

KPSC, Kurukshetra

Sl. No.	Name of Collaborative Agency	Programme	Date of programme
1.	Sankalp Foundation, Kurukshetra	Bhav Manjari (Kavi sammelan)	July 07, 2019
2.	Indian National Trust for Art and Cultural Heritage (INTACH)	Heritage Quiz Contest	July 18, 2019
3.	Tec mantra labs, Kurukshetra and International Space Education Institute, Germany	Space Science Exploration Programme	December 31, 2019
4.	Indian National Trust for Art and Cultural Heritage (INTACH)	“Gandhi at 150” Painting & Essay writing Contest	February 14, 2020

18. LIBRARY & INFORMATION

Name of The Centre	Item	Total holding as on 31 st March Previous year	No. Acquired during current year	Net holding as on 31 st March of current year
NSC, Delhi	Books	7039	04	7042
	Journals	1288	--	1288
	Audio /Visual (CD-ROM /DVD/Blue-Ray etc.)	787	--	787
	Audio Disc	--	--	--
	Video Disc	--	--	--
	Misc. Disc	--	--	--
RSC, Lucknow	Books	2282	--	2282
	Journals	03	--	03
	Audio Disc	07	–	07
	Misc. Disc	75	–	75
	Video Disc	149	–	149
KPSC, Kurukshetra	Books	1222	–	1222
	Video Cds	257	–	257

19. PUBLICATIONS OF THE MUSEUM/CENTRE

List of Publications from the Museum/Centre

Name of The Centre	Name of the Publication	Process	Number Printed	Expenditure Incurred (Rs.)
NSC, Delhi	Kit Outlay	-----	50	500/-
	A R Jungle Book Printing (Hindi version)	-----	06	4,410/-
	Hexaflexagon	-----	10,000	49,914/-
	Printing of Brochure / Leaflet	-----	05	17,955/-
RSC, Lucknow	Tissue Culture Booklet (9 Pages)	Without tendering process	12	1239/-
	Herbal Plants (82 Pages)	-----do----	01	-----
	Mendleev Periodic Table brochure	-----do----	500	-----
	Mendleev Periodic Table booklet	-----do----	20 pages	476/-
	Sports gallery brochure	-----do-----	1250 Hindi 1250 English	9234/-
	Report of World Environment Day	----do----	96-6 sets	2442/-
	Report of World OzoneDay	----do----	70-7 sets	1864/-
	Report of Dr. Vikram A. Sarabhai Centenary	-----do----	44- 3 sets	1156/-
KPSC, Kurukshetra	Summer Vacation Hobby Camp Booklets	Digital Printing	150	12,000/-

20. CONSTRUCTION

NSC, Delhi

S. No.	Name of the Work	Date of start	Date of completion	Amount (in Rs.)
1.	Seating arrangement of Civil, Computer, Art, Electrical, Electronics sections and modification of old ticket counter at NSC, Delhi	11.06.2019	22.07.2019	Rs. 5,27,413/-
2.	Providing and fixing False Ceiling in ground floor exhibition area (For Super Bugs Exhibition) at National Science Centre, Delhi.	09.07.2019	23.07.2019	Rs. 5,45,343/-
3.	Renovation of guest rooms at 1st floor at National Science Centre, Delhi.	18.09.2019	03.01.2020	Rs. 12,38,887/-
4.	Procurement of FRP planters for different terraces of National Science Centre, Delhi	2.01.2020	26.02.2020	Rs. 414770/-
5.	Providing and fabricating wooden cupboards and workstations in civil section and computer section at National Science Centre, Delhi	17.10.2020	13.12.2019	Rs. 1,94,121/-
6.	Renovation of guest rooms at 2nd floor at National Science Centre, Delhi.	16.12.2019	01.03.2020	Rs. 9,19,457/-
7.	SITC of Portable Fire Extinguishers Water Mist Cum CASF SCBA Set and other accessories for Modernization of Firefighting System of National Science Centre Delhi.	08.01.2020	18.02.2020	Rs. 8,70,781/-

RSC, Lucknow

S. No.	Name of the Work	Date of start	Date of completion	Amount (in Rs.)
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KPSC, Kurukshetra

S. No.	Name of the Work	Date of start	Date of completion	Amount (in Rs.)
1.	Providing & laying garden water supply line at Kurukshetra Panorama and Science Center	18.11.2019	17.01.2020	Rs. 4,41,953/-

21.PROCUREMENT OF EQUIPMENT (Under Pl-5(iv), Costing Rs. 5000/- or more)**NSC Delhi**

Sl.No	Name of the Equipment	Date of Procurement	Cost in Rupees (including GST)
1.	Biometric Machine PBABAS-100 (Precision)	14-05-2019	22,000
2	Lenovo Idea Pad 330 S	27-05-2019	2,49,865
3	Panasonic Lamp with Housing	30-05-2019	1,00,890
4	Projector Lamp PTVX4000	30-05-2019	10,030
5	Pen Tablet Clintiq 22 HD	10-07-2019	1,47,500
6	Acer EB192Q LED 18.5" Monitor	15-07-2019	41,206
7	Intel NUC PC LG Monitor Palas 240 PCUMF5,	16-07-2019	9,26,890
8	Leneovo Tab M 10	29-07-2019	84,016
9	Ceiling Fan 48" 1200 rpm Havells.	30-07-2019	1,05,596
10	Workstation Dell	06-08-2019	6,84,400
11	4 MP Network IR Dome Camera	30-08-2019	12,980
12	Exhaust Fan 15-1400 RPM,	13-09-2019	6,230
13	Biometric Attendance Machine eSSL K90	01-11-2019	7,316
14	Currency Counting Machine	19-11-2019	14,998
15	Hard Disc 2 TB DELL Server R730	06-12-2019	1,40,150
16	Explorascope 114 AZ Telescope ,	16-12-2019	14,000
17	SRV Capsule Simulator (DORON)	17-12-2019	\$363260.48
18	Franking Machine	30-12-2019	93,456
19	LG Display Monitor	17-01-2020	1,18,000
20	Voltas Pure-R Water Dispenser Ref.	23-01-2020	9,263
21	Gyser , Bajaj Shakti Plus Blow Hot	28-01-2020	22,302
22	Hand Pallet (Trolley)	25-02-2020	20,020
23	Weighing Machine	28-02-2020	19,350
24	Canon A/4 Size LBP-6030 B Printer 7,500	19-03-2020	8,850

RSC Lucknow

Sl.No	Name of the Equipment	Date of Procurement	Cost in Rupees
1.	Automatic Boom Barrier - 2 Nos.	02.03.2020	212400.00
2.	4G Android Tablets	23.01.2020	30680.00
3.	Maxell MP-EU5002 Laser Projectors	31.01.2020	336000.00
4.	Telematic Kit	31.08.2019	35901.00
5.	LED Monitor	15.01.2020	23990.00
6.	Dextop Computer (8No)	21.01.2020	369784.00
7.	LED TV (4No)	21.01.2020	85456.00
8.	LED TV 55	14.12.2019	122688.00
9.	Door Frame metal detector Model Gatex	21.12.2019	63960.00
10.	LG 32	21.12.2019	25800.00
11.	LG Monitor 32	21.12.2019	72500.00
12.	Sharp Monitor 40	24.12.2019	47980.00
13.	Touch Screen 32	23.12.2019	102660.00
14.	Group HBD Hardware with 1 no. computer system, 01 no touch screen, 01 no computerised projector system and 01 no. Router for new MSE bus	06.11.2019	1354818.00
15.	Lenovo make Tab- Model No. TBX605 - 2 nos.	06.11.2019	42008.00
16.	Interactive Projector with sensor kit	06.11.2019	172943.00
17.	30 KVA online UPS system, Make Uniline, S. No. UL-K19-B-087	18.11.2019	474336.00
18.	DLP projector- 02 nos.	30.08.2019	154880.00
19.	Portable PA System- 02 nos	30.08.2019	31152.00
20.	Portable computerized telescopic-02 nos.e	30.08.2019	220140.00
21.	Water Purifier-02 no.	30.08.2019	3560.00
22.	Sander Machine	18.10.2019	11210.00
23.	HP Laserjet Printer	22.10.2019	13900.00
24.	3 KVA UPS	11.07.2019	40225.00
25.	LED TV SHARP	25.07.2019	15990.00
26.	Blower Model No. GBL82-270	18.04.2019	9440.00

KPSC Kurukshetra

S.No	Name of the Equipment	Date of Procurement	Date of Procurement
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22 PERSONNEL

a) New Appointment (Regular/Deputation/Adhoc)

