

कार्यकलाप प्रतिवेदन
ACTIVITY
REPORT
2018-19



कार्यकलाप प्रतिवेदन Activity Report 2018-19

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With Best Wishes

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2018-2019

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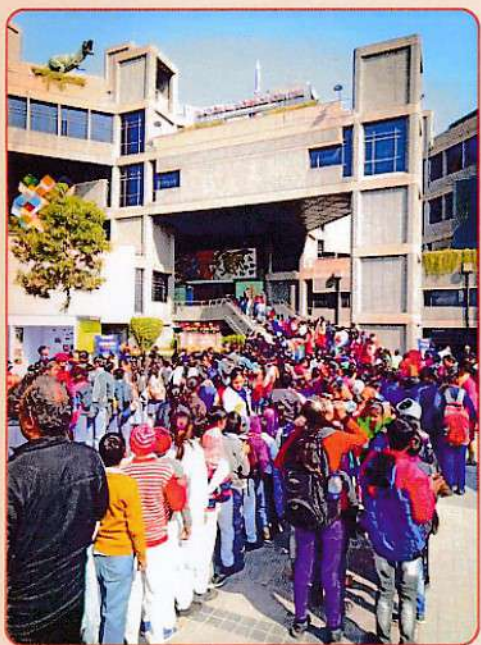
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निदेशक की कलम से From the Director's Desk

मुझे, वार्षिक प्रतिवेदन प्रस्तुत करने में अत्यन्त प्रसन्नता है कि— यह वर्ष व्यस्त गतिविधियों और उपलब्धियों से भरा रहा। वर्ष के दौरान राष्ट्रीय विज्ञान केंद्र, दिल्ली, आंचलिक विज्ञान नगरी, लखनऊ और कुरुक्षेत्र पैनोरमा एवं विज्ञान केन्द्र, कुरुक्षेत्र की पूरी टीम ने निर्धारित लक्ष्यों को प्राप्त करने में अथक परिश्रम किया। एक चुनौतीपूर्ण लक्ष्य के साथ, राष्ट्रीय विज्ञान केंद्र, दिल्ली ने 7,45,326 दर्शकों तक पहुँच हासिल की। इसी प्रकार, क्षेत्रीय विज्ञान नगरी, लखनऊ ने भी इस अवधि के दौरान 6,93,106 के स्तर को प्राप्त करके छह लाख का आंकड़ा पार किया। केंद्र के बाहर के कार्यक्रमों में दर्शकों को शामिल करते हुए, कुरुक्षेत्र पैनोरमा एंड साइंस सेंटर को इस अवधि के दौरान 13,20,974 दर्शक मिले। मुझे यह बताते हुए खुशी हो रही है कि, इस वर्ष के दौरान, उत्तर क्षेत्र ने ढाई मिलियन तक पहुँच बनाई है।

राष्ट्रीय विज्ञान केंद्र, दिल्ली को भारत के पहले आभासी प्रायोगिक संग्रहालय की स्थापना की जिम्मेदारी दी गई थी। इसे केंद्रीय अनुसंधान और प्रशिक्षण प्रयोगशाला (CRTL) के सहयोग से वाराणसी में मान महल वेधशाला (दशाश्वमेध घाट के पास) में स्थापित किया गया है। 19 फरवरी 2019 को भारत के माननीय प्रधानमंत्री द्वारा इसका लोकार्पण किया गया। यह दर्शकों को वाराणसी के सभी पहलुओं को जानने का अवसर प्रदान करेगा दृ बनारस के पान और पकवान से लेकर काशी के योग, स्वास्थ्य और मोक्ष से संबंधित अनेक संवादात्मक और श्रव्य-दृश्य माध्यमों पर आधारित प्रदर्शों का उपयोग इसमें किया गया है। यह प्रोजेक्ट भारत के प्रधानमंत्री की प्रेरणा से संस्कृति मंत्रालय द्वारा पूरा किया गया। इसमें INTACH दिल्ली का सहयोग प्राप्त हुआ। इसकी कहानी और पटकथा लेखन प्रसिद्ध फिल्म पटकथा लेखक श्री अतुल तिवारी द्वारा किया गया।

It gives me a great pleasure in presenting this year's activity report – eighth in a row – which is full of hectic activities and achievements. During this year, the entire team of National Science Centre, Delhi, Regional Science City, Lucknow and Kurukshetra Panorama & Science Centre, Kurukshetra worked relentlessly for achieving the targets laid down. Amidst a challenging market, National Science Centre, Delhi garnered an overall footfall of 7,45,326. Similarly, the Regional Science City, Lucknow also surpassed the six lakh mark by attaining a footfall of 6,93,106 during this period. Including visitors in outreach programmes, Kurukshetra Panorama & Science Centre received 13,20,974 visitors during this year. I am delighted to inform that, in all, the North Zone has surpassed two and a half million reachout during this period National Science Centre, Delhi was given the responsibility of setting up of the first Virtual Experiential Museum of India. It has been set up in the Man Mahal Observatory (near Dashashwamedha Ghat) in Varanasi with the support of Central Research and Training Laboratory (CRTL). It was inaugurated by the Hon'ble Prime Minister of India on 19th February 2019. It would provide opportunity to the visitors to explore all facets of Varanasi—from paan and pakwaan to yoga, health and salvation with several interactive and audio-visual displays. It was a Ministry of Culture's project with inspiration from the Prime Minister of India. INTACH Delhi was the knowledge partner. The story and script writing was done by renowned film script writer Shri Atul Tiwari.





हिमाचल प्रदेश के पालमपुर में उप-क्षेत्रीय विज्ञान केंद्र का विकास कार्य, संस्कृति मंत्रालय द्वारा रा.वि.स.प. के तहत अनुमोदित किया गया, राज्य सरकार द्वारा रा.वि.स.प. को भूमि के हस्तांतरण के बाद परियोजना का शुभारम्भ हुआ। मुख्य भवन का निर्माण कार्य पूरा होने वाला है। विज्ञान पार्क और अन्य सुविधाओं का विकास चल रहा है। इस केंद्र की दीर्घाओं के लिए प्रदर्शों का विकास कार्य प्रगति पर है। उप-क्षेत्रीय विज्ञान केंद्र की स्थापना की एक और परियोजना अल्मोड़ा, उत्तराखंड में शुरू की गई है।

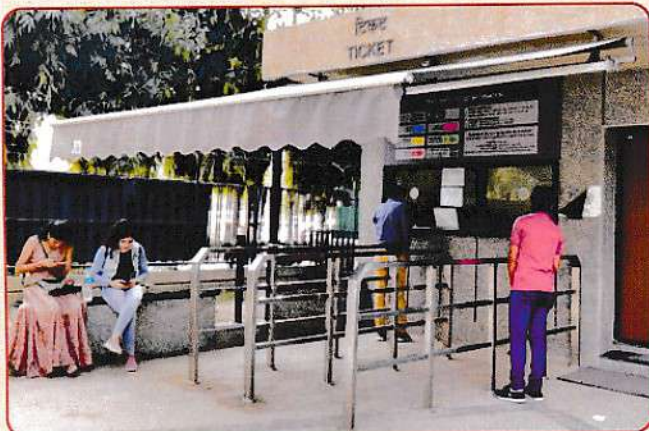
राष्ट्रीय विज्ञान केंद्र परिसर और दीर्घाओं में दर्शकों के अनुकूल वातावरण प्रदान करने के लिए निरंतर प्रयास किए गए हैं। दर्शकों के लिए नई सुविधाओं को जोड़ने के अलावा, विभिन्न प्रकार के दर्शकों के हित को ध्यान में रख कर सुविधाओं का विस्तार किया गया है। टिकट काउंटर के लिए नया बुनियादी ढांचा, दर्शकों और वाहनों के लिए अलग-अलग प्रवेश द्वार बनाये गये हैं। परिसर में पेयजल की सुविधा को पुनर्निर्मित करा गया है। पार्किंग स्थल बढ़ाया गया है, अब दर्शकों को पहले से कहीं अधिक पार्किंग स्थान मिलता है लेकिन फिर भी यह सीमित है। कैटीन क्षेत्र को पूरी तरह से मॉड्यूलर किचन उपकरणों के साथ पुनर्निर्मित किया गया है। गेस्ट हाउस को भी पूरी तरह से पुनर्निर्मित किया गया है। दीर्घाओं में जनसुविधाओं को बढ़ाया गया है एवं विश्राम हेतु बैठने की व्यवस्था का भी विस्तार किया गया है।

रा.वि.के., दिल्ली, सोशल मीडिया पर अपनी उपस्थिति दर्ज करा रहा है। केंद्र के पास वेबसाइट और फेसबुक अकाउंट है जिसमें नई गतिविधियों की और आगामी कार्यक्रमों की झलक प्रदर्शित की जाती है। NSCD टीवी, एक यू ट्यूब चैनल है जिसमें केंद्र के प्रदर्शों एवं क्रियाकलापों के विडियो अपलोड किए जाते हैं। रा.वि.के की उत्पत्ति और उद्भव पर एक वृत्तचित्र फिल्म सिल्वर जुबली समारोह के दौरान विकसित की गई थी और अब इसे ज्यादा से ज्यादा लोगो तक पहुंचाने के लिए यू ट्यूब (NSCD टीवी चैनल) पर अपलोड किया गया है। इसकी अवधि लगभग 30 मिनट है। हाल ही में, प्रचार और प्रसार के उद्देश्य के लिए रा.वि.के की गतिविधियों पर एक और वृत्तचित्र फिल्म का विकास किया गया है और इसे ज्यादा से ज्यादा लोगो तक पहुंचाने के लिए यू ट्यूब पर (NSCD टीवी चैनल) अपलोड किया गया है। इसकी अवधि लगभग 7 मिनट है।

Development work of Sub-Regional Science Centre at Palampur, Himachal Pradesh, approved to be under NCSM by the Ministry of Culture, was taken up subsequently after the transfer of land by the state government to NCSM. The construction of the main building is on the verge of completion. The planning and development of open air Science Park and other facilities is underway. The exhibits development for the galleries is under progress. Another project of setting up of Sub-Regional Science Centre at Almora, Uttarakhand has been taken up.

National Science Centre made continuous and sustained efforts to provide visitors friendly ambience in its complex and galleries. In addition to adding new facilities for the incoming visitors, providing an essentially comfortable social experience is in offer now here. New infrastructure for ticket counter, separate entry gate for visitors & vehicles has been created. Drinking water facility has been provided in an open complex. Visitors get more parking space than ever before but still it is limited. Canteen area has been fully renovated with modular kitchen equipments and appliances. Guest house facility has been fully renovated. More number of rest rooms on floors and seating space in galleries has been added.

NSC, Delhi has been striving to make its presence felt on social media. The Centre has a website, Facebook account which is duly maintained and updated with glimpse of latest activities held and ensuing programmes. NSCD TV on YouTube has been launched having a number of videos on exhibits & activities. A documentary film on the genesis & emergence story of NSCD was developed during Silver Jubilee celebration & now has been uploaded in YouTube on channel NSCD TV for wider reach. The duration is about 30 minutes. Recently, another documentary film on activities of NSCD for promotional and publicity purpose has been developed and uploaded in YouTube on channel NSCD TV for wider reach. The duration is about 7 minutes.





गांधी-विज्ञान, प्रौद्योगिकी एवं नवप्रवर्तन विषय पर प्रदर्शनी का उद्घाटन 28 फरवरी 2019 को राष्ट्रीय विज्ञान दिवस के अवसर पर किया गया। इसका उद्घाटन राष्ट्रीय गांधी संग्रहालय के पूर्व निदेशक डॉ. वाई. पी. आनंद द्वारा किया गया जिन्होंने गांधी जी के कार्यों पर कई पुस्तकों का लेखन किया है। प्रदर्शनी में मानव जाति के लाभ के लिए पारंपरिक ज्ञान को शामिल करके आधुनिक विज्ञान का उपयोग करने की दिशा में महात्मा गांधी के दृष्टिकोण पर फोटो पैनल शामिल थे। आ.वि.न.ल. और कु.पै.वि.के. में भी प्रदर्शनी का आयोजन किया गया।

संस्कृति मंत्रालय, भारत सरकार ने संबद्ध सांस्कृतिक गतिविधियों के लिए वित्तीय सहायता योजना हेतु उनके द्वारा प्राप्त प्रस्तावों के तकनीकी मूल्यांकन के लिए राष्ट्रीय विज्ञान केंद्र, दिल्ली को अपना तकनीकी संगठन बनाया है। इस योजना का उद्देश्य सांस्कृतिक गतिविधियों की पहुँच ज्यादा से ज्यादा लोगों तक, ऑनसाइट और ऑफसाइट दोनों तरीके से, पहुँचाने की है।

वर्तमान में, राष्ट्रीय विज्ञान केंद्र, दिल्ली को भारत में विभिन्न पुरातात्विक स्थलों के लिए वर्चुअल रियलिटी और ऑगमेंटेड रियलिटी सामग्री बनाने के लिए संस्कृति मंत्रालय द्वारा जिम्मेदारी दी गई है, जिससे विभिन्न आकर्षक डिजिटल मोड के द्वारा पुनर्निर्मित जानकारी प्रदान करके इन पुरातत्व स्थलों के लिए आगंतुकों को अनुभवात्मक शिक्षा प्रदान की जा सके।

रा.वि.के., दिल्ली को संस्कृति मंत्रालय द्वारा इलाहाबाद संग्रहालय, (प्रयागराज, उ.प्र.) में चंद्रशेखर आजाद पर एक प्रदर्शनी बनाने की जिम्मेदारी दी गई है। तैयार किए गए डिजाइन और अवधारणा राज्यपाल, उ.प्र. को प्रस्तुत किए गए। संग्रहालय के लिए जगह को अंतिम रूप से आवंटित किया जाना अभी शेष है, परंतु संस्कृति मंत्रालय द्वारा रा.वि.के. को निर्देश के अनुसार, इस प्रदर्शनी का विस्तार लाल किला दिल्ली में औपनिवेशिक इमारतों में से एक में स्थापित करने की प्रक्रिया शुरू कर दी गयी है, जिसके लिए स्थल पुरातत्व सर्वेक्षण द्वारा आवंटित कर दिया गया है। भारतीय पुरातत्व सर्वेक्षण द्वारा आवंटित स्थल पर कार्य प्रगति पर है। प्रोफेसर कपिल कुमार, सामाजिक विज्ञान विद्यालय, इग्नू की सेवा विषय सामग्री प्रदान करने और विषय सामग्री को जाँचने हेतु ली जा रही है।



An Exhibition on 'Gandhi- Science, Technology & Innovation' was inaugurated on 28th February 2019 on the occasion of National Science Day. This was inaugurated by Dr. Y. P. Anand, former Director of National Gandhi Museum and writer of several books on Gandhi's work. The exhibition comprises of photo panels on viewpoint of Mahatma Gandhi towards modern science by incorporating the traditional knowledge for the benefit of mankind. Simultaneously, the same exhibition was organised at RSCL & KPSC on 28th February 2019.

Ministry of Culture has made the National Science Centre, Delhi as their Technical Organization for technical evaluation of the proposals received by them under the Scheme for Financial Assistance for Allied Cultural Activities in India. The objective of this scheme is to enhance the reach of the happening cultural activities to a large section of the people – both onsite and offsite.

At present, the National Science Centre, Delhi is given the responsibility by MoC for creating Virtual Reality and Augmented Reality content for various archaeological sites in India to provide experiential learning to the visitors about these archeological sites by providing reconstructed information through various engaging digital modes.

NSC, Delhi was given the responsibility of setting up of an Exhibition on Chandrasekhar Azad 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 allotted, as per the directive of Ministry of Culture, NSC, Delhi is now in the process of setting up an extension of this exhibition in one of the colonial buildings in Red Fort for which the site is already allotted by the Archaeological Survey of India. Work for this is going on at an advanced stage. Prof. Kapil Kumar, School of Social Science, IGNOU has been engaged as the resource person to provide and vet the content.

NSC, Delhi made special efforts for providing visitor-friendly ambience by creating open space in front of the building. New infrastructure for ticket counter, separate entry gates for visitors and vehicles have been created. A major attraction has been added in the form of 'Kugel Fountain' which is a spinning granite sphere of 2 meter diameter floating on thin water membrane.

दर्शकों को उत्कृष्ट सुविधाये देने हेतु रा.वि.के., दिल्ली के भवन के सामने खुली जगह का निर्माण कराया गया। टिकट काउंटर के लिए नया बुनियादी ढांचा एवं आगंतुकों और वाहनों के लिए अलग-अलग प्रवेश द्वार बनाये गए हैं। कुगल फाउंटेन के रूप में एक प्रमुख आकर्षण जोड़ा गया है जो पतली पानी की परत पर तैरता हुआ दो मीटर व्यास वाला ग्रेनाइट पत्थर से बना एक गोला है।

एक नई अत्याधुनिक सुविधा जिसमें होलोग्राफिक प्रोजेक्शन का प्रयोग कर, एक लघु फिल्म (लगभग 15 मिनट की अवधि) जिसका शीर्षक "हमारे शारीरिक तन्त्र" है को बनाया गया जिसे लोकप्रिय रूप से होलो शो के रूप में जाना जाता है, और इसका उद्घाटन श्री मनोज पटैरिया निदेशक, सीएसआईआर – एनसीएसटीसी, दिल्ली द्वारा 14 नवंबर, 2018 को किया गया।

भारतीय चुनाव आयोग द्वारा द्वारका, दिल्ली में चुनाव और लोकतंत्र संग्रहालय स्थापित करने के लिए एक अनुरोध प्राप्त हुआ, रा. वि. स. प. द्वारा अनुमोदन मिलने पर रा. वि. के., दिल्ली ने इस परियोजना को लेने के लिए सहमति दे दी है।

भारत के आकांक्षात्मक जिलों के छात्र छात्राओं तक विज्ञान केंद्र के कार्यकलापों को पहुंचाने हेतु, संस्कृति मंत्रालय ने 25 भ्रमणशील विज्ञान प्रदर्शनियों को चलाने की मंजूरी दी है। इनमें से 5 भ्रमणशील विज्ञान बस उत्तरी क्षेत्र को प्रदान की जाएंगी, जिनका उपयोग करके हमें उत्तरी क्षेत्र के 21 जिलों के छात्र छात्राओं तक विज्ञान केंद्र के कार्यकलापों को पहुंचाना है। विषय सामग्री बनाने के लिए रा.वि.स.प., विज्ञान और प्रौद्योगिकी विभाग और उसके संगठनों के साथ साझेदारी कर रहा है।

आ.वि.न. ने कोटा और झालावाड़ विज्ञान पार्क परियोजनाओं के लिए नए प्रदर्श विकसित किए। विज्ञान पार्क के प्रदर्शनों का नवीनीकरण किया गया और 28 अगस्त 2018 को 'एयरक्राफ्ट कैरियर' नाम से एक नए साईमैक्स शो का शुभारंभ किया गया। "एक भारत : सरदार पटेल" पर एक भ्रमणशील प्रदर्शनी का उद्घाटन 1 अक्टूबर 2018 को माननीय उप मुख्यमंत्री, उ.प्र., डॉ. दिनेश शर्मा द्वारा किया गया। द फ्यूचर ऑफ द फूड: पल्सेस पर भ्रमणशील प्रदर्शनी का उद्घाटन 27 नवंबर, 2012 को डॉ. एन.पी. सिंह, निदेशक, भारतीय दलहन अनुसंधान संस्थान, कानपुर द्वारा किया गया।

कु.पै.वि.के. ने विज्ञान पार्क और मनोरंजन विज्ञान दीर्घा का निर्माण किया। केंद्र द्वारा 'प्रकाश' विषय पर भ्रमणशील विज्ञान प्रदर्शनी विकसित की गई। 'मैथ्स इज फन' नामक एक विज्ञान प्रदर्शन व्याख्यान का विकास किया गया और टोपोलॉजी किट भी विकसित किए गए। सम्मेलन कक्ष, पुस्तकालय और महाभारत पैनोरमा का नवीनीकरण किया गया। बगीचे में सार्वजनिक शौचालय के पास की भूमि भी पिकनिक क्षेत्र के रूप में विकसित की गई।



A new state-of-the-art facility show using Holographic projection, popularly known as HOLOSHOW, a short film (of about 15 minutes duration) titled 'Our Body Systems' was developed and inaugurated on 14th November 2018 by Shri Manoj Pataria, Director, CSIR – NCSTC, Delhi.



