

कार्यकलाप प्रतिवेदन

Activity Report

2015-2016



NATIONAL SCIENCE CENTRE

(NATIONAL COUNCIL OF SCIENCE MUSEUMS)

MINISTRY OF CULTURE, GOVERNMENT OF INDIA

Pragati Maidan, Near Gate No.1, Bhairon Marg, New Delhi-1

कार्यकलाप प्रतिवेदन Activity Report 2015-16

NATIONAL SCIENCE CENTRE

Near Gate no-1, Pragati Maidan, New Delhi - 110 001
Phone : 23371945, 23371893, Fax : 23371263
E-mail: educationnscdelhi@gmail.com, ncsd101@gmail.com
Website: www.nscdelhi.org, www.nscdelhi.gov.in

REGIONAL SCIENCE CITY

Sector-E (Ekta Vihar), Aliganj Extension
Lucknow - 226 024 (U.P.)
Phone:- 0522-2327833, Telefax: 0522-2321804
Email : rsclu89@sancharnet.in, Website: www.rsclucknow.org

KURUKSHETRA PANORAMA & SCIENCE CENTRE

Pehowa Road, Kurukshetra - 136 118 (Haryana)
Phone:- 01744-291100, Telefax: 01744-292810
Email : kpsckkr01@rediffmail.in



With Best Wishes

A. S. MANEKAR
Director General

National Council of Science Museums

Ministry of Culture, Govt. of India
Sector-V, Block-GN
Bidhan Nagar
Kolkata-700 091

D. RAMA SARMA
Director

National Science Centre

(National Council of Science Museums)
Ministry of Culture, Govt. of India
Near Gate no-1, Pragati Maidan
New Delhi - 110 001

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निदेशक की कलम से

इस वर्ष का कार्यकलाप प्रतिवेदन - पंक्ति में पांचवां - जो व्यस्त गतिविधियों और उपलब्धियों से भरा है, को प्रस्तुत करना मेरे लिए सौभाग्य की बात है। वर्ष के दौरान राष्ट्रीय विज्ञान केंद्र, दिल्ली, आंचलिक विज्ञान नगरी, लखनऊ और कुरुक्षेत्र पैनोरमा एवं विज्ञान केंद्र, कुरुक्षेत्र की पूरी टीम ने निर्धारित लक्ष्यों को प्राप्त करने में लगातार काम किया है और जिसके कारण, हम विज्ञान धाम, देहरादून में एक विशिष्ट व अनूठे क्षेत्रीय विज्ञान केन्द्र का निर्माण कर उसे उत्तराखंड राज्य परिषद विज्ञान और प्रौद्योगिकी (यूसीओएसटी), उत्तराखंड सरकार को सौंप पाए। क्षेत्रीय विज्ञान केन्द्र, देहरादून का उद्घाटन 3 फरवरी 2016 को डॉ. महेश शर्मा, माननीय पर्यटन और संस्कृति मंत्री, भारत सरकार व श्री हरीश रावत, माननीय मुख्यमंत्री, उत्तराखंड ने किया। इस अवसर पर श्री सुरेन्द्र सिंह नेगी, माननीय मंत्री, विज्ञान एवं प्रौद्योगिकी विभाग, उत्तराखंड सरकार; श्री सहदेव एस. पुंधीर, क्षेत्रीय विधायक व राज्य एवं केन्द्र सरकार के कई गणमान्य व्यक्तियों की गरिमापूर्ण उपस्थिति थी।

आंचलिक विज्ञान नगरी, लखनऊ ने राष्ट्रीय विज्ञान केंद्र, दिल्ली के सक्रिय सहयोग से रा.वि.सं.प. के अंतर्गत उत्तर भारत में द्वितीय 'नवप्रवर्तन हब' की स्थापना की। इस सुविधा का उद्घाटन डॉ. सी. एस. नौटियाल, निदेशक, एन.बी.आर.आई. द्वारा 4 फरवरी 2016 को सम्पन्न हुआ। इस अवसर पर श्री जी. एस. रौतेला, पूर्व महानिदेशक, रा.वि.सं.प. व अन्य गणमान्य अतिथि तथा लखनऊ के वैज्ञानिक समुदाय के लोग उपस्थित थे। आ.वि.न., लखनऊ की 'बच्चों की दीर्घा' का नवीनीकरण कार्य हो चुका था व अब पूर्ण होने के कगार पर है। आ.वि.न., लखनऊ ने क्षेत्रीय विज्ञान केन्द्र, देहरादून के लिए 600 वर्गमीटर में फैली 'प्रौद्योगिकी के सीमान्त' नामक स्थायी प्रदर्शनी का निर्माण किया।

केन्द्र ने विज्ञान एवं प्रौद्योगिकी परिषद, उत्तर प्रदेश के लिए खगोल विज्ञान पर दो तारामंडलों - रामपुर व गोरखपुर, के निर्माण की जिम्मेदारी ली और इन्हें सफलतापूर्वक पूर्ण कर, उद्घाटन उपरांत राज्य सरकार को सौंप दिया। किया। आर्यभट्ट तारामंडल, रामपुर, उत्तर प्रदेश में 310 वर्ग मीटर में फैली 32 इंटरैक्टिव प्रदर्शों की खगोल विज्ञान दीर्घा का उद्घाटन 3 अप्रैल 2015 को श्री आजम खान, माननीय कैबिनेट मंत्री, उत्तर प्रदेश सरकार द्वारा किया गया। वीर बहादुर तारामंडल, गोरखपुर, उत्तर प्रदेश में 200 वर्ग मीटर में फैली, 21 इंटरैक्टिव प्रदर्शों की एक दूसरी खगोल विज्ञान दीर्घा का उद्घाटन डॉ. मनोज कुमार पांडेय, माननीय विज्ञान एवं प्रौद्योगिकी मंत्री, उत्तर प्रदेश सरकार द्वारा 22 जनवरी 2016 को किया गया।

राष्ट्रीय विज्ञान केंद्र, दिल्ली में हम सभी के लिए एक महान अवसर है कि 9 जनवरी 2016 के दिन इस केन्द्र का रजत जयंती समारोह वर्ष आरंभ हुआ। विस्तृत योजना व कुशल संचालन द्वारा हम रा.वि.के., दिल्ली में नई ब्रांड सुविधाएँ खोलने में सफल हुए तथा पूरे वर्ष और रजत जयंती समारोह के समापन दिवस, 9 जनवरी 2017 तक कई अन्य सुविधाओं को खोलने हेतु कदम उठा चुके हैं। केन्द्र के रजत जयंती समारोह के प्रारम्भिक अवसर पर, एक नए मल्टीमीडिया प्रदर्शन, शीर्षक - 'संचार सागा: गुफा चित्रों से इंटरनेट तक' - 'प्राचीन समय से संचार प्रौद्योगिकी के वर्णित इतिहास' का उद्घाटन डॉ. मनोज कुमार पटारिया, अतिरिक्त महानिदेशक, प्रसार भारती, दूरदर्शन द्वारा 9 जनवरी 2016 को किया गया। केन्द्र ने रा.वि.सं.प. में पहली बार अपनी तरह की इस अनोखी सुविधा की अवधारणा, रूपरेखा सहित इसे विकसित किया। तीन प्रोजेक्टर का उपयोग कर, एक बड़ी घुमावदार स्क्रीन पर प्रक्षेपण से, ऑडियो-विजुअल एनीमेशन के संयोजन से दर्शक, प्रदर्शन के दौरान व्यापक भावना में डूब जाते हैं।

इसी श्रेणी में एक अन्य सुविधा, नव निर्मित 'न्यूक्लियर पावर हाल - राष्ट्र की सेवा में परमाणु' नामक दीर्घा, न्यूक्लियर पावर कार्पोरेशन ऑफ इंडिया लिमिटेड के सहयोग से विकसित की गई। इस दीर्घा का 16 जनवरी 2016 को डॉ. जितेंद्र सिंह, माननीय राज्य मंत्री (स्वतंत्र प्रभार), प्रधानमंत्री कार्यालय, कार्मिक, लोक शिकायत और पेंशन, परमाणु ऊर्जा विभाग, अंतरिक्ष विभाग एवं उत्तर-पूर्व क्षेत्र, ने उद्घाटन कर जनता को समर्पित किया। इस अवसर पर श्री शेखर बसु, अध्यक्ष, परमाणु ऊर्जा आयोग एवं सचिव, परमाणु ऊर्जा विभाग विशिष्ट अतिथि थे। श्री कैलाश चंद्र पुरोहित, अध्यक्ष एवं प्रबंध निदेशक, न्यूक्लियर पावर कार्पोरेशन ऑफ इंडिया लिमिटेड की उपस्थिति ने समारोह की शोभा बढ़ाई। यह हाल राष्ट्रीय राजधानी में उत्तर भारत की पहली स्थायी प्रदर्शनी है। 700 वर्ग मीटर में फैली हुई इस दीर्घा में 60 स्थायी प्रदर्श हैं जो परमाणु ऊर्जा के विभिन्न पहलुओं को दर्शाते हैं। 'परमाणु ऊर्जा

प्लांट सुरक्षा' एवं 'जन कल्याण के लिए इसके अनुप्रयोग' विषय पर विशेष ध्यान केन्द्रित किया गया है। 'नाभिकीय औषधि', 'खाद्य विकिरण चिकित्सा' व 'प्रतिदिन उपयोगी परमाणु ऊर्जा के कई अन्य अनुप्रयोग' पर आधारित प्रदर्श दिखाए गए हैं।

एक चुनौतीपूर्ण वातावरण के बीच, राष्ट्रीय विज्ञान केन्द्र ने इस वर्ष, बाहरी विस्तारित कार्यक्रम में आगंतुकों सहित 7,98,455 दर्शकों के आगमन को संभव बनाया। इसी प्रकार आंचलिक विज्ञान नगरी, लखनऊ में इस अवधि के दौरान 5 लाख का आंकड़ा पार कर 5,63,017 दर्शकों का आगमन हुआ। बाहरी विस्तारित कार्यक्रमों में आए आगंतुकों सहित, कुरुक्षेत्र पैनोरमा एवं विज्ञान केन्द्र, कुरुक्षेत्र ने इस अवधि के दौरान 20,32,769 दर्शकों का स्वागत किया। मुझे यह सूचित करते हुए अत्यंत प्रसन्नता हो रही है कि इस वर्ष राष्ट्रीय विज्ञान केन्द्र, दिल्ली; आंचलिक विज्ञान नगरी, लखनऊ और कुरुक्षेत्र पैनोरमा एवं विज्ञान केन्द्र, कुरुक्षेत्र के इनडोर और आउटडोर गतिविधियों में आए दर्शकों की कुल संख्या तीस लाख से अधिक रही।

राष्ट्रीय विज्ञान केंद्र, दिल्ली इस समय हिमाचल प्रदेश के पालमपुर जिले में एक उप-क्षेत्रीय विज्ञान केन्द्र को विकसित करने में व्यस्त है जो रा.वि.सं.प. के प्रत्यक्ष प्रबंधन के अंतर्गत रहेगा। रा.वि.सं.प. को भूमि के हस्तांतरण के उपरांत एक वास्तुशिल्प कंपनी को नियुक्त किया गया है और श्रृंखला कड़ी बाड़, सुरक्षा चौकी और गेट का निर्माण कार्य पूरा हो चुका है। मुख्य इमारत के निर्माण के लिए निविदा कार्य प्रगति पर है।

इस वर्ष मलेशिया में रा.वि.के., दिल्ली द्वारा विकसित 'डिजिटल भारत का उदय' प्रदर्शनी का दो स्थानों पर आयोजन हुआ। इस प्रदर्शनी का उद्घाटन पेनांग, मलेशिया में 19 अप्रैल 2015 को पेनांग, मलेशिया के मुख्यमंत्री द्वारा किया गया। इस अवसर पर पेनांग के उप मुख्यमंत्री व मलेशिया में भारत के उच्चायुक्त, उच्चायोग, भारत, पेनांग उपस्थित थे। इसके बाद इसे मलाया विश्वविद्यालय, कुआलालुम्पुर में आयोजित किया गया जहां इसका उद्घाटन उद्घाटन महामहीम दातुक सेरी डॉ. अहमद ज़ाहिद हामिदी, माननीय गृह मंत्री, मलेशिया के द्वारा 16 मई 2015 को किया गया। तत्पश्चात यह प्रदर्शनी श्रीलंका में आयोजित की गई जहां इसका उद्घाटन श्रीमती सुषमा स्वराज, माननीय विदेश मंत्री, भारत सरकार द्वारा 6 फ़रवरी 2016 को भंडारनायक मेमोरियल अंतर्राष्ट्रीय सम्मेलन हॉल, कोलंबो में किया गया। इस अवसर पर उपस्थित उच्चाधिकारियों में डॉ. एस. जयशंकर, विदेश सचिव, भारत सरकार; श्री वाई. के. सिन्हा, उच्चायुक्त, भारत, कोलंबो, श्रीलंका; श्री अरिंदम बागची, उप उच्चायुक्त, भारत, कोलंबो, श्रीलंका उपस्थित थे।

केन्द्र ने सम्मिलित संग्रहालय, आस्ट्रेलिया के साथ सहयोग किया और 6 से 9 अगस्त, 2015 तक 'संग्रहालय एक नागरिक स्थान' विषय पर 8वां सम्मिलित संग्रहालय अंतरराष्ट्रीय सम्मेलन आयोजित किया। सम्मेलन का उद्घाटन 6 अगस्त 2015 को श्री प्रणब मुखर्जी, भारत के माननीय राष्ट्रपति ने राष्ट्रपति भवन के रमणीय सांस्कृतिक केन्द्र में किया। इस अवसर पर नोबेल शांति पुरस्कार विजेता श्री कैलाश सत्यार्थी की गरिमापूर्ण उपस्थिति थी। सम्मेलन में 182 प्रतिनिधियों ने भाग लिया जिसमें 21 देशों के 59 प्रतिनिधि थे। देशों के नाम हैं - आस्ट्रेलिया, चीन, डेनमार्क, जर्मनी, इस्राइल, इटली, जापान, न्यू जीलैंड, फिलीपींस, पोलैंड, कतर, दक्षिण अफ्रीका, श्रीलंका, स्वीडन, ताइवान, तुर्की, संयुक्त अरब अमीरात, यूनाइटेड किंगडम, यूनाइटेड अरब एमीरात, संयुक्त गणराज्य तंज़ानिया और संयुक्त राज्य अमेरिका। सम्मेलन में भारत के 123 प्रतिनिधि थे।

दर्शकों के लिए उत्तरी ज़ोन ने विभिन्न शैक्षिक कार्यक्रमों का आयोजन किया। केन्द्र ने 8 अक्टूबर, 2015 को 'प्रकाशोपयोग:संभावनाएं एवं चुनौतियाँ' विषय पर राष्ट्रीय विज्ञान संगोष्ठी आयोजित किया जिसमें भारत के सभी 36 राज्य/केन्द्र शासित प्रदेश स्तर के विजेता छात्रों ने भाग लिया। संगोष्ठी का उद्घाटन पदम विभूषण प्रोफेसर यशपाल, प्रख्यात वैज्ञानिक ने किया। प्रोफेसर तलत अहमद, कुलपति, जामिया मिलिया इस्लामिया विशिष्ट अतिथि थे। उद्घाटन समारोह के अवसर पर मुख्य अतिथि ने एक स्मारिका का विमोचन किया जिसमें प्रख्यात दिग्गजों के संदेश थे। संध्या में हुए समापन व पुरस्कार वितरण समारोह में मुख्य अतिथि, डॉ. हर्ष वर्धन, माननीय विज्ञान एवं प्रौद्योगिकी मंत्री, भारत सरकार ने प्रतिभागियों को पुरस्कार व श्रेष्ठता प्रमाण-पत्र देकर सम्मानित किया। इस अवसर पर डॉ. कविता ए. शर्मा, अध्यक्ष, साउथ एशियन विश्वविद्यालय, नई दिल्ली विशिष्ट अतिथि थीं।