S.No	Name of the Centre	Name of Personnel	Designation	Date of Joining
1.	NSC, Delhi	Sh. Ajit Kumar	Technician 'A' (Welder)	01-10-2019
2		Sh. Krishan Kumar Khatwani	Assistant Executive Engineer	10-10-2019
3		Sh. Divya Tawra	Curator 'B' (Mechanical)	30-12-2019
4	RSC, Lucknow	Sh. Rakesh Yadav	Office Assistant-III	14-06-2019
5	KPSC, KKR	-- Nil --		

b) PROMOTION

Name of the Centre	S. No	Full Name of Personnel	Designation prior to Promotion	Designation after Promotion	Effective date of promotion
NSC Delhi	1.	Sh. Mahesh Chand	Office Assistant Gr-II	Office Assistant Gr.- I	04-04-2019
	2.	Sh. Sukhwindra Singh Cauhan	Technician 'B'	Technician 'C'	25-04-2019
	3	Sh. Ram Rati Ram	Artist 'E'	Artist 'F'	25-04-2019
	4.	Sh. Vijay Kumar	Technician 'E'	Technician 'F'	25-04-2019
	5.	Sh. Puran Chander	Technician 'E'	Technician 'F'	25-04-2019
	6.	Sh. Ram Lal	Technician 'E'	Technician 'F'	25-04-2019
	7.	Sh. Anit Bharti	Technical Assistant 'B'	Technical Officer 'A'	25-04-2019
	8.	Sh. Rakesh K.Tripathi	Education Assistant 'B'	Education Officer 'A'	25-04-2019
	9.	Smt. Shashi	Office Assistant – III	Office Assistant – II	01-05-2019
	10.	Smt. Neelu Rajani	Technical Officer 'C'	Technical Officer 'D'	14-08-2019
	11.	Sh. K.R. Pushpanandan	Technical Officer 'C'	Technical Officer 'D'	14-08-2019
	12.	Sh. G. Sajeendran	Section Officer	Dy. Cont. of Admn.	02-09-2019
	13.	Sh. Pankaj Kumar	Section Officer	Dy. Cont. of F & A/cs	02-09-2019
	14.	Sh. Roshan Lal	Technician 'E' (Painter)	Technician 'F' (Painter)	11-10-2019
	15.	Sh. Hemlal Sidar	Technician 'E'	Technician 'F'	11-10-2019
	16.	Sh. Kiran Pal	Driver	Driver Gr.-II	03-12-2019
	17.	Sh. Vipin Kumar	Office Assistant – III	Office Assistant – II	12-12-2019
	18.	Sh. Shishpal Singh	Technician 'F' (Carp.)	Technician 'G' (Carp.)	30-01-2020
	19.	Sh. Ram Kumar	Technician 'F' (Fitter)	Technician 'G' (Fitter)	30-01-2020

Name of the Centre	S. No	Full Name of Personnel	Designation prior to Promotion	Designation after Promotion	Effective date of promotion
NSC Delhi	20.	Sh. Rakesh Kumar	Technician 'F' (Fitter)	Technician 'G' (Fitter)	30-01-2020
	21.	Sh. Anil Kumar	Artist 'F'	Artist 'G'	30-01-2020
	22.	Sh. Brahmanand	Technician 'F'	Technician 'G'	30-01-2020
	23.	Sh. Deepak Kumar	Technician 'F'	Technician 'G'	30-01-2020
	24.	Sh. Mayank Chaurasia	Technical Assistant 'B' (Computer)	Technical Officer 'A'	12-02-2020
	25.	Sh. Sunil Kumar Mallha	Technician 'E' (Fitter)	Technician 'F' (Fitter)	17-02-2020
	26.	Sh. Mahipal	Technician 'A' (Comp. H/w & Net-working)	Technician 'B' (Comp. H/w & Net-working)	18-02-2020
	27.	Sh. Kamaljeet	Technician 'E' (Carp.)	Technician 'F' (Carp.)	23-02-2020
	28.	Sh. Dinesh Malik	Education Officer 'C'	Education Officer 'D'	13-03-2020
	29.	Sh. K. K. Chatterjee	Education Officer 'B'	Education Officer 'C'	13-03-2020
RSC, Lucknow	1.	Sh. Prem Chand Tiwari	Driver	Driver Gr.- II	03-12-2019
	2.	Sh. Shyamu Prasad	Driver	Driver Gr.- II	03-12-2019
	3.	Sh. Ram Kumar	Education Officer 'B'	Education Officer 'C'	06-12-2019
	4.	Smt. Kiran Verma	Artist 'B'	Artist 'C'	30-01-2020
	5.	Sh. Abhay Krishan	Technician 'F' (Elect.)	Technician 'G' (Elect.)	30-01-2020
	6.	Sh. D G Khobragade	Technician 'F' (Electro.)	Technician 'F' (Elect.)	30-01-2020
KPSC,	1.	Sh. Gulab Singh	Technician 'B'	Technician 'C'	25-04-2019
	2	Sh. K.S. Nehru	Curator 'C'	Curator 'D'	14-08-2019
	2.	Sh. Ramesh Chander	Technician 'B' (Elect.I)	Technician 'C'(Elect.)	11-10-2019
	3.	Sh. Kundan Lal	Technician 'E'	Technician 'F'	11-10-2019
	4.	Sh. Narinder Sharma	Technical Asst. 'A'	Technical Asst. 'B'	11-10-2019
	5.	Sh. Sujeet Kumar	Education Asst.'B'	Education Officer 'A'	11-10-2019
	6.	Sh. Baljeet Singh	Driver (Ord.Gr.)	Driver (Spl. Gr.)	03-12-2019
	7.	Sh. Salender Kumar	Driver	Driver Gr. -II	03-12-2019
	8.	Sh. Jitender Kumar	Education Officer 'B'	Education Officer 'C'	13-03-2020

c) Transfers

S. No	Name of the Centre	Name of Personnel	Designation	Transferred From To		Date of Joining
1.	NSC, Delhi	Sh. Anurag Kumar	Curator 'G'	NSC, Delhi	CRTL, Kolkata	02-12-2019
2.		Sh. Pankaj Kumar	Dy. CoFA	NSC, Mumbai	NSC, Delhi	30-08-2019
3.		Sh. N R Iyer	Curator 'F'	RSC, Nagpur	NSC, Delhi	13-05-2019
4.		Sh. V S Sharma	Curator 'F'	NSC, Delhi	RSC, Nagpur	30-04-2019
1.	RSC Lucknow	Sh. Khurshid Ahamad	Tech.Offi 'A'	NCSM, Kolkata	RSC, Lucknow	16-04-2019
2.		Sh. R. M. Lal	Tech.Offi 'D'	RSC, Lucknow	NSC, Delhi	24.06.2019
	KPSC KKR	– NIL--				
1.	PSC Palampur	Sh. Siddheshwar Kumar	Tech. 'E'	NSC, Delhi	PSC, Palampur	11-11-2019

d) Retirement/ Repatriation/Resignation

S. No	Name of Personnel	Designation	Name of Centre	Date of Retirement/ release	Remarks mention retirement/ repatriation
1.	Sh. Hardeep Kr. Alagh	Dy. CoA	NSC, Delhi	30-06-2019	Retired on Superannuation
2.	Sh. A.K. Sharma	Technician	RSC, Lucknow	31-01-2020	Retired on Superannuation
3.	Shri Anil Kumar Sharma	Tech 'F'	RSC, Lucknow	31.01.2020	Retirement

e) Foreign Deputations

S. No	NSC, Delhi		
1.	Shri D. Rama Sarma, Director	25-08-2019 to 29-08-2019	USA
2.	Shri B.B. Srivastava, Edu. Off 'D'	19-09-2019 to 31-10-2019	Romania