A request has been received from the Election Commission of India (ECI) for setting up Election and Democracy Museum in Dwarka, Delhi and NSC, Delhi has accorded consent to take up this project after the same was approved by NCSM Hqrs.

In order to cater reachout to the school students of the aspirational districts of India, Ministry of Culture has approved running of 25 Mobile Science Exhibitions. Out of these, 5 mobile science buses will be provided to Northern Zone using which we will have to cater to 21 districts in North Zone. For creating the content, NCSM is partnering with Department of Science & Technology and its organizations.

RSCL developed new exhibits for Kota & Jhalawar Science park projects. The exhibits of 'Science Park' were renovated and a new Scimax shows named 'Aircraft Carrier' was launched on 28th August 2018. A travelling exhibition on 'Uniting India: Sardar Patel' was inaugurated on 1st October 2018 by Hon'ble Deputy Chief, UP, Dr. Dinesh Sharma. A travelling exhibition on 'The Future of the Food: Pulses' was inaugurated on 27th November 2018 by Dr. N.P. Singh, Director, Indian Institute of Pulses Research, Kanpur.

KPSC developed Science Park and Fun Science Gallery. Mobile Science Exhibition on the theme 'Light' was developed. A Science Demonstration Lecture titled 'Maths is Fun' was developed and Topology kits were also developed. Conference Hall and Library facilities, Diorama of the Mahabharata Panorama were renovated. Land near the public toilets in the garden was also developed as a picnic area.

संस्कृति मंत्रालय के निर्देशों के तहत, समाज के वंचित बच्चों को विज्ञान के प्रति जागरूक करने के लिए विशेष ध्यान दिया गया। इस कार्यक्रम के तहत, कई गैर-सरकारी संगठनों ने ऐसे बच्चों को, जिनके पास वैज्ञानिक अनुभव प्राप्त करने के लिए कोई साधन नहीं है और वे कभी विज्ञान केंद्र भी नहीं आ सके हैं, केन्द्र तक ले आने के लिए सफल प्रयास किया। इन बच्चों को उपहार के रूप में अल्पाहार और एक वैज्ञानिक किट भी दी गई जिसे वे विज्ञान केंद्र से वापस लौटने के बाद भी प्रयोग कर सकते हैं।



राष्ट्रीय विज्ञान नाटक महोत्सव, राष्ट्रीय विज्ञान संग्रहालय परिषद की एक वार्षिक गतिविधि है, नाटक के माध्यम से बच्चों के संचार कौशल का पोषण करने के लिए, राष्ट्रीय विज्ञान केंद्र, दिल्ली में 10 से 12 जनवरी, 2019 को राष्ट्रीय विज्ञान नाटक महोत्सव आयोजित किया गया। यह विज्ञान नाटक महोत्सव मुख्यतः 'विज्ञान और समाज' विषय पर आधारित था और सभी टीमों ने उप-विषयों— स्वच्छ भारत-विज्ञान और प्रौद्योगिकी की भूमिका, नदियों की सफाई, डिजिटल इंडिया और हरित ऊर्जा में से एक पर अपने विज्ञान नाटक का प्रदर्शन किया। प्रत्येक क्षेत्र (कुल 5 जोन) से दो विजेता टीम को दिल्ली में राष्ट्रीय विज्ञान नाट्य उत्सव के लिए आमंत्रित किया गया था और उन्होंने उप-विषयों में से एक पर विज्ञान नाटक का प्रदर्शन किया। 10 जनवरी को राष्ट्रीय नाट्य विद्यालय के सहयोग से आमंत्रित छात्र छात्राओं के लिए रंगमंच पर एक संवादात्मक कार्यशाला का आयोजन किया गया। श्रीमती शालू जिंदल, अध्यक्ष, राष्ट्रीय बाल भवन, 11 जनवरी, 2019 के उद्घाटन समारोह के दौरान मुख्य अतिथि थी। माननीय उप राष्ट्रपति, संस्कृति मंत्री और मंत्रालय के अन्य वरिष्ठ अधिकारियों के शुभकामना संदेश वाले विशेष स्मारिका (पुस्तक) का विमोचन भी किया गया और इस अवसर पर संबंधित हस्तियों द्वारा योगदान किए गए संबंधित लेख भी जारी किए गए। राष्ट्रीय नाट्य विद्यालय की अध्यक्षा, डॉ अमल अल्लाना समापन समारोह की मुख्य अतिथि थी और उन्होंने सभी प्रतिभागी टीमों को पुरस्कार प्रदान किए।

केंद्र ने 28 से 30 अगस्त 2018 तक आगरा में, 27 से 29 नवंबर 2018 तक अल्मोड़ा, उत्तराखंड में, 15 से 19 जनवरी 2019 तक उदयपुर में और 21 से 25 जनवरी 2019 तक बीकानेर में संबंधित जिला शिक्षा अधिकारियों के सहयोग से विज्ञान महोत्सव का आयोजन किया। 12 और 13 फरवरी 2019 को हिसार, हरियाणा के गुरु जाम्भेश्वर विज्ञान और प्रौद्योगिकी विश्वविद्यालय में साइंस कॉन्क्लेव 2019 में केंद्र ने भागीदारी करी। इस विज्ञान उत्सव विज्ञान सम्मेलन में केंद्र द्वारा मनोरंजक विज्ञान पर आधारित पोर्टेबल प्रदर्श प्रदर्शित किए गए। प्रदर्शनी की अवधि के दौरान दर्शकों के लिए दूरबीन के माध्यम से रात्रि आकाश अवलोकन कार्यक्रम एवं विज्ञान शो का आयोजन किया गया। विज्ञान उत्सव के दौरान सेवारत शिक्षकों के लिए शिक्षक प्रशिक्षण कार्यक्रम भी आयोजित किया गया।

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, several Non-Governmental Organizations were roped-in to mobilize and bring in these children, who otherwise have no avenues for such kind of scientific exposure or have never visited NSCD to create inquisitiveness among them for science and technology. These children were also given a snack and a scientific kit as a token of gift which they can explore even after returning from the Science Centre.

National Science Drama Festival, an annual activity of National Council of Science Museums (NCSM) to nurture the communication skills of children through the medium of drama, was organised at National Science Centre, Delhi from 10th to 12th January, 2019. The main theme for this science drama was 'Science and Society' and all the teams performed their science drama on one of the sub-themes—Swachh Bharat: Role of Science and Technology, Cleansing of Rivers, Digital India & Green Energy. Two winner teams of students from each zone (Total 5 zones) were invited for the National festival at Delhi & they performed science drama on one of the sub-themes. An interactive workshop on theatre was organized for invited student teams and accompanying teachers on 10th January in collaboration with National School of Drama. Smt. Shallu Jindal, Chairperson, National Bal Bhawan was the Chief Guest during the Inaugural function on 11th January, 2019. A special souvenir containing good wishes messages from the Hon'ble Vice President, Hon'ble Minister of Culture & other senior officials of the Ministry and related articles contributed by celebrities was released on the occasion. Dr. Amal Allana, Chairperson, National School of Drama was the Chief Guest of the Valedictory Ceremony and she awarded the prizes to all the participating teams.



The Centre organized Science Festivals at Agra from 28th to 30th August 2018; at Almora, Uttarakhand from 27th to 29th November 2018; at Udaipur from 15th to 19th January 2019 and at Bikaner from 21st to 25th January 2019 in association with respective district education authorities. There was a participation of NSCD in Science Conclave 2019 at Guru Jambheshwar University of Science & Technology, Hisar, Haryana on 12th & 13th February 2019. Portable participatory exhibits on Fun Science were displayed by the Centre in this science festival/science conclave.



केंद्र में कौमी एकता सप्ताह 19 से 25 नवंबर 2018 तक मनाया गया। कौमी एकता सप्ताह के दौरान, विभिन्न प्रतियोगिताएँ जैसे कि प्रश्नोत्तरी प्रतियोगिता, चित्रकला प्रतियोगिता और दीर्घा प्रदर्शन आमंत्रित छात्र समूहों के लिए आयोजित किया गया।

केंद्र ने 29 अक्टूबर से 3 नवंबर 2018 तक सतर्कता जागरूकता सप्ताह के अवसर पर विभिन्न कार्यक्रम आयोजित किए। इस अवसर पर अधिकारियों एवं कर्मचारियों द्वारा 'भ्रष्टाचार मुक्त भारत' बनाने का संकल्प लिया गया। स्कूली बच्चों के लिए सतर्कता जागरूकता पर प्रश्नोत्तरी कार्यक्रम आयोजित किया गया। 'भ्रष्टाचार मुक्त नए भारत के निर्माण' की जानकारी आम लोगों और विशेष रूप से छात्रों को दी गई। पूर्ण चंद्रग्रहण पर चन्द्र ग्रहण लाइव कार्यक्रम 27-28 जुलाई 2018 की रात को आयोजित किया गया। ग्रहण के दिन चंद्रमा पृथ्वी से अधिकतम दूरी पर था जिससे यह आकाश में छोटा दिख रहा था और पूर्ण चन्द्र ग्रहण होने के कारण चंद्रमा लाल रंग का दिख रहा था— अतः इसे लघु रक्त रंजित चंद्र ग्रहण के नाम से भी जाना जाने लगा। चंद्रग्रहण देखने की व्यवस्था दूरबीन के माध्यम से की गई थी। इस विशेष खगोलीय घटना के दौरान दर्शकों को ग्रहण के वैज्ञानिक कारणों और इसके खगोलि महत्व के बारे में बताया गया।

नगर स्तरीय विज्ञान मेला, उत्तरी भारत विज्ञान मेला और नवप्रवर्तन महोत्सव 1 से 9 फरवरी 2019 तक आयोजित किये गए। इग्नू नई दिल्ली के कुलपति प्रो. नागेश्वर राव 4 फरवरी 2019 को उत्तरी भारत विज्ञान मेला के उद्घाटन समारोह के मुख्य अतिथि थे। प्रोफेसर पी. बी. शर्मा, कुलपति, एमिटी विश्वविद्यालय, मानेसर 5 फरवरी 2019 को उत्तरी भारत विज्ञान मेला समापन एवं पुरस्कार वितरण समारोह के मुख्य अतिथि थे। उत्तरी राज्यों के विजेता प्रतिभागियों ने इस विज्ञान मेले में भाग लिया। इनोवेशन फेस्टिवल का उद्घाटन अंतर विश्वविद्यालय त्वरक केंद्र, दिल्ली के निदेशक प्रोफेसर अविनाश चंद्र पांडे ने किया। इनोवेशन फेयर में 24 इनोवेटर्स और 6 कंपनियों ने हिस्सा लिया और अपने प्रोजेक्ट प्रदर्शित किए। बौद्धिक संपदा अधिकार पर एक कार्यशाला का भी आयोजन किया गया। यह कार्यक्रम पुरस्कार वितरण समारोह के साथ समाप्त हुआ जिसमें डॉ. मोहित गंभीर, निदेशक, मानव संसाधन विकास मंत्रालय, भारत सरकार, ने विजेताओं को पुरस्कार दिए।



Regular shows on 'Science verses Miracle' along with night sky observation programme through telescope were conducted for visitors during the period of exhibition. Teacher's training programmes were conducted for the in-service teachers during science festivals.

Quami Ekta Week or National Integration Week was observed from 19th to 25th November 2018. During whole week celebration of the quami ekta week, various programmes like quiz contest, painting contest, special demonstration of gallery exhibits were organized for invited student community from various ethnic groups.

The Centre organized programmes on the occasion of Vigilance Awareness Week from 29th Oct. to 3rd November 2018. A pledge on 'Corruption Free India' was taken by all staff members. Quiz programme on vigilance awareness was held for school children. Information on 'Eradicate Corruption-Build a New India' was communicated to masses in general and students in particular. Live watch programme on Total lunar eclipse was organised on the night of 27th-28th July 2018. On the day of the eclipse, the Full Moon was also at its farthest from the Earth, so it looked a little smaller in the sky, making this a Blood Micro Moon eclipse. Arrangement to watch the lunar eclipse was done through high resolution telescope. During the event, the visitors learnt scientific causes of eclipse, its significance in an interactive manner.

City Level Science Fair, Northern India Science Fair and Innovation Festival were organised from 1st to 9th February 2019. Prof Nageshwar Rao, Vice Chancellor, IGNOU, New Delhi was the Chief Guest of the Inaugural ceremony of NISF on 4th February 2019. Prof P. B. Sharma, Vice Chancellor, Amity University, Manesar, Gurugram was the Chief Guest of the Valedictory & Prize distribution function of NISF on 5th February 2019. The winner participants from northern states participated in NISF. The Innovation festival was inaugurated by Prof. Avinash Chandra Pandey, Director, Inter University Accelerator Centre, Delhi. 24 Innovators and 6 companies participated in Innovation fair and presented their projects. A workshop on Intellectual property Rights was also organised. The programme ended with prize distribution ceremony in which Dr. Mohit Gambhir, Director, Ministry of HRD, Govt. of India gave away the prizes to the winners.



डॉ. भास्वती भट्टाचार्य, क्लिनिकल असिस्टेंट प्रोफेसर ऑफ मेडिसिन, वेल कॉर्नेल मेडिकल कॉलेज, न्यूयॉर्क, यूएसए ने 13 फरवरी 2019 को केंद्र में "मानव शरीर को देखते हुये प्राचीन अवधारणाओं को आधुनिक से जोड़ना" विषय पर एक व्याख्यान दिया। प्रशिक्षु चिकित्सक हमदर्द मेडिकल कॉलेज, प्राध्यापक डीपीएस और एमएमएच कॉलेज गाजियाबाद एवं आयुर्वेद उपचारों का अभ्यास करने वाले डॉक्टरों ने व्याख्यान में भाग लिया और उनके साथ विचार विमर्श भी किया।

रा. वि. के., दिल्ली को अनुसंधान, विकास और समाज के उत्थान के क्षेत्र में किए गए योगदान के लिए 2 दिसंबर, 2018 को ग्रीन मैपल फाउंडेशन द्वारा प्रतिष्ठित ग्रीन पेटल अवार्ड – 2018 से सम्मानित किया गया।

9वें साइंस एक्सपो का उद्घाटन 18 फरवरी 2019 को आ.वि.न. में डॉ. मैनेजर सिंह, महानिदेशक, NRLC लखनऊ, द्वारा श्रीमती ललिता प्रदीप, संयुक्त निदेशक, बेसिक शिक्षा, यूपी और विभिन्न वैज्ञानिक संस्थानों के वरिष्ठ वैज्ञानिक की उपस्थिति में किया गया। CISH, CSTUP, इंटीग्रल यूनिवर्सिटी, NBRI, NRLC, NBFGR और RSAC ने अपनी अनुसंधान गतिविधियों को प्रदर्शित करके इसमें भाग लिया। इस अवधि के दौरान छात्रों और आम जनता के लिए व्याख्यान, प्रदर्शन, विज्ञान प्रश्नोत्तरी, पोस्टर बनाओ प्रतियोगिता और आकाश अवलोकन कार्यक्रम की एक श्रृंखला आयोजित की गई। कार्यक्रम का समापन 20 फरवरी 2019 को हुआ, जिसमें प्रोफेसर अकील अहमद, कुलपति, इंटीग्रल यूनिवर्सिटी, लखनऊ, मुख्य अतिथि थे और विज्ञान और प्रौद्योगिकी परिषद, यूपी, के संयुक्त निदेशक, श्री एस एम प्रसाद समारोह की अध्यक्षता कर रहे थे। इस अवसर पर, मुख्य अतिथि ने विज्ञान एक्सपो-2019 के दौरान आयोजित विभिन्न प्रतियोगिताओं के विजेताओं को पुरस्कार प्रदान किए। जनवरी 2019 में आ.वि.न. द्वारा नगर स्तरीय विज्ञान मेला का भी आयोजन किया गया। आ. वि.न. में जनवरी से मार्च 2019 तक 'एलईडी लैंप मेकिंग', '3डी प्रिंटिंग', 'हाइड्रोपोनिक्स' और 'एस्ट्रोफिजिक्स' पर इनोवेटिव वर्कशॉप का आयोजन किया गया था, जिसमें बड़ी संख्या में छात्रों ने भाग लिया।

Dr. Bhaswati Bhattacharya, Clinical Assistant Professor of Medicine, Weill Cornell Medical College, New York, NY(USA) delivered a lecture on 'Connecting Ancient Concepts with Modern for Seeing the Human Body' at NSC, Delhi on 13th February 2019. Medical Interns from Hamdard Medical College, Faculties from DPS and MMH College Ghaziabad, doctors practicing Ayurveda therapies attended the lecture and interacted with her.

NSC, Delhi was awarded the prestigious Green Petal Award – 2018 by Green Maple Foundation on 2nd December, 2018 for the contribution done in the field of Research, Development and Upliftment of the Society.

9th Science Expo was inaugurated on 18th February 2019 at RSCL by Dr. Manager Singh, Director General, NRLC, Lucknow in presence of Smt. Lalita Pradeep, Joint Director, Basic Education, UP and various senior scientists from different scientific institutions. CISH, CSTUP, Integral University, NBRI, NRLC, NBFGR, and RSAC participated by displaying their research activities of the institution. During the period, a series of lectures, demonstrations, science quizzes, poster making contest and sky observation programme were organized for the students and general public. The programme concluded on 20th February 2019 in which Prof. Aqil Ahmed, Vice Chancellor, Integral University, Lucknow was the Chief Guest and Shri S. M. Prasad, Joint Director, Council of Science & Technology, UP presided over the function. On this occasion, the chief guest gave away the prizes to the winners of different events held during the Science Expo-2019. City Level Science Fair was also organised by RSCL in January 2019. Innovative workshop on 'LED Lamp Making', '3D printing', 'Hydroponics' and 'Astrophysics' were organised from January to March 2019 at RSCL in which large number of students participated.



कु.पै.वि.के. में 23 से 27 जनवरी 2019 तक छात्रों के लिए विभिन्न वैज्ञानिक अवधारणाओं को गैर-औपचारिक तरीके से बेहतर और स्पष्ट रूप से समझने में सक्षम बनाने के लिए विज्ञान फिल्म शो का आयोजन किया गया। 'पानी की कहानी' पर INTACH, के सहयोग से 7 फरवरी 2019 को पेंटिंग प्रतियोगिता का आयोजन किया गया। कार्यक्रम का उद्देश्य पानी के संरक्षण के विभिन्न प्रथाओं के बारे में जिज्ञासा, रचनात्मकता और बेहतर समझ को विकसित करना था। इस अवसर पर, कुरुक्षेत्र विश्वविद्यालय, कुरुक्षेत्र, में सरस्वती नदी पर अनुसंधान के लिए उत्कृष्टता केंद्र के निदेशक डॉ ए आर चौधरी द्वारा एक व्याख्यान दिया गया। डॉ. भास्वती भट्टाचार्य, क्लिनिकल असिस्टेंट प्रोफेसर ऑफ मेडिसिन, वेल् कॉर्नेल मेडिकल कॉलेज, न्यूयॉर्क, यूएसए ने 12 फरवरी 2019 को कु.पै.वि.के. में "मानव शरीर को देखते हुये प्राचीन अवधारणाओं को आधुनिक से जोड़ना" विषय पर व्याख्यान दिया। आयुर्वेद मेडिकल कॉलेज कुरुक्षेत्र के छात्र एवं आयुर्वेद उपचारों का अभ्यास करने वाले डॉक्टरों ने व्याख्यान में भाग लिया और उनके साथ बातचीत की।

KPSC organised Science Film Shows for students to enable them to understand different scientific concepts better & clearly in the non-formal way from 23rd to 27th January 2019. 'Paani Ki Kahani' titled painting contest was organised 7th February 2019 in collaboration with Indian National Trust for Art and Cultural Heritage (INTACH). The objective of the programme was to inculcate inquisitiveness, creativity & better understanding about various practices of conservation of water. On the occasion, a lecture was delivered by Dr. A. R. Choudhri, Director, Centre of Excellence for Research on Sarasvati River, Kurukshetra University, Kurukshetra. Dr. Bhaswati Bhattacharya, Clinical Assistant Professor of Medicine, Weill Cornell Medical College, New York, NY(USA) delivered a lecture on 'Connecting Ancient Concepts with Modern for Seeing the Human Body' at KPSC on 12th February 2019. Medical students from Ayurveda College, Kurukshetra, doctors practicing Ayurveda therapies attended the lecture and interacted with her.