उत्तरी राज्यों/केन्द्र शासित प्रदेशों के रा.शै.अ.प्र.प./रा.वि.शि.सं./रा.शि.सं. के साथ सहयोग कर केन्द्र ने **उत्तरी भारतीय विज्ञान नाटक का आयोजन 15 दिसम्बर 2015** को किया। **उत्तरी भारतीय विज्ञान मेला** भी उत्तरी राज्यों/केन्द्र शासित प्रदेशों के रा.शै.अ.प्र.प./रा.वि.शि.सं./रा.शि.सं., केंद्रीय विद्यालय संगठन, जवाहर नवोदय विद्यालय समिति और केंद्रीय माध्यमिक शिक्षा बोर्ड, नई दिल्ली के साथ सहयोग कर **18 से 20 जनवरी 2016** तक आयोजित किया। **4-दिवसीय नवप्रवर्तन महोत्सव का आयोजन 21 से 24 जनवरी 2016** तक किया गया। महोत्सव का उद्घाटन प्रोफेसर समीर ब्रह्मचारी, पूर्व महानिदेशक, वैज्ञानिक और औद्योगिक अनुसंधान परिषद द्वारा सम्पन्न हुआ और उन्होंने 'नवप्रवर्तन: बेमेल बिन्दुओं का मेल' विषय पर लोकप्रिय विज्ञान व्याख्यान दिया। विज्ञान प्रसार के सहयोग से **विज्ञान फिल्म निर्माण पर एक इंटरैक्टिव राष्ट्रीय कार्यशाला 24 से 26 फरवरी, 2016** तक आयोजित की गई। कार्यशाला में विभिन्न महाविद्यालयों व संस्थानों के 70 प्रतिभागियों ने भाग लिया।

केन्द्र ने **4 से 8 अगस्त 2015** तक **भारतीय प्रौद्योगिकी संस्थान, दिल्ली** में विज्ञान एवं प्रौद्योगिकी मंत्रालय एवं पृथ्वी विज्ञान मंत्रालय द्वारा संयुक्त रूप से आयोजित कार्यक्रम '**भारत अंतर्राष्ट्रीय विज्ञान महोत्सव (आई.आई.एस.एफ. 2015)**' में भाग लिया और इस मेले ने **विश्व रिकार्ड गिनीज बुक में प्रविष्टि दर्ज** की। कार्यक्रम के दौरान राष्ट्रीय विज्ञान संग्रहालय परिषद के स्टाल का 60,000 से अधिक दर्शकों ने दौरा किया। केन्द्र ने **8 से 10 फरवरी 2016** के दौरान राष्ट्रीय स्तर पर आयोजित **केंद्रीय माध्यमिक शिक्षा बोर्ड विज्ञान प्रदर्शनी** में भाग लिया। प्रदर्शनी का उद्घाटन श्री वाई.एस.के. शशु कुमार, अध्यक्ष, केन्द्रीय माध्यमिक शिक्षा परिषद, दिल्ली द्वारा किया गया। केन्द्र ने अगस्त्या प्रतिष्ठान के साथ मिलकर '**अन्वेषण 2016 - राष्ट्रीय स्तर पर विज्ञान एवं अभियांत्रिकी मेले**' का आयोजन किया जिसमें विज्ञान एवं अभियांत्रिकी के 25 चयनित नवोन्मेष प्रोजेक्ट को प्रदर्शित किया गया। इस मेले का आयोजन 9 से 11 फरवरी 2016 तक किया गया। इस कार्यक्रम का उद्घाटन पदम विभूषण डॉ. वी. के. आत्रे, वैज्ञानिक एवं पूर्व प्रमुख, डी.आर.डी.ओ. की विशिष्ट उपस्थिति में **प्रोफेसर आशुतोष शर्मा, सचिव, विज्ञान एवं तकनीकी विभाग, भारत सरकार के द्वारा** किया गया।

केन्द्र में **अंतर्राष्ट्रीय जलवायु परिवर्तन शिखर सम्मेलन** पर अगस्त और सितंबर 2015 में नगर एवं क्षेत्रीय स्तरीय प्रतियोगिताओं का आयोजन हुआ। इसे **विज्ञान एवं प्रौद्योगिकी विज्ञान केन्द्र संस्था (ए.एस.टी.सी.), यू.एस.ए. के सहयोग** से आयोजित किया गया। **अंटलांटिस रिसर्च, नयी दिल्ली** के सहयोग से छात्रों के लिए एक विशेष कार्यक्रम '**गोइंग बियोड**' का आयोजन किया गया। कार्यक्रम का उद्देश्य छात्र समुदाय में अनुभव आधारित विज्ञान शिक्षा को बढ़ावा देना था। **प्रख्यात नासा इंजीनियर - हीथर पॉल और अंतर्राष्ट्रीय विज्ञान शिक्षक - सैम गिब्स** ने संयुक्त प्रदर्शन व्याख्यान दिया। कार्यक्रम का आयोजन 28 से 30 जनवरी 2016 तक किया गया जिसमें लगभग 1200 छात्रों ने भाग लिया। केन्द्र ने 23 फरवरी 2016 को **प्रोफेसर ए. रॉबिन वालेस, ऊर्जा प्रणाली संस्थान, इंजीनियरिंग स्कूल, एडिनबर्ग विश्वविद्यालय, यू.के.** द्वारा '**अल्प कार्बन भविष्य के लिए अक्षय ऊर्जा**' विषय पर एक लोकप्रिय विज्ञान व्याख्यान का आयोजन किया।

आंचलिक विज्ञान नगरी, लखनऊ ने 'स्पोर्ट्स में विज्ञान' प्रदर्शनी पर प्रदर्श बनाने आरंभ कर दिए हैं। यह केन्द्र लोकप्रिय विज्ञान दीर्घा पर कार्य कर रहा है। इस वर्ष 'गणित समझना' विषय पर नई भ्रमणशील विज्ञान प्रदर्शनी को शुरू किया गया। एस्ट्रोलैब, आकर्षक विज्ञान, अभिनव शिल्प, मॉडल रॉकेटरी इत्यादि पर विभिन्न नए किट्स विकसित किए। 'टू फ्लाइ' एवं 'अलास्का' पर नए साईमैक्स शो आरंभ किए। भ्रमणशील प्रदर्शनी '**स्टेटिस्टिक्स ऑन वर्क्स**' का उद्घाटन माननीय श्री अजय कुमार गुप्ता, उप महानिदेशक, राष्ट्रीय प्रतिदर्श सर्वेक्षण कार्यालय, लखनऊ ने **18 मार्च 2016** को किया। छात्रों के लिए जलवायु परिवर्तन - प्रकृति की सरसराहट' विषय पर संगोष्ठी का आयोजन किया गया। राष्ट्रीय मस्तिष्क अनुसंधान केन्द्र, हरियाणा के सहयोग से मस्तिष्क जागरूकता कार्यक्रम का आयोजन किया गया जिसका लक्ष्य था जन जागरण में मस्तिष्क अनुसंधान के लाभों एवं प्रगति के बारे में जागरूक करना। अंतर्राष्ट्रीय जैव विविधता दिवस (22 मई) के अवसर पर **17 से 21 मई 2015 तक सप्ताह भर चले जैव विविधता पर्व** के दौरान विभिन्न शैक्षिक कार्यक्रम, क्रियाकलाप व प्रतियोगिताओं का आयोजन हुआ।

आं.वि.न., लखनऊ ने अक्टूबर 2015 में **जिला विज्ञान क्लब, लखनऊ** के सहयोग से स्कूली बच्चों के लाभ हेतु **साईबर सुरक्षा जागरूकता कार्यक्रम** आयोजित किया। विज्ञान एवं प्रौद्योगिकी परिषद, लखनऊ के साथ मिलकर 27 से 29 फरवरी 2016 तक 3-दिवसीय कार्यक्रम - 'नवप्रवर्तन प्रोजेक्ट प्रदर्शन' का आयोजन किया। जनवरी 2016 में 'तोड़, फोड़, जोड़' पर 2-दिवसीय कार्यशाला का आयोजन हुआ जिसमें सरकारी स्कूल एवं आई.टी.आई. के 500 से

अधिक छात्र-छात्राओं ने भाग लिया। मई 2015 में 'रसोई के कूड़े से हर्बल कॉस्मेटिक्स बनाना' विषय पर कार्यशाला के दौरान रसोई घर के कचरे से कॉस्मेटिक एवं स्वस्थ उत्पाद बनाने पर प्रदर्शन हुआ। 21 सितंबर 2015 को दिव्यांग बच्चों के लिए मनोरंजन मेले का आयोजन किया गया जिसमें लगभग 50 बच्चों ने 'पोस्टर बनाओ व 'पहेली हल करो' प्रतियोगिता में भाग लिया। आंचलिक विज्ञान नगरी, लखनऊ ने स्मृति उपवन, लखनऊ में 27 जनवरी से 7 फरवरी 2016 तक आयोजित 'लखनऊ महोत्सव' में भाग लिया जिसका आयोजन जिला प्रशासन, उत्तर प्रदेश सरकार तथा विज्ञान एवं प्रौद्योगिकी परिषद द्वारा संयुक्त रूप से किया गया था। आंचलिक विज्ञान नगरी के स्टॉल पर 25000 दर्शक आए।

कुरुक्षेत्र पैनोरमा एवं विज्ञान केन्द्र, कुरुक्षेत्र दर्शकों को संलग्न रखने हेतु मुख्य रूप से गतिविधियों और कार्यक्रमों के आयोजन पर केंद्रित रहा। 5 जून, 2015 को विश्व पर्यावरण दिवस के अवसर पर कुरुक्षेत्र पैनोरमा एवं विज्ञान केन्द्र, कुरुक्षेत्र ने पर्यावरण मार्च, चित्रकारी प्रतियोगिता, पर्यावरण प्रश्नोत्तरी, पेड़ - पौधों की पहचान प्रतियोगिता तथा 'जलवायु परिवर्तन और पर्यावरण विनाश: कारण, उपचार और चुनौतियां' विषय पर लोकप्रिय विज्ञान व्याख्यान का आयोजन किया। अंतर्राष्ट्रीय युवा जलवायु शिखर सम्मेलन 2015 के अंतिम दौर का आयोजन 4 सितंबर 2015 को हुआ। छात्रों ने कम्प्यूटर स्लाइड्स द्वारा 'जलवायु परिवर्तन और ऊर्जा संकट' के विषयों पर अनुसंधान उन्मुख प्रस्तुतीकरण दिया। कुरुक्षेत्र पैनोरमा एवं विज्ञान केन्द्र ने शिल्प मेले में भाग लिया। 11 नवंबर से 24 दिसंबर 2015 तक चले इस स्थानीय मेले का आयोजन कुरुक्षेत्र प्रशासन ने किया। मनोरंजक विज्ञान के कुछ चुनींदा पोर्टेबल प्रदर्श व विज्ञान प्रदर्शन व्याख्यान इस मेले का हिस्सा थे। 17 नवंबर से 21 दिसंबर 2015 तक कुरुक्षेत्र प्रशासन द्वारा आयोजित एक और स्थानीय मेले 'गीता जयंती महोत्सव' में भी हिस्सा लिया। इस अवधि के दौरान 4.50 लाख से अधिक लोगों ने प्रदर्शनी का दौरा किया।

समाप्त करने से पहले मैं अपने कृतव्यों से पूर्ण नहीं होऊंगा जब तक कि मैं रा.वि.के. दिल्ली, आं.वि.न. लखनऊ तथा कु.पै.वि.के. कुरुक्षेत्र के अपने साथी अधिकारियों एवं कर्मचारियों के अथक प्रयासों को श्रेय नहीं दूंगा जिनके कारण हम अपने लक्ष्यों को प्राप्त कर सके। मैं अपने मुख्यालय राष्ट्रीय विज्ञान संग्रहालय परिषद, राष्ट्रीय विज्ञान केन्द्र की कार्यकारिणी समिति, कार्यक्रम व योजना समिति का एवं आंचलिक विज्ञान नगरी, लखनऊ और कुरुक्षेत्र पैनोरमा एवं विज्ञान केन्द्र, कुरुक्षेत्र की स्थानीय सलाहकार समिति का आभार प्रकट करता हूँ।

आने वाले वर्षों में अनेक और सफलताओं को आपके सम्मुख प्रस्तुत करने की आशा के साथ।

(डी. रामा शर्मा)



From the Director's Desk

It gives me a great pleasure in presenting this year's activity report – fifth in a row – which is full of hectic activities and achievements. During the year the entire team of National Science Centre, Delhi, Regional Science City, Lucknow and Kurukshetra Panorama & Science Centre, Kurukshetra worked relentlessly in achieving the targets laid down and thus, we could complete and handover a unique and one of its kind Regional Science Centre built at Vigyaan Dhaam, Dehradun for UCOST. The **Regional Science Centre, Dehradun** was **inaugurated by Dr. Mahesh Sharma, Hon'ble Minister of Tourism & Culture, Govt. of India and Shri Harish Rawat, Hon'ble Chief Minister, Uttarakhand** in the august presence of Shri Surendra Singh Negi, Hon'ble Minister, S & T, Govt. of Uttarakhand; Shri Sahdev S. Pundhir, Regional MLA and several dignitaries of state and central government **on 3rd February 2016**.

The Regional Science City, Lucknow with the active support from NSC, Delhi has set-up the second Innovation Hub in north India under NCSM. This facility was inaugurated on 4th February 2016 by **Dr. C. S. Nautiyal, Director, NBRI** in presence of Shri G S Rautela, former DG, NCSM and other dignitaries and scientific community of Lucknow. The Children Gallery of RSC, Lucknow was also renovated fully and it is nearing completion. RSC, Lucknow has also developed a permanent exhibition on "Frontiers of Technology" covering a floor area of 600 sq. m. for RSC, Dehradun.

The centre had taken the responsibility of building two expositions on astronomy – one at Rampur and the other at Gorakhpur for Uttar Pradesh Council of Science and Technology – and these have been completed, inaugurated and handedover to the state government successfully. Astronomy gallery measuring 310 sq mtrs and comprising of 32 interactive exhibits in Aryabhat Planetarium, Rampur, Uttar Pradesh was inaugurated on 3rd April 2015 by **Sh. Azam Khan, Hon'ble Cabinet Minister, Government of Uttar Pradesh**. Another gallery on Astronomy measuring 200 sq mtrs and comprising of 21 interactive exhibits at Veer Bahadur Planetarium, Gorakhpur, Uttar Pradesh was inaugurated on 22nd January 2016 by **Dr. Manoj Kumar Pandey, Hon'ble Minister of Science & Technology, Government of Uttar Pradesh**.

It is a great occasion for all of us at National Science Centre, Delhi as the centre entered its Silver Jubilee year on 9th January 2016. With elaborate planning and meticulous execution, we could open several brand new facilities at NSC, Delhi and taken actions for opening several of them throughout the year till 9th January 2017, the concluding day of the Silver Jubilee celebrations. On the occasion of the beginning of **Silver Jubilee celebrations of the Centre**, a new multimedia show titled '**The Communication Saga: From Cave paintings to Internet**' describing the history of communication technology through ages was **inaugurated on 9th January 2016 by Dr. Manoj Kumar Patariya, Additional Director General, Prasar Bharti, Doordarshan**. The facility, first of its kind in NCSM – a multimedia projection on a 36' long x 9.5' high using multiple projectors developed in-house that provide immersive feeling to viewers – was conceptualized, designed and developed by the Centre.

This was followed by another facility developed, in collaboration with **Nuclear Power Corporation of India Limited (NPCIL)**, a new gallery titled '**Hall of Nuclear Power - Atoms Serving the Nation**'. The gallery was **inaugurated and dedicated to public on 16th January 2016 by Dr. Jitendra Singh, Hon'ble Minister of State (Independent Charge), PMO, MoPPP, Department of Atomic Energy, Department of Space & NE Region**. Shri Sekhar Basu, Chairman, Atomic Energy Commission & Secretary, Department of Atomic Energy was the Guest of Honour on the occasion. Shri Kailash Chandra Purohit, Chairman & Managing Director, NPCIL graced the occasion. This Hall is North India's first permanent exhibition on nuclear power built in the national capital. The exhibition is spread over an area of about 700 sq. m. with over 60 permanent exhibits –

covering various aspects of nuclear energy, with prime focus on nuclear power plant safety and applications for human welfare, which include nuclear medicine, food irradiation, as well as several other day-to-day applications of nuclear energy.

Amidst a challenging market, National Science Centre, Delhi garnered a stupendous **footfall of 7,98,455** including visitors in outreach programmes. Similarly the Regional Science City, Lucknow also surpassed the 5 lakh mark by attaining a **footfall of 5,63,017** during this period. Including visitors in outreach programmes, Kurukshetra Panorama & Science Centre received **20,32,769 visitors** during this period. I am delighted to inform that total attendance in indoor & outdoor activities of National Science Centre, Delhi, Regional Science City, Lucknow and Kurukshetra Panorama & Science Centre, Kurukshetra have **surpassed three million mark** during this year.

The National Science Centre, Delhi is currently working on development of a **Sub-Regional Science Centre at Palampur** in Himachal Pradesh which will be under the direct management of NCSM. Subsequent to transferring of land to NCSM, architectural firm was appointed and construction of chain link fencing, security post and gate has been completed. Tendering work for construction of main building is in progress.