23. DISTINGUISHED VISITORS

NSC, Delhi

S. No	Name of the Personnel	Designation/organization
1.	Shri Prahlad Singh Patel	Hon'ble Minister of State of Culture and Tourism
2.	Dr. Harsh Vardhan	Hon'ble Union Minister of Health and family Welfare,
3	Dr. Jitendra Singh	Union Minister of State (I/C),
4	Dr. Manoj Kumar Patariya	Scientist 'G' & adviser
5	Dr. R. Chidambaram	Former Principal Scientific Adviser at Gol
6	Dr. Paul T. P. Ho	Astrophysicist and Director General of East Asia Observatory
7	Shri K. N. Vyas	Chairman, AEC & Secretary, DEA
8	Prof. Ashutosh Sharma	Secretary, Department of Science & Technology (DST)
9	Prof. Balram Bhargava	Secretary, DG, ICMR
10	Prof. K. Vijay Raghavan	Principal Scientific Adviser, Gol
11	Dr. D.K. Aswal	Director. CSIR- National Physical Laboratory
12	Prof. H.P. Singh	Director, Cluster Innovation Centre,DU
13	Dr. Vikash Jain	RRCAT, Indore
14	Prof. Ashutosh Bhardwaj	University of Delhi
15	Prof. Ashok Kumar	University of Delhi
16	Prof. Raghunath Sahoo	IIT Indore
17	Prof. Natasha Sharma	Punjab University
18	Prof. Raghunath Sahoo	IIT Indore
19	Prof. Jasbir Singh	Punjab University
20	Prof. Ashok kumar	Delhi University
21	Prof. Mohd Sajjad Athar	Aligarh Muslim University
22	Prof. Poonam Mehta	Jawaharlal Nehru University ,New Delhi
23	Devajyoti Choudhary	Delhi University
24	Vipin Bhatnagar	Panjab university ,Chandigarh
25	Poonam Mehta	Jawaharlal Nehru University ,New Delhi
26	Dr. N. Rathnashree	Director, Nehru Planetarium
27	Prof. Samir Dhurdel	IUCAA, Pune
28	Rakesh Bhandari	Inter University Accelerator Centre , New Delhi
29	Dr. Paul Ho	Director General, East Asian Observatory
30	Shri Sidharth Saran,	Dy Director , PCRA
31	Prof K Thagrajan,	Bennett University
32	Ms. Mata Kothari,	Indian Institue of Gemology
33	Mr Sheldon Paquin	Curator, Science Museum London

RSC, Lucknow

S. No	Name of the Personnel	Designation/organization
1.	Dr. R. K. Awasthi	Former Director, GSI, Lucknow
2.	Dr. A. K. Sinha	Associate Director, NPCIL, Mumbai
3.	Sh. Pranay Dikshit	TV/Film Actor
4.	Sh. V. K. Upadhyay	Director, Ground Water Department, UP
5.	Sh. Dharampal Singh	Minor Irrigation & Ground Water Department, UP
6.	Dr. V. V. Srinivasan	Director, ISRO, Bengaluru, Dept. of Space, Govt. of India
7.	Sh. Mukesh Kumar	Chief Forest Conservator, UP
8.	Dr. Mukesh Kumar Singh	District Inspector of School, Lucknow
9.	Dr. Anil Rastogi	Former Deputy Director CDRI, Bollywood Actor
10.	Dr. Tapas Kumar Kundu	Director, CSIR-CDRI, Lucknow
11.	Dr. V. Adimurthy	Director, ISRO, Thiruvananthapuram, Kerala
12.	Dr. Parkash Chauhan	Director, IIRS, Dehradun
13.	Sh. Kumar Keshav	MD, UP Metro Rail Corporation Ltd, Lucknow
14.	Sh. V. B. Singh	Chairman, Civil Engineering Division Board, Lucknow
15.	Smt. Sanyukta Bhatia	Mayor, Lucknow
16.	Dr. C. M. Nautiyal	Consultant INSA, New Delhi
17.	Dr. Anuradha Dube	Former Chief Scientist CSIR-CDRI, Lucknow
18.	Dr. S. K. Pandey	Scientist, ISRO, ISTRAC, Lucknow
19.	Dr. Seema Joshi	Prof. IT College, Lucknow

KPSC, Kurukshetra

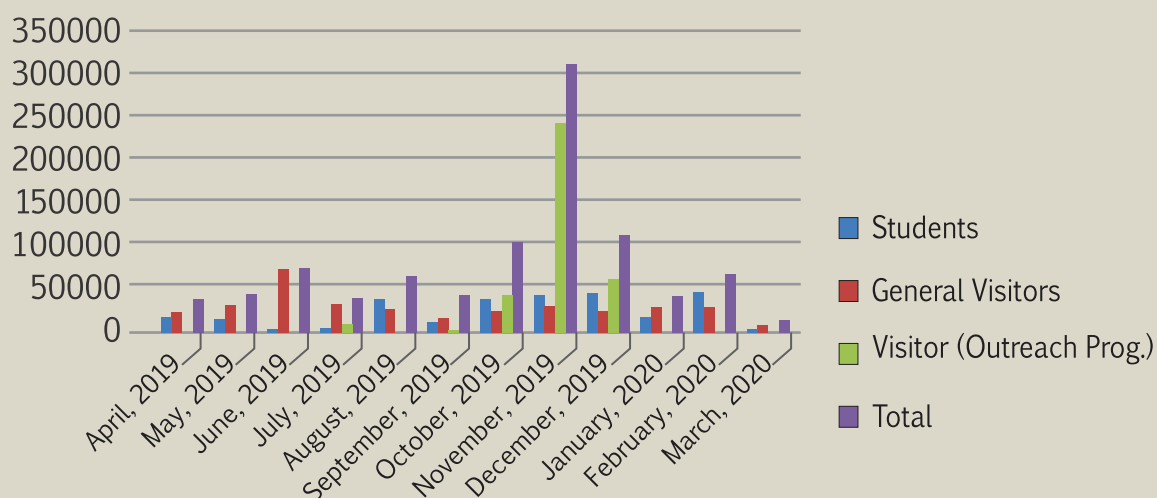
1.	Sh. Prahlad Singh Patel	Honable' Union Minister of Culture, Government of India
2.	Sh. Amit Jha	Additional Chief Secretary, Government of Haryana
3.	Dr. Kailash Ch. Sharma	Vice Chancellor, Kurukshetra University, Kurukshetra

VISITORS STATISTICS (YEAR 2019- 2020)

A. National Science Centre, Delhi

Annexure –I

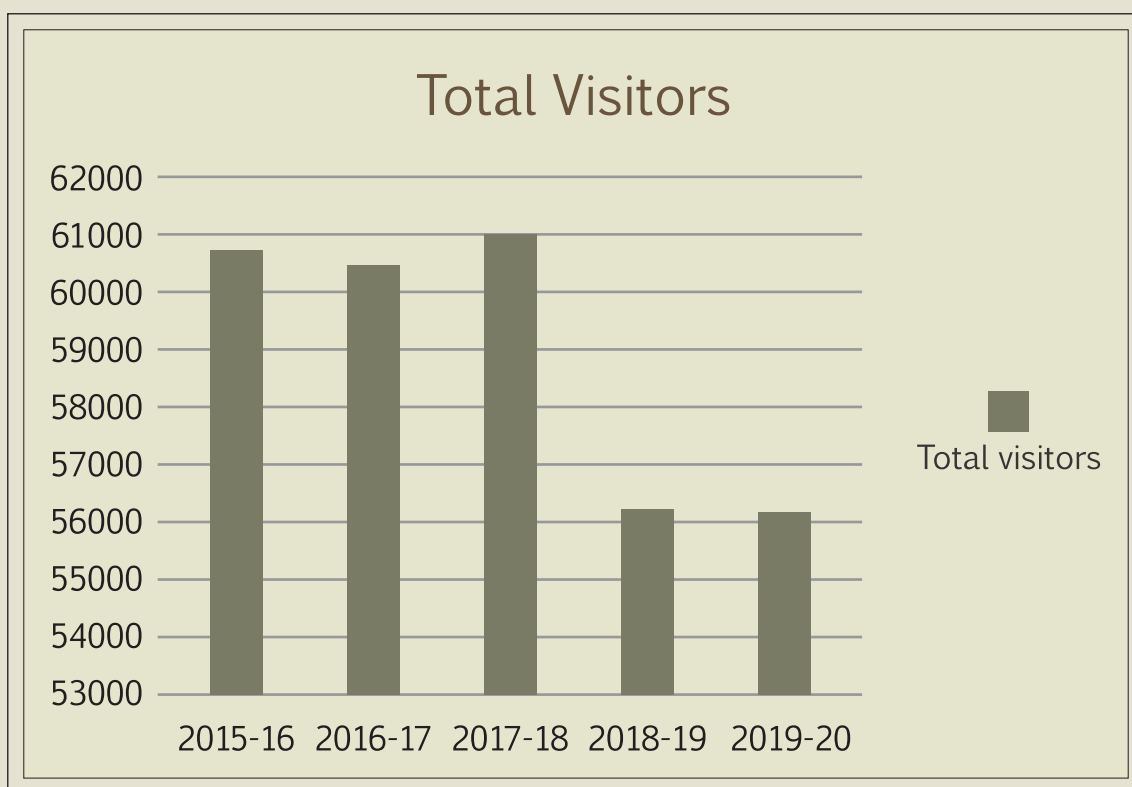
Months	Students	General Visitors	Visitor (Outreach Prog.)	Total
April, 2019	15726	23,311	0	39,037
May, 2019	13362	29,252	0	42,614
June, 2019	2313	70,456	0	72,769
July, 2019	3026	21,753	5000	29,779
August, 2019	33012	23,057	600	56,669
September, 2019	16481	19,105	3748	39,334
October, 2019	36524	21,080	43200	100,804
November, 2019	40586	23,595	241205	305,386
December, 2019	42532	19,992	52016	114,540
January, 2020	13777	27,360	0	41,137
February, 2020	39349	17,767	0	57,116
March, 2020	2647	5,044	0	7691
Total	259335	301,772	345769	906,876