समाप्त करने से पहले, मैं अपने कर्तव्यों से पूर्ण नहीं होऊँगा 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 दूँगा जिन्होंने अपनी पूर्ण निष्ठा से पूर्व निर्धारित लक्ष्यों को प्राप्त करने में हमारी सहायता की है। साथ ही मैं अपने मुख्यालय राष्ट्रीय विज्ञान संग्रहालय परिषद 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)

Before I conclude, I will be failing in my duties, if I do not credit the untiring efforts that my fellow officers and all the staff members of NSCD, RSCL and KPSC who have put in and extended unqualified support besides exhibiting dedication, passion and commitment which has been solely responsible for the results that are seen. I also owe my indebtedness to our headquarter at NCSM, advisory committees of NSCD, the Executive Committee, Programme and Planning Committee of NSCD and Local Advisory Committees of RSCL and KPSC.

Looking forward to sharing many more successes during the years to come.

(D. Rama Sarma)

Brief of Programmes/ Activities/ Collaborations

NATIONAL SCIENCE CENTRE Delhi

Summer vacation hobby camps for school students were held from 21st to 25th May; 28th May to 1st June 2018 and from 4th to 8th June 2018 at the Centre. The students from class 6th to 12th participated in the camps in various disciplines. Scientific Toy Making (Junior), Scientific Toy Making (Senior), Exploring Nature, Astro Lab, Wonders of Electronics, Robotics, & Biotechnology were the streams in which students participated in large numbers. In these 24 hobby camps about 765 students from different schools participated and 2200 kits/projects were developed during the camps. In addition, all the students were exposed to various facilities of the Centre through guided visits to the galleries, Science on Sphere show, special 3D film fantasy shows and Science Demonstration Lectures.

An Exhibition on 'Gandhi- Science, Technology & Innovation' was inaugurated on 28th February 2019 on the occasion of National Science Day. This was inaugurated by Dr. Y. P. Anand, former Director of National Gandhi Museum and writer of several books on Gandhi's work. The exhibition comprises of photo panels on viewpoint of Mahatma Gandhi towards using modern science by incorporating the traditional knowledge for the benefit of mankind.

The Centre participated in the Science Symposium organized by Directorate of Education, Govt. of Delhi at Government Sr. Sec. School, Ambedkar Nagar, New Delhi on 27th July 2018. Regular shows on 'Science versus Miracle' were conducted for students during the programme. The Centre participated in Annual Meet of VIPNET Clubs of SDMC programme on 27th March 2019 at Indira Parayabhavan Bhavan, Jor Bagh, New Delhi. On this occasion, a large number of innovative experiments including demo on 'Science Verses Miracles' were shown to the science teachers in an interactive way. The audiences that included science teachers and teaching faculty from

educational institutes interacted during this session on development of innovative low cost teaching aids. About 150 science teachers attended the programme.

The Centre collaborated with Expressions India, an organization engaged in adolescent education, organized a series of lectures for the general public and college students from 21st to 1st June 2018 and from 4th to 8th June 2018 on major theme 'Understanding Adolescence' and 'Conservation of Energy Sources'.

Dr. Bhaswati Bhattacharya, MPH, MD, PhD, Clinical Asst Professor of Medicine, Weill Cornell Medical College, New York, NY(USA) delivered a Popular Science Lecture on the topic 'Connecting Ancient Concepts with Modern for Seeing the Human Body' at NSC, Delhi on 13th February 2019. Medical Interns from Hamdard Medical College, Faculties from DPS and MMH College Ghaziabad, Doctors practicing Ayurved therapies, college students and scientists attended the lecture.

The Centre collaborated with Expressions India to organize National Psycholympiad 2018 on 23rd August 2018 for school students of various schools of Delhi & NCR. Poster exhibition, thematic painting contest, national level quiz on Psychology, extempore speech and Nukkad Natak was conducted on this occasion. The invited resource persons in related fields interacted with school students and discussed their adolescent problems and issues. The prizes and certificates were awarded to the winners during the valedictory function. About 300 school children and teachers participated in the programme.

Regular interactive workshops in Astronomy, Biotechnology, Air & Water and Physics were conducted for school students as special curriculum based educational package. Contents of the Astronomy workshop were



geology & the surface features of the Moon (Crater, Maria etc.) and provide answer phases of the Moon. The Biotechnologybased workshops focused on observing Paramecium in lab, developing Lacto-bacillus culture from curd, preparing animal cell slides, Isolation of DNA , learning about parts of the flower and a demonstration on water. Special package was offered to school students on Science on Sphere show related to Air and Water. Shows were conducted on distribution of water, water pollution, chemistry of water, and composition of air, greenhouse gases, global warming etc.

National Science Drama Festival, an annual activity of National Council of Science Museums (NCSM) to nurture the communication skills of children through the medium of drama, was organised at National Science Centre, Delhi from 10th to 12th January, 2019. The main theme for this science drama was 'Science and Society' and the all the teams performed their science drama on one of the sub-themes- Swachh Bharat: Role of Science and Technology, Cleansing of Rivers, Digital India & Green Energy. Two winner students' teams from each zone (Total 5 zones) were invited for the national festival at Delhi & they performed science drama on one of the sub-themes. An interactive workshop on theatre was organized for invited student teams and accompanying teachers on 10th January in collaboration with National School of Drama. Smt. Shallu Jindal, Chairperson, National Bal Bhawan was the Chief Guest during the Inaugural function on 11th January, 2019. A special souvenir containing good wishes messages from the Hon'ble Vice President, Hon'ble Minister of Culture & other senior officials of the Ministry and also related articles contributed by celebrities was released on the occasion. Dr. Amal Allana, Chairperson, National School of Drama was the Chief Guest of the Valedictory Ceremony and she awarded the prizes to all the participating teams.

The Centre organized Live Watching Lunar Eclipse Programme on total lunar eclipse on the night of 27th-28th July 2018. On the day of the eclipse, the Full Moon was also at its farthest position from the Earth, so it looked a little smaller in the sky, making this a Blood Micro Moon eclipse. Totality lasted for 103 minutes, making it the longest eclipse of the 21st century. Publicity was done through

banners/posters & email to invite people in the evening of 27th-28th July for watching this natural phenomena. In addition to general public, large number of students & teachers gathered in the Centre's complex on the occasion. Arrangement to watch the lunar eclipse was done through high resolution telescope. During the event, the visitor learnt scientific causes of eclipse, its significance in interactive manner. About fifty enthusiastic visitors participated in the programme.

City Level Science Fair, Northern India Science Fair and Innovation Festival were organised from 1st to 9th February 2019. Prof Nageshwar Rao, Vice Chancellor, IGNOU, New Delhi was the Chief Guest of the Inaugural ceremony of NISF on 4th February 2019. Prof P. B. Sharma, Vice Chancellor, Amity University, Manesar, Gurugram was the Chief Guest of the Valedictory & Prize distribution function of NISF on 5th February 2019. The winner participants from northern states participated at NISF.

The Innovation festival was inaugurated by Prof. Avinash Chandra Pandey, Director, Inter University Accelerator Centre, Delhi. 24 Innovators and 6 companies participated in Innovation fair and presented their projects. A workshop on Intellectual property Right was also organised. The programme ended with prize distribution ceremony in which Dr. Mohit Gambhir, Director, Ministry of HRD, Govt. of India gave away the prizes to the winners.

Dr. Bhaswati Bhattacharya, Clinical Assistant Professor of Medicine, Weill Cornell Medical College, New York, NY(USA) delivered a lecture on 'Connecting Ancient Concepts with Modern for Seeing the Human Body' at NSC, Delhi on 13th February 2019. Medical Interns from Hamdard Medical College, Faculties from DPS and MMH College Ghaziabad, doctors practicing Ayurveda therapies attended the lecture and interacted with her. The Innovation festival was organized from 7th to 9th February 2019. The festival was inaugurated by Prof. Avinash Chandra Pandey, Director, Inter University Accelerator Centre, Delhi on 7th February 2019. 24 Innovators and 6 companies participated in Innovation fair and presented their projects. A workshop on Intellectual property Right was also organised. A lecture on 'Anybody Can Innovate' by Prof. P.V. Madhusudan Rao, IIT Delhi was delivered. In 'Creative Robo Design' contest 15 teams presented their





projects which were evaluated by a team of judges. In 'Make it at Science Centre event 31 participants made their painting, sculpture and also build innovative models from scrap. 11 teams participated in 'Innovative Challenge' contest to make highest tower using chart paper & ice-cream sticks. Family Science Quiz was conducted in which 15 families participated. An 'Idea contest' was also organised in which we 32 new ideas were given by the participants on making innovation to meet challenges in daily life. A workshop on Intellectual Property Rights was organised in collaboration with M/s S. S. Rana & Company. The programme ended with prize distribution ceremony on 9th February 2019 in which Dr. Mohit Gambhir, Director, Ministry of HRD, Govt. of India gave away the prizes to the winners.

Orientation programmes on 'Low Cost Teaching Aid' for in-service teachers from different Kendriya Vidyalayas in Agra; for in-service teachers from schools in Ballabgarh, Haryana & in-service teachers from Udaipur & Bikaner were organised in August 2018, October 2018 and January 2019 respectively. The teachers learned about the development of teaching aid in different areas of science to supplement their class room teaching. Participation certificates were awarded to the teachers after successful completion of the orientation programme.

The Centre organized Centre Level Quiz on Gandhi – Life & Works on 18th & 19th December 2018. Total 25 teams (each team of two students) from Delhi & NCR schools participated in the contest. The elimination round was organized on 18th December 2018 and best five teams were selected for final round of the quiz. The final round was organized on 19th December 2018 and winners were awarded prizes. Approximately 310 students and 25 teachers attended the programme.

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, several Non-Governmental Organizations were roped-in to mobilize and bring in these children who otherwise have no avenues for such kind of scientific exposure or have never visited NSCD to create inquisitiveness among them in science and technology. The Centre has facilitated the visit of large number of under privileged children from November 2018 to March 2019 and these children were also given a snack and a scientific kit as a token of gift which they can explore even after returning from the Science Centre.



The Centre organized a series of programmes for students/teachers and general public to inculcate the awareness about importance of cleanliness from 16th to 30th April 2018 and from 16th to 30th September 2018. The programme started with pledge taking ceremony every day. Skit performance on 'Swachhta and Our Society' was organized in which students from different schools participated. A written science quiz was organized for invited students groups on 'Health & Hygiene'. Interactive workshop on 'Hand-Washing' was organized in which students & teachers from different schools participated. The expert interacted with the audiences during the workshop and emphasized the importance of hand washing. Poster making contest on 'Swachhta Hi Sewa' was conducted for the school students. The students drew very attractive posters depicting the message effectively. Project display on 'Swachhta' was organized in which Eco Clubs of various schools participated. The projects showing the significance of cleanliness campaign were seen by large number of visitors. The prizes were awarded to the winners in these programmes and participation certificates were given to all. The film show on 'Swachhta' was organized for general public. The message for importance on cleanliness was delivered through the film and interaction with them. Science demonstration lecture on 'Clean Water' was conducted for general public. Cleanliness drive was taken up by the staff members of in their respective sections in NSCD. Guided visit to the gallery titled 'Water-The Elixir of Life' was conducted regularly to create awareness on cleanliness.

During a 'Swachchata Campaign', a 'Nukkad Natak' was organized for students and general public on 1st October 2018. A special cleanliness drive (Shram Daan) by NSCD staff members to clean entire campus, in & around canteen area & back side of auditorium, parking area & museum building was done on 2nd October 2018.

The Centre organised various educational programmes on the occasion of World Science Week from 10th to 14th November 2018. On the occasion, interactive workshop on 'Mathematics & Computational Thinking' was organized for teachers. A popular science lecture on 'Indian Traditional Medicines' by Prof. Dr. Sathya N. Dornala, Swami Vivekanand Ayurvedic Panchakarma Hospital, Delhi was delivered. It was followed by an interaction with audiences on Physical, Mental, Emotional, Social, Environmental and Spiritual wellness. Film making contest for students, lecture on 'Low Carbon Lifestyles' was organized during the period. The Centre celebrated 'Rashtriya Ekta Diwas' on the

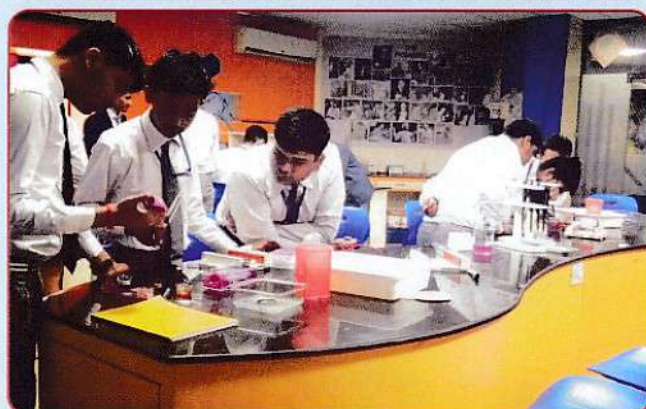
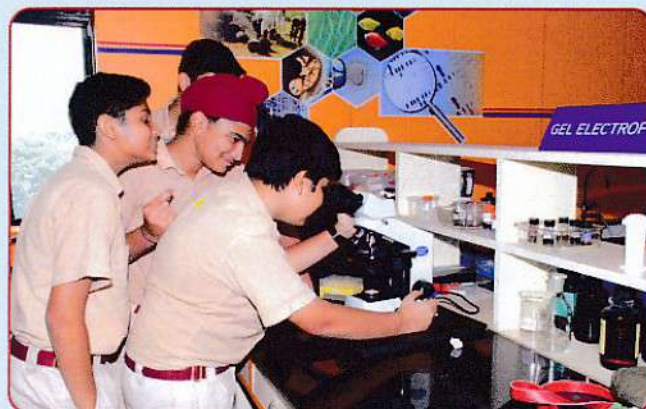


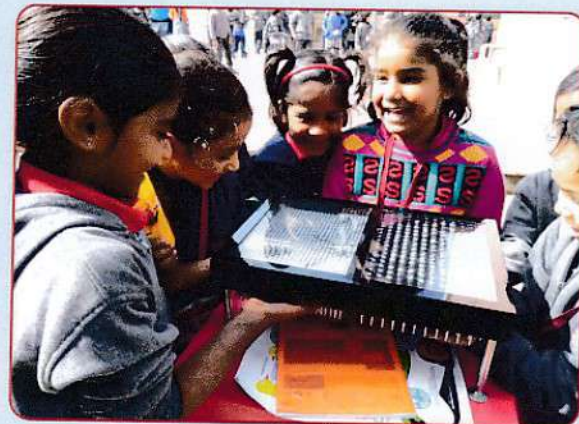
occasion of birth anniversary of Sardar Vallabhbhai Patel on 31st October 2018 with the help of staff members and school students. The programme aimed to commemorate the 143th birth anniversary of Sardar Vallabhbhai Patel who really unified the country. All the staff members of NSCD were participated in Unity pledge. A special guided visit to the digital exhibition on Sardar Patel was conducted for students & general visitors.

The Centre organized workshop for students in the area of Physics, Biotechnology and Robotics at Innovation Space throughout the year. The students from class 6th to 12th attended the workshop in Physics and developed low cost Flute, Electric Motor and Speaker. Most of the materials used for these projects were from waste. Similarly students in 'Biotech Lab' were given exposure to peep through cells, isolation of DNA and using gel electrophoresis technique. The students in Robotics workshop were trained to build a toy car powered by hand cranked generator. The session on use of castor bot for using as turning vehicle and working of a line follower robot was attended by these participants in Robotics stream.

The Centre organized educational activities on the occasion of International Yoga Day on 21st June 2018. Teaching faculty from Indira Gandhi Institute of Physical Education & Sports Sciences, University of Delhi was invited to perform live demonstration on yoga exercises in the early morning. The NSCD staff with some general public/students attended the demonstration and did yoga exercises. Poster making contest on 'Yoga for Healthy Life' and 'Identity the Yoga Posture' contest was organized for invited school student groups. A popular science lecture on 'Yoga-A Key to Good Health' was delivered by Dr. J. P. Sharma, Professor, Indira Gandhi Institute of Physical Education & Sports Sciences, University of Delhi. On this occasion, a film show

on 'Benefits of Yoga' was also organized for general public. The winner students in various contests were given prizes in the form of science kits during the valedictory function. About 250 visitors/students participated in the programme.





The Centre organized Science Festivals at Agra from 28th to 30th August 2018; at Almora, Uttarakhand from 27th to 29th November 2018; at Udaipur from 15th to 19th January 2019 and at Bikaner from 21st to 25th January 2019 in association with respective district education authorities. There was a participation of NSCD in Science Conclave 2019 at Guru Jambheshwar University of Science & Technology, Hisar, Haryana on 12th & 13th February 2019. Portable participatory exhibits on Fun Science were displayed by the Centre in this science festivals/science conclave. Regular shows on 'Science verses Miracle' along with night sky observation programme through telescope were

conducted for visitors during the period of exhibition. Teachers' training programmes were conducted for the in-service teachers during science festivals.

The Centre organized a series of programmes for staff members 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 14th to 28th September 2018 during Hindi Diwas Pakhwada. Most of the staff participated in these programmes.



REGIONAL SCIENCE CITY LUCKNOW

A workshop on 'HEALTH AND HAPPINESS THROUGH NATURE' was organized in May 2018. Another workshop on 'Hydroponics plants' was also organized. The workshop was attended by 30 homemakers. NXT Robotics workshop and contest was organized during Innovation Festival-2018. 15 teams from 8 schools participated. The competition was conducted with LEGO Robot Kit. ARDUINO & Raspberry Pi Workshop was also conducted during Innovation Festival-2018. 50 students participated from 10 different schools. The basics of ARDUINO and Raspberry Pi motherboard, application in ongoing technologies were communicated to participants.

To mark 'International Yoga Day' Regional Science City, Lucknow organized a special Yoga camp for staff members & general invited visitors on 21st June 2018. Puppet Show on Water Conversation was organized on 17th & 22nd July 2018 for the benefit of students and general public in which about 250 students and general public witnessed the show and benefitted by this Puppet show. A Nukkad Natak was performed by professional artists at various/prominent place of city for awareness of ground water conservation in general masses from 17th & 22nd July 2018.

The Total Lunar Eclipse of century was observed on 27th July 2018 at Regional Science City, Aliganj, Lucknow by

hundreds of enthusiasts. 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, 2018. On this occasion, the oath-taking program was organized for making corruption-free India. A special cleaning drive programme was organized at RSC Lucknow on 14th November 2018 in which about 100 school students participated.

World Diabetic Day: A health/diabetes checkup camp was organized on 14th November 2018 in for general visitors of RSCL.

World Environment Day: Poster making contest, special plastic cleaning drive programme at bank of Gomti River, Environmental March Past, Nukkad Natak and written science quiz was organized in association with Directorate of Environment UP from 4th to 5th June 2018.

National Technology Day: Poster making contest, written Science Quiz contest and a popular science lecture on was organized on 11th May 2018. More than 400 students and teachers took part in the programme.

Biodiversity Festival: Poster making competition, elocution contest, quizzes, Rangoli contest and a lecture programme were organized on 20th May 2018 in association with Zoology Department, Lucknow University and Uttar Pradesh State Biodiversity Board, UP.



Ground Water Week: Poster making contest, slogan contest, collage making contest, 'Bhuja-pe-Charcha' programme, lectures, Nukkad Natak, Puppet shows and Science film shows on water related issues were organized.

International Science Centre & Science Museum Day: Written quiz contest, Debate contest, Poster making contest & Poem recitation contest was organized on 9th & 10th November 2018. About 250 students participated in the programme.

National Science Day: Poster making contest, sketch making contest, & popular lecture, was organized on 28th February 2018.

RSCL organized Centre Level Quiz on Gandhi – Life & Works for school students 24th and 26th November 2018. 15 teams of different schools participated.