The '**Rise of Digital India**' exhibition developed by NSC, Delhi was organized in two venues in Malaysia during this year. It was inaugurated in **Penang, Malaysia on 19th April 2015** by the **Chief Minister, Penang, Malaysia** in presence of Deputy Chief Minister of Penang and the High Commissioner, High Commission, India, Penang. Later it was held in University of Malaya **Kualalumpur** which was **inaugurated by H.E. Datuk Seri Dr Ahmad Zahid Hamidi, Hon'ble Minister of Home Affairs, Malaysia on 16th May 2015**. This exhibition was then moved to Sri Lanka where it was **inaugurated by the Hon'ble Minister of External affairs Smt. Susma Swaraj on 6th February 2016 at BMICH, Colombo** in presence of Dr. S. Jaishankar, Foreign Secretary, Government of India, Shri Y. K. Sinha, High Commissioner of India, Colombo, Sri Lanka, Shri Arindam Bagchi, Dy. High Commissioner of India, Colombo, Sri Lanka.

The Centre collaborated with Inclusive Museums of Australia and organized **8th International Conference on the Inclusive Museum** on the theme "Museums as Civic Spaces" from **6th to 9th August 2015**. The inauguration of the conference was done in the gracious Cultural Centre of the President House on 6th August 2015 by **Shri Pranab Mukherjee, Hon'ble President of India** in the august presence of **Shri Kailash Satyarthi, Nobel Peace Laureate**. The conference was attended by 182 delegates out of which 59 participants came were from 21 countries namely, Australia, China, Denmark, Germany, Israel, Italy, Japan, New Zealand, Philippines, Poland, Qatar, South Africa, Sri Lanka, Sweden, Taiwan, Turkey, United Kingdom, United Arab Emirates, United Republic of Tanzania and USA. There were 123 delegates from India.

North Zone organized several educational programmes to engage visitors. The Centre organized **National Science Seminar on 8th October 2015** on the topic '**Harnessing Light: Possibilities & Challenges**' in which winners students from all the **36 states & UTs of India participated**. The seminar was **inaugurated by the Padma Vibhushan Prof. Yashpal, Eminent Scientist** in presence of **Prof. Talat Ahmad, Vice Chancellor, Jamia Milia Islamia**. The souvenir containing messages eminent luminaires was released during inauguration. **Dr. Harsh Vardhan, Hon'ble Minister of Science & Technology and Earth Sciences, Government of India** graced the valedictory & prize distribution function in the evening **as the chief guest** and awarded the prizes and certificates of merit to the participants. **Dr. Kavita A. Sharma, President, South Asian University, New Delhi** was present as the Guest of Honour.

The Centre organized **Northern India Science Drama** in collaboration with SCERT and SISE/SIE of northern states **on 15th December 2015**. **Northern India Science Fair** was organized

in collaboration with SCERT and SIE of northern states/UT, Kendriya Vidyalaya Sangathan, Jawahar Navodaya Vidyalaya Samiti and CBSE, New Delhi from **18th to 20th January 2016**. The Centre organized **4-days Innovation Festival from 21st to 24th January 2016**. The festival was **inaugurated by Prof. Samir Brahmachari, Former Director General, CSIR** and delivered a popular talk on 'Innovation: Connecting the Unconnected Dots'. An interactive **National Workshop on Science Film Making** was organized in collaboration with Vigyan Prasar from **24th to 26th February 2016**. 70 Participants from different colleges and institutes participated in this workshop.

The Centre participated in **India International Science Festival (IISF 2015)**, a joint event of Ministry of Science and Technology and Ministry of Earth Sciences, from **4th to 8th December 2015** at Indian Institute of Technology, Delhi which **registered an entry in the Guinness Book of World Records**. More than 60,000 visitors visited the stall of NCSM during the programme. The Centre participated in the **National Level CBSE Science Exhibition from 8th to 10th February, 2016** at a local school in Delhi. The exhibition was **inaugurated by Shri Y. S. K. Seshu Kumar, Chairman, CBSE, New Delhi**. The Centre collaborated with Agastya Foundation to organize **Anveshana 2016, a national level science & engineering fair** for selected 25 innovative projects from 9th to 11th February 2016. **Prof. Ashutosh Sharma, Secretary, Department of Science and Technology, Govt. of India** inaugurated the event in the august presence of Dr. V. K. Aatre, Padma Vibhushan, Scientist and former Head of DRDO.

The City level and Zonal level contest of the **International Climate Change Summit** were organized at the Centre in August-September 2015. This was organised **in association with Association of Science & Technology Science Centre (ASTC), USA**. The Centre in collaboration with **Atlantis Research, New Delhi** organized a special programme for school students titled '**Going Beyond**'. The objective of the programme was to promote experience based science learning among student community. **Renowned NASA Engineer-Heather Paul and International Science Educator-Sam Gibbs** together conducted demonstration lecture. The programme was organised from 28th to 30th January 2016 in which about 1200 students participated. The Centre organized a popular science **lecture on 'Renewable Energy for a Lower Carbon Future'** by **Prof. A. Robin Wallace, Institute of Energy Systems, School of Engineering, University of Edinburgh, UK** on 23rd February 2016.

RSC, Lucknow is developing an exhibition on Science of Sports for which they have already started making exhibits. This centre is also working on Popular science Gallery. New MSE exhibition on 'Understanding Mathematics' was launched during this year. Many new kits on Astrolab, Fascinating Science, Innovative craft, Model Rocketry were developed. New Scimax shows on 'To Fly' & 'Alaska' were launched. A travelling **exhibition on 'Statistics at Works'** was **inaugurated on 18th March 2016 by Shri Ajay Kumar Gupta, Dy. Director General, National Sample Survey Office, Lucknow**. A seminar on 'Climate Change: A Whisper of Nature' for school students was organized. Brain Awareness programme was organized in collaboration with National Brain Research Centre, Haryana aiming to increase public awareness about the progress and benefits of brain research. During a week long **Biodiversity Festival from 17th to 21st May 2015** to mark the International Biodiversity Day on 22nd May 2015, several educational programmes, activities and contests were conducted.

Cyber Security Awareness Programme for the benefit of school students and teachers was organized at **RSCL** in association with **District Science Club, Lucknow in October 2015**. 3-days event titled "Innovative Project display contest" was organized jointly with Council of Science and Technology, Uttar Pradesh from 27th to 29th February 2016. 2-days workshops on 'Tod, Fod, Jod' in January 2016 was organised in which more than 500 students from Govt. schools and ITI participated. During a **workshop on 'Making Herbal Cosmetics from the Waste from Kitchen'**

in May 2015, a demonstration on conversion process of waste material from fruits and vegetables to useful cosmetic and health products was conducted. The **Fun Festival for Divyang children** was organized on 21st September 2015. About 50 children participated in poster & puzzle solving contest. RSCL participated with science demonstrations and portable exhibits in '**Lucknow Mahotsava**' organized by District Administration, Govt. of UP under the banner of Council of Science & Technology, UP from 27th January to 7th February, 2016 at Smriti Upvan, Lucknow. About 25000 people visited RSCL stall during this period.

The Kurukshetra Panorama & Science Centre, Kurukshetra (KPSC) focuses mainly on activities and programmes to engage visitors. On the occasion of World Environment Day on 5th June 2015 KPSC Kurukshetra organized Environment March, Painting contest, Environment quiz, 'Tree & Plant Identification' contest & a **popular talk on 'Climate Change and Environment Destruction: Reason, Remedies and Challenges'**. The final round of the **International Youth Climate Summit 2015** was organised on 4th September 2015. Students delivered research oriented power point presentations on the topics of Climate Change and Energy Crisis. KPSC **participated in Craft Mela**, a local fair organized by Kurukshetra Administration from 11th November to 24th December 2015. Portable selected exhibits on Fun Science, science demonstration lecture were the part of exhibition. They also participated in **Geeta Jayanti Mahotsava**, a local fair organized by Kurukshetra Administration from 17th November to 21st December 2015. More than 4.50 Lakhs people visited the exhibition during the period.

Before I conclude, I will be failing in my duties, if I do not acknowledge the untiring efforts put in by my fellow officers and staff members of NSCD, RSCL and KPSC in achieving the targets set before us. I also express my indebtedness to our headquarter at NCSM, the Executive Committee and Programme and Planning Committee of NSCD and Local Advisory Committees of RSCL and KPSC.

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

(D. Rama Sarma)



Brief of Programmes/Activities/Collaborations

NSC, Delhi

Summer vacation hobby camps for school students were held from 18th to 22nd May; 25th to 29th May; 1st to 5th June and 8th to 12th June 2015 at the Centre. The students from class 2nd to 12th participated in the camps in various disciplines. Creative Art (Junior), Creative Art (Senior), Scientific Toy Making, Exploring Nature, Astro Lab, Robotics & Biotechnology were the streams in which students participated in large numbers. In these 28 hobby camps, 1100 students developed 2400 kits/projects.

The Centre in collaboration with 'Hara Jeevan', an NGO actively involved in protecting environment organized educational programmes for students on Earth Day and World Environment Day. The Centre organized an interactive workshop on 'Adolescent Peer Educators' Leadership Course in Life Skills' on 21st July 2015 in collaboration with 'Expression India', an NGO working for school children in dealing with their adolescent problems and issues. The students interacted with the speakers and discussed their adolescent problems and issues. The City level and Zonal level contest of the International Climate Change Summit were organized at the Centre in August-September 2015. The objective of the programme was to sensitize the students towards climate change and their environment. This was organised in association with Association of Science & Technology Science Centre, USA (ASTC).

The Centre in collaboration with Atlantis Research, New Delhi organized a special programme for school students titled 'Going Beyond'. The objective of the programme was to promote experience based science learning among student community. Renowned NASA Engineer-Heather Paul and International Science Educator-Sam Gibbs together conducted demonstration lecture, career oriented workshop and treasure hunt at the Centre for the invited student groups from various schools of Delhi & NCR. An interactive session with NASA engineer and curators/education staff of the Centre was also organized on this occasion. The programme was organised from 28th to 30th January 2016 in which about 1200 students participated.

The Centre organized a popular science lecture on 'Renewable Energy for a Lower Carbon Future' by Prof. A. Robin Wallace, Institute of Energy Systems, School of Engineering, University of Edinburgh, UK on 23rd February 2016. Prof. Robin described about current energy needs and renewable resources like Solar, Wind, Wave and Tidal energy and latest development in these technologies. The lecture was followed by an interaction with speaker & the audiences which included mostly school students/teachers.

The Centre participated in the 'Golden Jubilee Celebration of Mobile Science Exhibition', organized at Science City, Kolkata from 17th to 20th November 2015. The MSE bus was flagged off from Delhi on 13th November and reached Kolkata on 16th November 2015. A team of two school students and a teacher from Jaipur, Rajasthan was also invited to Science City, Kolkata to participate in various educational programmes during the Golden Jubilee Celebrations. The MSE bus travelled 2800 kms from Delhi to Kolkata and back, organizing educational programmes enroute. Main halts of the MSE bus were Kanpur, Allahabad, Varanasi, Dhanbad and Burdhaman. The Centre also organized mobile science exhibition in districts of Nainital, Jaipur & Kolkata.

The Centre organized educational activities on the occasion of First International Yoga Day on 21st June 2015. 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 & Health' and extempore talk on 'Yoga & Science' followed by open hose quiz was organized for invited school student groups.

The Centre organized Northern India Science Drama Contest on 15th December 2015. Top two winner teams from each of the Northern States i.e. Haryana, Punjab, Uttar Pradesh, Uttrakhand, and Delhi participated in this Science Drama. There were 10 teams which participated at zonal level. The main theme for this science drama was 'Science and Society'. All the teams performed their science drama on one of the sub-themes –Life and Works of Scientists, Light and Life, Cleanliness and Health, Science in Daily Life and Innovate or Perish. Shri Joseph Emmanuel, Secretary, Central Board for Secondary Education, Delhi inaugurated the contest on 15th December 2015. A panel of three judges evaluated the performance of the teams and decided upon the Best Actor, Best Actress, Best Script and Best Director and three best teams. Padmashri & Sangeet Natak Academy Awardee Dr. (Mrs.) Shovana Narayan, Eminent Kathak Guru & Retd. IAAS gave away the prizes to the winners during valediction in the evening on 15th December 2015.

The Centre organized 6-days pre-departure training camp from 9th to 14th October for national winner students participating in 20th International Astronomy Olympiad. 20th International Astronomy Olympiad was held from 15th to 23rd October, 2015, at Kazan, Russia. The resource persons (teaching faculty) from University of Delhi, Jamia Millia Islamia & Nehru Planetarium were invited for delivering lectures on Astronomy & Astrophysics for these students. The students interacted with these resource persons and also practiced on telescope for night sky observation. They were taken to Sultanpur National Park Bird Sanctuary in Gurgaon for night sky study during the training programme. An Indian team consisting of two NCSM officials and three national winner students of astronomy Olympiad participated in 20th International Astronomy Olympiad.

The Centre organized City Level & Northern India Science Fair in collaboration with SCERT/SIE of northern states, Kendriya Vidyalaya Sangathan, Jawahar Navodaya Vidyalaya Samiti and CBSE, New Delhi from 18th to 20th January 2016. A total of 29 team projects & 18 Individual projects were displayed in City Level Science Fair and a total of 19 team projects & 32 Individual projects were displayed in Northern India Science Fair. Shri Ashutosh Ghose, Deputy Director (Science), Directorate of Education, Delhi Government inaugurated the fair on 18th January 2016. The valedictory & prize distribution function took place on 20th January 2016. More than 5,000 students and teachers visited the fair during this period.

The Centre organized 4-days Innovation Festival from 21st to 24th January 2016. The festival was inaugurated by Prof. Samir Brahmachari, Former Director General, Council of Scientific and Industrial Research. He also delivered a popular talk on 'Innovation: Connecting the Unconnected Dots'. Prof. Brahmachari emphasized the importance of innovation for economic growth and sustainable development. 29 innovators and 3 companies from the field of art, craft, science, technology and robotic displayed their works in the festival. A panel of experts evaluated their project works and selected winner in respective categories. 22 projects were displayed in 'Build' section showing creativity from scrap. 11 teams from schools participated in 'Robofest' section, which was organized in collaboration with Robo-Genious. A Creative Robo Design contest was organized on 24th January, 2016 in which about 11 participants presented their working Robot. A new event 'Stageblast' was also introduced in which 5 participants showed their creative talent. An innovative challenge on hands-on activity namely, 'Built it up' and 'Lazy Ball' was organized in which 10 families participated. 8 families participated in Family Science Quiz. The participating families attended the written/verbal round followed by demonstrative experimental round. In 'Hands-on, Minds-on' session, 20 participants made speaker, flute and innovative top using scrap/low cost materials. During the festival, a workshop on 'Safeguarding your Idea' was organized that was attended by 60 innovators. Prof. Krishan Lal, Former Director, NPL was the

Chief Guest at valediction and he gave away the prizes and certificates to the winners. 250 participants participated in different events during the festival and the Innovation Festival was visited by almost 5,000 visitors and students.

Innovation Space organized innovative workshop for school students throughout the year. The students made projects like 'Speaker from waste', 'Electric motor', 'Flute', 'Reaction Car', 'Launching Rocket', 'Robotics assembly and programming', 'Break and make Electric Iron' and biology projects such as 'Extracting DNA'. Tools Operation Workshop was exclusively organized regularly for students to acquaint them with operation of different mechanical, electrical and electronics tools. Mentor Training Workshop was organized for school teachers.

The Centre organized an interactive workshop on astronomy and star gazing programme on 18th & 19th December 2015 at Jawahar Navodaya Vidyalaya, Faruknagar, Gurgaon for the students & teachers. A show on 'Science verses Miracle' was also conducted on the occasion. The programme was inaugurated by Shri Vinay Pratap Singh, IAS, Additional Deputy Commissioner, Guragaon, Haryana. The students were trained in handling telescope and exposure on astronomy basics was given to them. Telescopic observation of Moon, Jupiter, and Venus was arranged for participants.

The Centre organized Teacher's Training Programme for the pre-service & in-service teachers on 6th February 2016. 42 school teachers from different schools and 20 pre-service teachers participated in the training programme. The participants were guided for making a wide variety of useful and inexpensive mathematics/science teaching aids to supplement their classroom teaching. Shri S. K. Bagchi, Eminent Science Communicator and Former Director, BITM, Kolkata was the resource person for the workshop.

An interactive national level workshop on Science Film making was organized in collaboration with Vigyan Prasar from 24th to 26th February 2016. 70 participants from different colleges and institutes participated in this workshop. Prof. Iftekhar Ahmad, Director, AJK Mass Communication Research Centre, Jamia Millia Islamia, New Delhi was the chief guest on the occasion. Shri Kul Bhushan, Retd. Senior Director, Doordarshan was the guest of honour. They delivered the lecture on the role of science films in science popularization. Shri Maitur Rehman and Dr. Mike Pandey, eminent science film makers were the resource person in the workshop. Some of the films made by the participants were screened by the experts on 26th February. Participation certificates were awarded to all on the last day of the workshop.