B. National Science Centre, Delhi (on site)

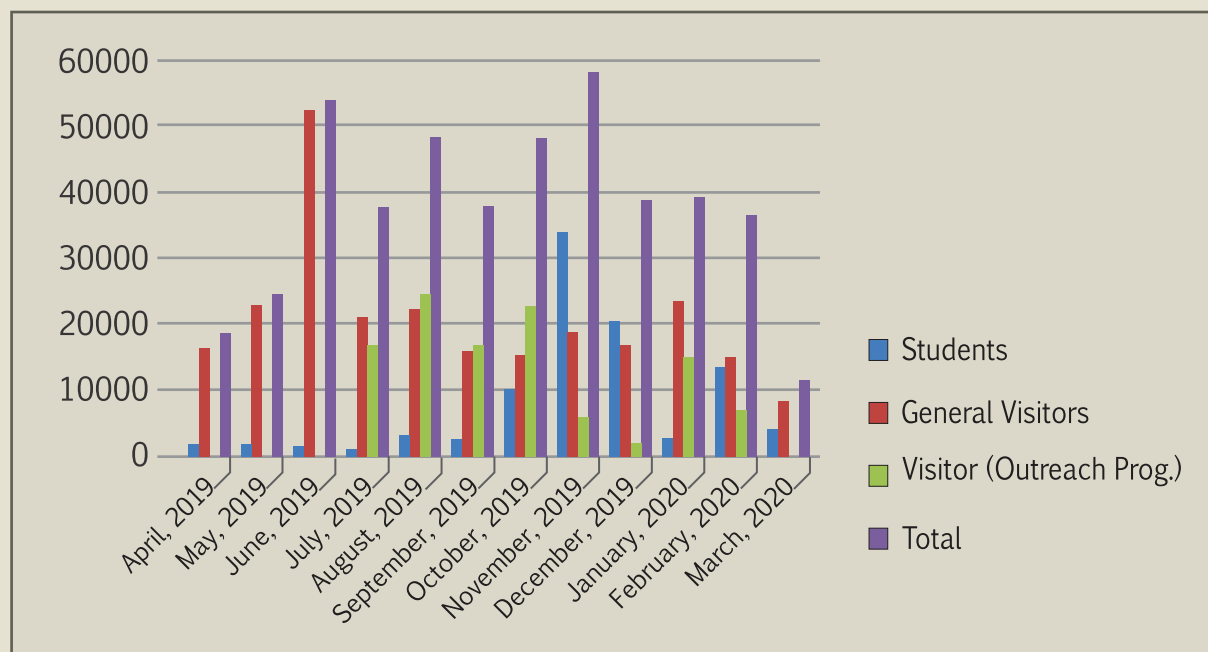
Visitor's Profile in the last five years at NSC, Delhi (Excluding Outreach Visitors)

Year	Total Visitors
2015-16	606794
2016-17	604840
2017-18	609435
2018-19	561911
2019-20	561107



C. Regional Science City, Lucknow

Months	Students	General Visitors	Visitor (Outreach Prog.)	Total
April, 2019	2187	17432	0	19,619
May, 2019	1658	23110	0	24768
June, 2019	650	52102	0	52752
July, 2019	1334	20458	166699	38491
August, 2019	3957	21505	23641	49103
September, 2019	3318	17629	17976	38923
October, 2019	10219	16332	22079	48630
November, 2019	33383	19546	5990	58919
December, 2019	20276	17414	1882	39572
January, 2020	2450	22900	14240	39590
February, 2020	13962	15059	7139	36160
March, 2020	2430	8608	0	11038
Total	95824	252095	109646	457565



D. Regional Science City, Lucknow (On Site)

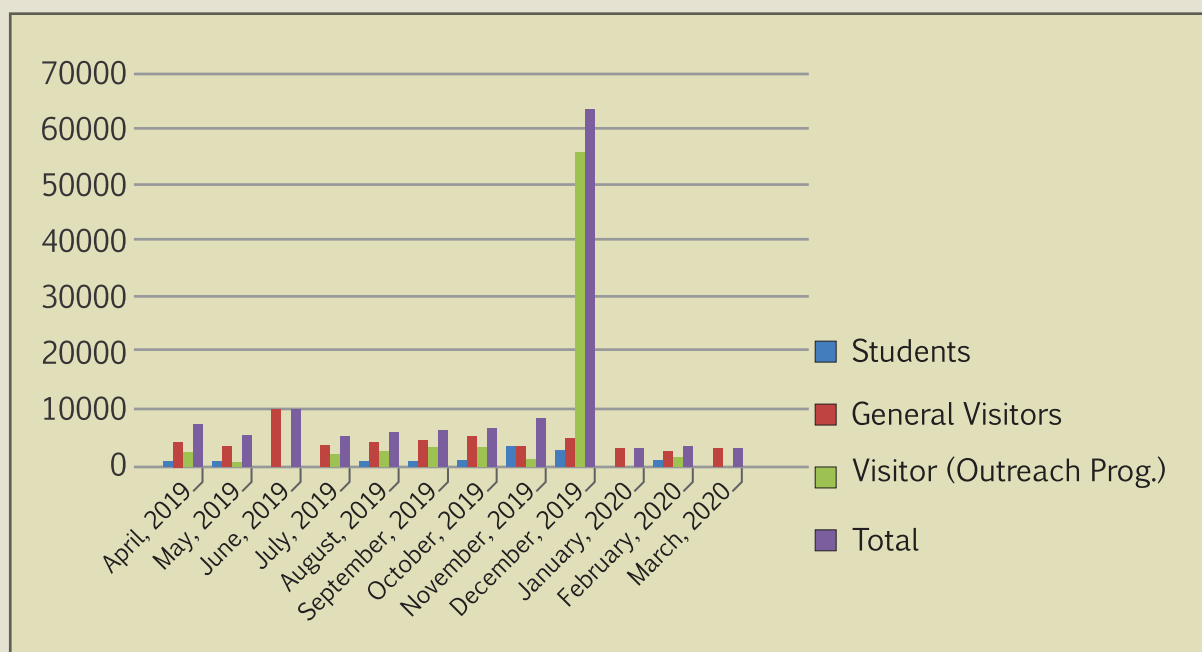
Visitors' Profile in the last five years at RSC, Lucknow (Excluding Outreach Visitors)

Year	Total Visitors
2015-16	327919
2016-17	302782
2017-18	336207
2018-19	371717
2019-20	347919



E. KURUKSHETRA PANORAMA & SCIENCE CENTRE, KURUKSHETRA

Months	Students	General Visitors	Visitor (Outreach Prog.)	Total
April, 2019	5182	39915	23450	68547
May, 2019	6261	41290	8000	55551
June, 2019	1710	99925	0	101635
July, 2019	476	40607	24000	65083
August, 2019	3012	39516	23000	65528
September, 2019	4529	41522	28000	74051
October, 2019	14568	33070	23000	70638
November, 2019	36108	36192	12000	84300
December, 2019	33160	49473	555250	637883
January, 2020	2030	26048	0	28078
February, 2020	5282	25677	10500	41459
March, 2020	1470	21233	6000	28703
Total	113788	494468	713200	1321456



F. Kurukshetra Panorama& Science Centre, Kurukshetra (onsute)

Visitors' Profile in the last five years at KPSC,Kurukshetra (Excluding Outreach Visitors)

Year	Total Visitors
2015-16	668916
2016-17	666920
2017-18	630263
2018-19	676563
2019-20	608256