Creative Ability Centre: RSCL organized 02 nos. of CAC for school students during the academic year 2018-2019 in which total 29 school students participated and 11 projects were completed.

Summer Vacation Hobby Camp; The vacation Hobby camps were organized from 21st May to 9th June 2018. In all 485 students took part in 21 hobby camp during the period.

Innovation Workshops: RSCL and Innovation Centre of the Council of Science & Technology, Uttar Pradesh jointly organized four workshops on 'Tod, Fod, Jod' on in which about 350 students participated.

Innovation Festival: RSCL organized 3-days event 'Innovation Festival' during 19-21 November 2018. The aim of the programme was to promote culture of Innovation and creative thinking. The festival was inaugurated by Prof. H. K. Paliwal, Director, Institute of Engineering Technology in presence of several professors of universities, teachers & scientists.

City Level Science Fair: City Level Science Fair was organized at RSCL from 20th to 22nd December 2018. In this Science Fair, around 33 schools of Lucknow participated in which 49 nos. of team projects and 44 nos. individual projects were displayed by the participating school students.





KURUKSHETRA PANORAMA & SCIENCE CENTRE KURUKSHETRA

A Space Science Exploration Program was conducted on 17th November, 2018 at Kurukshetra Panorama and Science Center, Kurukshetra in collaboration with Tech mantra labs, Kurukshetra and International Space Education Institute, Germany. Various activities like Sit and Draw Contest, Open House Quiz Contest, Innovative poster with Article Contest were conducted. International Guest & Key Note Speaker of the day was Mr. Ralf Heckel (Director, ISEI Germany) National Speaker was Mr. Navdeep Singh (Director, Tec Mantra Labs, India), Shri Subhash Sudha, MLA Kurukshetra was also invited as chief guest of the event. This Programme was designed to motivate, encourage and develop interest of school students toward Space Science Education.

Kurukshetra Panorama & Science Centre organised a Popular Science Lecture & a Quiz contest on Ayurveda on 12th February, 2019. On this occasion an Open House Quiz contest was organised on topic 'Ayurveda & Its Origin' for students of class 6th to 10th class. A Popular Science Lecture on the topic "Connecting Ancient Concepts with Modern for Seeing the Human Body" was delivered by Dr. Bhaswati Bhattacharya, MPH, MD, PhD, Clinical Asst Professor of Medicine, Weill Cornell Medical College, New York. More than 200 students and teachers participated in this programme.

KPSC participated in International Geeta Jayanti Mahotsava, a local fair organized by Kurukshetra Administration from 14th to 18th December 2018. 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 7th to 23rd December 2018 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 Quiz on Gandhi- Life & Works was conducted at KPSC on 30th November 2018 in which 44 school teams participated.

District Level Science Fair: District Level Science Fair was organised on 17th & 18th January 2019 in which about 200 students and teachers and 62 projects were displayed.

District Level Science Drama: District Level Science Drama was organized on 6th December 2018

in which 8 teams from the schools of Kurukshetra, Karnal and Kaithal presented the performance.

Sky Observation Programme: The Centre organized 49 programmes in which 510 students & general visitors participated.

Teachers' Training Programme: 51 teachers attended and developed 78 teaching aids during the training programme.

Community Programmes: Public Demonstration Lectures (Science & Miracles), Ozone Awareness Programme, International Women's Day & Van Mahotsav.



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 Coordinator	Shri K. Srinivasa Nehru Project Coordinator
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	23371946	2321804, 2327833	251100
EPABX	23371297, 23371893 23371945	2321804	270810
Telefax	23371263		
E-mail	nscdl01@gmail.com	rsclu89@rediffmail.com pcrscl@gmail.com	kpsckkr@gmail.com
Website	nscd.gov.in	rscl.nscd.gov.in	kpsc.nscd.gov.in
Hours of opening	09:30 am to 6:00pm	9.30 am to 6.00 pm	9.30 am to 6.00 pm
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 Rs. 25/-per head Rs. 5/- per head	Rs. 35/-per head Rs. 30/-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. 10/- per head	i) Rs. 15/- per head ii) Rs. 5/- per head	i) Rs. 10/- per head ii) Rs. 5/- per head
3D Film Show/ Science on Sphere i) General Public ii) General Public (in Groups)	i) Rs. 25/- per head ii) Rs. 20/- per head	i) Rs. 20/- per head ii) Rs. 15/- per head	Rs. 20/- per head

3 -D Film Show/ Science on Sphere				
I) Student Group (Pvt. Schools)		I) Rs. 20/- per head	Rs. 15/- per head	Rs.10/-per head
ii) Student Group (Govt. Schools)		ii) Rs. 10/-per head	Rs. 10/- per head	Rs. 5/-per head
SDL/Taramandal				
I) General		I) Rs. 10/- per head	Rs. 10/- per head	Rs.10/-
ii) Student Group (Pvt. Schools)		ii) Rs. 10/- per head	Rs. 10/- per head	Rs.10/-
iii) Student Group (Govt. Schools)		iii) Rs. 5/- per head	Rs. 10/- per head	Rs.10/-
Space Theatre General Visitor Student group		--	Rs. 50/- per head Rs. 30/- per head	--
Inaugurated on		9 th January, 1992	7 th September, 1989 Upgraded to Regional Science City on 21 st Sept. 2007	6 th March, 2001
Total floor Area in Sq. M.		18,773	8186	4,000
	Scientific	06	02	01
Staff	Technical	58	15	08
strength	Admn.	30	07	06
	Total	94	24	15



FY	EXPENDITURE			
2018-19	UNIT	GIA GEN	GIA SALARY	GIA CCA
	NSCD	1521.16	1072.90	185.60
	RSCL	481.21	210.85	55.17
	KPSC	196.52	87.16	20.23
	Total	2198.89	1370.91	261.00

FY	FUND	
2018-19	GIA-GEN	200.83
	GIA-SALARY	233.39
	GIA CCA	1318.69

(Figures in Rs. in Lakhs)

RECEIPT				
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	5 64.76
2017 -18	328.12	141.33	175.41	644.86
2018 -19	314.42	156.40	193.66	664.48

VISITORS

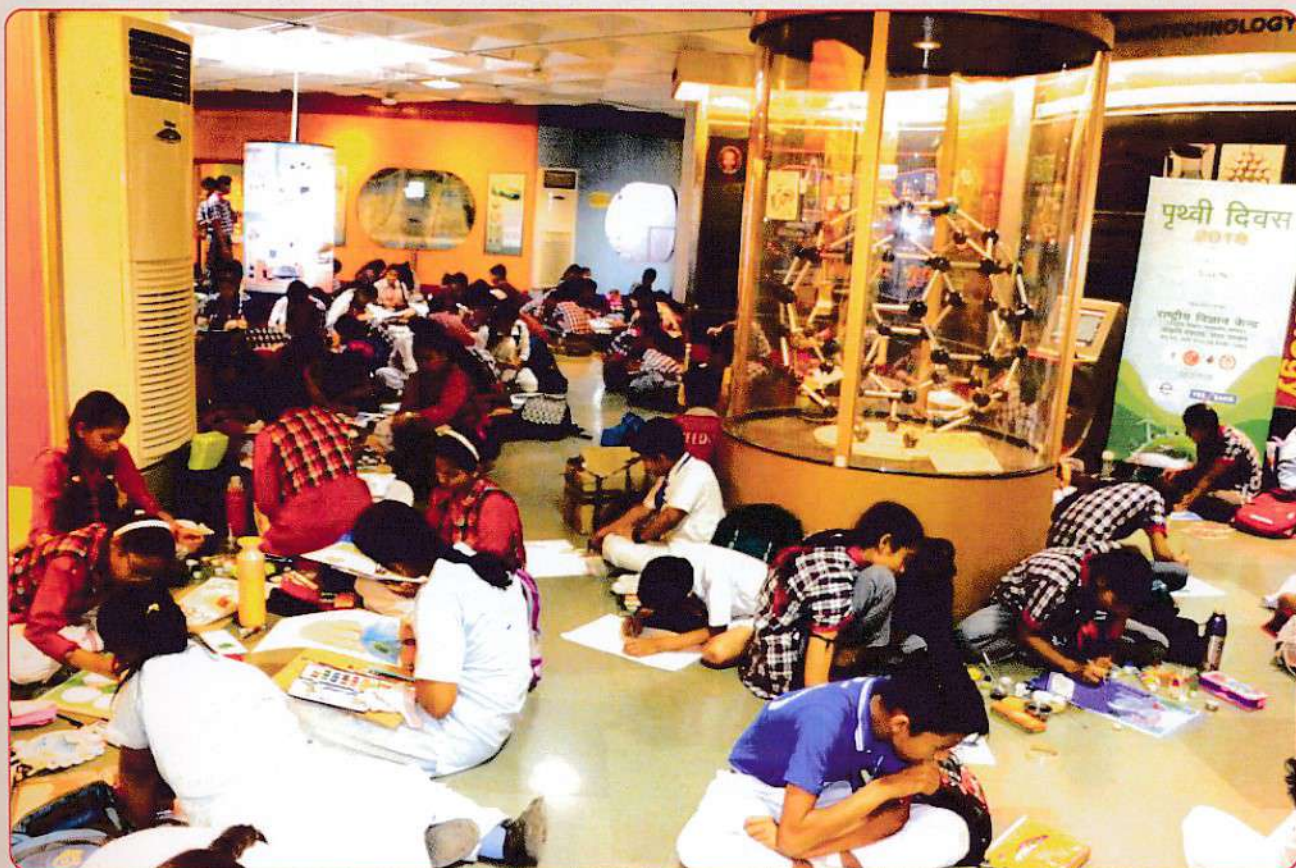
S. No	Visitors	NSCD	RSCL	KPSC
1.	Number of school groups	2422	1340	1778
2.	No. of students in groups	210069	99375	122712
3.	No. of general visitors	351842	272342	553851
4.	No. of outreach visitors	183415	321389	644411
5.	Total no. of visitors	745326	693106	1320974

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



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 Technology Heritage	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
	Bio technology 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	.	14 th November 2018	---	---
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	08.06.2001	14.11.2016	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	04.0 1.2016	---	---
	Sports & Fitness	373			
Kurukshetra Panorama Science Centre, Kurukshetra	Ground Floor a. Our Heritage	1520.25	06.03.2001	31.03.2013	49
	Ground Floor b. Fun Science		06.03.2001	---	87
	First Floor a. Panorama	1371.15	06.03.2001	30.04.2018	11
	Science Park	12500	06.03.2001	31.03.2017	41



3. NEW GALLERIES / MAJOR RENOVATION

NSC, Delhi

- a) Development of gallery exhibits and science park exhibits for SRSC, Palampur
- b) Development of Virtual Museum at Varanasi
- c) Development of Holographic Projection Show
- d) Development of New Fun Science exhibits
- e) Development of new Innovation Kits/ Teaching Aids
- f) Development of SRSC, Almora, Uttarakhand has started

RSC, Lucknow

- a) Development of exhibits for Kota and Jhalawar Science Park
- b) Development of Exhibits for RSC, Lucknow
- c) Renovation of Gallery and Science Park exhibits
- d) Development of new Innovation Kits/ Teaching Aids
- e) New Scimax shows named 'Aircraft Carrier' was launched

KPSC, Kurukshetra

- a) New exhibit development for Science Park and Fun Science Gallery
- b) Exhibits were developed on the theme of light for Mobile Science Exhibition
- c) Development of Science Demonstration Lecture on "Maths is Fun"
- d) Development of exhibits for Jhalawar Science Park
- e) Renovation of Mahabharata Panorama and Dinosaur Enclave
- f) Development of Topology kit



Title of the Unit	Name of the Centre	Number of Exhibits	Year in which unit was developed	Year of major renovation
Non-Conventional Energy Sources	NSC, Delhi	20	2008-09	—
Understading Mathematics	RSC, Lucknow	24	2015-16	—
Understading Mathematics	KPSC, KKR	24	2014-15	---



5. NEW TEMPORARY EXHIBITION (IN HOUSE DEVELOPMENT)

Name of the Centre	Name of the Exhibition/project	No. of Exhibits	Date of Inauguration
NSCD	----	----	----
RSCL	---		
KPSC	---	---	---

6. EXHIBIT DEVELOPMENT

	NSCD	RSCL	KPSC
Gallery exhibits	89	29	05
Duplicate exhibits	20	--	--
Park exhibits	1	08	09
MSE exhibits	--	--	20
Taramandal	--	--	--
Kits/aids	10	13	22
Duplicate kits/aids	--	--	--
	--	--	--
Total	120	50	56

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



Sl. No.	Name of the Scheme
1.	Setting up of Azad Gallery at Allhabad Museum, Pryagraj, U.P.
2.	Setting up of Election Museum at Dwarka, Delhi
3.	Development work of Sub-Regional Science Centre at Palampur Himachal Pradesh
4.	New exhibits development in Digital Information Gallery
5.	Development work of Sub-Regional Science Centre at Almora, Uttarakhand

RSC, Lucknow

Sl. No.	Name of the Scheme
1.	Renovation of Being Human Gallery
2.	Renovation of Toilet of old Building

KPSC, Kurukshetra

Sl. No.	Name of the Scheme
1.	Extension of parking
2.	RCC Concrete Road from main entry gate to KPSC building
3.	Refurbishing of Diorama in the Mahabharata Panorama
4.	Flooring in library and conference area
5.	Land development around sphere fountain
6.	Development of sitting area in garden (adjacent to toilet block)
7.	Upgradation of electrical panel & Automatic Power Factor Correction
8.	Extension of parking



8. MOBILE SCIENCE EXHIBITION PROGRAMMES

	NSCD	RSCL	KPSC
No. of exhibition sites	23	55	59
No. of exhibition days	74	117	133
No. of film shows	37	178	--
No. of visitors to exhibition	61262	215306	131500
No. of visitors in film shows	3743	91469	--
Distance traveled (in Kms)	924	2645	1863



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 postulate 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
NSC, Delhi	1. Liquid Nitrogen 2. Unexpected Science 3. Sound 4. How Animals Walk 5. Fun with Physics 6. Air Pressure 7. Heat	950	35,450	103	8240
RSC, Lucknow	1. Sound 2. Science verses Miracles 3. Gravity 4. Exciting Chemistry 5. Super Cooled Show 6. Air Pressure 7. Our Unique Body 8. Properties of Water 9. How we walk	569	15220	---	---
KPSC, Kurukshetra	1. Science & Miracles 2. Sound 3. Surprising Chemistry 4. Liquid Nitrogen 5. Heat 6. Air Pressure 7. Our Human Body	563	8959	100	132500

Name of the Centre	Name of the Programme	Date of the programme	No. of Participants
NSC, Delhi	Lecture on Conservation of Energy Resorces	05.06.2018	300
	Lecture on 'Connecting Ancient Concepts with Modern for Seeing the Human Body	13.02.2019	330
	Earth Day Programme(Student Seminar, Painting Contest and Lecture)	22.04.18 to 22.05.18	300
	International Yoga Day	21.06.2018	250
	Lecture on World Ozone Day	16.09.18	320
	Swachch Bharat Abhiyan Pakhvada	16.04.18 to 30.04.18 & 16.09.2018 to 30.09.2018	4000
RSC, Lucknow	Workshop on Hydroponic Plants	18.07.2018	30
	Biodiversity Festival	20.05.18	1000
	World Environment Day	04 .06. 18 & 05.06.18	850
	Ground Water Week	09.11.18 &10.11.18	1000
	Wild Life Week	01.10.2018 & 02.10.2018	500
	Swachch Bharat Abhiyan Pakhvada	16.04.18 to 30.04.18 & 16.09.2018 to 30.09.2018	3500
KPSC, Kurukshetra	Earth Day Celebration		500
	World Environment Day	05.06.2018	100
	International Yoga Day	21.06.2018	100
	Wild Life Week	15.09.2018	300
	World Ozone Day	16.09.2018	200
	Lecture on 'Connecting Ancient Concepts with Modern for Seeing the Human Body	12.02.19	200
	Van Mahotsav	18.07.2018	300
	Swachch Bharat Abhiyan Pakhvada	16.04.18 to 30.04.18 & 16.09.2018 to 30.09.2018	600
	Paani Ki Kahani Painting	07.02.2019	200

c) Science Film Shows

Name of the Centre	Date/Duration	Title/Theme	No. of Shows	No. of Total Visitors
NSC, Delhi	---	---	--	--
RSC, Lucknow	22.04.2018	Global Warming	02	180
	18.05.2018	Taron ki Sair	03	216
	05.06.2018	Global Warming	02	350
	16.07.2018	Paani re Paani	01	151
	16.08.2018 to 31.08.2018	Walking with Dinosaur & Taron ki Sair	10	1228
	31.10.2018	United Bharat	03	230
KPSC, KKR	16.07.2018 to 21.07.2018	Delhi Safari, Dolly Obesity Does the Higgs Boson exist	05	1000

d) Popular Science Lectures

Name of the Centre	No. of Lectures	No. of Audience
NSC, Delhi	30	8550
RSC, Lucknow	28	12540
KPSC, Kurukshetra	15	3050

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	709	17725
RSC, Lucknow	1035	17579
KPSC, Kurukshetra	684	21326

f) Sky Observation

Name of the Centre	No. of Programmes held	No. of Participants
NSC, Delhi	33	2751
RSC, Lucknow	45	1557
KPSC, Kurukshetra	49	510

g) Science Quizzes

Name of the Centre	No. of Quizzes held	No. of Participants	No. of Audience
NSC, Delhi	27	1209	4837
RSC, Lucknow	56	3159	4456
KPSC, Kurukshetra	15	1875	2500



Sl.No.	Name of the Exhibit	Format	Duration
NSC, Delhi	RSCL- Science of Sports Drug inSports Sports & Technology Nutrition & Diet Memory Test	Stand alone Multimedia	
	VEM Varanasi		
	Welcome to Man Mandir	MP4 Video	3.30 Min.
	Vihangam Varanasi	WAV Sound	04.00 Min
	Kashi Parichay	MP4 Video	14.02 Min
	Ek nazar mein Banaras	3D Parojection Mapping Show	12.00Min
	Kashi ki Galiyan Paan	WAV Sound	00.30 Min
	Kashi ki Galiyan	WAV Sound	4.55Min.
	Sahitya evam Patrakarita	MP4 Video	09.48 Min.
	Sahitya evam Patrakarita	Surface Mapped interactive software	User Interactive
	Vastra	MP4 Video	06.06Min.
	Sangeet	MP4 Video	08.51 min.
	Shilp	MP4 Video	11.14 Min.
	Shilp	Touch Screen Interactive	User Interactive
	Ganga Avataran	Projection Mapping Show	14.00 Min.
	Dharam	MP4 Video	07.22 Min.
	Ayurveda	MP4 Video	04.35 Min.
	Moksha	MP4 Video	05.49 Min.
	Ramlila	MP4 Video	04.47 Min.
RSC, Lucknow	Sports Technology	Sport & Fitness	Interactive
	Nutrition & Diet	Sport & Fitness	Interactive
	Drug in Sports	Sport & Fitness	Interactive
	Aqua Mobile	Sport & Fitness	Interactive
KPSC, Kurukshetra	Augmented Reality		Interactive

11. CREATIVE ABILITY

a) Vacation Hobby Camps

Name Of The Centre	Number of Camps held	Number of Projects Completed	Number of Participants
NSC, Delhi	24	2200	765
RSC, Lucknow	21	1272	247
KPSC, Kurukshetra	8	332	66



Name of the Centre	Date & Duration	Name of the Science Fair	No. of Schools Participated	No. of Students/ participants	No. of Projects
NSC, Delhi	01.02.2019 & 02.02.2019	City Level Science Fair	27	66	41
	04.02.2019 & 05.02.2019	Northern India Science Fair	45	60	45
	07.02.2019 to 09.02.2019	Innovation Festival	---		
RSC, Lucknow	20.12.2018 to 22.12.2018	City Level Science Fair	22	155	93
	19.11.2018 to 21.11.2018	Innovation Festival	17	135	43
KPSC, Kurukshetra	17.01.2019 & 18.01.2019	City Level Science Fair	33	106	62



Name & Venue of programme	Date/Duration	Streams/Subjects	No. of Participants	No. of projects
NSC, Delhi	21 .05.2018 to 25 .05.2018 28 .05.2018 to 01 .06 .2018 04 .06.2018 to 08 .06.2018	1. Scientific Toy Making (Junior) 2. Scientific Toy Making (Senior) 3. Exploring Nature 4. Astrolab (Telescope Making) 5. Wonders of Electronics 6. Basics of Biotechnology 7. Robotics	765	2200
Regional Science City, Lucknow	21 .05.2018 to 26 .05.2018 28 .05.2018 to 02 .06 .2018 04 .06.2018 to 09 .06.2018	1. Creative Kids Art 2. Aeromodelling 3. Astrolab 4. Aeromodelling 5. Science Sparkle 6. Exploring Nature 7. Scientific Toy Making 8. Robotics 9. Fun with Electronics 10. Wonder of Chemistry 11. Know the Herbs	247	1272
KPSC, Kurukshetra	04.05.2018 to 15.06 2018	1. Creative Art 2. Scientific Toy making 3. Wonders of Electronics 4. Exploring Nature	66	332



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.