The Centre participated in Utrakhand Srajan 2015 – A National Expo & Seminar, organized by Cyme of Social Development at Gaisain, Chamoli district in Utrakhand from 15th to 18th October 2015. The exhibition was inaugurated by Shri Harish Rawat, Hon'ble Chief Minister of Utrakhand. Regular shows on 'Science verses Miracle' were conducted in day time for visitors during the period of exhibition. Regular sky observation programme in the night were conducted during this period. About 8000 visitors visited stall of NCSM during the programme.

The Centre participated in India's first live Entertainment Family Festival, named Buddy- Daddy Family Bash at Suraj Kund Fair in Delhi NCR from 13th to 15th November. The fair was organized by Rudram Marketing Pvt. Ltd., Delhi. The Centre displayed portable exhibits namely - Rotate your Face, Is Light Visible, Cheshire cat, Building with Mirrors, All Road Leads to Rome and Vortex. Special Science Show on 'Liquid Nitrogen' was regularly conducted for the visitors. Approximately 3000 people visited this festival during this period.

RSC, Lucknow

RSCL in association with The Society of Earth Scientists (SES) celebrated Earth Day on 22nd April, 2015. A lecture 'Cyanobacteria: The Successful Survivor' and other educational programmes were organized on the occasion. Poster making contest, science quiz and nukkad natak were organized in association with Centre for Environment Education (CEE), Lucknow on inculcating awareness about 'Dolphin and Ganga river conservation' on 24th April, 2015. A seminar on 'Climate Change: A Whisper of Nature' in association with Club of Lucknow was organized on 25th April, 2015. Shri N. C. Bajpai, Ex. Commissioner, Planning Commission chaired the inaugural session. 'Save the Frog' day was celebrated same day. The Centre participated in Science & Technology Workshop from 28th to 30th April, 2015 at Government Inter College, Varanasi. Mobile Science Exhibition on theme 'Understanding Mathematics' and demonstration on 'Anti-Superstition' were conducted. An awareness programme on brain research was organized in association with National Brain Research Centre, Manesar on 6th May, 2015. Biodiversity Festival from 17th to 21st May, National Technology Day and International Museum Day was organized by RSCL.

Summer vacation hobby camps were organized from 18th to 22nd May 2015, 25th to 29th May, 1st to 5th June and 8th to 12th June 2015. The camps were organized in disciplines namely Creative Science, Innovative Craft, Scientific Toy Making, Electronics, and Astrolab & Eco-Craft. About 300 students from different local schools participated in various camps and about 200 projects were fabricated. A 4-day workshop on making herbal Cosmetics from the natural plant & fruits was organized May 2015. The demonstration on conversion of useful cosmetic and health products from waste material from fruits and vegetables was delivered. The workshop was attended by 35 homemakers. Poster making contest, slogan writing contest, quiz puppet show and popular lectures were organized on the occasion of World Environment Day on 5th June 2015. International Yoga Day on 21st June, 2015 was organized in which 'Yoga Camp' and Interactive Session on 'Health & Yoga' was organized.

Ground Water awareness programme was organized from 16th to 22nd July 2015 in collaboration with Ground Water Department, Uttar Pradesh. Shri Chandra Prakash, IAS, Principal Secretary, Minor Irrigation, Ground Water Department, Govt. of UP inaugurated the week-long celebration. Interactive educational programmes like Water Awareness Quiz contest, Popular Science and Science Film Show on Water were conducted during the period. The closing ceremony of the weeklong celebration of Ground Water Week was held at Indira Gandhi Pratisthan, Lucknow. Shri Raj Kishore Singh, Hon'ble minister for Minor Irrigation & Ground Water Department, Govt. of UP was the chief guest on the occasion. Attractive prizes were distributed by the Chief Guest to the winner students of the various contests.

NASI award lecture on 'Advancements in Nanotechnology' in collaboration with National Academy of Sciences, India (NASI) was organized on 6th August 2015. The Centre participated in 'NBT Club Programme' organized by India Media Technologies, Lucknow on 22nd August 2015 at Golden Blossom Resort, Faizabad Road, Lucknow. A Science demonstration on Science Vs. Miracle was organized which was attended by about 400 NBT News club members & invitees. RSCL organized a special movie titled, 'I am Kalam.... and I dare to dream' on 30th August 2015 in collaboration with Lions Club, Lucknow. The activity was organized on the occasion of Children's Dignity Week from 30th August to 5th September, 2015. The movie was dedicated to the vision of great Former President and Bharat Ratna, Late Dr. A.P.J. Abdul Kalam. About 190 school students & general public participated in this special film show.

An open house quiz on 'Vultures: Importance and conservation' & a Rangoli design contest on 'Vultures: Natures Cleaners' were organized in association with Zoology Department, Lucknow

University. About 200 school students took part in organized programmes. RSCL organized a unit level contest of 'International Youth Climate Summit-2015' on 7th September 2015. About 16 teams each comprising of 3 students participated and presented their presentation on 'Climate Change'. Popular science lecture was delivered by Prof. Dhruvsen Singh, Professor, Department of Geology, Lucknow University on '30 Years of Healing the Ozone Together' on the occasion of World Ozone Day on 16th September 2016. The Fun Festival for differently-abled children was organized on 21st September 2015 in which about 50 children participated in poster & puzzle solving contest. The main objective of the programme was to encourage these special children to enhance creative activity.

The Centre in association with Department of Zoology, Lucknow University and UP State Biodiversity Board organized variety of educational activities during wild life week from 1st to 7th October 2015. Cyber Security Awareness Programme for the benefit of school students and teachers was conducted on 10th October 2015. A workshop on 'Hand Wash' in association with Hope Imitative, Lucknow on the occasion of Global Hand Wash Day on 15th October 2015. RSCL celebrated the World Science Day on 9th & 10th November 2015 to mark public awareness on the role of Science for Peace and development. Popular Science Lectures on the topic 'Breast Cancer' and 'Killer Tobacco' were organized on 27th & 28th November, 2015. The lecture was delivered by Dr. K. M. Kamble, Head, Radiology Department, Government Medical College, Nagpur. About 520 students, teachers and general public were benefited by these interactive lectures.

City Level Science Fair was organized from 17th to 19th December 2015. 20 schools of Lucknow participated in which 14 nos. of team projects and 20 nos. individual projects were displayed by the school students. In all about 2000 students visited during the fair. RSCL launched a new SCIMAX show titled 'ALASKA'. This was inaugurated by Shri Sarvagya Ram Mishra, IAS, Special Secretary to UP Government, Tourism Department and Managing Director, Uttar Pradesh State Tourism Development. On this occasion about 200 school students, scientists, teachers and media person were present. An environment awareness programme for school children was organized in association with Centre for Environment Education. The participating Students enthusiastically participated in the skit competition where they conveyed their views on various environmental issues to the audience. The skits included message on not only biodiversity conservation and importance of planting trees but also on the importance of managing waste and conserving water. About 150 students took part in this programme. 15th Indian Science Communication Congress from 25th to 26th December 2015 was organized in association with Indian Science Communication Society. Various interactive session and popular talk were conducted on this occasion.

Innovation Hub - A New facility of Regional Science City Lucknow was inaugurated by Dr. C. S. Nautiyal, Director, NBRI on 4th January, 2016. RSCL and Innovation Centre of the Council of Science & Technology, Uttar Pradesh jointly organized 2-days workshop on 'Tod, Fod, Jod' from 20th to 21st January, 2016 for school students. The aim of the workshop was to provide a hands-on learning environment to them.

RSCL participated in 'Lucknow Mahotsava-2016' organized by District Administration, Govt. of UP in January-February 2016 at Smriti Upvan, Lucknow. Science demonstration on various topics of popular science was conducted and some participatory exhibits were also displayed. Mobile Science Exhibition at Gorakhpur Mahotasav from 29th to 30th January 2016 was organised. The mahotsav was inaugurated by Shri S. Guru Prasad, Commissioner, Gorakhpur Mandal on 29th January 2016. About 30000 students, teachers and general public visited the exhibition.

5-day mega event, 7th science expo was inaugurated on 5th February 2016 by a well-known writer, Prof. C. L. Khetrapal, Vice-Chairman, Centre of Bio-Medical Research, SGPGI, Lucknow in presence of Prof. V. K. Tandon, Former Head & Dean, Faculty of Science, Lucknow University. 17 different

scientific institutions & university participated by displaying their research activities. A series of qualitative lectures, demonstrations, science quizzes, painting contests, Nukkad Natak & other cultural activities were organized for the students and general public.

National Science Day in association with The National Academy of Sciences India (NASI), Lucknow Chapter and Uttar Pradesh Association of Sciences(UPAS) was celebrated on 27th & 28th February 2016. Science March, Poster Making Contest, Written Science Quiz, Essay writing contest were organized for school students. 3-days event on 'Innovative Project display' contest was jointly organized with Council of Science and Technology, Uttar Pradesh on 27th to 29th February 2016. The aim of the programme was to promote culture of Innovation and creative thinking. The program was inaugurated by Dr. A. D. Pathak, Director, Indian Institute of Sugarcane Research, Lucknow. A travelling Exhibition on 'Statistics at Works' was inaugurated on 18th March, 2016 by Shri Ajay Kumar Gupta, Dy. Director General, National Sample Survey Office, Lucknow. This exhibition comprises of about 30 exhibits including informative panels, interactives and computer kiosks. About 150 student, teachers and general public were present on inaugural ceremony.



KPSC, Kurukshetra

The Centre organized Sci – Picnic Programme from 13th to 17th April 2015 for the school students. The programme was devised according to the curriculum of the students. World Heritage Day on 18th April 2015 was organized with the objective to raise awareness about conservation of old heritage sites of local, national and international importance. A lecture on 'Famous Heritage Sites of India' was delivered by Dr. Arun Kesarwani, Professor, Ancient History Department, Kurukshetra University, Kurukshetra. Attractive prizes were awarded to the winners of different contests. Earth Day celebration on 22nd April 2015 organised in which painting contests, quiz and a popular talk was organized for school students. A Pulse Polio immunization Camp was organized in collaboration with Lok Nayak Jai Parkash Hospital, Kurukshetra on 26th April 2015. Polio drops were given to about 160 infants during this Camp. A special programme for about 120 divyang children of different organizations was organized. Activities like Identify the Animals, Geometrical Shapes etc. were conducted for these Children with Special Needs.

The Centre organized interactive one-day Teachers Training Programme for Pre/In-service teachers on 10th May 2015. They were given exposure about making Teaching Aids and Models to supplement their class room teaching. A popular science lecture on 'Understanding Microbiology and Biotechnology for Healthy and Prosperous Future' was delivered by Dr. K. R. Aneja, Ex-Chairman & Professor, Department of Microbiology, Kurukshetra University, Kurukshetra. Painting contest and slogan writing contest organized on the occasion of International Museum Day celebration on 18th May 2015. Sh. Sameer Deewan, Assistant Superintendent Archeologist, Kurukshetra delivered a lecture on 'Role of Museums in Formation of Constant Society' which was followed by active interaction with students. The Somvati Amawasya fell on 18th May 2015. Special arrangements were made by the Centre to cater to the needs & comforts of the tourists visiting the Centre during the occasion. The centre was specially kept open for extended timings on 17th and 18th May 2015 to provide maximum opportunity to the visitors to visit the Centre. More than 21,000 visitors visited the Centre on the occasion.

The Centre organized 66th Van Mahotsav in collaboration with Haryana Forest Department, Kurukshetra on 10th July 2015. A no. of educational programme were organized for school students. More than 400 students from various schools of Kurukshetra participated in 66th Van Mahotsav programme. On the occasion of World Population Day on 11th July 2015, various educational activities like quiz contest, film shows & popular science lecture were organized for the students and general public. A lecture on 'Conservation of Natural Resources: Issues and Challenges' was organized on the occasion of World Nature Conservation Day in August 2015.

The International Youth Climate Summit 2015 was organised in august- September 2015. Students from about 16 schools of Kurukshetra, Karnal, Ambala and Kaithal participated in this programme. Students delivered research oriented power point presentations on the topics of Climate Change and Energy Crises. A panel of experts from Kurukshetra University, Kurukshetra evaluated the presentation. The Centre organized science film show from 20th to 27th July 2015 for the school students. Award winning science films were shown. Some of them were 'Delhi Safari', 'Dolly Obesity' and 'Does the Higgs Boson Exist'. The students were taken to the guided visit to the galleries, Science Park and other facilities of the centre. About 300 students participated in the Programme. The Centre organized a number of educational activities for school students on the occasion of World Ozone Day celebration on 16th September 2015. A popular talk on topic 'Climate Change and its ill effects due to Ozone Hole' was delivered by Dr. A. R. Chaudhary, Chairman, Department of Geology, Kurukshetra University, Kurukshetra. About 350 students & teachers from various schools of in & around Kurukshetra participated in the programme.

The Centre organized Wild Life Conservation Week programme in collaboration with Haryana Forest Department, Kurukshetra from 1st to 7th October 2015. Painting 'Conservation of Wild Life' and eco-quiz on 'Wild Life' was organized for students. The 2nd Somvati Amawasya fell on 12th October 2015 in which more than 20,000 visitors visited the Centre. Complimentary Classroom Curriculum Programme from 14th to 17th October 2015 was conducted for the school students. The programme was devised according to the curriculum of the students. About 200 students participated in the Programme. KPSC celebrated World Science Day in November 2015 in which about 400 students & teachers from various schools in & around Kurukshetra participated. Students drew attractive painting on 'Science and Society' and 'Science and Technology in our daily life'. A Popular Science Lecture on 'Importance and Relevance of a Balanced Environment for Sustainable Development' was delivered by invited Chief Guest, Dr. R. B. S. Yadav, Assistant Professor, Department of Geophysics, Kurukshetra University, Kurukshetra.

KPSC participated in 'Rashtriya Gyan Vigyan Mela' organized by Vidya Bharti Akhil Bhartiya Siksha Sansthan at Geeta Niketan Awasiya Vidyalaya, Kurukshetra from 28th November to 1st December 2015. The Centre displayed few participatory models on Fun Science and presented demonstration lectures on science. The exhibition was visited by about 15000 visitors. The Centre participated in 43rd Chandigarh State Level Science, Mathematics and Environment exhibition from 1st to 4th December 2015 at SCERT, Chandigarh. About 12,000 students, teachers and general visitors visited the stall of the Centre during the span of four days. KPSC participated in Craft Mela organized by State Govt. of Kurukshetra from 11th to 24th December 2015. KPSC displayed educational kits & exhibits at its stall and demonstration lectures were delivered for the visitors. The Craft Mela was visited by more than six lakhs people.

The Centre celebrated National Voter's Day on 25th January 2016. An oath was taken by all the staff members of KPSC for abiding faith in democracy. All the staff members took a pledge to vote in every election fearlessly and without being influenced by considerations of religion, race, caste, community, language or any inducement. 4th International Fest VIBGYOR was organized from 29th January 2015 to 31st January 2016 at Baba Farid Group of Institutions, Bathinda in which KPSC participated with models and demonstrations. About one lakh visitors visited the exhibition.

Annual Science Quiz Contest was organized from 2nd to 26th February 2016. 16 teams were selected from the 20 teams through written quiz round. After a series of rounds the final round was conducted on 24th February and the prizes were given to the winner teams on 26th February 2016. KPSC participated in Science Fair organized by Indian Resource and Development Association (IRADA) at Technology Educational Research Integrated Institutions (TERII), Barna, Kurukshetra from 6th to 8th February 2016. About 3,000 visitors visited the stall of the Centre.

On the 3rd Somvati Amawasya on 8th February 2016, about 5000 visitors visited the Centre. Painting contest, quiz contest and a lecture on 'Our Mysterious Universe: Challenges and Achievements' was organized on the occasion of National Science Day programme. On 27th March 2016, the Centre organized Special Exposure Programme for about 150 Under Privileged Children of Sewa Bharti, Kurukshetra. Children were also taken to Science Park, Panorama Hall, Heritage gallery and the Fun Science gallery of the Centre. They were also shown 3-D Film Show.