LIST OF EXHIBITS DEVELOPED / RENOVATED/ PROCURED

A.National Science Centre, Delhi

S.No.	Name of the Exhibit	Qty.	Gallery / Project	New/Duplicate /Renovated
1	Up or Down	1	Fun Science Gallery SRSCP	Duplicate Gallery Exhibit
2	Up or Down	1	Fun Science Gallery SRSCP	Duplicate Gallery Exhibit
3	Vortex Fun Science Exhibit	1	Fun Science Gallery SRSCP	Duplicate Gallery Exhibit
4	Variable Pendulum	1	Fun Science Gallery SRSCP	Duplicate Gallery Exhibit
5	Variable Pendulum	1	Fun Science Gallery SRSCP	Duplicate Gallery Exhibit
6	Massage from depth	1	Fun Science Gallery SRSCP	Duplicate Gallery Exhibit
7	Transfer of momentum	1	Fun Science Gallery SRSCP	Duplicate Gallery Exhibit
8	Doppler's effect	1	Fun Science Gallery SRSCP	Duplicate Gallery Exhibit
9	3D Anamorphosis	1	Fun Science Gallery SRSCP	Duplicate Gallery Exhibit
10	Vortex	1	Fun Science Gallery SRSCP	Duplicate Gallery Exhibit
11	Curving Tunnel	1	Upcoming new SRSCP	Duplicate Gallery Exhibit
12	Acrobatic Stick	1	Upcoming new SRSC	Duplicate Gallery Exhibit
13	MSE Kit (Energy)	20	-----	Duplicate Kits
14	MSE Exhibits	40	-----	Duplicate MSE Exhibits
15	Sympathetic Swing	1	Portable Exhibits (for KPSC)	Duplicate Portable Exhibit
16	Sympathetic Swing	1	Portable Exhibits	Duplicate Portable Exhibit
17	Kirloscope (Cyclone)	1	Untamed Earth Gallery SRSCP	New Gallery Exhibit
18	Where do you feel Comfort	1	Fun Science Gallery SRSCP	New Gallery exhibit
19	Earthquake Table	1	Untamed Earth Gallery SRSCP	New Gallery exhibit
20	Deformation of Earth (Formation of Fold)	1	Untamed Earth Gallery SRSCP	New Gallery Exhibit
21	Landslide - 2 with cabinet	1	Untamed Earth Gallery SRSCP	New Gallery Exhibit
22	Kirloscope (Cyclone)	1	Untamed Earth Gallery SRSCP	New Gallery Exhibit
23	Odyssey of Elements	1	-----	New Kit
24	Chemical blast	1	-----	New Kit
25	MSE Kit (Energy)	10		New Kits
26	Superbugs(KITS)	7	NSCD	New Kits
27	Chemical Energy	1	MSE Exhibit	New MSE Exhibit
28	What is energy?	1	MSE Exhibit	New MSE Exhibit

SN	Name of the Exhibit	Qty.	Gallery / Project	New/Duplicate /Renovated
29	Forms of energy	1	MSE Exhibit	New MSE Exhibit
30	Energy transformation and conservation	1	MSE Exhibit	New MSE Exhibit
31	Mechanical to Electrical Energy	1	MSE Exhibit	New MSE Exhibit
32	Chemical Energy- Make an electric current by your hand	1	MSE Exhibit	New MSE Exhibit
33	Looking into Sound	1	MSE Exhibit	New MSE Exhibit
34	Electrical Energy	1	MSE Exhibit	New MSE Exhibit
35	Radiation of Energy	1	MSE Exhibit	New MSE Exhibit
36	Calculate your energy requirement & planning	1	MSE Exhibit	New MSE Exhibit
37	Fossil fuels as source of energy	1	MSE Exhibit	New MSE Exhibit
38	Nucleus: A source of Energy	1	MSE Exhibit	New MSE Exhibit
39	Energy from wind	1	MSE Exhibit	New MSE Exhibit
40	Solar energy	1	MSE Exhibit	New MSE Exhibit
41	Efficient use of Biomass	1	MSE Exhibit	New MSE Exhibit
42	Electrical power generation techniques	1	MSE Exhibit	New MSE Exhibit
43	Energy Consumption - an indicator of development	1	MSE Exhibit	New MSE Exhibit
44	Fuel Cell	1	MSE Exhibit	New MSE Exhibit
45	Grid Connected Power System	1	MSE Exhibit	New MSE Exhibit
46	Save Energy, be energy efficient	1	MSE Exhibit	New MSE Exhibit
47	Take energy challenge (Quiz)	1	MSE Exhibit	New MSE Exhibit
48	Exhibition on Corona Virus	9	NSCD	Temporary Exhibit
49	Superbug Exhibits	5	NSCD	Temporary Exhibits
50	Traditional Medicines	10	NSCD	Temporary Exhibits
51	Tribute to Nobel Laureates in Science 2019	6	NSCD	Temporary Exhibits
52.	Herbal Garden stands and shades	1	NSCD, Herbal Garden	New

Total Exhibits = 151

B. Regional Science City, Lucknow

New Exhibits Developed			
S.No.	List of Exhibits	Project for	Quantity
1.	3D Periodic table	Periodic table exhibition	1 No.
2.	3D Hologram		1 No.
3.	DNA Electric Arc		1 No.
4.	Electromagnetic Brake	Fun Science Gallery1 No.	1 No.
5.	Tumbling Cube		1 No.
6.	Divide Your Self		1 No.
7.	Soil Liquefaction		1 No.
8.	Square Wheel Cycle		1 No.
9.	Trailer Weight Distribution		1 No.
10.	Hovercraft		1 No.

Duplicate/Renovated Exhibits			
S.No.	List of Exhibits	Project for	Quantity
Renovation of existing gallery exhibits-			
1.	Being Human	Being Human Gallery	1 No.
2.	See your Face		1 No.
3.	Hypnotic Effect		1 No.
4.	Motion and Gesture		1 No.
5.	Portray Emotion		1 No.
6.	Motivation		1 No.
7.	Communicating		1 No.
8.	Quiz Corner		1 No.
9.	Kim Test		1 No.
10.	Memory Organization		1 No.
11.	Understanding your feeling		1 No.
12.	Role of Versatility		1 No.
13.	Human Behavior		1 No.
14.	Role in Social Occasion		1 No.
15.	Water in the world	"Water: Our life" gallery	1 No.
16.	Forms of Water		1 No.
17.	Water Cycle		1 No.
18.	Water Cycle		1 No.
19.	Sea-saw is lever	Science Park	1 No.
20.	See-saw pump		1 No.
21.	Perspective House		1 No.
22.	Roller Coaster		1 No.
23.	Sun Dial		1 No.
24.	Angular momentum		1 No.
25.	Water Wheel	Fluidics gallery	1 No.
26.	Animal Walk	Fun Science Gallery	1 No.

Temporary Exhibits (Panel Exhibition on Periodic Table)		
S.No.	Name of Exhibit	Qty.
1	Introduction: A Tribute to the Father of Periodic Table	1 No
2	Form Alchemy to Chemistry	1 No
3	Stellar Ovens: Cradles of Chemical Elements	1 No
4	Elements: Elements every where	1 No
5	The Periodic Table Gazette	1 No
6	Mendeleev's orderly Vision: The Icon of Chemistry	1 No
7	Relaying the Foundation: A Glut of New Elements	1 No
8	Catalogue of all atoms: The Periodic Table of The Universe	1 No
9	Redefining the orderly Vision: architects of Modern Periodic Table	1 No
10	Periodic table of the Elements Behaviour and trends	1 No
11	A Chronological Guide: Time Line of Discovery of Elements	1 No
12	LEAP INTO FUTURE: Race for new Chemical elements	1 No
13	A Fleeting Joy : Making New Elements	1 No
14	Combining of elements: Chemical Bonding	1 No
15	Periodic table Chemical element: The Summery of its 150 years of development	1 No

Kits/Aids developed in Centre		
S.No.	Name of Exhibit	Qty.
1	Animal World	1 Set
2	Gravity Balancing Nails	2 Sets
3	Inertia of Rest/Motion	2 sets

Duplicate Kits/Aids developed in Centre		
Sl.No.	Name of Exhibit	Qty.
1	Vanishing Liquid	6 Sets
2	Water Brain wash	2 Sets
3	Cone runs up hill	8 sets
4	Food Adulteration kit	1 Set.
5	Our Food Components	1 Set
6	Air occupies space	5 Sets
7	Lazy Tubes	2 Sets.

Total Exhibits = 81 No.