Venue of the Programme	No. of The Programme	No. of Teachers Trained	No. of Teaching Aids/Kits Developed
NSC, Delhi	10	1127	341
RSC, Lucknow	03	154	150
KPSC, Kurukshetra	04	51	78

b) Conferences/Workshops/Olympiads

NSC, Delhi

The Centre participated in the Science Symposium organized by Directorate of Education, Govt. of Delhi at Government Sr. Sec. School, Ambedkar Nagar, New Delhi on 27th July 2018. Regular shows on 'Science verses Miracle' were conducted for students during the programme.

The Centre participated in Annual Meet of VIPNET Clubs of SDMC programme on 27th March 2019 at Indira Parayabhavan Bhavan, Jor Bagh, New Delhi. On this occasion, a large number of innovative experiments including demo on 'Science Verses Miracles' were shown to the science teachers in an interactive way. The audiences that included science teachers and teaching faculty from educational institutes interacted during this session on development of innovative low cost teaching aids. About 150 science teachers attended the programme.

The Centre collaborated with Expressions India to organize National Psycholympiad 2018 on 23rd August 2018 for school students of various schools of Delhi & NCR. Poster exhibition, thematic painting contest, national level quiz on Psychology, extempore speech and Nukkad Natak was conducted on this occasion. The invited resource persons in related field interacted with school students and discussed their adolescent problems and issues. The prizes and certificates were awarded to the winners during the valedictory function. About 300 school children and teachers participated in the programme.

Regular interactive workshops in Astronomy, Biotechnology and Air and Water were conducted for school students as special curriculum based educational package. Contents of the Astronomy workshop were geology & the surface features of the Moon (Crater, Maria etc.) and provide answer phases of the Moon? The Biotechnology based workshops focused on observing the Paramecium in lab, developing Lacto-bacillus culture from curd, preparing animal cell slides, learning about parts of the flower and a demonstration on water.



The Centre organized workshop for students in the area of Physics, Biotechnology and Robotics at Innovation Space throughout the year. The students from class 6th to 12th attended the workshop in Physics and developed low cost Flute, Electric Motor and Speaker. Most of the materials used for these projects were from waste. Similarly students in 'Biotech Lab' were given exposure to peep through cells, isolating the DNA using gel electrophoresis techniques.

The Centre organised orientation programme on 'Low Cost Teaching Aid' on 11th April 2018. The pre-service teachers from Amity Institute of Education, NOIDA attended the orientation programme. Another orientation programme was organized on 20th September 2018 for pre-service teachers from SCE Noida. The teachers learned about the development of teaching aid in different areas of science to supplement their class room teaching. They were given exposure about the other facilities of the Centre such as 'Science on Sphere', Science Demonstaration Lecture' and guided gallery visit. In addition, an interactive workshop on 'Hand-Washing' was organized in which students & teachers from different schools participated. The expert interacted with the audiences during the workshop and emphasized the importance of hand washing. The programmes were organized between 16th & 30th April 2018 & 16th & 30th September 2018.

A workshop on 'Jewellery Design and Casting' was organized on 18th August 2018 in which 15 members of Innovation Space participated. The invited resource person demonstrated different techniques of the casting metals like silver and gold, making of alloys and combining process with gemstones. History of jewellery and different style starting with Mohenjo-daro period were discussed.

Interactive workshops on Astrophysics, Climate Changes, HAM radio were conducted at the Centre in August-September 2018 in which the students & teachers participated from different schools of Delhi & NCR.

The Centre organised an interactive workshop cum seminar on Hindi on 26th & 29th November 2018. The invited chief guest addressed on the occasion and said that Hindi language has a deep influence over an individual and can bring about changes in people. He said that there is need for a positive initiative for Hindi. Hindi should not be looked down upon. About 60 employees of different ministry participated in the workshop.



Regional Science City, Lucknow and Innovation Centre of the Council of Science & Technology, Uttar Pradesh jointly organized four workshops on 'Tod, Fod, Jod' in which about 350 students participated.

A workshop on 'HEALTH AND HAPPINESS THROUGH NATURE' was organized in May 2018. Another workshop on 'Hydroponics plants' was also organized. The workshop was attended by 30 homemakers. NXT Robotics workshop and contest was organized during Innovation Festival-2018. 15 teams from 8 schools participated. The competition was conducted with LEGO Robot Kit. ARDUINO & Raspberry Pi Workshop was also conducted during Innovation Festival-2018. 50 students participated from 10 different schools. The basics of ARDUINO and Raspberry Pi motherboard application in ongoing technologies were communicated to participants.



The Centre has organised four-day Teachers Training Programme for Pre / in - service teachers from 1st to 3rd January, 2019 & 15th February 2019. Teachers from GDR College of Education, Chandauli from Panipat participated in this Teachers Training Programme. Teachers were given Science Demonstrations on Interesting Physics, Sound, Liquid Nitrogen, Fantastic Chemistry and Biology. An interactive session on How to develop curriculum based educational kits was conducted for the teachers. Later on they learnt to make good Teaching Aids and Models viz. Simple Camera, Periscope, Value of Pie, etc. In total 51 teachers participated in this programme and learned about better teaching skills in various branches of science with the objective of how the conventional classroom teaching could be made interactive & interesting by using these non-formal modes such as teaching aids & models. They developed 78 teaching aids.

The Centre organised Hindi Pakhwara from 14th to 28th September 2018. During the period various contests like हिन्दी आशुभाषण प्रतियोगिता (Hindi Asubhasan Contest) हिन्दी टिप्पणी लेखन प्रतियोगिता (Hindi Tippiani Lekhan Contest), वं 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.

Yoga Practices and training were arranged for the staff members of the Centre on 21st June 2017 on the occasion of International Day of Yoga in the afternoon from 12.30 pm to 2.30 pm. Yoga trainer Mrs Ritu Dhingra taught about different *Asanas* and *Pranayams*. All the staff members participated enthusiastically.

The Centre organized Workshop & Contest on Hindi on 6th March, 2019. On this occasion PC, KPSC advised all staff members to do more & more official work in Hindi. All staff members of KPSC and other govt. organizations of kurukshetra participated in this Hindi Workshop & written contest. 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.



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 from November 2018 to March 2019. Under this program, several Non-Governmental Organizations were roped-in to mobilize and bring in these children who otherwise have no avenues for such kind of scientific exposure or have never visited NSCD to create inquisitiveness among them in science and technology. These children were also given a snack and a scientific kit as a token of gift which they can explore even after returning from the science Centre.

The Centre participated in INSPIRE programme on 24th November 2018 and 17th - 18th January 2019 at Amity University, Noida, Uttar Pradesh. INSPIRE programme provides a platform to the young minds to innovate new ideas, to enhance environment sustainability and to interact with the renowned scientists. On this occasion, a large number of innovative experiments including demo of liquid nitrogen experiments were shown to the students in an interactive way. The audiences that included students and teaching faculty interacted during this session on development of innovative projects.

National Psycholimpiad 2018 was organized on 23rd August 2018 for school students of various schools of Delhi & NCR. Poster exhibition, thematic painting contest, national level quiz on Psychology, extempore speech and Nukkad Natak was conducted on this occasion. The programme was organized with active collaboration with 'Expression India', a reputed NGO working for school children in dealing with their adolescent problems and issues. The invited resource persons in related fields interacted with school students and discussed their adolescent problems and issues. The prizes and certificates were awarded to the winners during the valedictory function. About 300 school children and teachers participated in the programme.

The Centre organized Live Watching Lunar Eclipse Programme on total lunar eclipse on the night of 27th-28th July 2018. On the day of the eclipse, the Full Moon was also at its farthest from the Earth, so it looked a little smaller in the sky, making this a Blood Micro Moon eclipse. Totality lasted for 103 minutes, making it the longest eclipse of the 21st century. Publicity was done through banners/posters & email to invite people in the evening of 27th-28th July for watching this natural phenomena. In addition to general public, large number of students & teachers gathered in the Centre's complex on the occasion. Arrangement to watch the lunar eclipse was done through high resolution telescope. During the event the visitor learnt scientific causes of eclipse, its significance in interacting manner. About fifty enthusiastic visitors participated in the programme.

The Centre organized Mobile Science Exhibition on 'Non-Conventional Energy Sources' in district Agra, Mathura, Meerut & Murad Nagar in 2018-19. The exhibition was on display at 23 different sites and large number of students/teachers benefitted from it. Regular demonstrations on hands-on activities on basic sciences



were conducted for the students in particular and public in large. A campaign for cleanliness drive was also undertaken in these remote schools and accordingly related activities were conducted there to inculcate awareness about cleanliness. Science film shows were conducted at each site of exhibition. The exhibition was on display at 23 different sites and large number of students/teachers benefitted from it. It travelled a distance of 924 km to reach about 65005 people including student & teachers.



A series of programmes were organized for students/teachers and general public on the occasion of 'Swachhta Pakhwada' from 16th to 30th April 2018 & 16th to 30th September 2018 to inculcate the awareness about importance of cleanliness. The programme started with pledge taking ceremony every day. Skit performance on 'Swachhta and Our Society' was organized in which students from different schools participated. A written science quiz was organized for invited student groups on 'Health & Hygiene'. Interactive workshop on 'Hand-Washing' was organized in which students & teachers from different schools participated. The expert interacted with the audiences during the workshop and emphasized the importance of hand washing. Poster making contest on 'Swachhta Hi Sewa' was conducted amongst the school students.. The film show on 'Swachhta' was organized for general public.

The Centre organized educational activities on the occasion of International Yoga Day on 21st June 2018. Teaching faculty from Indira Gandhi Institute of Physical Education & Sports Sciences, University of Delhi was invited to perform live demonstration on yoga exercises in the early morning. The NSCD staff with some general public/students attended the demonstration and did yoga exercises. Poster making contest on 'Yoga for Healthy Life' and 'Identity the Yoga Posture' contest was organized for invited school student groups. A popular science lecture on 'Yoga-A Key to Good Health' was delivered by Dr. J. P. Sharma, Professor, Indira Gandhi Institute of Physical Education & Sports Sciences, University of Delhi. On this occasion, a film show on 'Benefits of Yoga' was also organized for general public. The winner students in various contests were given prizes in the form of science kits during the valedictory function. About 250 visitors/students participated in the programme.



To mark 'International Yoga Day Regional Science City, Lucknow organized a special Yoga camp for staff members & general invited visitors on 21st June 2018. Puppet Show on Water Conversation was organized on 17th & 22nd July 2018 for the benefit of students and general public in which about 250 students and general public witnessed the show and benefitted by this Puppet show.

A Nukkad natak was performed by professional artists at various/prominent places of city for awareness of ground water conservation in general masses from 17th & 22nd July 2018. The Total Lunar Eclipse of century was observed on 27th July 2018 at Regional Science City, Aliganj, Lucknow by hundreds of enthusiasts. 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, 2018. On this occasion, the oath-taking program was organized for making corruption-free India. A special cleaning drive programme was organized at RSC Lucknow on 14th November 2018 in which about 100 school students participated.



Yoga Practices and training were arranged for the staff members of the Centre on 21st June 2018 on the occasion of International Day of Yoga in the morning from 7.00am to 8.00 am. Yoga trainer taught about different *Asanas* and *Pranayams*. The Centre had organised a special Programme for Children of *Udyan Ghar* (Orphans), Kurukshetra on 23rd June, 2018. Special Science Demonstration Lectures was organised on topics Amazing Physics and Fantastic Chemistry for them. A Free Dental Check-up was arranged for all participating students, Teachers & Officials at Kurukshetra Panorama & Science Centre, Kurukshetra on 18th September 2018.

The Centre organised *Swachh Bharat Pakhwara* (Cleanliness Drive Fortnight) from 16th to 30th September, 2018 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. Raman Aneja, Dental Surgeon, Devine Dental Clinic, Implant & Orthodontic Centre, Kurukshetra also with Dr. Ritu, Dental Surgeon, Devine Dental Clinic, Implant & Orthodontic Centre, Kurukshetra.

Cleanliness March was taken up in the surrounding way to Kurukshetra Panorama & Science Centre, Kurukshetra in which students from different Schools participated. Cleanliness drive was taken up in the entire way of cleanliness march by Kurukshetra Panorama & Science Centre, Kurukshetra. Free Dental Check-up was arranged for all participating students, Teachers & Officials at Kurukshetra Panorama & Science Centre, Kurukshetra by Dr. Raman Aneja, Dental Surgeon, Devine Dental Clinic, Implant & Orthodontic Centre, Kurukshetra. Free Health Check-up was arranged for all participating students, Teachers & Officials at Kurukshetra Panorama & Science Centre, Kurukshetra by Medical Officer, *University Health Centre*, Kurukshetra University, Kurukshetra. Sit & Draw Contest, Popular Science Lecture and Open House Quiz on the topic "Health & Hygiene" was held at Kurukshetra Panorama & Science Centre, Kurukshetra. A Pulse Polio immunization Camps were organized at the Centre in collaboration with Lok Nayak Jai Parkash Hospital, Kurukshetra on 5th August 2018 & 10th March 2019 from 10:00am to 5:00pm. Polio drops was given to about 265 infants during these Camp.



Name of the Centre	Venue of program	Description of Media	No. of teams participated	No. of plays performed	No. of Audience
NSC, Delhi	NSCD	National Science Drama Festival from 10.01.19 to 12.01.19	10	10	1500
		Northern India Science Drama Contest on 13.12.18	10	10	500
		Nukkad Natak on 1.10.19	06	06	200
RSC, Lucknow	RSCL	Nukkad Natak 17.07.18 to 22 .07.18	08	08	2400
		Puppet show 17.07.18 & 22.07.18		02	850
		Science Drama 30.11.2019	07	07	280
KPSC, Kurukshetra	KPSC	District Level Science Drama Contest on 06.12.18	08	08	200



Name of the Centre	Name of the Events	No. of Programmes	No. of Participants
NSC, Delhi	National Technology Day	3	621
	World Environment Day	2	370
	International Yoga Day	4	220
	National Unity Day	1	100
	World Science Day	4	650
	International Women Day	2	50
	National Science Day	4	400
	Earth Day	3	300
	National Mathematics Day	2	350
RSC, Lucknow	Swachhta Pakhwara	5	200
	International Day for Biological Diversity	4	350
	International Museum Day	4	350
	World Environment Day	7	850
	International Yoga Day	3	32
	Ground Water week	25	9800
	World Diabetic Day	1	165
	International Science Centre & Museum Day	3	150
	National Science Day	06	550
	Wild Life Week	03	175
	National Technology Day	03	400
	150 th Birth Anniversary of Mahatma Gandhi	06	500
	National Unity Day	04	225
	Children Day	02	350
	International Day of person of disability	1	100
KPSC, Kurukshetra	Earth Day Celebration	3	500
	Heritage Day	3	400
	National Technology Day	3	300
	International Museum Day	1	250
	International Day of Yoga	5	50
	69 th Van Mahotsava Celebration	3	300
	International Science Centre and Science Museum Day	4	300
	National Science Day	4	300
	Centre' s Anniversary Day	2	100

16. TEMPORARY EXHIBITIONS

Name of the Centre	Title of The Exhibits	Date/Duration	Visuals/ Panels	No. of working Animated Exhibits
NSC, Delhi	Gandhi- Science, Technology & Innovation	28.02.2019	15	
RSC, Lucknow	Uniting India: Sardar Patel	01.10.2018	4	45
	The Future of the Food: Pulses	27.11.2018	31	8
	Gandhi- Science, Technology & Innovation	28.02.2019	15	1
KPSC, KKR	Gandhi- Science, Technology & Innovation	28.02.2019	15	--



17. COLLABORATIVE PROGRAMMES

NSC, Delhi

Sl. No.	Name of Collaborative Agency	Programme	Date of programme
1.	PCRA, New Delhi	Lecture programme during summer camps	21.05.2018 to 25.05.2018 28.05.2018 to 1.06. 2018 and 4.06.2018 to 8.05.2018
2.	Amity University	INSPIRE Programme	17.01.2019 & 18.01.2019
3.	Vigyan Prasar	National Mathematics Day Lecture & Maths Workshop	22.12.2018
4.	Earth Day Network & Yes Bank	Lecture, Painting Competitions & Seminars on Earthday and National Technology Day	22.04.2018 & 11.05.2018
5.	Expression India NGO, New Delhi	Lectures on Understanding Adolescence' and 'Conservation of Energy Sources' National Psycholimpiad 2018	21.05.18 to 1..6.2018 23.08.2018
6.	Katpur Foundation	Science Carnival at Govt. Inter College, Almora, Uttarakhand	27.11.2018 to 29.11.2018
7.	Ayurvedic & Uunani Tibbia College & Hospital, Delhi	Workshop for Parents on 'Coping with Children'	May & June 2018
8.	Patent & Intellectual Property Right Company Aurbindo Marg, New Delhi	Workshop on 'Patent & Intellectual Property Right'	08.02.2019
9.	Hopelinitiative NGO New Delhi	Swachhta Pakhwada Programmes	April & September 2018
10.	Moolchand Hospital New Delhi	Workshop on 'Problems & solution of Adolescence'	May & June 2018
11.	Hara Jeevan NGO New Delhi	Workshop on 'Save Environment'	May & June 2018
12 .	Kendriya Vidyalaya Sangathan, Jaipur	Science Festival at Bikaner	21.01.2019 to 25.01.2019
13 .	Guru Jambheshwar University of Science & Technology, Hisar, Haryana	Science Conclave 2019	12.02.2019 to 13.02.2019

14 .	Department of Education, Udaipur, Rajasthan	Science Festival at Udaipur	15.01.19 to 19.01.2019
15 .	SCERT/SISE/SIE of Northern states	Northern India Science Drama Competition	13.12.2018
16.	Kendriya Vidyalaya Sangathan, Agra Region	Science Festival & Mobile Science Exhibition Programme	28.08.18 to 30.08.2018 30.08.19 to 12.10.18
17.	SCERT/SISE/SIE of Northern states & NVS	Northern India Science Fair	04.02.2019 & 05.02.2019
18.	Directorate of Education, Municipal Corporation of Delhi	Annual Meet of VIPNET Clubs	27.03.2019



Sl. No.	Name of Collaborative Agency	Programme	Date of Programme
1.	Lucknow University, Lucknow	International Day for Biodiversity	20.05.2018
2.	Environment Directorate, UP	World Environment Day	04-05.06.2018
3.	Ground Water Department, UP	Ground Water Week Celebration	16-22.07.2018
4.	Lucknow University, Lucknow	Wildlife Week Celebration	1.10.2018
5.	NASI, Prayagraj	NASI winter school	28-30.12.2018
6.	CISH, CST UP, INTEGRAL UNIVERSITY, NBRI, NRLC, NBFGR, RSAC	Science Expo-2019	18-20.01.2019
7.	NASI, Lucknow Chapter	National Science Day	27-28.02.2019