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	Shri Umesh Kumar Project Coordinator	Dr. Raj Mehrotra 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	2337-1946	2321804,2327833	291100
EPABX	2337-1297, 2337-1893 2337-1945	2321804	292810
Telefax	2337-1263		
E-mail	nscdl01@gmail.com	rsclu89@rediffmail.com pcrscl@gmail.com	kpsckkr01@rediffmail.com
Website	nscdelhi.org	rsclucknow.org	--
Hours of opening	10:00 am to 5:30 pm	10:00 am to 5:30 pm	10:00 am to 5:30 pm
Closed on	Diwali & Holi	Diwali & Holi	Diwali & Holi
Admission Fee			
i) General Public	Rs.40/- per head	Rs.20/- per head	Rs. 30/- per head
ii) Student Group	Rs.20/- per head	Rs.10/- per head	Rs. 10/- per head
3-D Film Show			
i) General Public	Rs.25/- per head	Rs.20/- per head	Rs.20/- per head
ii) Student Group	Rs.10/- per head	Rs.10/- per head	Rs.10/- per head
Space Theatre			
General Visitor	--	Rs.50/-	--
Student group		Rs.30/	
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
Staff strength	Scientific	06	02
	Technical	57	18
	Admn.	28	07
	Total	91	27
			16

EXPENDITURE

(Figures in lakhs Rs.)

Sl. No.	Fund & Receipt	Rs. in Lakhs	Non-Plan	Plan	Total
1	Fund released by Hqrs.		635.10	531.75	1166.85
2	Revenue Receipt		528.35	--	528.35
3	TOTAL (1+2)		1163.45	531.75	1695.20
	Gross Expenditure: Rs. in Lakhs		Non-Plan	Plan	Total
1	NSC, DELHI		823.74	315.25	1138.99
2	RSC, LUCKNOW		248.51	132.68	381.19
3	KPSC, KURUKSHETRA		117.43	85.53	202.96
4	TOTAL		1189.68	533.46	1723.14
UNITWISE RECEIPTS		NSCD	RSCL	KPSC	TOTAL
Cumulative Figures up to 31.03.2016		237.10	119.89	171.36	528.35

RECEIPTS

Year	Amount in Rs. **
2011-2012	31806691.00
2012-2013	33970966.65
2013-2014	33506254.00
2014-2015	45604135.25
2015-2016	52834884.41

** This figure includes receipts of NSCD & its satellite units

VISITORS

S. No	Visitors	NSCD	RSCL	KPSC
1.	Number of school groups	1,683	881	1,215
2.	No. of students in groups	3,06,771	63,462	1,08,208
3.	No. of general visitors	3,00,023	2,64,457	5,60,708
4.	No. of outreach visitors	1,91,661	2,35,098	13,63,853
5.	Total no. of visitors	7,98,455	5,63,017	20,32,769

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



2. EXISTING GALLERIES

Name of the Centre/ museums	Name of the gallery	Floor area (sq.m.)	Date of first inauguration	Date of last major renovation	Number of exhibits
National Science Centre, Delhi	Our Science and 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
	Communication Saga	200	09.01.2016	--	--
	Reception Area	316	--	17.03.2014	12
Temp. Exhibition Gallery	496	--	--	--	
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	31
	Water-Our Life	400	24.12.2012	--	39
	Children Gallery	400	08.06.2001	Under Renovation	32
	Under water Exploration	680	21.09.2007	--	67
	Being Human	410	21.09.2007	--	41
	Biotech. Revolution	580	21.09.2007	--	66
	Aquamobile	130	21.09.2007	2009	01
	Scimax Hall	380	21.09.2007	--	01
	Pre historic life park	4500	15.02.2008	---	41

	Science Park	Open Area	07.09.1989	---	67
	Wonder World of Materials Gallery	400	19.12.2009	---	68
Kurukshetra Panorama Science Centre, Kurukshetra	Ground Floor a. Our Heritage	1520.25	06.03.2001	31.03.2013	51
	Ground Floor b. Fun Science		06.03.2001	---	91
	First Floor a. Panorama	1371.15	06.03.2001	30.07.2008	11
	Science Park	12500	06.03.2001	--	31



3. NEW GALLERIES / MAJOR RENOVATION

NSCD:

- a) Completion of 'Hall of Nuclear Power - Atoms Serving the Nation'
- b) Completion of the project of Aryabhat Planetarium, Rampur, Uttar Pradesh
- c) Completion of a new multimedia show titled 'The Communication Saga: From Cave Paintings to Internet'
- d) Completion of the project of Veer Bahadur Planetarium, Gorakhpur, Uttar Pradesh
- e) Completion of the project of Regional Science Centre, Dehradun

RSCL:

- a) Development of exhibits on 'Science of Sports'
- b) Completed exhibits for 'Frontiers of Technology' Gallery for RSC, Dehradun
- b) Completed exhibits on 'Meri Anokhi Duniya' Gallery for RSC, Lucknow
- c) Completed 4 no. of MSE exhibits on 'Understanding Mathematics'
- d) New kits on 'Properties of Light' developed
- e) Launched two new film in Scimax show
- f) Innovation hub facility added

KPSC:

- a) Our Science and Technology Heritage Gallery
- b) Exhibit development for Mobile Science Exhibition bus
- c) Renovations in Fun Science Gallery



4. EXISTING MOBILE SCIENCE EXHIBITS IN THE CENTRE/ MUSEUM

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	24	2008-09	---
Understading Mathematics	RSC, Lucknow	24	2015-16	---
Transformation of Energy	RSC, Lucknow	24	1986-87	1989
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	Hall of Nuclear Power - Atoms Serving the Nation	60	16.01.2016
RSCL	Panel exhibition for 7 th Science Expo 2016.	13	05.02.2016
KPSC	---	---	---



6. EXHIBIT DEVELOPMENT

	NSCD	RSCL	KPSC
Gallery exhibits	109	08	11
Duplicate exhibits	--	06	--
Park exhibits	---	02	03
MSE exhibits	---	04	--
Taramandal	----	--	--
Kits/aids	58	27	--
Duplicate kits/aids	30	28	--
Temporary exhibits	----	13	--
Total	196	88	14

In addition, 52 no. of exhibits on 'Frontiers of Technology' gallery for RSC, Dehradun were developed by NSCD.

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



7. PLANNING for the Year 2016-2017

NSC, Delhi

Sl. No.	Name of the Scheme
1.	Major Renovation of Pre historic gallery – Phase -I
2.	Sphere Fountain
3.	Science on Sphere facility
4.	Holographic Projection System
5.	Robo-Show
6.	Biotech Lab facility
7.	Special exhibition on '25 years of service to the Nation'

RSC, Lucknow

Sl. No.	Name of the Scheme
1.	Completion of 'Science of Sports' gallery
2.	Renovation of exhibitions-Evolution Park

KPSC, Kurukshetra

Sl. No.	Name of the Scheme
1.	Science Park Exhibits Renovation
2.	Chroma key exhibit
3.	Erection of hoarding on main gate



8. MOBILE SCIENCE EXHIBITION PROGRAMMES

Name of Centre	Name of the Vehicle	Theme of exhibits	No. of exhibition days	Distance traveled	No. of exhibition sites	Number of visitors to the exhibition
NSC, Delhi	-----	Non-Conventional Sources	160	5186	57	92,849
RSC, Lucknow	Gomti	Transformation of Energy	145	5245	59	1,86,043
KPSC, Kurukshetra	-----	Understanding Mathematics	138	6895	51	1,42,371



9. SCIENCE EDUCATION ACTIVITIES

a) Science Demonstration Lectures (SDL)

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

Name of the Centre	Name of the SDL unit	No. of Lectures Held in Centre	No. of Students Attended	No. of Lectures Held Outside	No. of Students Attended
NSC, Delhi	1. Liquid Nitrogen 2. Unexpected Science 3. Sound 4. How Animals Walk 5. Fun with Physics 6. Air Pressure 7. Heat	702	75850	30	3875
RSC, Lucknow	1. Sound 2. Science verses Miracles 3. Gravity 4. Exciting Chemistry 5. Super Cooled Show 6. Air Pressure 7. Balloon Show 8. Properties of Water	688	15831	67	43785
KPSC, Kurukshetra	1. Science & Miracles 2. Sound 3. Surprising Chemistry 4. Liquid Nitrogen 5. Heat 6. Air Pressure 7. Flora & Fauna 8. Spark Show 9. Soap Bubbles	414	20700	116	35673



b) Nature Study Camps

A seminar on 'Climate Change: A Whisper of Nature' for school students was organized at RSCL. Eminent speakers expressed their views on related issues like 'Climate Change- impacts on Health', 'Impact of Climate Change and Remedial Measures' etc. About 100 participants from various institutions & schools participated in the seminar.

On the occasion of World Environment Day on 5th June 2015 KPSC Kurukshetra organized Environment March, Painting contest, Environment quiz, 'Tree & Plant Identification' contest & a popular talk on 'Climate Change and Environment Destruction: Reason, Remedies and Challenges'.

c) Environment Awareness Programmes

Name of the Centre	Name of the Programme	Date of the programme	No. of Participants
NSC, Delhi	Earth Day	22.04.2015	350
	National Technology Day	11.05.2015	450
	International Museum Day	18.05.2015	450
	World Environment Day	05.06.2015	475
	International Yoga Day	21.06.2015	450
	World Population Day	11.07.2015	250
	World Nature Conservation Day	28.07.2015	250
	World Ozone Day	16.09.2015	260
	National Science Day	28.02.2016	300
	World Forestry Day	21.03.2016	350
RSC, Lucknow	Earth Day	22.04.2015	650
	Save the Frogs Day	26.04.2015	350
	Biodiversity Festival	17- 21.05.2015	800
	Seminar on Climate Change: A whisper of the Nature	25.04.2015	100
	World Environment Day	04 - 05.06.2015	270
	Int. Vulture Awareness Day	05.09.2015	200
	Int. Youth Climate Change (IYCC)	07.09.2015	48
	International Ozone Day	15- 16.09.2015	500
	Wild Life Week	01-07.10.2015	1700
	Environment Awareness Prog.	21.12.2015	150
	The Leap Day	27.02.2016	180
Sparrow Week Celebration	15-20.03.2016	350	
KPSC, Kurukshetra	Van Mahotsav	10.07.2015	400
	World Nature Conservation Day	04.08.2015	350
	World Ozone Day	16.09.2015	350
	International Museum Day	19.05.2015	450
	Earth Day	22.04.2015	550
	International Youth Climate Summit 2015	20.08.2015 to 04.09.2015	100
	World Environment Day	05.06.2015	200
	World Science Day	07.11.15	400
	Wildlife Conservation Day	01-07.10.2015	300
	Cleanliness Drive Programme	02.10.2015	200

d) Science Film Shows

Name of the Centre	Date/Duration	Title/Theme	No. of Shows	No. of Total Visitors
RSC, Lucknow	16.07.2015 to 21.07.2015	Water Conservation	06	800
	10.08.2015 to 31.08.2015	Various Science & Technology related films	64	1700
	01.10.2015 to 06.10.2015	Wild Life	06	350
	29.01.2016 to 31.01.2016	International Documentary Films by Film Division, Govt. of India	09	650
KPSC, KKR	20.07.2015 to 27.07.2015 19.08.2015 to 27.08.2015 23.09.2015 to 30.09.2015	Delhi Safari, Dolly Obesity Does the Higgs Boson exist	28	2800

e) Popular Science Lectures

Name of the Centre	No. of Lectures	No. of Audience
NSC, Delhi	24	6950
RSC, Lucknow	37	5995
KPSC, Kurukshetra	17	5382

Note: List is given in **Annexure – III**



f) 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	737	17489
RSC, Lucknow	1393	30408
KPSC, Kurukshetra	209	3135

g) Sky Observation

Name of the Centre	No. of Programmes held	No. of Participants
NSC, Delhi	43	8416
RSC, Lucknow	46	4421
KPSC, Kurukshetra	153	1836

h) Science Quizzes

Name of the Centre	No. of Quizzes held	No. of Participants	No. of Audience
NSC, Delhi	97	8795	4840
RSC, Lucknow	51	3265	802
KPSC, Kurukshetra	32	2560	3000



10. Video/ Computer Software/ Multimedia Software Developed

List of multimedia developed in the Year 2015- 2016

Nuclear Power Gallery (NSCD)

1. Walk Through in a Nuclear Plant
2. Radiations Applications
3. Multitouch User Interface for Types of Nuclear Reactors
4. Control your Nuclear Plant
5. Ask Budhiya

Introductory Digital slide shows for -

1. Human Biology Gallery
2. Fun Science Gallery
3. Emerging Technology Gallery
4. Brain to Body Mass for Human Biology Gallery

Multimedia developed for RSC, Dehradun

1. Designer Baby
2. Waerable Devices
3. CT Scan Imaging
4. Multi-touch Table

Video Clip production of Fun Science Gallery exhibits - 15 no.



11. CREATIVE ABILITY

a) Creative Ability Centre

Name Of The Centre	Number of Camps held	Number of Projects Completed	Number of Participants
NSC, Delhi	06	32	60
RSC, Lucknow	05	10	37
KPSC, Kurukshetra	06	348	116

b) Vacation Hobby Camps

Name Of The Centre	Number of Camps held	Number of Projects Completed	Number of Participants
NSC, Delhi	20	2400	1100
RSC, Lucknow	18	390	387
KPSC, Kurukshetra	06	348	116



c) Science Fair

Name of the Centre	Date & Duration	Name of the Science Fair	No. of Schools Participated	No. of Students/ participants	No. of Projects
NSC, Delhi	18.01.2016 to 20.01.2016	Northern India Science Fair	51	70	51
	18.01.2016 to 20.01.2016	City Level Science Fair	47	76	47
	21.01.2016 to 24.01.2016	Innovation Festival	--	60	50
RSC, Lucknow	17.12.2015 to 19.12.2015	City Level Science Fair	20	48	34
KPSC, Kurukshetra	---	---	----	----	----



d) Science Seminar

Name of the Centre	Name of Seminar	Venue of Seminar	Number of Participants	Number of Schools	No. of Audience
NSCD (National Event)	NSS 2015 on 'Harnessing Light: Possibilities & Challenges'	NSCD	36	36	320
RSCL	Seminar on 'Climate Change : A whisper of Nature'	RSCL	200	09	200
	International Youth Climate Change (IYCC) - 2016	RSCL	48	16	180
KPSC	---	---	---	---	---



e) Date, Duration & Streams of Vacation Hobby Camps

Name & Venue of programme	Date/Duration	Streams/Subjects	No. of Participants	No. of projects
NSC, Delhi	18.05.2015 to 22.05.2015 and 25.05.2015 to 29.05.2015 and 01.06.2015 to 05.06.2015 and 08.06.2015 to 12.06.2015	<ol style="list-style-type: none"> 1. Creative Art (Junior) 2. Creative Art (Senior) 3. Scientific Toy Making 4. Exploring Nature 5. Astrolab (Telescope Making) 6. Basics of Biotechnology 7. Robotics 	1100	2400
Regional Science City, Lucknow	18.05.2015 to 22.05.2015 and 25.05.2015 to 29.05.2015 and 01.06.2015 to 05.06.2015 and 08.06.2015 to 12.06.2015	<ol style="list-style-type: none"> 1. Innovative Craft 2. Creative Science 3. Scientific Toy 4. Electronics 5. Eco-Craft 6. Astrolab 7. Fascinating Physics 8. Aromatherapy 9. Aroma Candle & gel making 10. Science Magic 11. Puppet Making 	387	390
KPSC, Kurukshetra	01.06.2015 to 12.06.2015	<ol style="list-style-type: none"> 1. Clay Modeling & Paper craft 2. Scientific Toy making 3. Wonders of Electronics 4. Exploring Nature 	116	348



12. TRAINING & WORKSHOPS

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	02	102	108
RSC, Lucknow	03	51	62
KPSC, Kurukshetra	04	190	296

b) Computer Training Programmes

Name of the Centre	No. of Programmes	Duration	No. of Participants	Subjects
RSC, Lucknow	01	10.10.2015	125	Cyber Security Awareness Programme
KPSC, Kurukshetra	02	08.06.2015 to 20.06.2015	27	Basic Knowledge of Computers



c) Conferences/Workshops

National Science Centre, Delhi

8th International Conference on the Inclusive Museum

The 8th International Conference on the Inclusive Museum was held at the National Science Centre from 6th to 9th August 2015. The theme of the conference was 'Museums as Civic Spaces'. The topic focused on the notion of the 'inclusive museum' as an aspirational civic space that is created and recreated based on the context and relevance to diverse stakeholders. The inaugural ceremony of the conference was organized in the gracious Cultural Centre of the President House on 6th August 2015. Shri Pranab Mukherjee, Hon'ble President of India inaugurated the conference in the august presence of Shri Kailash Satyarthi, Nobel Peace Laureate. The international conference was attended by 182 delegates out of which 59 were from 21 countries namely, Australia, China, Denmark, Germany, Israel, Italy, Japan, New Zealand, Philippines, Poland, Qatar, South Africa, Sri Lanka, Sweden, Taiwan, Turkey, United Kingdom, United Arab Emirates, United Republic of Tanzania and USA. There were 123 delegates from India.