C. Kurukshetra Panorama & Science Centre, Kurukshetra

S.No.	Title of the exhibit	Type of exhibit	New/ Renovated
1.	I Can Tell Your Age	Fun Science	1
2.	Solar Eclipse	Science Park	1
3.	Topology Puzzles	Fun Science	4
4.	Projective Geometry	Fun Science	1
5.	Hyperscope	Fun Science	1
6.	Psuedoscope	Fun Science	1
7.	Ponzo Illusion	Fun Science	1
8.	SDL on Topology (3 sets)	MSE SDL	60
9.	Mango, Satluj Purple, Sweet Lime, Duncan grapefruit Ruby red grapefruit, Pear, Mulberry, Lime, Jamun, Giloy, Uttareni, Bhumi Amla, etc	Herbal Garden	22
10.	3D Anamorphosis	Fun Science	1
11.	Kits	Curriculum Kits	10
12.	Properties of Matter	Fun Science	2
13.	Amphibious Cylinder Illusion	Fun Science	1
14.	Animation Videos	Panorama on Mahabharata	10
15.	Laser Pattern	Fun Science	1
16.	Plastic Pollution & their effects	Panel Exhibition	7
17.	Tesla Coil	Fun Science	1
18.	Major Planets	Fun Science	1
19.	Earth and Moon	Fun Science	1
20.	Dinosaur Alive	Fun Science	1

Total Exhibits = 128 No.

LIST OF POPULAR SCIENCE LECTURES

A.National Science Centre, Delhi

S. No.	Date	Title	Speaker	No. of Audience
1.	08. 04. 2019	Indian Traditional Medicine	Prof. Satya N. Dormala	260
2.	20. 05. 2019	Dealing with problems of Adolescence: The Charm and the Challenges.	Ms Shipra Goyal Moolchand Medicity	247
3.	21. 05. 2019	Nutritional Values & Wellbeing in the Adolescent years Positive Parenting Skills,	Ms Arunima Bhutani Moolchand Medicity	300
4.	22. 05. 2019	Preventing High Risk Behaviours during adolescence. Making Effective Career Choices	Dr Aradhana Sharma, Director, Anubhuti Rohini, Delhi	212
5.	24. 05. 2019	Financial Education for Salaried Persons Sponsored by Securities and Exchange Board of India (SEBI)	Dr Sunita Gupta Associate Professor, Daulat Ram College, University of Delhi	308
6.	27. 05. 2019	Dealing with problems of Adolescence: The Charm and the Challenges.	Ms Shipra Goyal Moolchand Medicity	304
7.	28. 05. 2019	Nutritional Values & Wellbeing in the Adolescent years Positive Parenting Skills,	Ms Arunima Bhutani Moolchand Medicity	208
8.	29. 05. 2019,	Financial Education for Salaried Persons Sponsored by Securities and Exchange Board of India (SEBI)	Dr Sunita Gupta Associate Professor Daulat Ram College University of Delhi	154
9.	31. 05. 2019	Energy Saving Tips by PCRA for parents and Quiz Contests for Participants	Shri Sidharth Saran, Dy Director , PCRA	190
10.	3. 06. 2019	'Understanding Adolescence' & 'Conservation of Energy Sources'	Expression India-NGO New Delhi	234
11.	4. 06. 2019	Dealing with problems of Adolescence: The Charm and the Challenges..	Ms Shipra Goyal Moolchand Medicity	340
12.	5. 06. 2019	Nutritional Values & Wellbeing in the Adolescent years Positive Parenting Skills	Ms Arunima Bhutani Moolchand Medicity	300
13.	6. 06. 2019	Preventing High Risk Behaviours during adolescence. Making Effective Career Choices	Dr Aradhana Sharma Director, Anubhuti Rohini, Delhi	250

S. No.	Date	Title	Speaker	No. of Audience
14.	07. 06. 2019	Financial Education for Salaried Persons Sponsored by Securities and Exchange Board of India (SEBI)	Dr Sunita Gupta Associate Professor Daulat Ram College University of Delhi	311
15.	07. 06. 2019	Dealing with problems of Adolescence: The Charm and the Challenges.	Ms Shipra Goyal Moolchand Medicity	320
16.	21. 06. 2019	Yoga- Key of Life University of Delhi	Dr J.P Sharma,	345
17.	13. 08. 2019	International Year of Periodic Table	Prof. Nidhi Jain	309
18.	28. 08. 2019	Chemistry in School syllabus	Dr R.K Prashar, NCERT	250
19.	29. 08. 2019	Gold & How jewellery are designed & processed.	Ms. Mata Kothari, Indian Institue of Gemology	350
20.	4. 09. 2019	Chandrayaan -2 (Collab with NatGeo)	Dr. Biman Basu	400
21.	07 .09. 2019	Brief History of Antibiotics & why resistance is important in India	Mr Sheldon Paquin Curator, Science Museum London	400
22.	16 .09. 2019	Health & Hygiene	Ms .Mala Saran	40
23.	01. 10. 2019	Gandhi & Educationist	Dr Sunil Kumar Choudhary, University of Delhi	320
24.	5. 10. 2019	The Threat of Anti-Microbial Resistance & Possible Solutions	Dr. Arti Kapil,AIIMS	300
25.	31. 10. 2019	Integrity – a way of life	Dr Bhuvan Kumar Jha Delhi University	300
26.	5. 12. 2019	Global Warming : Science Ethics & Sustainability	Prof. Avinash C. Pandey Inter University Acclerator Centre, Delhi	300
27.	17. 12. 2019	Genetic Conservation, Genetic Engineering & its application in Medicine	Dr. S K Srivastva University of Delhi	360
28.	19. 12. 2019	Earth to Future : plastic- free future	Dr S K Tyagi, CPCB, Delhi	230
29.	17. 01. 2020	Dr. Vikram A. Sarabhai: Cemetery Celebration	Dr. A. Adimurthy	18
30.	21. 01. 2020	First Image of Massive Black Hole	Dr. Paul Ho Director General, East Asian Observatory	14
31.	22. 01. 2020	Undertaking Large Hadron Collider at CERN and India's RoleDr.	Vikash Jain, Ms. Shraddha Tiwari	20

S. No.	Date	Title	Speaker	No. of Audience
32.	22. 01. 2020	Exploring the Mysteries of Quantum Universe through Particle	Prof. Ashutosh Bhardwaj	11
33.	23. 01. 2020	The Quest for Unknown at the Large Hadron Collider	Prof. Ashok Kumar	9
34.	24. 01. 2020	A Journey to the Beginning of the	Prof. Raghunath Sahoo	100
35.	24. 01. 2020	Capturing mini big bangs with ALICE at CERN	Prof. Natasha Sharma	104
36.	25. 01. 2020	Capturing mini big bangs with ALICE at CERN	Prof. Natasha Sharma	07
37.	25. 01. 2020	A Journey to the Beginning of the Universe	Prof. Raghunath Sahoo	18
38.	27. 01. 2020	Understanding Universe through Particle Physics	Prof. Jasbir Singh	71
39.	28. 01. 2020	The Science of Invisibles	Prof. Ashok kumar	20
40.	28. 01. 2020	Experiment with Neutrinos	Prof. Ashok kumar	19
41.	29. 01. 2020	Neutrinos and synthesis of Elements in the Universe	Prof. Mohammad Sajjad Athar	40
42.	29. 01. 2020	Big World of Small Neutrinos	Prof. Poonam Mehta	40
43.	30. 01. 2020	Neutrinos, Life & the universe	Devajyoti Choudhary	261
44.	30. 01. 2020,	Neutrinos and Synthesis of Element in the Universe	Prof. Mohammad Sajjad Athar	160
45	30. 01. 2020	Neutrinos, Life & the universe	Devajyoti Choudhary	11
46	30. 01. 2020	Experiment in High Energy Physics: Elusive to Exclusive	Vipin Bhatnagar	6
47	1. 02. 2020	Experiment in High Energy Physics: Elusive to Exclusive	Vipin Bhatnagar	82
48	1. 02. 2020	Big World of Small Neutrinos	Poonam Mehta	82
49	3. 02. 2020	Talk-Cosmic Accelerator	Dr. V K. Dhar	85
50	3. 02. 2020	Talk-Gamma Ray View of the Universe	Dr. V K. Dhar	85
51	4. 02. 2020	World of Large Optical telescopes	Prof. Samir Dhurde	40
52	4. 02. 2020	Jantar Mantar Observatories	Dr. N. Rathnashree	25
53	4. 02. 2020	Galileo in Modern times	Sh. Shivam, Sh Rupesh Sh Vaibhav	245
54	4. 02. 2020	Make your own telescope	Sh Sameer Dhurde IUCAA, Pune	30
55	5. 02. 2020	Galileo in Modern times	Sh. Shivam, Sh Rupesh Sh Vaibhav	245
56	5. 02. 2020	Make your own telescope	Sh Sameer Dhurde IUCAA, Pune	40
57	6. 02. 2020	Galileo in Modern times	Sh. Shivam, Sh Rupesh Sh Vaibhav	313