KPSC, Kurukshetra

Sl. No.	Name of Collaborative Agency	Programme	Date of Programme
1.	Lok Nayak Jai Parkash Hospital	Pulse Polio Immunization	5 th August 2018, 10 th March 2019
2.	Haryana Forest Department, Kurukshetra	69 th Van Mahotsav Celebration	18 th July 2018
3.	Indian National Trust for Art and Cultural Heritage	Heritage Quiz Contest	24 th August 2018
4.	Bharat Vikas Parishad, Kurukshetra	Know India and Indian Science	2 nd October 2018
5.	State Council of Educational Research and Training, Chandigarh	Chandigarh State Level Science , Mathematics and Environment Exhibition for Children	26 th to 30 November 2018
6.	Indian National Trust for Art and Cultural Heritage	Paani Ki Kahani: Painting & Writing Contest	7 th February 2019



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	7006	34	7040
	Journals	1288	---	1288
	Audio/Visual (CD-ROM/DVD/Blue-Ray etc.)	787	---	787
RSC, Lucknow	Books	2253	29	2282
	Journals	3	-	3
	Audio Disc	7	-	7
	Video Disc	146	-	146
	Misc. Disc	70	0	70
KPSC, Kurukshetra	Books	1222	-	1222
	Video CDs	257	-	257



Name of the Centre	Name of the Publication	Process	Number Printed	Expenditure Incurred (Rs.)
NSC, Delhi	Souvenir on National Science Drama Festival 2019	Digital Print	316	Rs. 13855
RSC, Lucknow	Science Expo Booklet	Limited quotations	200	Rs. 14112
	Science Expo Poster		400	Rs. 2554
KPSC, Kurukshetra	Summer Vacation Hobby Camp Booklets	Digital Printing	150	Rs. 10,000
	Teachers Training Programme Booklets	Digital Printing	55	Rs. 2,000



20. CONSTRUCTION**NSC, Delhi**

S.No	Name of the Work	Date of start	Date of completion	Amount (in Rs.)
1	Water proofing of terraces in different floors at NSC, Delhi.	28.06.2018	27.07.2018	624535
2	Renovation of ground floor visitors toilets at NSC, Delhi.	12.11.2018	11.01.2019	1274013
3	Replacement of existing aluminium window glass panes with black tinted glass panes in different locations at National Science Centre, Delhi.	28.12.2018	28.02.2019	726883
4	Refurbishing of Escalator (Machine No. MF 5600) installed at National Science Centre, Delhi	30.10.2018	31.12.2018	1190000
5	Civil work for renovation of RCC planters in different terraces at National Science Centre, Delhi.	06.03.2019	31.03.2019	454088

RSC, Lucknow

	Name of the Work	Date of start	Date of completion	Amount (in Rs.)
1	The renovation of existing toilet facility in Science Park at Regional Science City, Lucknow	01.09.2018	26.12.2018	618081.00
2	The repairing of Boundary Wall, repairing of broken finises, creating safety railing at slopped rooftop of old building block and repairing and painting of these created structures at Regional Science City, Lucknow	01.09.2018	15.03.2019	1116044.00

KPSC, Kurukshetra

S.No.	Name of the Work	Date of start	Date of completion	Amount (in Rs.)
1	Various civil works at KPSC, Kurukshetra	31.01.2019		Rs. 1503650/-

21. PROCUREMENT OF EQUIPMENT (Under PI-5(iv), Costing Rs. 5000/- or more)

NSC, Delhi

Sl. No.	Name of the Equipment	Date of procurement	Cost in Rs.
1.	Desktop Computer Dell	13.04.2018	283000.00
2.	Dot Matrix Printer	08.05.2018	13500.00
3.	Projection Screen 133 inch	30.05.2018	22000.00
4.	Dell Desktop Computer	30.05.2018	70750.00
5.	Scientific Functional Generator	31.05.2018	10200.00
6.	Adjustable Volume Micropipettes	01.06.2018	298149.00
7.	Firewall 201E	12.07.2018	510000.00
8.	Desktop Computer	26.07.2018	704814.00
9.	Head Mounted Device Brain Wave	25.01.2019	151040.00
10.	Oculus	27.11.2018	126720.00
11.	Humanoid Robot	02.11.2018	1176750.00
12.	Hitachi Projector	29.03.2019	1229591.00
13.	Interactive Projector	29.03.2019	667873.00
14.	I – Card Printer	08.04.2019	49489.00
15.	C P Plus Drone Camera	31.05.2018	8130.00
16.	UPS 10 KVA	07.04.2019	364264.00
17.	Computer	23.05.2018	70750.00
18.	Strobe Lamp Module	22.06.2018	59000.00

RSC, Lucknow

Sl.No	Name of the Equipment	Date of procurement	Cost in Rs.
1.	UPS System	03.05.18	6200
2.	Desktop PC with out monitor	04.05.18	204500
3.	LED TV/Monitor	18.05.18	18990
4.	LED commercial TV/Monitor	09.07.18	12700
5.	LED TV/Monitor	01.08.18	18990
6.	LED Monitor	07.08.18	20500
7.	Touch Screen	04.09.18	21240
8.	Mitzvah Air Curtain	04.09.18	30400
9.	Numeric Digital 600VA UPS	26.11.18	9500
10.	LED TV/Monitor	09.01.18	12700
11.	Surface 12W LED Panal	30.01.19	10610
12.	Compact LED Bulk Head 15W	08.03.19	6600
13.	Multimedia Projector	22.03.19	157800
14.	Angle Grinder	27.03.19	6600
15.	Laser Projector	30.03.19	383800
16.	LED street light	30.03.19	68610

Sl. No	Name of the Equipment	Date of procurement	Cost in Rs.
1.	Submersible Pump 2 HP	13.06.18	11,576.00
2.	Water Cooler	24.07.18	70,400.00
3.	FRP Ball (Fibre Sphere)	04.01.19	13,924.00
4.	Tesla Coil Model	05.03.19	18,000.00
5.	UPS 5 KVA + Batteries	25.03.19	79,700.00

22. PERSONNEL

a) * New Appointments (Regular/Deputation/Adhoc)

Name of the Centre	Sl. No.	Full Name of Personnel	Designation	Date of Joining
NSC, Delhi	1	Sh. Anindaya Sarkar	Exhibition Officer 'B'	18-02-2019
	2	Sh. Monu Malik	Office Asstt.-III	05-03-2019
	3	Sh. Sachin Kumar	Driver	08-03-2019
	4	Sh. Arun Prodhan	Exhibition Asstt. 'A'	18-03-2019
	5	Sh. Debasish Makhal	Exhibition Asstt. 'A'	26-03-2019
RSC, Lucknow	Nil			
KPSC, KKR	Nil			

b) Promotions

Name of the Centre	Sl. No	Full Name of Personnel	Designation Prior to Promotion	Designation After Promotion	Effective Date of Promotion
NSC, Delhi	1	Smt. Bharti	Technical Officer 'B'	Technical Officer 'C'	17-10-2016
	2	Sh. Bharat Sah	Exhibition Officer 'B'	Exhibition Officer 'C'	12-01-2017
	3	Sh. Surender Kumar-II	Technician 'E'	Technician 'F'	24-04-2018
	4	Sh. Jai Kumar	Technician 'E'	Technician 'F'	24-04-2018
	5	Sh. Kuber Singh Bisht	Technician 'E'	Technician 'F'	01-05-2018
	6	Sh. Anil Kumar	Artist 'E'	Artist 'F'	02-05-2018
	7	Sh. Jagdish Kumar	Technician 'E'	Technician 'F'	05-05-2018
	8	Sh. Deepak Kumar	Technician 'E'	Technician 'F'	07-05-2018
	9	Sh. Ram Kumar	Technician 'E'	Technician 'F'	10-05-2018
	10	Sh. Kanhaiya Lal	Technician 'E'	Technician 'F'	12-05-2018

NSC, Delhi	11	Sh.Surender Kumar-I	Technician 'E'	Technician 'F'	12-05-2018
	12	Sh. Ved Parkash	Technician 'E'	Technician 'F'	16-05-2018
	13	Sh. Santosh Kumar	Technician 'E'	Technician 'F'	23-05-2018
	14	Sh. Ravindra Kumar	Technician 'E'	Technician 'F'	24-05-2018
	15	Sh. V. K. Pant	Technician 'E'	Technician 'F'	30-05-2018
	16	Sh. Rakesh Kumar	Technician 'E'	Technician 'F'	07-06-2018
	17	Sh. S. Thiruselvam	Technician 'E'	Technician 'F'	07-06-2018
	18	Sh. Nand Kishor	Technician 'E'	Technician 'F'	07-06-2018
	19	Sh. Devinder Singh	Technician 'E'	Technician 'F'	21-06-2018
	20	Sh. Gurmeet Singh	Technician 'E'	Technician 'F'	30-06-2018
	21	Sh. Brahmanand	Technician 'E'	Technician 'F'	10-07-2018
	22	Sh. K. S. Negi	Technician 'F'	Technician 'G'	15-07-2018
	23	Sh. Kamaljeet Singh	Technician 'E'	Technician 'F'	20-07-2018
	24	Sh. Shish Pal Singh	Technician 'E'	Technician 'F'	31-07-2018
	25	Smt. Leela Rawat	Office Asstt.-II	Office Asstt.-I	02-08-2018
	26	Sh. Bahadur Singh	Office Asstt.-III	Office Asstt.-II	30-08-2018
	27	Sh. Moinuddin Ansari	Curator 'C'	Curator 'D'	04-10-2018
	28	Sh. Kumar Khimnani	Tech. Officer 'C'	Tech. Officer 'D'	04-10-2018
	29	Sh. V. J. Mathew	Office Asstt.-I	Section Officer (S&P)	01-11-2018
	30	Sh. Anurag Kumar	Curator 'F'	Curator 'G'	07-01-2019
	31	Sh. Kailash Chandra	Education Officer 'C'	Education Officer 'D'	15-03-2019
	32	Sh. B. B. Srivastava	Education Officer 'C'	Education Officer 'D'	15-03-2019
SRSC, Palampur	1	Sh. Abhijit Mahato	Technical Asstt.'A'	Technical Asstt. 'B'	09-05-2019

RSC, Lucknow	1	Sh. Subhasis Dutta	Technician 'A'	Technician 'B'	23-05-2017
	2	Sh. Vikas	Education Asstt.'B'	Education Officer 'A'	07-10-2017
	3	Sh. A K Verma	Technician 'E'	Technician 'F'	24-04-2018
	4	Sh. D G Khobragade	Technician 'E'	Technician 'F'	24-04-2018
	5	Sh. Mata Prasad	Technician 'E'	Technician 'F'	29-04-2018
	6	Sh. Anil Kumar	Technician 'E'	Technician 'F'	04-05-2018
	7	Sh. Abhay Krishan	Technician 'E'	Technician 'F'	08-05-2018
	8	Sh. Ram Karan	Artist 'E'	Artist 'F'	10-05-2018
	9	Sh. Ramesh Kumar	Technician 'E'	Technician 'F'	20-05-2018
	10	Sh. A K Sharma	Technician 'E'	Technician 'F'	16-06-2018
	11	Sh. Rakesh Mohan Lal	Tech. Officer 'C'	Tech. Officer 'D'	04-10-2018
	12	Sh. Soumen Ghosh	Curator 'C'	Curator 'D'	15-03-2019
KPSC, KKR	1	Sh. Jeet Pal	Technician 'B'	Technician 'C'	19-04-2017

c) Transfers

Name of the Centre	Name of the Personnel	Designation	Transferred		Effective Date of Transfer
			From	To	
NSC, Delhi	1. Sh. K. K. Mishra	Dy. Controller (F&A)	NSC, Delhi	NCSM Hqrs.	24 -04 -2018
RSC, Lucknow	Nil				
KPSC, KKR	Nil				

d) Retirement/ Repatriation/Resignation

Sl. No	Name of the Personnel	Designation	Name of the Centre	Date of Retirement/ release	Remarks mention retirement/ repatriation
1	Sh. Avijit Sarkar	Exhibition Officer 'C'	NSC, Delhi	31/10/2018	Retired on Superannuation
2	Sh. S. K. Pandita	Chief Exhibition Officer, NCSM	NSC, Delhi	31/12/2018	Retired on Superannuation
3	Sh. Chander Pal	Technician 'F'	NSC, Delhi	31/03/2019	Retired on Superannuation

e) Foreign Deputations

NSC, Delhi

1. Sh. D. Rama Sarma	Director	16-09-2018 to 20-09-2018	China
2. Sh. M. Ansari	Curator 'D'	24-07-2018 to 29-07-2018	U. K.
3. Sh. Kailash Chandra	Edu. Officer 'D'	24-07-2018 to 29-07-2018	U. K.
4. Sh. B. B Srivastava	Edu. Officer 'D'	06-10-2018 to 14-10-2018	Sri Lanka
5. Sh. R. K. Tripathi	Edu. Assistant 'B'	09-08-2018 to 12-08-2018	Korea

RSC, Lucknow

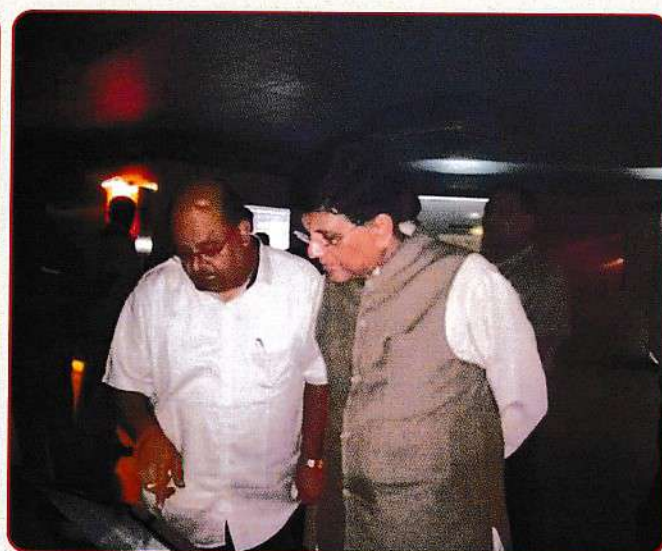
- NIL -

KPSC, Kurukshetra

- NIL -

Sl. No	Name of the Personnel	Designation/organisation
1.	Shri. Piyush Goyal	Hon'ble Minister of Railway , Govt of India
2.	Dr. Mahesh Sharma	Hon'ble Minister of Culture, Govt of India
3.	Dr. Y. P. Anand	Former Director of National Gandhi Museum and writer of several books on Gandhi's work.
4.	Prof. Nageshwar Rao	Vice Chancellor, IGNOU, New Delhi
5.	Prof P. B. Sharma	Vice Chancellor, Amity University, Manesar, Gurugram
6.	Prof. Avinash Chandra Pandey	Director, Inter University Accelerator Centre, Delhi
7.	Dr. Mohit Gambhir	Director, Ministry of HRD, Govt. of India
8.	Smt. Shallu Jindal,	Chairperson, National Bal Bhavan, Delhi
9.	Dr. Amal Allana	Chairperson, National School of Drama, Delhi
10.	Dr. Anil Arora	Director, Earth Day Network, New Delhi
11.	Dr. J. P. Sharma	Professor, Indira Gandhi Institute of Physical Education & Sports Sciences, University of Delhi
12.	Dr. Vijay Kumar Soni	Head, EMRC, India Meteorological Department, New Delhi
13.	Prof. A K Bhatnagar	Department of Botany, Delhi University
14.	Dr. Sunita Gupta	Associate Professor, Daulat Ram College, University of Delhi
15.	Prof. Dinesh Singh	Former Vice Chancellor, University of Delhi
16.	Prof. Dr. Sathya N. Dornala	Swami Vivekanand Ayurvedic Panchakarma Hospital, Delhi
17.	Mr. Li Haining	Director of Beijing Continuing Education College of Science and Technology, BAST
18.	Sh. Atul Tiwari	Eminent Actor & Writer
19.	Dr. Suchitra Gupta	Academician, famous T.V. Radio and Theatre artist
20.	Ms. Nalini	Internationally renowned Kathak Duo Nalini -Kamalini

21.	Dr. Deepali Saxena	Psychiatrist, Moolchand Hospital, New Delhi
22.	Ms. Manisha Saini	Hara jeevan NGO
23.	Dr. Nishi Arora	Ayurvedic & Uunani Tibbia College & Hospital, Delhi
24.	Dr. Praveen K. Singh	Principal Scientist, Center for Protected Cultivation Technology, ICAR, Pusa, Delhi
25.	Shri Sidharth Saran	Dy. Director, PCRA, New Delhi
26.	Shri Manoj Patairia	Director CSIR-NCSTC, Delhi
27.	Dr. Bhaswati Bhattacharya	Clinical Assistant Profesor of Medicine Weill Cornell Medical College, New York
28.	Mrs. Mala Saran	Programme Coordinator, Hope Initiative NGO, New Delhi
29.	Shri S. S. Rana	Patent & Intellectual,Property Right Company, New Delhi
30.	Prof. P. V. Madhusudan Rao	IIT, Delhi
31.	Shri Onkareshwar Pandey	Editor in Chief, Indian, Observer Post Former Editor (Rashtriya Sahara & ANI), New Delhi
32.	Dr. V. P. Gaur	Director, Rajbhasha Vibhag, Ministry, of Culture, Govt. of India
33.	Dr. Jitendera Nagpal	Expression India NGO, New Delhi



S.No.	Name of the Personnel	Designation/organisation
1.	Dr. V.P. Sharma	Deputy Director, CSIR-IITR, Lucknow
2.	Dr. Satish Chandra	Hindi Expert, Kendriya Vidyalaya Sanhthan, Lucknow
3.	Hon'ble Prof. S. P. Singh Baghel	Minister for Minor Irrigation & Ground Water Department, Govt. of UP
4.	Smt. Anita Singh	Chief Secretary, Minor Irrigation and Groundwater Department, Govt. of Uttar Pradesh
5.	Shri Y. B. Kaushik	Director, Central Groundwater Board (Northern Region)
6.	Shri R. S. Sinha	Consultant, Ground Water Department, Uttar Pradesh
7.	Shri Amrendra Singh	Dy. Director, Basic Education, UP
8.	Shri V. P. Gaur	Director (Raj Bhasha), Ministry of Culture, Government of India, New Delhi
9.	Dr. Dinesh Sharma	Hon'ble Deputy Chief Minister, Uttar Pradesh
10.	Dr. V. K. Joshi	Ex-Director of Geological Survey of India
11.	Shri K. Prasad	Executive Engineer, UPPCL, Lucknow
12.	Dr. Sripati Mishra (IPS)	Superintendent of Police (Lucknow Sector), Headquarters Vigilance Establishment, Gomti Nagar, Lucknow
13.	Prof. H. K. Paliwal	Director, Institute of Engineering Technology, UP
14.	Prof. R. K. Singh	Pro-Vice-Chancellor, Lucknow University, Lucknow
15.	Shri Som Nath Chandel	Dy. Director General, Geological Survey of India (NR) Lucknow
16.	Prof. P. K. Seth	Chief Consultant, Biotech Park
17.	Prof. P. Jagannath	Chairman Surgical Oncology, Lilavati Hospital and Research Centre Mumbai
18.	Dr. V. P. Kamboj	Eminent Scientist and Former Director, CSIR-CDRI
19.	Dr. Vijay Narayan Tiwari	Former senior scientist, CSIR-NBRI
20.	Dr. Manager Singh	Director General, NRLC, Lucknow
21.	Prof Aqil Ahmad,	Vice Chancellor, Integral University, Lucknow
22.	Prof. Pramod Tandon	C.E.O. Biotech Park, Lucknow
23.	Smt. Lalita Pradeep	Joint Director, Basic Education, UP
24.	Shri S. M. Prasad	Joint Director, Council of Science & Technology, UP