An interactive workshop on Astronomy

The Centre organized an interactive workshop on astronomy and star gazing programme on 18th & 19th December 2015 at Jawahar Navodaya Vidyalaya, Faruknagar, Gurgaon for the students & teachers. A show on 'Science verses Miracle' was also conducted on the occasion. The programme was inaugurated by Shri Vinay Pratap Singh, IAS, Additional Deputy Commissioner, Guragaon, Haryana. The students were trained in handling telescope and exposure on astronomy basics was given to them. Telescopic observation of Moon, Jupiter, and Venus was arranged for participants.

Interactive workshop for teachers

The Centre organized Teacher's Training Programme for the pre-service & in-service teachers on 6th February 2016. 42 school teachers from different schools and 20 pre-service teachers participated in the training programme. The participants were guided for making a wide variety of useful and inexpensive mathematics/science teaching aids to supplement their classroom teaching. Shri S. K. Bagchi, Eminent Science Communicator and Former Director, BITM, Kolkata was the resource person for the workshop.

National workshop on Science Film Making

An interactive National Workshop on Science Film Making was organized in collaboration with Vigyan Prasar from 24th to 26th February 2016. 70 participants from different colleges and institutes participated in this workshop. Prof. Iftekhar Ahmad, Director, AJK Mass Communication Research Centre, Jamia Millia Islamia, New Delhi was the chief guest on the occasion. Shri Kul Bhushan, Retd. Senior Director, Doordarshan was the guest of honour. They delivered the lecture on the role of science films in science popularization. Shri Maitur Rehman and Dr. Mike Pandey, eminent science film makers were the resource person in the workshop. Some of the films made by the participants were screened, critically analyzed by the experts. The changes were assured to be incorporated by the participants. Participation certificates were awarded to all on the last day of the workshop.



Teachers Training programme

The Centre in association with NCERT, New Delhi conducted a workshop for principals invited from different schools of Northern India, in June 2015. 45 Principals participated in the workshop. The objective of the workshop was to inculcate awareness about leadership quality and capacity building among school teachers and principals and to make them aware about the facilities available at the Centre for school students/teachers.

RSC, Lucknow

Tod Fod Jod at Malihabad, Lucknow

Regional Science City, Lucknow and Innovation Centre of the Council of Science & Technology, Uttar Pradesh organized a workshop on 'Tod-Fod-Jod' on 10th – 11th March, 2016 at Upper Primary School, Kanar Malihabad. About 80 students are participating in this workshop.

'Aroma Therapy' workshop

4-day workshop on making herbal cosmetics from the natural plant & fruits was organized from 21-22 May & 28-29 May 2015 in which former senior scientist from CIMAP, Lucknow, Dr. Anand Akhila demonstrated how the waste material from fruits and vegetables can be converted into useful cosmetic and health products. The use of eucalyptus oil and turmeric were demonstrated in making pain relieving balm for joint pains. The workshop was attended by 35 homemakers.



International Youth Climate Summit 2015

The preliminary round of the International Youth Climate Summit 2015 was organised in two stages on 20th August 2015 and 28th August 2015. Students from about 16 schools of Kurukshetra, Karnal, Ambala and Kaithal participated in this programme. Students delivered research oriented power point presentations on the topics of Climate Change and Energy Crises. About 100 students and teachers participated in these rounds.

The final round of the International Youth Climate Summit 2015 was organised on 4th September 2015. Students delivered research oriented power point presentations on the topics of Climate Change and Energy Crisis. Students from about 16 schools of Kurukshetra, Karnal, Ambala and Kaithal participated in this programme. The preliminary round of the International Youth Climate Summit 2015 was organised in two stages on 20th August 2015 and 28th August 2015. A panel of judges (experts of different subjects of the topic concerned) from different institutes were invited. The winner of this contest will participate in the North Zonal Level Contest. About 100 students and teachers participated in these rounds.



13. COMMUNITY PROGRAMMES

NSC, Delhi

INSPIRE Mentorship Program

The Centre participated in INSPIRE Mentorship Program for school students of Class XI and XII organized by D S Kothari Centre for Research and Innovation in Science Education in association with Department of Science and Technology, Govt. of India. The programme was organized at Miranda House, University of Delhi on 14th July 2015. A set of portable participatory exhibits on Fun Science and demonstration lectures on 'Liquid Nitrogen' and 'Science verses Miracles' were the part of INSPIRE Mentorship Program. The students and teachers interacted with speakers and demonstrators during the programme. More than 1000 school students and 100 teachers participated in the programme.

Science Fiesta

Science Cell of the Round Table cultural Society of the Kirorimal College student invited the Centre to participate in the Science Fiesta Cultural show on 26th February 2016. The Centre organized science shows on this occasion. All activities involved college students. 549 students from different colleges of the University participated in the Science Fiesta.

Outreach programme for Municipal Corporation of Delhi Schools

The Centre in association of Directorate of Education, Municipal Corporation of Delhi, conducted Mobile Science Exhibition, Science Shows and Science Quizzes for school students studying in Municipal schools of Delhi. Most of the students were underprivileged. 40 schools situated on the outskirts of Delhi were chosen for the 15 days programme. 20 Science quizzes and 25 science shows for the students were conducted daily. Students were also apprised of Health and Hygiene through demonstration of human Torso. Around 8500 students participated in the 15 days programme.

Uttrakhand Srajan 2015

The Centre participated in Uttrakhand Srajan 2015 – A National Expo & Seminar, organized by Cyme of Social Development at Gaisain, Chamoli district in Uttrakhand from 15th to 18th October 2015. The exhibition was inaugurated by Shri Harish Rawat, Hon'ble Chief Minister of Uttrakhand. Regular shows on 'Science verses Miracle' were conducted in day time for visitors during the period of exhibition. Regular sky observation programme in the night were conducted during this period. About 8000 visitors visited stall of NCSM during the programme.

Buddy- Daddy Family Bash

The Centre participated in India's first live Entertainment Family Festival, named Buddy- Daddy Family Bash at Suraj Kund Fair in Delhi NCR from 13th to 15th November. The fair was organized by Rudram Marketing Pvt. Ltd., Delhi. The Centre displayed portable exhibits namely - Rotate your Face, Is Light Visible, Cheshire cat, Building with Mirrors, All Road Leads to Rome and Vortex. Special Science Show on 'Liquid Nitrogen' was regularly conducted for the visitors. Approximately 3000 people visited this festival during this period.

India International Science Festival at IIT Delhi

The Centre participated in India International Science Festival (IISF 2015), a joint event of Ministry of Science and Technology and Ministry of Earth Sciences, from 4th to 8th December 2015 at Indian Institute of Technology, Delhi. The objective of the exhibition was to showcase glimpses of India's progress and achievements in various sectors of science & technology. Various S & T organization participated in this science festival. The Centre also participated with display of a set of portable

participatory exhibits on Fun Science, namely Cone Runs Uphill, Express Route, Curie point, Rising Arc, Holography, Is Light Visible and also Flip book-Computer kiosk on activities of NCSM on behalf of NCSM. Regular shows on 'Science verses Miracle' and 'Liquid Nitrogen' were conducted for visitors during the period of exhibition. This fair registered an entry in the Guinness Book of World Records. About 2000 students from 40 schools assembled at the sprawling lawns of Indian Institute of Technology, to attend 'World's Largest Practical Science Lesson'. NCSM pavilion was awarded third prize for attracting the visitors and popularization of science. More than 60000 visitors visited the stall of NCSM during the programme.



RSC, Lucknow

15th Indian Science Communication Congress

Regional Science City, Lucknow in association with Indian Science Communication Society organized 15th Indian Science Communication Congress from 25th to 26th December 2015. Various interactive session and popular talk and several of science communicators from different place were present on this occasion. Dr. Manoj Pataria, eminent science communicator & Deputy Director General, Prasar Bharti was the Chief Guest of the function. About 150 volunteers of ISCOS from different place and research fellows participated in the programme

Programme at Ganj Carnival, Hazrat Ganj, Lucknow

Ground Water Awareness programme was organised at Ganj Carnival in Hazratganj on 19th July 2015 with main theme "Conserve Ground water : Ommide-Ki-Ek-Boond". The programme was Inaugurated by Shri Chandra Prakash (IAS), Principal Secretary, Minor Irrigation, Ground Water Department, Govt. of UP. On this occasion Variety cultural activity and "NUKAD NATAK" on Water Conservation by Dream, Lucknow and by Chandramani Samajik & vikas Santhan, Lucknow was organized which was witnessed about 4500 peoples in main heart of Hazratganj market of Lucknow.

Water Awareness Programme at Kasturba Gandhi Balika Awashiya Vidahyalaya, Malihabad

The water awareness programme was organised at Kasturba Gandhi Balika Awashiya Vidahyalaya, Malihabad on 20th July 2015. Several educational activities like Popular Science Lecture, written quiz on Ground Water, Water Demonstration, water rocket Show and Puppet show on water Conservation etc. were organize for student. About 250 students & general visitors participated.

Water Awareness Programme at Purve Madhyamink Vidhayalya, Chinhat

In continuation of Water Awareness Programme the varieties of educational activities were organised at Purve Madhyamink Vidhayalya, Chinhat on 21st July 2015. In which Popular Science Lecture, written quiz on water, Water Rocket Show, water based demonstrations and a puppet show were organized in which about 450 students & general public participated.

Fun Festival for Divyang Children

The Fun Festival for Divyang children was organized on 21st September 2015 at Regional Science City, Lucknow. About 50 children participated in poster & puzzle solving contest. The main objective of the programme was to encourage these special children to enhance creative activity by participating in different programme with FUN and Enjoyment.

Participation in Lucknow Mahotsav

RSCL participated in "Lucknow Mahotsava-2016" organized by District Administration, Govt. of UP from 27th January, 2016 to 7th February 2016 at Smriti Upvan, Lucknow. Science demonstration shows on various topics was organized by RSCL staff and also table top exhibits with publicity materials were also displayed at Mahotsava. About 25300 people visited our RSCL during the festival.

Swachh Bharat Mission

Special cleaning session was conducted on regular bases in service area including electrical panel, AC plant and Fire fighting equipments etc in which all the staff members of RSCL participated and special cleaning of workshop was also done. The process for cleanliness under Swachh Bharat Mission is going on regularly. Film show for underprivileged children living in slum areas under "Swachh Bharat" campaign has been organized on 3rd September 2015. Educational films on topic "Everyday Sanitation" and "Ten steps to good health" were screened for these children. A special

workshop on Hand wash was also organized by "HOPE INITIATIVE" on 4th October 2015 for educating these underprivileged children about importance, benefits and health/hygiene aspects of regular and proper Hand washing through interactive and practical session. A special puppet show was organized for street children and general visitors on the topic "importance of cleanliness" in association with NCSTC and ISCOS, Lucknow on 15th August 2015 "Independence day". Special cleaning session was conducted inside and outside of the premises of Regional Science City Lucknow on 2nd October 2015 in which all the staff members of RSCL participated and special cleaning of workshop was done. RSCL organized massive cleaning drive on 4th October in which about 200 volunteers of National Service Scheme (NSS) from Netaji Subhas Girls Degree College, Lucknow participated. The volunteers were involved in various activities such as cleaning of garden area, painting of tree trunks/ pots and wall painting in prehistoric park. RSCL observed "Global Hand Wash Day" on 15th October 2015 in association with N.G.O. "HOPE INITIATIVE". RSCL organized Nukkad Natak on "Swachh Bharat" & Puppet Show campaign on 8th February 2016 in which about 8 local school participated. About 1200 visitors benefited.



KPSC, Kurukshetra

Demonstration Lecture at Amity University Noida, UP

A Science Demonstration Lecture was organised on the topic 'Creative Chemistry' demonstration at Amity University, Noida Campus, U.P. on 14th January, 2016 for the meritorious students of class 11th to 12th from various Delhi-NCR region Schools under the INSPIRE Internship Program.

Participation in Golden Jubilee Celebration of Mobile Science Exhibition

Golden Jubilee Celebration of Mobile Science Exhibition was organized from 17th to 20th November 2015 at Science City, Kolkata. The Centre participated in this four day programme with full enthusiasm. The entire Mobile Science Exhibition Bus was pasted with full bus length size attractive vinyls highlighting the scientific content of the bus. A total of 16,128 visitors visited the above exhibition in four days.

Participation in Regional Level Science Congress organized by Jawahar Navodaya Vidyalaya, Niwarsi

Regional Level Science Congress was organized at Jawahar Navodaya vidyalaya, Niwarsi from 20th November 2015 to 25th November 2015 at Jawahar Navodaya Vidyalaya, Niwarsi, Kurukshetra. The Centre actively participated in this six days programme. Science Demonstration Lectures were organized by the Centre on 21st and 25th November 2015 for school level students during the science congress on topics like Science behind Miracles, Fantastic Chemistry, Amazing Physics and Super Cool Show. A total of 2,000 students attended the above demonstration programmes.

Participation in 'Rashtriya Gyan Vigyan Mela' organized by Vidya Bharti Akhil Bhartiya Siksha Sansthan

'Rashtriya Gyan Vigyan Mela' is being organized from 28th November 2015 to 01st December 2015 at Geeta Niketan Awasiya Vidyalaya, Kurukshetra. A mini fun science exhibition including panels on NCSM Nationwide Panels (03 Nos.) and Science is Fun Panel (04 Nos.) along with Table Top Exhibits and Mobile Science Exhibition was set up by Kurukshetra Panorama & Science Centre, Kurukshetra. Science Demonstration Lectures were regularly given to school and college level students during the exhibition. The Valediction of this Programme was chaired by His Excellency, The Governor of Haryana, Sh. Kaptan Singh Solanki shall be the Chief Guest.

Participation in Chandigarh State Level Science, Mathematics and Environment Exhibition for Children

43rd Chandigarh State Level Science, Mathematics and Environment Exhibition for Children was organized from 1st to 4th Dec. 2015 at State Council of Educational Research and Training Campus, Sec. 32, Chandigarh. The exhibition was inaugurated by Scientific Advisor, Chandigarh administration. The Centre participated in this four day programme with lots of publicity materials. Kurukshetra Panorama & Science Centre Exhibition include panels on NCSM Nationwide Panels (03 Nos.) and Science is Fun Panel (04 Nos.) along with Table Top Exhibits. KPSC also displayed its educational kits at its stall and Science Demonstration Lectures were regularly given to school and college level students. About 12,000 students, teachers and general visitors visited the stall of the Centre during the span of four days.

Participation in 'Craft Mela'

Every year, Craft Mela is being organized by State Govt. of Kurukshetra. This year it was organised at Brahma Sarover, Kurukshetra from 11th December 2015 to 24th December 2015. Kurukshetra Panorama & Science Centre (NCSM), Kurukshetra participated in this fourteen days programme with full enthusiasm. Kurukshetra Panorama & Science Centre Exhibition included panels on NCSM Nationwide Panels (03 Nos.) and Science is Fun Panel (04 Nos.) along with Table Top Exhibits.

KPSC also displayed its educational kits at its stall and Science Demonstration Lecture was also given to the general visitors. The Craft Mela is visited by more than six lakhs people.

Participation in Geeta Jayanti Mahotsava

Every Year Geeta Jayanti Mahotsava is being organized by Kurukshetra Development Board. This year also, it was organised at Brahma Sarover, Kurukshetra from 17th to 21st Dec. 2015 alongwith the Craft Mela. Kurukshetra Panorama & Science Centre (NCSM), Kurukshetra actively participated in this five days event programme. The Geeta Jayanti Mahotsava was visited by more than four lakhs fifty thousand visitors.

Participation in 4th International Fest VIBGYOR-2016

4th International Fest VIBGYOR was organized from 29th January 2015 to 31st January 2016 at Baba Farid Group of Institutions, Bathinda. The Centre participated actively in this three day programme with lots of publicity materials. Kurukshetra Panorama & Science Centre Exhibition include panels About 2.75 lakhs visitors visited the exhibition.

Participation in Science Fair conducted by Indian Resource and Development Association (IRADA)

Centre participated in three day Science Fair conducted by Indian Resource & Development Association (IRADA) at Technology Educational Reaserch Integrated Institutions (TERII), Barna, Kurukshetra from 6th February 2016 to 8th February 2016. The Centre participated in this three day programme with lots of publicity materials. Kurukshetra Panorama & Science Centre Exhibition included panels on NCSM Nationwide Panels (03 Nos.) and Science is Fun Panel (04 Nos.) along with Table Top Exhibits. About 3,000 visitors visited the stall of the Centre.