S. No.	Date	Title	Speaker	No. of Audience
58	6. 02. 2020	Make your own telescope	Sh. Sameer Dhurde IUCAA, Pune	135
59	7. 02. 2020	Galileo in Modern times	Sh. Shivam, Sh. Rupesh Sh. Vaibhav	303
60	7. 02. 2020	Make your own telescope	Dr N. Ratnasree	30
61	5. 02. 2020	World of Large Optical telescopes	Prof. Samir Dhurde	210
62	6. 02. 2020	World of Large Optical telescopes	Dr. Shashi B Pandey	125
63	7. 02. 2020	World of Large Optical telescopes	Dr. Shashi B Pandey	127
64	11. 02. 2020	Talk on FAIR Facility	Rakesh Bhandari	157
65	11. 02. 2020	Nuclei in the Cosmos	Farheen Naqui	61
66	12. 02. 2020	Highly Charged Ions in Ion Traps	Sugam Kumar	207
67	12. 02. 2020	Atomic & Molecular Physics using Storage Ring at FAIR	C.P Safvan	141
68	13. 02. 2020	Physics with NUSTAR Facilities at FAIR	Samit Kr. Mandal	101
69	13. 02. 2020	Instrumentation & Detector Development for Nuclear Physics Experiments at Nustar	Akhil Jhingan	101
70	14. 02. 2020	Modern Accelerators & their Application in Research & Industries	Dr. Dinakar Kanjilal	220
71	14. 02. 2020	Physics Possibility with FAIR	Dr. B.B. Behera	165
72	15. 02. 2020	Femto Physics & FAIR	Dr.Punita Verma	76
73	15. 02. 2020	Atomic Physics with APPA Facility	Dr. Samit Kr. Mandal	35
74	18. 02. 2020	Cosmic Sources of Gravitational Waves	Prof. Patrick Das Gupta,	129
75	19. 02. 2020	Production of Gravitational waves	Mr. Mohd Sirtaz	260
76	20. 02. 2020	Listening to Einstein's Universe: The Dawn of Gravitational-Wave Astronomy	Prof. Martin Hendry	58
77	21. 02. 2020	Neutron Stars and Gravitational Waves	Dr. Ratnasree	46
78	22. 02. 2020	Surprises from the Sky , Accidental Discoveries from the Astronomy	T.R Seshadri	293
79	25. 02. 2020	Our Universe from Big Bang to Planets	Prof. Sandip Sahijpal	71
80	25. 02. 2020	Pulsars Hands-On	Dr. Nandivada Ratnasree	14
81	26. 02. 2020	Probing the Neutron Star Interior with the Square Kilometer Array	Aru Beri	14
82	26. 02. 2020	Apparent Faster – than-Light motion in Radio Sources	Prof. Patrick Das Gupta	14

S. No.	Date	Title	Speaker	No. of Audience
83	26. 02. 2020	Pulsars Hands-On	Dr.Nandivada Ratnasree	14
84	27. 02. 2020	Magnetic Universe	Dr Mamta Gulati	52
85	27. 02. 2020	QASTRO: GMRT Image contest (preparation)	Dr Anada Hota	9
86	27. 02. 2020	GMRT-RAD@home Citizen Science Research	Dr Anada Hota	9
87	27. 02. 2020	Interplay between Star formation & Active Black holes (AGNs & Quasars)	Dr Anada Hota	34
88	28. 02. 2020	Black Holes: Illuminating the Dark Side	Dr. Kinjalk Lochan	22
89	28. 02. 2020	Star Formation in Galaxies – A multi-wavelength view	Dr Anada Hota	7
90	28. 02. 2020	Quantum the next “Psi” entic frontier (National Science Day)	Prof K Thagrajan, Bennett University	8
91	29. 02. 2020	Constraining Cosmological Parameters with SKA	Prof. Harvinder Jassal	17
92	29. 02. 2020	X-ray Astronomy in the SKA era	Prof. K.P Singh	20
93	03. 03. 2020	Introduction to Plasma	Dr A.V Ravi Kumar	74
94	04. 03. 2020	Introduction to Plasma	Dr A.V Ravi Kumar, Chhaya Chavda	217
95	05. 03. 2020	Introduction to Plasma	Dr A.V Ravi Kumar	36
96	06. 03. 2020	Introduction to Plasma	Dr A.V Ravi Kumar	27

B. Regional Science City, Lucknow

S. No.	Date	Title	Speaker	No. of Audience
1	22. 04. 2019	Air pollution	Dr R K Awasthi	250
2	26. 04. 2019	Periodic table the family tree of all material	Dr Seema Joshi	447
3	30. 04. 2019	Swachh Bharat Abhiyan	Dr P K Srivastava	60
4	03. 04. 2019	How to excel in academic life sure success formulae	Dr A K Sinha	91
5	20. 05. 2019	Scientoons	Dr P K Srivastava	150
6	27. 05. 2019	Scientoons Making	Dr P K Srivastava	120
7	05. 06. 2019	Environmental Pollution	Dr Shikha Raj	120
8	05. 06. 2019	Indoor pollution	Dr S. C Sharma	120
9	21. 06. 2019	Yoga and our Health	Shri Sounil Sharma	35
10	16. 07. 2019	Water crisis	Dr P K Srivastava	310
11	18. 07. 2019	Water contamination	Dr Sanjeev Shukla	180
12	18. 07. 2019	Groundwater exploration	Dr B.B Trivedi	1210

S. No.	Date	Title	Speaker	No. of Audience
13	18. 07. 2019	Ground water recharging	Dr R A Yadav	1210
14	20. 07. 2019	Water Crisis	Dr B.B Trivedi	250
15	20. 07. 2019	Ground water recharging	Dr Ashok Kumar	160
16	20. 07. 2019	Water Conservation	Dr. P K Srivastava	870
17	27. 07. 2019	Chandrayaan II	Dr. Anirudh Uniyal	180
18	7. 09. 2019	Chandrayaan II	Dr. S.K Pandey	350
19	16. 09. 2019	Ozone and our environment	Prof. Dhruv Sen Singh	310
20	02. 10. 2019	Mahatma Gandhi biography and Gandhi education	Dr. P K Srivastava	250
21	17. 10. 2019	Periodic Table	Dr. Raj Mehrotra	500
22	17. 10. 2019	Vertical from farming weeding out the hunger	Dr. Akhila Anand	500
23	31. 10. 2019	Biography of Sardar Vallabhbhai Patel	Prof. Anil Kumar	150
24	02. 10. 2019	Fight against Corruption	Shri Satyam	150
25	07. 10. 2019	Black Hole	Prof M M Verma	260
26	09. 10. 2019	Periodic Table	Prof. P K Mathur	150
27	26. 10. 2019	Solar eclipse	Dr. Raj Mehrotra	90
28	03. 01. 2020	Healthy heart living longer living better	Dr Nakul Sinha	263
29	17. 01. 2020	Indian Space Program	Prof. V Adimurthy	180
30	18. 01. 2020	Aerial vehicle lecture	Dr S K Pandey istrac	55
31	19. 01. 2020	AV Lecture on Spaceship	Dr Mirza Zaheer	150
32	20. 01. 2020	Aerial vehicle lecture	Dr S K Pandey istrac	150
33	21. 01. 2020	Aerial vehicle lecture	Dr S. Sahoo	89
34	29. 01. 2020	The building of Lucknow Metro	Khushi Bhai	150
35	20. 02. 2020	Fitness and health	Mrs Sanyukta Bhatia	150
36	20. 02. 2020	Our fitness	Dr CM Nautiyal	250
37	28. 02. 2020	Vector Borne Disease	Dr Anuradha Dubey	160

C. Kurukshetra Panorama & Science Centre, Kurukshetra

S. No.	Date	Title	Speaker	No. of Audience
1	18. 04. 2019	Indian Heritage	Dr. S. K. Vashishtha	200
2	22. 04. 2019	Protect Our Species	Dr. Deepak Rai Babbar	400
3	09. 04. 2019	JallianwalaBagh Massacre	Dr. Sukhdev Saini	250
4	10. 05. 2019	Development of Technology: Its Advantages & Disadvantages	Dr. Akshay Rajan Choudhri	300
5	21. 06. 2019	Yoga for Peace & Prosperity	Dr. Rajni Bali, Yoga Trainer	70
6	18. 07. 2019	Scientific Heritage-Monuments	Dr. A. R. Chaudhri	300
7	27. 09. 2019	Plastic: Pollution & its impact	Dr. Jitender Kumar Kapoor	340
8	02. 10. 2019	Gandhi Ne Kaha Tha	Sh Rajveer	200
9	31. 10. 2019	Life & Works of Sardar Vallabhbhai Patel	Dr. Amarjeet Singh	200
10	02. 11. 2019	"Integrity - A way of Life"	Sh. K. S. Nehru	200
11	08. 11. 2019	Learning by Science Films	Dr. A. R. Chaudhri	300
12	04. 12. 2019	Hindi in Official Work	Sh Rajinder Rana	40
13	31. 12. 2019	Introduction to Space Science Exploration	Mr. Ralf Heckel	150
14	14. 02. 2020	'Gandhi at 150'	Dr. A. R. Choudhri	200
15	12. 02. 2020	Periodic Table: Chemistry, Base of Science	Dr. Raj Kamal	300