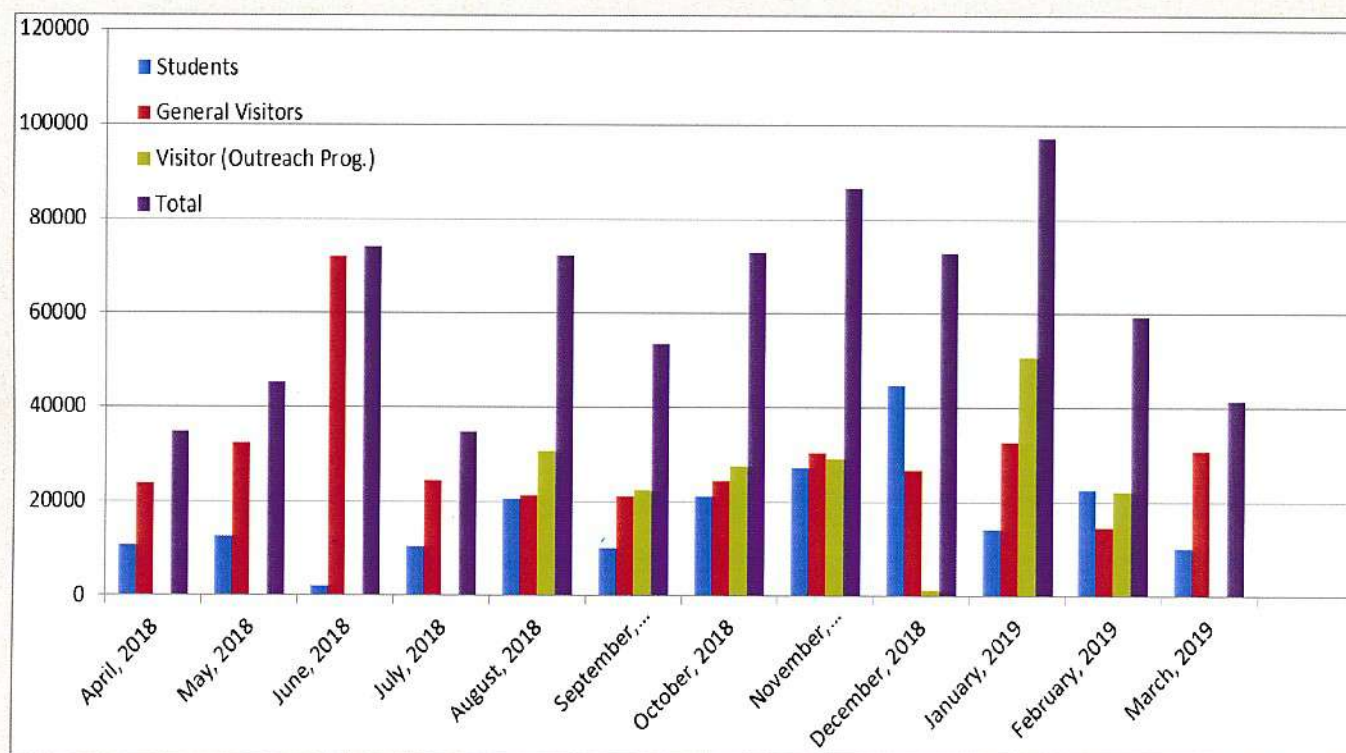
KPSC, Kurukshetra

S. No.	Name of the Personnel	Designation/organisation
1.	Sh. Ajit Pandit	AM/W, Railway Board
2.	Rajesh Sharma	DG, ITBP, New Delhi
3.	Dr. Bhaswati Bhattacharya	Clinical Assistant Profesor of Medicine, Weill Cornell Medical College, New York

VISITORS STATISTICS (YEAR 2018-2019)

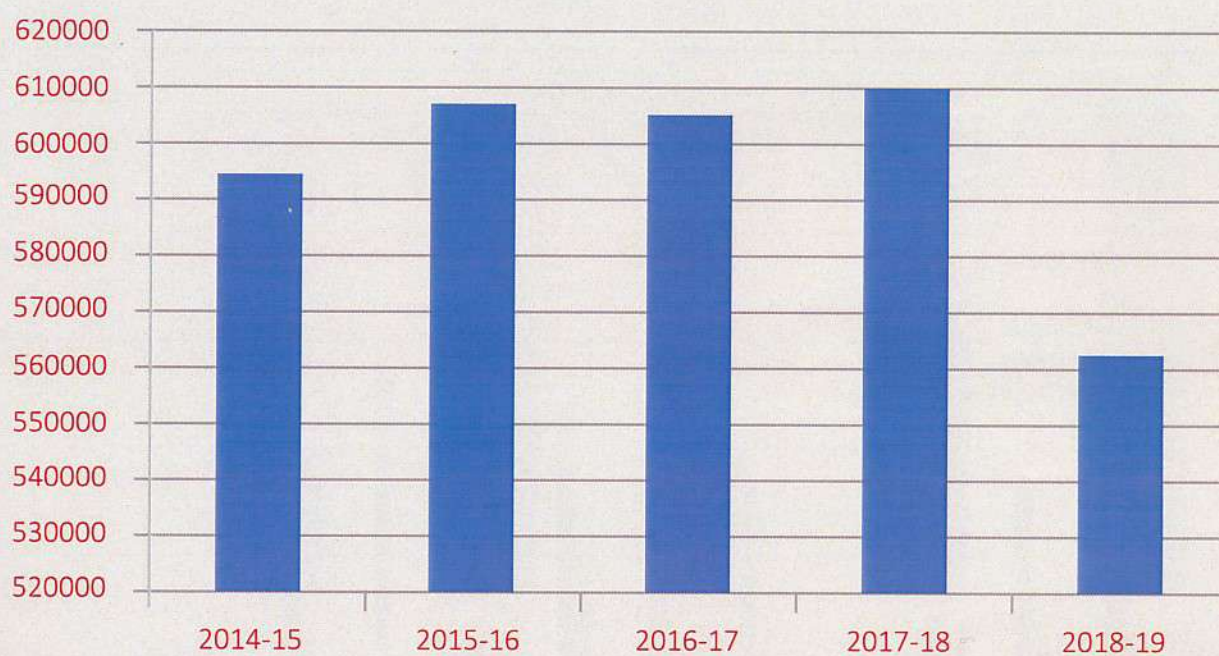
A. NSC, Delhi

Months	Students	General Visitors	Visitor (Outreach Prog.)	Total
April, 2018	10797	23966	0	34763
May, 2018	12701	32491	0	45192
June, 2018	2013	72008	0	74021
July, 2018	10482	24356	0	34838
August, 2018	20535	21220	30547	72302
September, 2018	10287	21078	22248	53613
October, 2018	21189	24483	27402	73074
November, 2018	30404	27298	28978	86680
December, 2018	44737	26772	1300	72809
January, 2019	14145	32529	50719	97393
February, 2019	22643	14684	22000	59327
March, 2019	10136	30957	221	41314
Total				745326

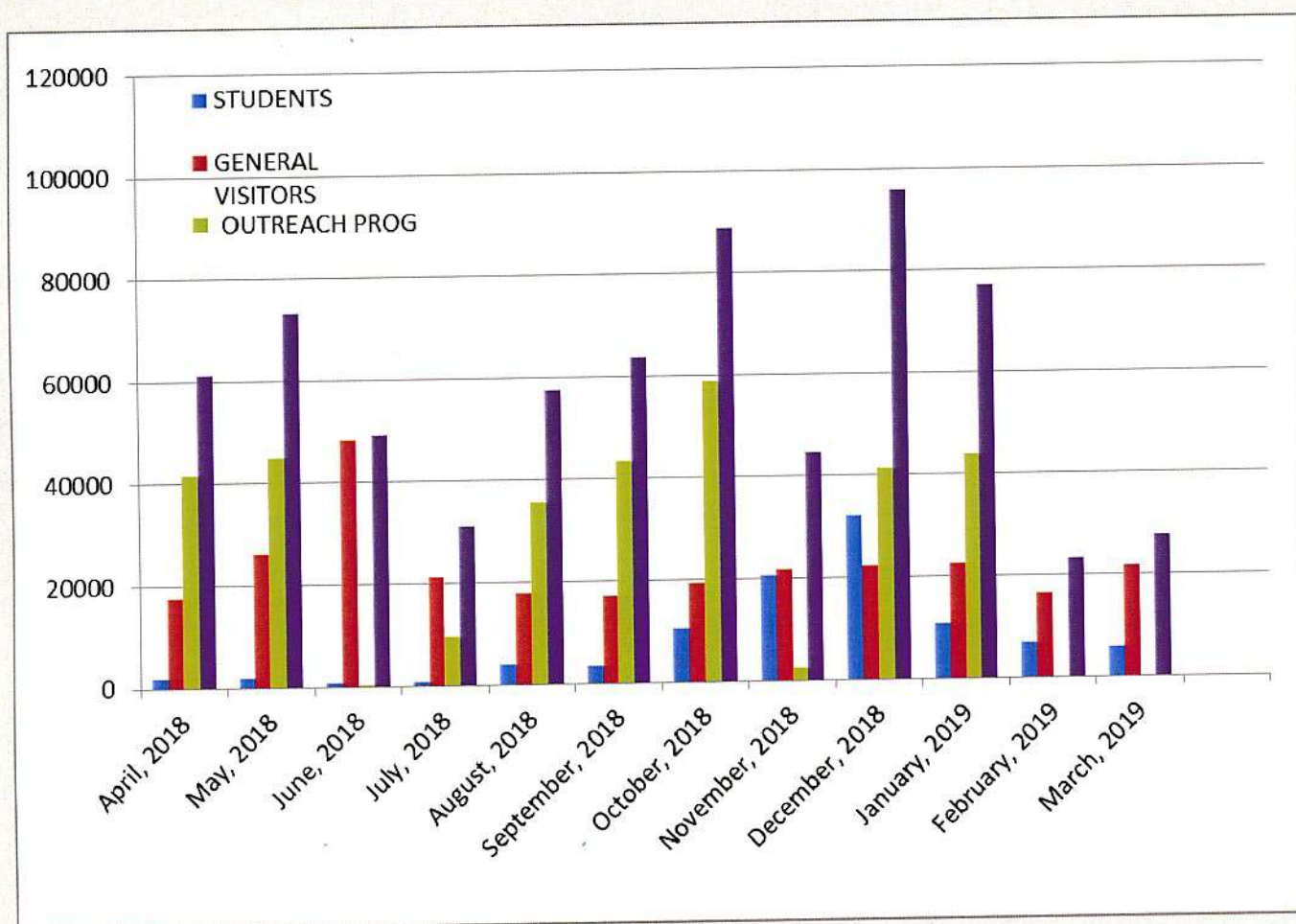


Year	Total Visitors
2014 - 15	594214
2015 - 16	606794
2016 - 17	604840
2017 - 18	609435
2018 - 19	561911

Total Visitors

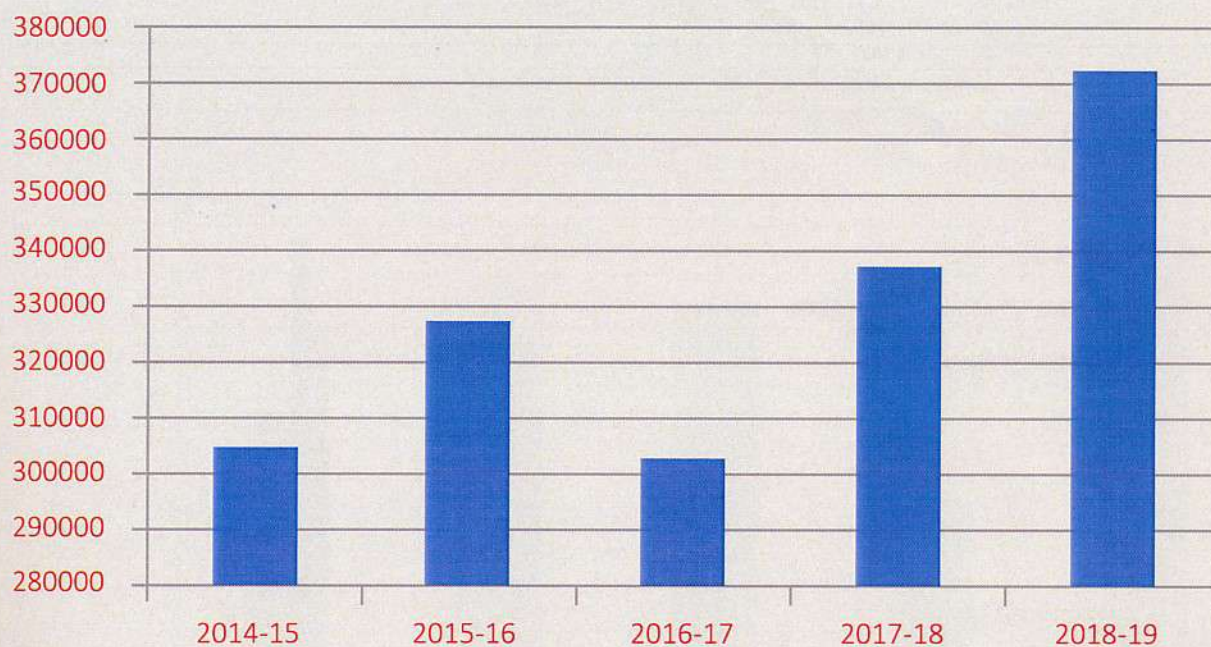


Months	Students	General Visitors	Visitor (Outreach Prog.)	Total
April, 2018	1964	17657	41573	61194
May, 2018	1943	26191	45049	73183
June, 2018	811	48243	85	49139
July, 2018	731	21091	9415	31237
August, 2018	4047	17850	35500	57397
September, 2018	3445	17120	43266	63831
October, 2018	10395	19407	58913	88715
November, 2018	20555	21719	2323	44597
December, 2018	32142	22299	41358	95799
January, 2019	10757	22495	43907	77159
February, 2019	6774	16469	0	23243
March, 2019	5811	21801	0	27612
Total				693106

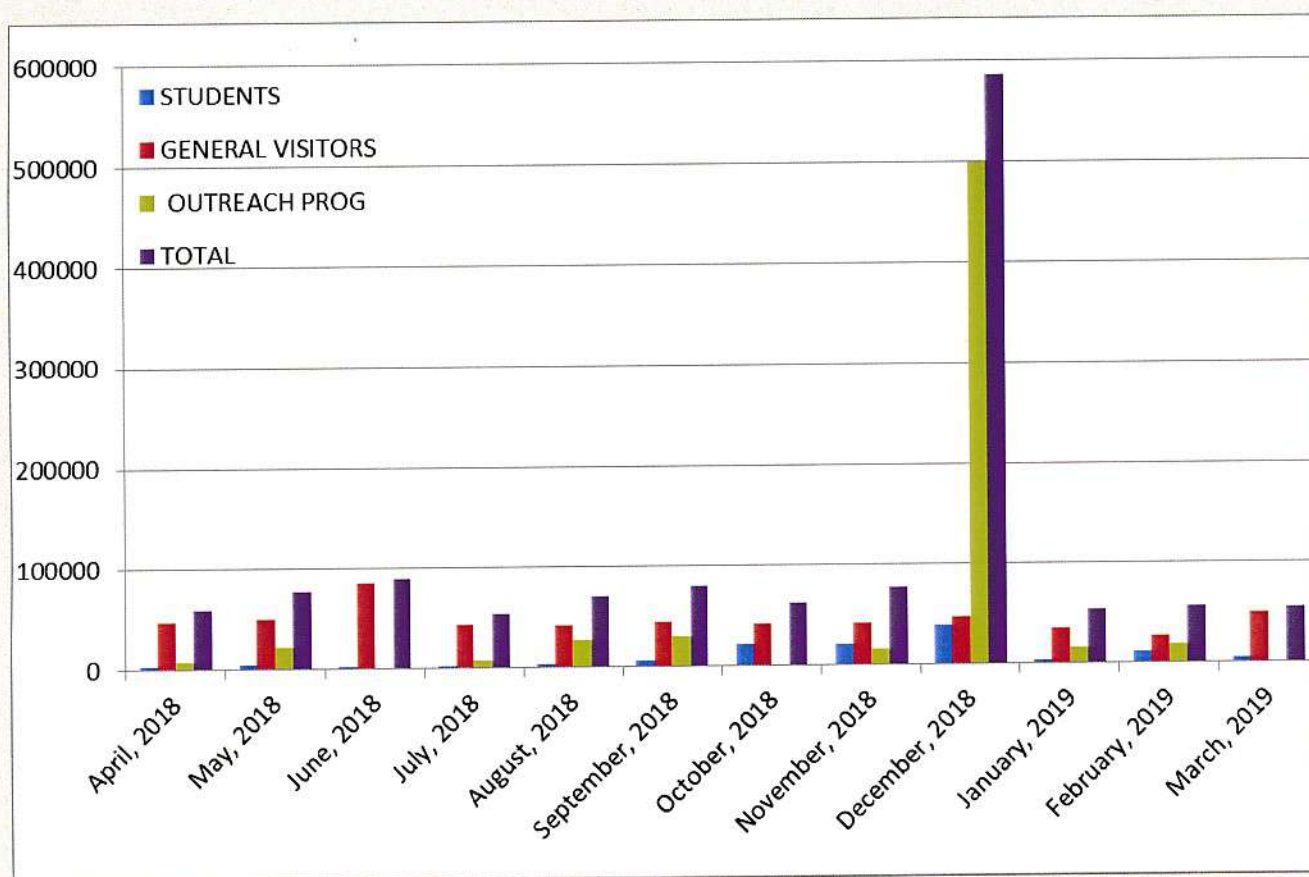


Year	Total Visitors
2014-15	304323
2015-16	327919
2016-17	302782
2017-18	336207
2018-19	371717

Total Visitors



Month	Students	General Visitors	Outreach Visitors	Grand Total
April, 2018	3416	47020	8000	58436
May, 2018	4738	50208	22345	77291
June, 2018	2328	84975	1363	88666
July, 2018	2044	43072	8000	53116
August, 2018	3033	41338	27000	71371
September, 2018	6443	43901	30203	80547
October, 2018	21435	41526	0	62961
November, 2018	21188	41665	15000	77853
December, 2018	38549	47347	500000	585896
January, 2019	3126	35258	15000	53384
February, 2019	11696	27414	17500	56610
March, 2019	4716	50127	0	54843
Total				1320974



Year	Visitors
2014- 15	643203
2015- 16	668916
2016- 17	666920
2017- 18	630263
2018- 19	676563

Total Visitors



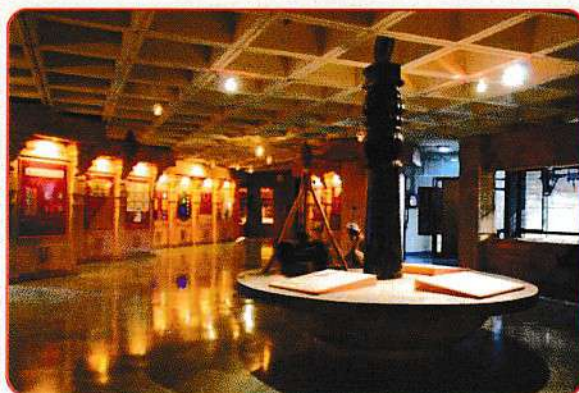
LIST OF EXHIBITS DEVELOPED / RENOVATED/ PROCURED

A. NSC, Delhi

S.No.	Name of the Exhibit	Qty.	Gallery / Project	New/Duplicate/ Renovated
1	Plate Tectonics	1	Upcoming SRSCP Thematic gallery	New
2	Earthquake Simulator	1	Upcoming SRSCP Thematic gallery	New
3	Continental Drift	1	Upcoming SRSCP Thematic gallery	New
4	Land Slide	1	Upcoming SRSCP Thematic gallery	New
5	Visual Seeker	1	Upcoming Indian Revolutionaries (Azad) gallery	New
6	Seismic Wave (New)	1	Upcoming SRSCP Thematic gallery	New
7	3D Anamorphosis	1	Fun Science Gallery NSCD	New
8	Fog Tornado	1	Upcoming SRSCP Thematic gallery	New
9	Insect Garden	3	Science Park NE	New
10	Tug of War	3	Science Park NE	Duplicate
11	Kaleidoscope	3	Fun Science	Duplicate
12	Acrobatic Stick	1	DST Rajasthan	Duplicate
13	Sympathetic Swing Face to face	3	Science Park NE	Duplicate
14	Vortex	1	Fun Science NE	Duplicate
15	Vortex	1	Fun Science SRSCP	Duplicate
16	Sympathetic Swing Face to face	1	Science Park SRSCP	Duplicate
17	Illusion with Ring	3	Fun Science NE	Duplicate
18	Floating Objects	1	Fun Science SRSCP	Duplicate
19	Walk in Air	1	Science Park SRSCP	Duplicate
20	Hit the ball if you can	1	Fun Science SRSCP	Duplicate
21	Stop the Fan / Frozen Motion	1	Fun Science SRSCP	Duplicate
22	Kashi Ka Manchitra	1	VEM Varanasi	New
23	Man Mandir	1	VEM Varanasi	New
24	Vihangam Varanasi	4	VEM Varanasi	New
25	Shiv Pujan	1	VEM Varanasi	New
26	Timeline	2	VEM Varanasi	New
27	Ek Nazam Meri Kashi	2	VEM Varanasi	New