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

Name of the Centre	Venue of program	Description of Media	No. of teams participated	No. of plays performed	No. of Audience
NSC, Delhi	NSCD	Northern India Science Drama Contest on 15 th December 2015	10	10	2000
RSC, Lucknow	RSCL	Nukkad Natak Competition on 18.07.2015	07	07	250
KPSC, Kurukshetra	KPSC	-----	-----	-----	-----

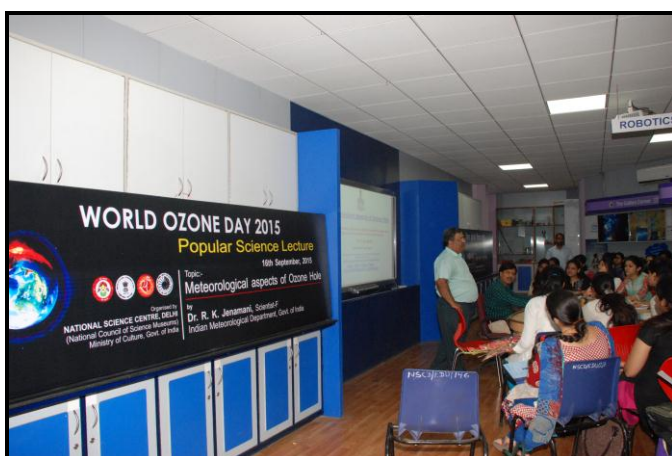


15. COMMEMORATIVE EVENTS

Name of the Centre	Name of the Events	No. of Programmes	No. of Participants
NSC, Delhi	Earth Day	2	250
	National Technology Day	2	315
	International Museum Day	2	150
	World Environment Day	3	475
	International Yoga Day	4	250
	World Population Day	2	250
	World Nature Conservation Day	2	150
	World Ozone Day	2	250
	National Science Day (2 days)	3	560
	World Forestry Day	4	250
RSC, Lucknow	Earth Day celebration	2	650
	Save the Frogs Day	1	350
	Biodiversity Festival	6	800
	International Biodiversity Day	3	250
	International Museum Day	2	250
	National Technology Day	2	250
	Global Hand wash Day	1	100
	Birth anniversary of Albert Einstein	2	180
	World students Day	1	180
	Brain Awareness Programme	4	300
	International Yoga Day		
	International Vulture Day	1	100
	World Environment Day	7	825
	Ground Water week	9	1240
	World Hepatitis Day	1	50
	Anniversary Day of RSCL	6	1250
	World Ozone Day	7	1450
	Wild Life Week Celebration	8	1700
	World Science Day Celebration	3	600
	World Leap Day	2	180
National Science Day	6	1050	
World Sparrow Week	5	350	
World AIDS day	1	200	



Name of the Centre	Name of the Events	No. of Programmes	No. of Participants
KPSC, Kurukshetra	Earth Day Celebration	5	550
	National Technology Day	5	400
	International Museum Day	3	350
	World Environment Day	5	200
	66th Van Mahotsava Celebration	3	400
	World Population Day	3	950
	World Nature Conservation Day	4	350
	World Ozone Day	5	350
	Wildlife Conservation Week	3	300
	World Science Day	4	400
National Science Day	4	400	
Anniversary Day	2	200	



16. TEMPORARY EXHIBITIONS

Name of The Centre	Title of The Exhibits	Date/Duration	No. of Visitors	No. of Visuals/ Panels	No. of working Animated Exhibits
NSC, Delhi	-----	-----	-----	----	-----
RSCL	Statistics At Work	18.03.2015 to 10.04.2015	3900	30 nos.	-----
	7 th Science-Expo 2016	05.02.2016 to 09.02.2016	6800	42 nos.	-----
KPSC, KKR	The Wonderful World of Crystals	Inagurated on 30.06.2015 & continued for 270 days	4,58,769	41	18



17. COLLABORATIVE PROGRAMMES

NSC, Delhi

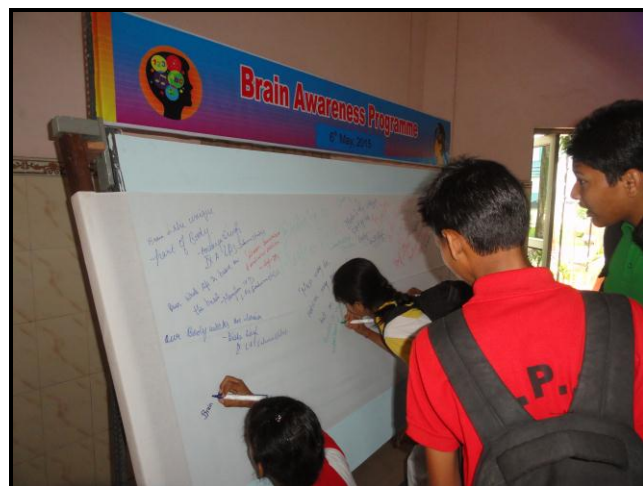
Sl. No.	Name of Collaborative Agency	Programme	Date of programme
1.	NCERT	Teachers Training Programme	24.06.2015
2.	Hara Jeevan-NGO	World Environment Day	05.06.2015
3.	Expression India-NGO	Workshop on 'Adolescent Peer Educators' Leadership in Life Skills'	21.07.2015
4.	Association of Science & Technology Science Centre, USA (ASTC)	International Climate Change Summit	27.09.2015 & 12.09.2015
5.	Cyme of Social Development	Uttarakhand Srajan 2015	15.10.2015 to 18.10.2015
6.	Rudram Marketing Pvt. Ltd., Delhi	Buddy- Daddy Family Bash	13.11.2015 to 15.11.2015
7.	Atlantis Research, New Delhi	Going Beyond	28.01.2016 to 30.01.2016
8.	Agastya International Foundation-NGO	Anveshana 2016 - a national level science & engineering fair	09.02.2016 to 11.02.2016
9.	University of Edinburgh, UK	Lecture on 'Renewable Energy for a Lower Carbon Future'	23.02.2016
10.	Vigyan Prasar	Science Film making workshop	24.02.2016 to 26.02.2016



RSC, Lucknow

Sl. No.	Name of Collaborative Agency	Programme	Date of Programme
1.	Society of Earth Scientists, Lucknow	Earth Day Celebration	22.04.2015
2.	Centre for Environment Education (Northern Region)	Save Gangetic Dolphin & Save Ganga	24.04.2015
3.	Club Of Lucknow	Seminar on Climate Change: A whisper of Nature	25.04.2015
4.	Zoology Department, Lucknow University and UP State Biodiversity Board, Lucknow	Save the Frogs Day	25.04.2015
5.	National Brain Research Centre, Manesar, Haryana	Brain Awareness Programme	06.05.2015
6.	Zoology Department, Lucknow University and UP State Biodiversity Board, Lucknow	Biodiversity Festival week	17.05.2015 to 21.05.2015
7.	Directorate of Environment, UP, Centre for Environment Education and Zoology Dept. Lucknow University	World Environment Day	04.06.2015 & 05.06.2015
8.	Ground Water Department, UP	Ground Water Week Celebration	16.07.2015 to 22.07.2015
9.	National Academy of Sciences (NASI), Allahabad	NASI Award Lecture	06.08.2015
10.	Centre for Environment Education(North)	Painting Competition on "Climate Change" for Science Express Train 2015	07.08.2015
11.	Lions Club, Lucknow	Screening of film " I am Kalam....and I dare to dream"	30.08.2015
12.	Zoology Dept. Lucknow University, Lucknow	International Vulture Awareness day	05.09.2015
13.	Directorate of Environment UP	World Ozone Day celebration	15.09.2015 & 16.09.2015
14.	Association of Knowledge Worker'	Popular Science Lecture on "Holistic Health Awareness using Ayurveda, Naturopathy and Yoga"	19.09.2015
15.	Doordarshan, Lucknow	Meet the Scientist Programme' on the topic 'Climate Change'	30.09.2015
16.	Department of Zoology, Lucknow University, UP State Biodiversity Board, Lucknow	'Wild Life Week Celebration'	01.10.2015 to 07.10. 2015
17.	District Science Club Lucknow	Cyber Security Awareness programme	10.10.2015
18.	HOPE Initiative, Lucknow	Global Hand Wash Day"	15.10.2015

19.	Centre for Environment Education (North)	BAL VAN: Environment Awareness Programme	21.12.2015
20.	Indian Science Communication Society (ISCOS)	15th Indian Science Communication Congress	02.12.2015 & 26.12.2015
21.	Innovation centre of Council Of Science & Technology, UP	Workshop on Tod-Fod-Jod (4 workshop)	20-21.01.2016 19-20.02.2016 10-11.03.2016 28-31.03.2016
22.	Film Division, Govt. of India	Mumbai International Film Festival	29.01.2016 to 31.01.2016
23.	Council Of Science & Technology, UP	Lucknow Mahotsava organized by District Administration, Govt. of UP	27.01.2016 to 07.02.2016
24.	Department of Zoology, Lucknow University, UP State Biodiversity Board, Lucknow	The Leap day	27.02.2016
25.	17 different scientific institutions & Universities, Major sponsored by CST, UP	7 th Science Expo 2016	05.02.2016 to 09.02.2016
26.	District Science Club Lucknow	Cyber Security Awareness programme	20.10.2015
27.	Council of Science and Technology, Uttar Pradesh	Innovative Project display contest"	27.02.2016 to 29.02.2016
28.	The National Academy of Sciences India (NASI), Lucknow Chapter and Uttar Pradesh Association of Sciences (UPAS)	National Science Day Celebration	27.02.2016 to 28.02.2016
29.	Breakthrough Science Society, Lucknow	Birth anniversary of Albert Einstein and centenary of "Theory of Relativity"	14.03.2016
30.	Department of Zoology, Lucknow University, UP State Biodiversity Board, Lucknow	World Sparrow Week celebration	15.03.2016 to 20.03.2016



KPSC, Kurukshetra

Sl. No.	Name of Collaborative Agency	Programme	Date of programme
1.	Lok Nayak Jai Parkash Hospital	Pulse Polio Immunization	21.02.2015 to 21.06.2015
2.	Haryana Forest Department, Kurukshetra	66th Taru Divas - Van Mahotsav Celebration	10.07.2015
3.	Haryana Forest Department	Wild Life Conservation Week Programme	01.10.2015 to 07.10.2015
4.	Vidya Bharti Akhil Bhartiya Siksha Sansthan	Rashtriya Gyan Vigyan Mela	28.11.2015 to 01.12.2015
5.	State Council of Educational Research and Training Campus, Chandigarh	Chandigarh State Level Science , Mathematics and Environment Exhibition for Children	01.12.2015 to 04.12.2015
6.	Kurukshetra Development Board	Participation in Geeta Jayanti Mahotsava	17.12.2015 to 21.12.2015
7.	Baba Farid Group of Institutions, Bathinda	4th International Fest VIBGYOR-2016	29.01.2016 to 31.01.2016
8.	Indian Resource And Development Association	Participation in Science Fair	06.02.2016 to 08.02.2016



18. LIBRARY & INFORMATION

Name of the Centre	Item	Total holding as on 31 st March Previous year	No. Acquired during current year	Net holding as on 31 st March of current year
NSC, Delhi	Books	6418	239	6657
	Journals	914	---	914
	Audio/Visual (CD-ROM/DVD/Blue-Ray etc.)	760	---	760
RSC, Lucknow	Books	2178	70	2178
	Journals	899	36	935
	Leaflets			
	Films 16mm	61+1 spool	---	61+1 spool
	Films 36mm	--	--	--
	Audio cassettes	7	--	7
	Video tapes	15	--	15
KPSC, Kurukshetra	Video CDs.	118	24	122
	Books	1117	64	1181
	Video CDs	256	--	256

19. PUBLICATIONS OF THE MUSEUM/ CENTRE

List of Publications from Museum / Centre

Name of the Centre	Name of the Publication	Process	Number Printed	Expenditure Incurred (Rs.)
NSC, Delhi	Poster (11" X 6.5"), 4 Colours	Offset Printing	5000	18635.00
	Booklet (88 pages, 4 cover), 4 Colours	Offset Printing	200	36750.00
	Folder (8.5" X 5.5"-3 Fold), 4 Colours (NPCIL)	Offset Printing	5000	24938.00
	Folder (Hindi), 4 Colours (NPCIL)	Offset Printing	5000	21788.00
	Souvenir (56 pages, 4 cover), 4 Colours	Offset Printing	300	65835.00
RSC, Lucknow	RSCL Newsletters	Offset printing	1000	3402.00
	Folder of Innovation hub	Offset printing	5000	15000.00
	RSCL Newsletters	Offset printing	1000	4000.00
	Leaflet MSE Single page	Offset printing	5000	2500.00
	Scimax Poster	Offset printing	2000	5160.00
	RSCL Newsletters	Offset printing	1000	4200.00
	Leaflets Lucknow Mohatsava	Offset printing	4000	3800.00
	Folder Astronomy Gallery, Gorakhpur	Offset printing	5000	12500.00
Science Expo booklet	Offset printing	936	22932.00	
KPSC, Kurukshetra	Summer Vacation Hobby Camp Booklets	Digital Printing	125	4750.00

Teachers Training Programme Booklets	Digital Printing	200	4400.00
Vinyl printing of labels for MSE on Fun Science	Digital Vinyl Printing	04	3600.00
Vinyl printing of labels for MSE on Mathematics	Digital Vinyl Printing	20	18000.00

राष्ट्रीय विज्ञान संगोष्ठी 2015
National Science Seminar 2015
 October 08, 2015

प्रकाशोपयोग
 संभावनाएं एवं चुनौतियाँ
HARNESSING LIGHT
 Possibilities and Challenges

राष्ट्रीय विज्ञान केन्द्र, दिल्ली
NATIONAL SCIENCE CENTRE, DELHI
 Organized by:
NATIONAL COUNCIL OF SCIENCE MUSEUMS
 Ministry of Culture, Govt. of India

Supported by:

राष्ट्रीय विज्ञान संगोष्ठी 2015
 (आठवीं से दसवीं कक्षा तक के विद्यार्थियों के लिए)
National Science Seminar 2015
 (for Students of Class VIII to X)

प्रकाश उपयोग:
 संभावनाएं एवं चुनौतियाँ
HARNESSING LIGHT:
 Possibilities and Challenges

8th OCTOBER 2015

Venue:
NATIONAL SCIENCE CENTRE, DELHI
 Pragati Maidan, Near Gate No. 1, Bahadur Road, New Delhi -110 001
 Phone:(011) 2337 1833/1297, E-mail: nscd101@gmail.com, Website: www.nscdhi.org

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Participate to win fabulous prizes & scholarships

Energy & the Civilization

Energy drives human progress & is the pivot of modern life.

Energy in the form of electricity is the most versatile form of energy. It is so fundamental to the modern society that we simply cannot imagine a world without electricity even for a single day. Electricity drives industries, information technology, rail transportation, agriculture, hospitals, schools, colleges, illumination, household appliances - you name it. Indeed, electrical energy has made the modern world possible not only by largely substituting human labor with machine power, but also by fostering numerous innovations that have transformed our lives so wonderfully.

The need for Nuclear Power

In India, traditional energy resources like coal, oil and gas are limited, while there is an ever-increasing demand for power and the per capita electricity consumption in the country is expected to reach 5000-6000 kWh by the year 2050 from less than 1000 kWh per capita currently. To meet this fast rising demand for electricity, we must have a diverse and potent portfolio of energy resources. Fortunately, we have vast reserves of thorium, a nuclear fuel that can contribute significantly to the electricity generation in the country for centuries, thereby providing pollution-free, environment-friendly electricity for centuries and also ensuring long term energy security for the nation.

Hall of Nuclear Power Atoms Serving the Nations

This gallery at the National Science Centre, New Delhi, spread over an area of more than 7000 square feet showcases myriad applications of nuclear energy and radiation in the services mankind.

The gallery has a fascinating audio-visual and interactive feast in store for the visitors, with an array of over 60 permanent exhibits depicting the various aspects of nuclear energy and application of radiation for the betterment of human life. The gallery also focuses on several salient aspects of nuclear power generation, from mining and processing of uranium ore, to fabrication of nuclear fuel, and from the intricate of a nuclear power plant, to the actual principles and mechanisms that form the basis of nuclear power generation. The gallery also explains to the visitor the vital aspects of nuclear safety - which is given the utmost priority - right from the from environmental monitoring that begins even before a nuclear power plant comes into existence, to every step involved in the setting up, and operating a nuclear power plant, as well as the safe and professional manner in which waste is managed.

At the 'Rutherford's Gold Foil Experiment' exhibit at the gallery, for example, a visitor can interactively learn about the famous experiment that was conducted in 1911 to explain the structure of the atomic nucleus.

The Birth of the Nuclear Age is an exhibit that reveals the little-known historical aspects of an ingenious and truly bold experiment conducted in 1942 by Enrico Fermi and his distinguished team that physically demonstrated the first controlled nuclear chain reaction, thereby opening up the path to nuclear power generation.