Annexure-IV

COMMITTEE MEMBERS (2019-20) EXECUTIVE COMMITTEE NSC, Delhi

1.	Shri G. S. Rautela Former Director General, NCSM 1202, Darshan Heights Balashet Madhurkar Marg, Lower Parel Mumbai-400013	8.	The Director Ministry of Culture, Govt. of India, 323 C Wing, Shastri Bhawan, New Delhi-110001 or A Representative of Ministry of Culture not below the rank of Dy. Secretary
2.	Prof. Jitendra P. Khurana Department of Plant Molecular Biology, University of Delhi South campus, Benito Juarez Road New Delhi – 110021	9.	Shri A. D. Choudhury Director General National Council of Science Museums Sector-V, Block-GN, Bidhan Nagar Kolkata- 700091
3.	Dr. Dinakar Kanjilal, FNASc Former Director Inter-University Accelerator Centre(IUAC) Aruna Asaf Ali Marg, New Mehrauli Road New Delhi-110067	10.	Shri D. Rama Sarma Director National Science Centre, Pragati Maidan, Near Gate No.1 Bhairon Marg, New Delhi –110001
4.	Prof. P.V. Madhusudhan Rao Head, Department of Design Indian Institute of Technology (IIT) Hauz Khas New Delhi-110016	11.	Shri N. Ramdas Iyer Curator 'G' National Science Centre Pragati Maidan, Near Gate No.1 Bhairon Marg, New Delhi – 110001
5.	Shri Chander Mohan Former Director, Vigyan Prasara C-24, Qutab Institutional Area Behind Qutab Hotel New Delhi-110016	12.	Dr. Raj Mehrotra Curator 'E' & Project Coordinator, Regional Science City, Aliganj Extension, Sector-E (Ekta Vihar), Lucknow-226024
6.	Shri Waman Kendre Former Director National School of Drama D-602, Gokul Plaza, Thakur Complex Kandivali East, Mumbai-400101	13.	Dy.COA National Science Centre, Pragati Maidan, Near Gate No.1, New Delhi – 110001
7.	Secretary Department of Education Govt. of NCT, Delhi Old Secretariat, Civil Lines Delhi-110054		

COMMITTEE MEMBERS
PLANNING & PROGRAMMING COMMITTEE, NSC, DELHI

1.	Dr. Dinakar Kanjilal, FNA, FNASc Former Director Inter-University Accelerator Centre (IUAC) Aruna Asaf Ali Marg, New Mehrauli Road, New Delhi	Chairman
2.	Smt. Beena Pillai Principal Scientist CSIR-IGIB, New Delhi	Member
3.	Dr. Dinesh C Sharma Senior Journalist and Author Mayur Vihar, Phase-I, Delhi	Member
4.	Dr. Nakul Parashar Director, Vigyan Prasar A-50, Institutional Area, Sector-62, Noida-201309, U.P.	Member
5.	Prof. Harinder P. Singh Director, Cluster Innovation Centre University of Delhi, North Campus, Vishwavidyalaya Marg, Faculty of Social Work, University Enclave, Delhi-110007	Member
6.	Dr. Anil Agarwal Head (Administration) Institute of Liver and Biliary Sciences D-1, Vasant Kunj, New Delhi	Member
7.	Shri Ratish Nanda Chief Executive Aga Khan Trust for Culture PO Box No. 3253, Hazrat Nizamuddin, New Delhi	Member
8.	Dy. Director Science Branch Directorate of Education Govt. of NCT of Delhi	Member
9.	Shri A.D. Choudhury Director General National Council of Science Museums Sector-V, Block-GN, Bidhan Nagar, Kolkata	Member
10.	Shri D. Rama Sarma Director, National Science Centre, Pragati Maidan, Near Gate No.1, Bhairon Marg, New Delhi	Member
11.	Shri N. Ramdas Iyer Curator 'G', National Science Centre Pragati Maidan, Near Gate No.1, Bhairon Marg, New Delhi	Member Secretary

LOCAL ADVISORY COMMITTEE, RSC, LUCKNOW

1.	Prof. Tapas Kumar Kundu Director, CSIR- Central Drug Research Institute Sector-10, Jankipuram Extn., Sitapur Road, Lucknow-226 021, U.P.	Chairman
2.	Dr. I.D. Ram Secretary, Council of Science & Technology, UP Vigyan Bhawan, Suraj Kund Park, 9 Nabiullah Road, Lucknow-226 018, U.P.	Member
3.	Shri R.N. Bhargava Chairman-cum-Managing Director, ECOMEN Laboratories Pvt. Ltd. H.O. Flats No. 5-8, 2nd Floor, Arif Chamber-V Sector-H Aliganj, Lucknow-226 024, U.P.	Member
4.	Dr. C M Nautiyal Sr. Scientist (Retd.) BSIP, Lucknow	Member
5.	Dr. Sharad Kumar Srivastava Principal Scientist National Botanical Research Institute Lucknow, U.P.	Member
6.	Prof. H. C. Verma Dept. of Physics, IIT, Kanpur Kanpur -208 016, U.P.	Member
7.	Smt. Koumudi Patil Assistant Professor Dept. of Humanities and Social Sciences IIT, Kanpur, Kanpur -208 016, U.P.	Member
8.	Shri Rajendra Kumar Singh Director, Lucknow Zoological Garden Banarasi Bagh, Lucknow-226 001, U.P.	Member
9.	Chairman of Management Committee Chain of Pioneer Montessori Schools & Colleges PMS Hdqrs., 649 / 640, Sector-3, Eldeco Udyan-I, Lucknow, U.P.	Member
10.	Shri Surendra Kumar Tiwari Joint Director (Education) Lucknow Division, Siksha Bhawan 58, Jagat Narayan Road, Near City Station, Lucknow-226003, U.P.	Member
11.	Shri D. Rama Sarma Director, National Science Centre Pragati Maidan, Near Gate No.1, Bhairon Road, New Delhi	Member
12.	Dr. Raj Mehrotra Project Coordinator, Regional Science City Sector-E, Aliganj Extension, (EktaVihar), Lucknow-226 024	Member Secretary

LOCAL ADVISORY COMMITTEE, KPSC, KURUKSHETRA

1.	Dr. Satish Kumar Director, National Institute of Technology Kurukshetra, Haryana-136119,	Chairman
2.	Dr. V.M. Murthy Professor, Department of Instrumentation Kurukshetra University, Haryana-136119,	Member
3.	Shri Sanyam Garg Chief Executive Officer Kurukshetra Development Board, Kurukshetra, Haryana-136119,	Member
4.	Shri Rajbir Singh Principal Scientist (SG) Haryana State Council of Science & Technology, Govt. of Haryana Bays No. 35-38, Sector-2, Panchkula, Haryana-134109	Member
5.	Shri Sudarshan Agrawal Managing Partner Agrawal Extrusions Pvt. Ltd. G.T. Road, Kurukshetra, Haryana	Member
6.	Dr. Ranjana Agarwal Professor, Dept. of Chemistry Kurukshetra University, Kurukshetra-136119, Haryana	Member
7.	Director National Institute of Design Umri, Kurukshetra-136131	Member
8.	Shri Arun Ashri District Education Officer Kurukshetra, Haryana-136119	Member
9.	Smt. Geetika Jasuja Principal, DAV Public School Sector - 3, Urban Estate, Kurukshetra, Haryana-136119,	Member
10.	Dr. Maha Singh Poonia Curator, Dharohar, Haryana Cultural Museum Kurukshetra University, Kurukshetra, Haryana-136119,	Member
11.	Shri D. Rama Sarma Director, National Science Centre Pragati Maidan, Near Gate No.1, Bhairon Road, New Delhi	Member
12.	Shri K.S. Nehru Project Coordinator Kurukshetra Panorama & Science Centre Kurukshetra, Haryana-136119,	Member Secretary



सत्यमेव जयते

Ministry of Culture
Government of India



National Science Centre

National Council of Science Museums, Ministry of Culture, Govt of India

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