28	Kashi ki Galiyan	11	VEM Varanasi	New
29	Literature	4	VEM Varanasi	New
30	Textile	4	VEM Varanasi	New
31	Music	5	VEM Varanasi	New
32	Shilp	4	VEM Varanasi	New
33	Garga Avataraan	10	VEM Varanasi	New
34	Havan	4	VEM Varanasi	New
35	Ganga dip	1	VEM Varanasi	New
36	Travelogues	4	VEM Varanasi	New
37	Famous people	2	VEM Varanasi	New
38	Ayurveda, yoga	4	VEM Varanasi	New
39	Moksh	3	VEM Varanasi	New
40	Pledge	2	VEM Varanasi	New
41	Loom	1	VEM Varanasi	New
42	Interacting Music	2	VEM Varanasi	New
43	Festival	4	VEM Varanasi	New
44	Poetry	1	VEM Varanasi	New
45	Humanoid Robot (NAO)	1	Digital India	New
46	Water Jet	1	Digital India	New
47	Mathematics & Computational Thinking	1	Kit	New
48	Paper Tower	1	Kit	New
49	Stick Table & Its Testing	1	Kit	New
50	Make Your Own Electric Guitar	1	Kit	New
51	Rocket Launching Platform	1	Kit	New
52	Jumping Frog Kit	1	Kit	New
53	Electric Sharpner Kit	1	Kit	New
54	Infinite Tunnel Kit	1	Kit	New
55	Magnetic Cradle	1	Kit	New
56	3D Spectroscope Making Kit	1	Kit	New

Total Exhibits=120



	List of Exhibits	Project for	Quantity
1	Infinity Well	Kota & Jhalawar Project	02
2	Visualizing Sound	Kota & Jhalawar Project	02
3	Crazy Maze	Kota & Jhalawar Project	01
4	Identify a Magnet	Kota & Jhalawar Project	01
5	Floating Ball	Kota & Jhalawar Project	02
6	Express Rout	Kota & Jhalawar Project	01
7	Illusive Sphere	Kota & Jhalawar Project	01
8	Magic Water Tap	Kota & Jhalawar Project	01
9	Vortex	Kota & Jhalawar Project	01
10	Rotating Platform	Kota & Jhalawar Project	01
11	Lift Yourself	Kota & Jhalawar Project	01
12	Turn Faster	Kota & Jhalawar Project	01
13	Swing is a Pendulum	Kota & Jhalawar Project	01
14	Camera Obscura	Kota & Jhalawar Project	01
15	Bird in Cage	Kota & Jhalawar Project	01
16	Win the Race	Kota & Jhalawar Project	01
17	Stop the Fan	Fun Science	01
18	Blue Eyes B rown Eyes	Biotechnological Revolution Galley	01
19	Illusive Sphere	Popular Science	01
20	Visualizing Sound	Popular Science	01
21	Cone Runs Uphill	Popular Science	01
22	3 D Anamorphosis	Popular Science	01
23	Lariat Chain	Popular Science	01
24	Dexter ty Teest	Popular Science	01
25	Colour Shadow	Popular Science	01
26	Xylophone	Popular Science	01
27	Genetic Disorder	Biotechnological Revolution Galley	01
28	Cell : The Basic Unit of Life		01
29	Protein Synthesis		01
30	Gene Splicing		01
31	Aqua Mobile	Fun Science	01
32	Play with Sprayer	Fluidics	01
33	Water Properties	Water: Our Life	01
34	Our Blue Planet		01
35	Crazy Maze	Science Park	01
36	See Saw Pump	Science Park	01
37	Slide	Science Park	01
38	Sympathetic Swings	Science Park	01
39	Snake Pendulum	Fun Science	01
40	Mind's Eye	Children Gallery	01
41	Grasshopper	Science Park	01
42	Nano -cloth	Prehistoric LifePark	01
43	Pterondon	Prehistoric LifePark	01
44	Dragon Fly	Prehistoric LifePark	01
45	Why we see the one face of moon	Science Park	01
46	String less Piano	Fun Science	01
47	Roller Coaster	Science Park	01

Total Exhibits=50 No.

Sl.No.	Title of the exhibit	Type of exhibit	New/Renovated
1.	Rotating Chair	Fun Science	New
2.	Floating Objects	Fun Science	New
3.	Conic Section	Fun Science	New
4.	Colour Pyramid	Fun Science	New
5.	Children Play Corner	Fun Science	New
6.	Solar Eclipse-1	Science Park	New
7.	Balance Yourself	Science Park	New
8.	Solar Eclipse-2	Science Park	New
9.	Solar Eclipse-3	Science Park	New
10.	Eco Tube	Science Park	New
11.	Organ Pipe	Science Park	New
12.	Lever Reduces Effort-1	Science Park	New
13.	Lever Reduces Effort-2	Science Park	New
14.	Lever Reduces Effort-3	Science Park	New
15.	Optical Heritage	MSE	New
16.	Light : What is it	MSE	New
17.	Transverse & Longitudinal Wave	MSE	New
18.	Reflection of light	MSE	New
19.	Refraction	MSE	New
20.	Diffraction	MSE	New
21.	Superposition of Waves	MSE	New
22.	Electromagnetic Induction	MSE	New
23.	Visualizing AC and DC light	MSE	New
24.	Dual Nature of Light	MSE	New
25.	Ultraviolet Radiation	MSE	New
26.	Infrared wave	MSE	New
27.	Harnessing Light	MSE	New
28.	Capturing Light	MSE	New
29.	Phosphorescence and fluorescence	MSE	New
30.	Light pollution	MSE	New
31.	Light and Mood	MSE	New
32.	Light in nature	MSE	New
33.	Holography	MSE	New
34.	Future of Light	MSE	New
35.	Mahabharata Panorama	Panorama Gallery	Renovated
36.	Dinosaur Enclave	Science Park	Renovated
37.	Nails Puzzle	Kit	New
38.	Handshake Problem	Kit	New
39.	Fall the Ball Puzzle	Kit	New
40.	Handcuffs Puzzle-1	Kit	New
41.	Handcuffs Puzzle-2	Kit	New
42.	Paper Folding Puzzle	Kit	New
43.	The Three Cups Problem	Kit	New
44.	The Rope Puzzle-1	Kit	New
45.	The Rope Puzzle-2	Kit	New
46.	The Rope and Ring Puzzle	Kit	New
47.	The Loop Puzzle-2	Kit	New

48	The Loop Puzzle-3	Kit	New
49	The Ring Puzzle-2	Kit	New
50	The Loop Puzzle-3	Kit	New
51	The Ring Puzzle-2	Kit	New
52	The Loop Puzzle-4	Kit	New
53	The Loop Puzzle-5	Kit	New
54	The Ring Puzzle-3	Kit	New
55	The Ring Puzzle-4	Kit	New
56	The Loop Puzzle-1	Kit	New

Total Exhibits = 56 No.

LIST OF POPULAR SCIENCE LECTURES

A.NSC, Delhi

S.No.	Date	Title	Speaker	No. of Audience
1.	22.04.2018	Save the Planet Earth	Dr. Anil Arora Director, Earth Day Network New Delhi	320
2.	26.04.2018	Hand Washing- A Key to Good Health	Mrs. Mala Saran Programme Coordinator Hope Initiative NGO New Delhi	110
3.	11.05.2018	Technological Solution to end plastic pollution	Dr. Anil Arora Director, Earth Day Network New Delhi	350
4.	21.05.2018	Dealing with problems of Adolescence	Dr. Deepali Saxena Psychiatrist Moolchand Hospital New Delhi	320
5.	22.05.2018	Reduce, Reuse, Recycle	Dr. Anil Arora Director, Earth Day Network New Delhi	320
6.	22.05.2018	Making Effective Career Choices	Dr. Deepali Saxena Psychiatrist Moolchand Hospital New Delhi	150
7.	23.05.2018	Positive Parenting Skills	Dr. Nishi Arora Ayurvedic & Unani Tibbia College & Hospital Delhi	140
8.	24.05.2018	Energy Saving Tips	Shri Sidharth Saran Dy. Director PCRA New Delhi	130
9.	25.05.2018	Waste Management	Ms. Manisha Saini Hara Jeevan NGO New Delhi	120
10.	28.05.2018	Understanding & Coping with Emotions	Dr. Deepali Saxena Psychiatrist Moolchand Hospital New Delhi	120
11.	29.05.2018	Positive Parenting Skills	Dr. Deepali Saxena Psychiatrist Moolchand Hospital New Delhi	130
12.	30.05.2018	Nutritional Values & Wellbeing in the Adolescent years	Dr. Nishi Arora Ayurvedic & Unani Tibbia College & Hospital Delhi	130
13.	31.05.2018	Energy Saving Tips	Shri Sidharth Saran Dy. Director PCRA New Delhi	110
14.	01.06.2018	Management of Kitchen Waste	Ms. Manisha Saini Hara Jeevan NGO New Delhi	120

15.	04.06.2018	Dealing with problems of Adolescence	Dr. Deepali Saxena Psychiatrist Moolchand Hospital New Delhi	120
16.	05.06.2018	Ecological Balance in Nature	Dr. Anil Arora Director, Earth Day Network New Delhi	115
17.	05.06.2018	Waste Management	Ms. Manisha Saini Hara Jeevan NGO, New Delhi	110
18.	06.06.2018	Positive Parenting Skills	Dr. Nishi Arora Ayurvedic & Unani Tibbia College & Hospital Delhi	115
19.	07.06.2018	Energy Saving Tips	Shri Sidharth Saran Dy. Director PCRA, New Delhi	120
20.	08.06.2018	Making Effective Career Choices	Dr. Deepali Saxena Psychiatrist Moolchand Hospital New Delhi	120
21.	21.06.2018	Yoga- A Key to Good Health	Dr. J. P. Sharma Professor Indira Gandhi Institute of Physical Education & Sports Sciences, University of Delhi	125
22.	23.08.2018	National Psycholympiad	Dr. Jitendera Nagpal Expression India NGO New Delhi	320
23.	14.09.2018	Keep Cool & Carry on: Protecting our Ozone layer and Climate	Dr. Vijay Kumar Soni Head EMRC, Meteorological Department New Delhi	310
24.	20.09.2018	Hand Washing- A Key to Good Health	Mrs. Mala Saran Programme Coordinator Hope Initiative NGO New Delhi	110
25.	26.11.2018	Hindi: The Rajbhasha	Dr. V. P. Gaur, Director Rajbhasha Vibhag Ministry of Culture, Govt. of India	110
26.	29.11.2018	Hindi: Language & Script	Shri Onkareshwar Pandey Editor in Chief Indian Observer Post Former Editor (Rashtriya Sahara & ANI), New Delhi	110
27.	07.02.2019	Anybody Can Innovate	Prof. P. V. Madhusudan Rao , IIT Delhi	315
28.	08.02.2019	Safeguarding Your Ideas	Shri S. S. Rana Patent & Intellectual , Property Right Company, Aurbindo Marg, New Delhi	110
29.	13.02.2019	Connecting Ancient Concepts with Modern for Seeing the Human Body	Dr. Bhaswati Bhattacharya Clinical Asst. Professor Weill Cornell Medical College New York, USA	320
30.	28.02.2019	Are we disturbing the private life of plants	Prof. A. K. Bhatnagar Department of Botany, University of Delhi	310

S.N	Date	Name of Speaker	Designation	Topic	Audience
1.	28 .4. 2018	Dr.Archana Srivastava	Medical Practitioner, New Zealand	Swachh Bharat Mission	165
2.	22 .4. 2018	Dr.Raj Mehrotra	Project Co ordinator Regional Science City Lucknow	Enticing Demonstration Physics and Chemistry	650
3.	11 .5. 2018	Prof. M.M. Verma	Lecturer, Lucknow University, Lucknow	Darks side of universe	200
4.	23 .5. 2018	Dr. P.K Srivastava	Former Scientist CDRI, Lucknow	Sciencetoon	175
5.	5.6. 2018	Dr. V.P Sharma	Scientist IITR, Lucknow	Plastic Pollution	200
6.	21.6.2018	Piyush Khanna	Yoga Teacher Art of Living, Lucknow	pranayam and yoga-asana	25
7.	17.7. 2018	Dr. Sanjeev Shukla	BSNV College Lucknow	Water Contamination	165
8.	18.7. 2018	Dr.Akhila Anand	Former Scientist CIMAP, Lucknow	Hydroponics	115
9.	20.7. 2018	Dr. Ashok kumar	Director Central Ground water Board Lucknow	Ground Water Pollution (Held at rural School)	3085
10.	18.7. 2018	Dr. R.A Yadav	Hydrologist, Ground water Department Lucknow	Ground Water Conservation (Held at rural School)	2032
11.	22.7.2018	Prof.Venktesh Dutta	Lucknow University, Lucknow	Ground Water Awareness Held at Indira Gandhi Pratisthan	2500
12.	29. 8. 2018	Dr. V.P. Gaur	Director Rajya bhasha Ministry of Culture New Delhi	Hindi Humari Rajya Bhasha	28
13.	20.9. 2018	P.K. Srivastava	Former Scientist CDRI Lucknow	Sciencetoon	155
14.	02. 10. 2018	Dr. V.K. Joshi	Former Director GSI, Lucknow	Health and sanitation	200
15.	02. 10. 2018	Dr. R.D. Gaur	Scientific Officer CST, Lucknow	Innovation and Science	180
16.	31. 10. 2018	Dr. K. Prasad	Former Head History Department Lucknow University	Biography of Patel	200
17.	02. 4. 2018	Dr. Shripati Mishra	I.P.S Vigilance Establishment Gomti Nagar, Lucknow	Corruption	200
18.	19-21 nov. 2018	Dr. H.K Palibal and Prof. R.K. Singh	Director IET, Lucknow and Vice-chancellor Lucknow University	Emerging science	450
19.	23.12.2018	Dr. P. Jagganath	Chairman Surgical Oncology Lilavati Hospital Mumbai	Looking Back Over Three Decades Looking Forward	250
20.	29.12.2018	Mr. R.K. Awasthi	Teacher St. Xavier school Agra	Physics is Fun	205

21.	31.12.2018	P.K. Seth	Senior Consultant Biotech Park Lucknow	Awareness towards New Nation	205
22.	29.12.2018	Dr.Raj Mehrotra	Project Co ordinator Regional Science city Lucknow	Learning By Doing	205
23.	29.12.2018	Dr. Santosh Shukla	Secretary National Academy of science India, Allahabad	Creativity	205
24.	31.12.2018	Dr. Manvendra Tripathi	Physics Deptt., CMP College Allahabad	Mathematics	205
25.	31.12.2018	Dr. V.P. Kamboj	Former Director CDRI Lucknow	The Scientific Attitude	205
26.	22.1.2019	Dr. Raj Mehrotra	Project Co-ordinator Regional Science city Lucknow	Chemistry and living	35
27.	20.2.2019	Sri. P.K. Srivastava	Former Director CDRI Lucknow	Biotechnology	150
28.	28.2.2019	Prof. M.M. Verma	Physics Deptt. Lucknow University	Dark Secret of Universe	150



S. No.	Date	Topic of the Lecture	Name of the speaker	No. of Audiences
1.	18.04.2018	Indian Heritage	Dr. Sukhdev Saini, Professor, Ancient History Department, Kurukshetra University, Kurukshetra	400
2.	21.04.2018	Management of Water Resources	Dr. Omvir Singh, Professor Department of Geography Kurukshetra University, Kurukshetra	500
3.	11.05.2018	Development of Technology: Its Advantages & Disadvantages	Dr. Naresh Kumar, Department of Geology, Assistant Professor, Kurukshetra University Kurukshetra	300
4.	18.05.2018	Museums and Cultural Landscapes	Dr. Maha Singh Punia, Curator Dharohar Museum, Kurukshetra University, Kurukshetra	250
5.	21.06.2018	Yoga for Happiness	Dr. Anand Jaiswal, Assistant Professor Department of Fine Arts Kurukshetra University, Kurukshetra	50
6.	21.06.2018	Yoga for Peace & Prosperity	Dr. Rajni Bali, Yoga Trainer, Department of Physical Education, Kurukshetra University Kurukshetra	50
7.	27.09.2018	Swachh Bharat: Cleanliness -Health & Hygiene	Dr. Ashish Aneja, Medical Officer, University Health Centre Kurukshetra University, Kurukshetra	300
8.	19.10.2018	Introduction to Aerospace	Sh. Pon Maa Krishan, President Society of Aeronautical Engineers Tirunelveli	150
9.	31.10.2018	Life & Works of Sardar Vallabhbhai Patel	Dr. Amarjeet Singh, Chairman Department of History Kurukshetra University, Kurukshetra	200
10.	10.11.2018	Science, a Human Right	Dr. Shyam Kumar, Dean Academics & Professor of Physics Kurukshetra University, Kurukshetra	300
11.	17.11.2018	Space Science Exploration	Mr. Ralf Heckel Director, ISEI Germany	300
12.	17.11.2018	Space Science Exploration in India	Mr. Navdeep Singh Director, Tec.Mantra Labs, India	300
13.	25.11.2018	Developmental Psychology, Guidance & Counseling Programme	Dr. Rohtash Singh, Chairman, Department of Psychology Kurukshetra University, Kurukshetra	200
14.	07.02.2019	Paani Ki Kahani	Dr. A. R. Choudhri, Director, Centre of excellence for research on Sarasvati River Kurukshetra University, Kurukshetra	200

15.	12.02.2019	Connecting Ancient Concepts with Modern for Seeing the Human Body	Dr.Bhaswati Bhattacharya, MPH, MD, PhD Clinical Asst Professor of Medicine Weill Cornell Medical College, New York	200
16.	28.02.2019	Role of Science & Technology for Human Welfare	Dr. A. R. Chaudhary, Chairman Department of Geology, Kurukshetra University, Kurukshetra	300



COMMITTEE MEMBERS (2018-19)

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
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	11.	Shri Anurag Kumar Curator 'G', National Science Centre Pragati Maidan, Near Gate No.1 Bhairon Marg, New Delhi- 110001
5.	Shri Chander Mohan Former Director Vigyan Prasar, Qutab Institutional Area C-24, Behind Qutab Hotel Hauz Khas, 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.	Shri Hardeep Kumar Alagh 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 D. Rama Sarma Director, National Science Centre Pragati Maidan, Near Gate No.1, Bhairon Marg, New Delhi	Member
10)	Shri A.D. Choudhury Director General National Council of Science Museums Sector-V, Block-GN, Bidhan Nagar, Kolkata	Member
11)	Shri Anurag Kumar Curator 'G', National Science Centre Pragati Maidan, Near Gate No.1, Bhairon Marg, New Delhi	Member
12)	Shri V.S. Sharma Curator 'F', National Science Centre Pragati Maidan, Near Gate No.1, Bhairon Marg, New Delhi	Member Secretary

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-208 018,UP	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, (Ekta Vihar), Lucknow-226 024	Member Secretary

1)	Dr. Satish Kumar Director National Institute of Technology Kurukshetra-136119, Haryana	Chairman
2)	Dr. V.M. Murthy Professor, Department of Instrumentation Kurukshetra University, Kurukshetra-136119, Haryana	Member
3)	Shri Sanyam Garg Chief Executive Officer Kurukshetra Development Board Kurukshetra-136118, Haryana	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-136119, Haryana	Member
9)	Smt. Geetika Jasuja Principal, DAV Public School Sector-3, Urban Estate, Kurukshetra-136118, Haryana	Member
10)	Dr. Maha Singh Poonia Curator, Dharohar, Haryana Cultural Museum Kurukshetra University Kurukshetra-136119, Haryana	Member
11)	Shri D. Rama Sarma Director, National Science Centre Near Gate No. 2, Pragati Maidan, New Delhi-110001	Member
12)	Shri K.S. Nehru Project Coordinator Kurukshetra Panorama & Science Centre Kurukshetra 136118, Haryana	Member Secretary



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