Another exhibit at the gallery called 'Control Your NPP', which is a miniature cut section mock-up of Pressurised Heavy Water Reactor (PHWR) makes an exciting experience of visiting the insides of a nuclear power plant - virtually. In this exhibit, visitors can undertake a journey, virtual walk-through, of a typical nuclear power plant on a large format projection system in which various aspects of nuclear power generation are explained using 3D models and animations.

Students can take an interactive quiz challenge to test their knowledge and at the same time learn in a fun way.

In the 'Ask the Experts' exhibit, three nuclear experts come alive virtually to answer your questions about topics such as safety of a nuclear power plant, India's three-stage nuclear power programme, utilization of the country's vast thorium reserves, etc. The most appealing thing about this exhibit is that the three experts 'magically' appear right before you in the form of a holographic projection to answer the questions that you have selected through an interactive touch panel.

20. CONSTRUCTION**NSC, Delhi**

Name of the Work	Date of start	Date of completion	Amount (in Rs.)
Supply and fixing of PVC flooring in Nuclear Power Gallery at NSC, Delhi.	31.07.2015	14.08.2015	731384.00
SITC of 01 No. Submersible drainage pumps for ramp side at NSC, Delhi.	21.01.2016	23.02.2016	220414.00
Face lifting of energy ball area at National Science Centre, Delhi.	04.03.2016	31.05.2016	445086.00

RSC, Lucknow

Name of the Work	Date of start	Date of completion	Amount (in Rs.)
SITC of cassette air conditioner in children gallery at RSCL	15.10.2015	27.11.2015	445000.00
False Ceiling in children gallery at RSCL	10.09.2015	09.10.2015	260000.00
Water proofing of balance sloped roof in old building at RSCL	22.07.2015	21.10.2015	836000.00
PU Whether coat painting of steel structure at main gate	09.12.2015	08.03.2016	442000.00
Construction of visitors holding area in the main entrance at RSCL	15.12.2015	02.02.2016	387000.00
Providing & fixing of light fixture and lighting for children gallery	20.07.2015	19.01.2016	187000.00

KPSC, Kurukshetra

Name of the Work	Date of start	Date of completion	Amount (in Rs.)
Providing and fixing false ceiling in the Auditorium	20.10.2015	19.11.2015	180036.00
Supply, Installation, Testing & Commissioning of rotating granite ball (hollow) fountain	30.11.2015	24.12.2015	920000.00
Construction of water body for Granite Ball Fountain	30.11.2015	26.12.2015	104420.00
Providing and laying PVC flooring in viewing platforms and entry stairs of Panorama	04.12.2015	03.12.2015	264430.00
Plinth protection and surface drain	23.02.2016	10.04.2016	340260.00

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

Sl. No.	Name of the Equipment	Date of procurement	Cost in Rs.
1.	Printer, Laserjet, (Samsung 3310nd)	16.04.2015	12075.00
2.	Fax Machine Laser	06.08.2015	12850.00
3.	Scanner, handheld A-4, (Portronics)	19.08.2015	6290.00
4.	Air Curtain	29.06.2015	88539.00
5.	UPS 10 KVA with 26 AH, 12V Batteries	01.10.2015	168750.00
6.	Scrubbing Machine, Lavor, 45E	04.11.2015	179438.00
7.	Laptop Computer Dell 7348	05.12.2015	76000.00
8.	Laptop Computer Dell 5558	05.12.2015	55000.00
9.	Hard Disc, 1 TB, WD	05.12.2015	4350.00
10.	Dell Precision Tower M5810	18.05.2015	145353.00
11.	Canon DSLR Camera EOS 70 D	31.03.2016	83300.00
12.	Scrubber Drier Machine	31.03.2016	176456.00
13.	Single Disc Scrubbing/Polishing Machine	31.03.2016	123244.00
14.	IP Camera CCTV	31.03.2016	2972440.00
15.	Epson Printer	31.03.2016	9975.00
16.	Software for Offline Ticket Booking	31.03.2016	129767.00

RSC, Lucknow

Sl.No	Name of the Equipment	Date of procurement	Cost in Rs.
1.	Jig Saw Machine	14.09.2015	9416.00
2.	Laser jet printer HP	23.12.2015	9850.00
3.	Multimedia LED Projector -02 nos.	21.01.2016	97800.00
4.	Multimedia LCD Projectors -02 nos.	08.02.2016	109980.00

KPSC, Kurukshetra

Sl.No	Name of the Equipment	Date of procurement	Cost in Rs.
1.	Kettle, Cordless 1.7 Ltr. Cap. (Bajaj Make)	13.08.2015	1150.00
2.	Hand Angle Grinder Machine Dewalt Make	13.08.2015	2390.00
3.	Modem, D.S.L. 300 M wireless-N (I-Ball Make)	22.08.2015	2450.00
4.	LCD/LED Monitor 21.5" (Palas) - 02 nos.	28.08.2015	64680.00
5.	Panel 23", Kiosk Computer	28.08.2015	30849.00
6.	Panel P.C. 23" (HP Make)	28.08.2015	57120.00
7.	Dot Matrix Printer TVS MSP 250 STAR	18.09.2015	9850.00
8.	P.A. System	18.09.2015	309900.00
9.	UPS 1 KVA (Microtek)	07.11.2015	4500.00
10.	Attendance Bio-Matric Machine	07.11.2015	9000.00
11.	Vacumm Cleaner Heavy Duty, Wet & dry (Eureka Forbes)	10.02.2016	25000.00

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. Arvind Patel	Curator 'B'	01.06.2015
	2.	Sh. Ashok Kumar	Lower Division Clerk	12.01.2016
	3.	Sh. Ved Prakash	Lower Division Clerk	19.01.2016
	4.	Sh. Mahipal	Technician 'A' (Computer Hardware & Networking)	05.02.2016
RSC Lucknow	1.	--	--	--
KPSC, KKR	1.	--	--	--

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.	Sh. D Rama Sarma	Curator 'F' & Director Gr. IV(5)	Curator 'G' & Director Gr. IV(6)	01.07.2014
	2.	Sh. Sujay Majumder	Curator 'C' Gr. IV(2)	Curator 'D' Gr. IV(3)	23.10.2014
	3.	Sh. MME Namboodiri	Administrative Officer	Controller of Administration	02.02.2016
	4.	Sh. KK Misra	Finance & Accounts Officer Gr-I	Dy. Controller of Finance & Accounts	02.02.2016
	5.	Sh. Avijit Sarker	Exhibition Officer 'B' Gr. III(4)	Exhibition Officer 'C' Gr. III(5)	25.09.2013
	6.	Sh. Dinesh Kumar Malik	Education Officer 'B' Gr. III(4)	Education Officer 'C' Gr. III(5)	03.10.2013
	7.	Sh. Vinay Kumar	Education Asstt. 'A' Gr. III(1)	Education Asstt. 'B' Gr. III(2)	29.05.2013
	8.	Sh. Sushil Kumar Sah	Technical Asstt. 'A' (Electronics) Gr. III(1)	Technical Asstt. 'B' (Electronics) Gr. III(2)	24.03.2014
	9.	Sh. Darshan Chauhan	Library Asstt. 'A' Gr. III(1)	Library Asstt. 'B' Gr. III(2)	18.07.2014
	10.	Sh. Shoaib Akhtar Usmani	Education Asstt. 'A' Gr. III(1)	Education Asstt. 'B' Gr. III(2)	17.08.2014
	11.	Sh. Hem Lal Sidar	Technician 'C' (Turner) Gr. II(3)	Technician 'E' (Turner) Gr. II(5)	09.06.2013

	12.	Smt. Chhaya Gupta	Artist 'C' Gr. II(3)	Artist 'E' Gr. II(5)	23.03.2014
	13.	Smt. Shakuntla Sharma	Artist 'C' Gr. II(3)	Artist 'E' Gr. II(5)	26.07.2014
	14.	Sh. Hem Raj	Technician 'C'(Fitter) Gr. II(3)	Technician 'E'(Fitter) Gr. II(5)	27.01.2015
	15.	Sh. Sukhwinder Singh Chauhan	Technician 'A' (Electronics) Gr. II(1)	Technician 'AB' (Electronics) Gr. II(2)	13.11.2012
RSC Lucknow	1.	Sh. Ram Kumar	Education Officer 'A' Gr. III(3)	Education Officer 'B' Gr. III(4)	10.09.2013
	2.	Smt. Kiran Verma	Artist 'A' Gr. II(1)	Artist 'B' Gr. II(2)	08.01.2014
KPSC, KKR	1.	Sh. Sujeet Kumar	Education Asstt. 'A' Gr. III(1)	Education Asstt. 'B' Gr. III(2)	08.07.2013
	2.	Sh. Ramesh Chander	Technician 'A' Gr. II(1)	Technician 'B' Gr. II(2)	02.05.2013
	3.	Sh. Jitender Kumar	Education Officer 'A' Gr. III(3)	Education Officer 'B' Gr. III(4)	24.06.2014
	4.	Sh. Bimal Parkash	Technician 'A' (Ref. & A/C) Gr. II(1)	Technician 'B' (Ref. & A/C) Gr. II(2)	12.09.2014

c) Transfers

Name of the Centre	Full name of Personnel	Designation	Transferred		Effective Date Of Transfer
			From	To	
NSC, Delhi	1. Sh. N R Iyer	Curator 'E'	NSC, Delhi	RSC, Nagpur	01.06.2015
	2. Sh. Pankaj Kumar	Section Officer (F&A)	NSC, Delhi	NSC, Mumbai	29.02.2016
RSC Lucknow	--	--	--	--	--
KPSC, KKR	--	--	--	--	--

d) Retirement/ Repatriation/Resignation

SI. No	Full name of Personnel	Designation	Name of the Centre	Date of retirement/ Release	Remarks mention Retirement/ Repatriation
1.	Sh. Krishnendu Biswas	Exhibition Asstt. 'A'	NSC, Delhi	26.12.2015	Resigned to take up another appointment

e) Foreign Deputations

NSC, Delhi

1. Sh. D. R. Sarma, Director, 17.01.2016 to 22.01.2016, Colombo, Mauritius
2. Sh. Anurag Kumar, Curator, 10.05.2015 to 05.06.2015, Malaysia
3. Sh. S. K. Pandita, Exhibition Officer, 12.05.2015 to 17.05.2015, Malaysia
4. Sh. N. R. Iyer, Curator, 12.04.2015 to 08.05.2015, Penang
5. Sh. B. B. Srivastava, Education Officer, 15.10.2015 to 23.10.2015, Kazan, Russia
6. Sh. Sujay Majumder, Curator, 26.01.2016 to 19.02.2016, Colombo, Srilanka
7. Sh. Rakesh Kumar, Technician, 12.04.2015 to 07.05.2015, Penang
8. Sh. V. K. Pant, Technician, 10.05.2015 to 05.06.2015, Malaysia
9. Sh. Deepak Kumar, Technician, 26.01.2016 to 19.02.2016, Colombo, Srilanka
10. Sh. Kamaljeet, Technician, 01.03.2016 to 15.03.2016, Mauritius

RSC, Lucknow

1. Sh. Umesh Kumar, PC, 11.06.2015 to 13.06.2015, Trento, Italy
2. Sh. Soumen Ghosh, Curator, 01.03.2016 to 15.03.2016, Mauritius
3. Sh. D. G. Khobragade, Technician, 10.05.2015 to 18.05.2015, Malaysia

KPSC, Kurukshetra

1. Dr. Raj Mehrotara, PC, 14.05.2015 to 18.05.2015, Colombo, Srilanka



23. DISTINGUISHED VISITORS

NSC, Delhi

Sl. No	Name of the Personnel	Designation/organisation
1.	Dr. Harsh Vardhan	Hon'ble Minister of Science & Technology and Earth Sciences, Government of India
2.	Dr. Jitendra Singh	Hon'ble Minister of State (Independent Charge), PMO, MoPPP, Department of Atomic Energy, Department of Space & NE Region
3.	Prof. Ashutosh Sharma	Secretary, Department of Science and Technology, Govt. of India
4.	Shri N. K. Sinha	Secretary, Ministry of Culture, Government of India
5.	Shri Sekhar Basu	Chairman, Atomic Energy Commission & Secretary,
6.	Shri Kailash Chandra Purohit	Chairman & Managing Director, NPCIL
7.	Padma Vibhushan Prof. Yashpal	Eminent Scientist & Former Chancellor, JNU, New Delhi
8.	Dr. Sonal Mansingh	Padma Vibhushan, iconic cultural personality, Guru, choreographer
9.	Dr. Saroj Ghose	Former DG, NSCM & Advisor (Museums) to the President of India
10.	Dr. (Mrs.) Shovana Narayan	Padmashri & Sangeet Natak Academy Awardee, Eminent Kathak Guru & Retd. IAAS
11.	Dr. Kavita A. Sharma	President, South Asian University, New Delhi
12.	Prof. Talat Ahmad	Vice Chancellor, Jamia Milia Islamia
13.	Prof. R. C. Sobti	Chairman, GB, NCSM
14.	Dr. Manoj Kumar Patariya	Additional Director General, Prasar Bharti, Doordarshan
15.	Prof. Romila Thapar	Professor Emeritus at Jawaharlal Nehru University (JNU), New Delhi
16.	Shri Amreswar Galla	Director, Inclusive Museum
17.	Shri Biman Basu	Former Editor, Science Reporter, New Delhi
18.	Dr Anamika Sagar	Scientist, Central Pollution Control Board, New Delhi
19.	Shri Raghuvansh Saxena	Country Director, Earthwatch, New Delhi
20.	Ms. Vijayta Gupta	CEO, iKadam, New Delhi
21.	Prof. Surya Prakash	School of Life Sciences, JNU, New Delhi
22.	Dr. Dibakar Rakshit	IIT, New Delhi
23.	Dr. M. Mohapatra	Scientist, Indian Meteorological Department, New Delhi
24.	Shri Sharad Gaur	Project Director, Centre for Environmental Education, New Delhi
25.	Ms. Deeksha Bisht	Deputy Manager, Development Alternatives, New Delhi
26.	Smt. Usha Kumari	Additional Director (Science), Directorate of Education, Delhi Government
27.	Shri Ashutosh Ghose	Deputy Director (Science), Directorate of Education, Delhi Government
28.	Shri Joseph Emmanuel	Secretary, Central Board for Secondary Education, Delhi
29.	Dr. V. K. Aatre	Padma Vibhushan, Scientist and former Head of DRDO
30.	Shri Sudhanshu Sharma	Founder Director, India STEM Foundation
31.	Shri Arvind Ranade	Scientist, Vigyan Prasar
32.	Dr. Md. Asrarul Haque	former Director (Scientific), Ministry of Environment, Forest and Climate Changes, Govt. of India
33.	Prof. K. Thayagarajan	Head, Department of Physics, IIT Delhi
34.	Dr. Mahendra Pandey	Former Scientist, Central Pollution Control Board, New

		Delhi
35.	Dr. D. K. Kansal,	Principal, Indira Gandhi Institute of Physical Education & Sports Sciences, University of Delhi.
36.	Dr. R. K. Jenamani	Scientist, Indian Meteorological Department, Govt. of India.
37.	Professor A. P. Dimri	Professor, School of Environmental Science, Jawaharlal Nehru University, New Delhi
38.	Dr. Pranjal Trivedi	Assistant Professor, Department of Physics, Sri Venkateswara College, Delhi-110 021
39.	Dr. Patrick Das Gupta	Professor, Department of Physics and Astrophysics, University of Delhi, Delhi-110007
40.	Dr. Anjan Ananda Sen	Professor, Centre of Theoretical Physics Jamia Millia Islamia, New Delhi
41.	Dr. Rathnasree Nandivada	The Director, Nehru Planetarium, Teen Murti Bhavan, Teen Murti Marg Area, New Delhi
42.	Prof. Samir Brahmachari	Former Director General, Council of Scientific and Industrial Research, New Delhi
43.	Ms. Heather Paul	NASA Engineer, USA
44.	Mr. Sam Gibbs	International Science Educator, USA
45.	Shri S. K. Bagchi	Eminent Science Communicator and Former Director, BITM, Kolkata
46.	Dr. A. Robin Wallace	Professor, Institute of Energy Systems, School of Engineering, University of Edinburgh, UK
47.	Prof. Iftekhar Ahmad	Director, AJK Mass Communication Research Centre, Jamia Millia Islamia, New Delhi
48.	Shri Kul Bhushan	Retd. Senior Director, Doordarshan
49.	Dr. T V Venkateshwaran	Scientist, Vigyan Prasar
50.	Shri Nimish Kapoor	Scientist, Vigyan Prasar
51.	Shri Maitur Rehman	Eminent science film makers
52.	Dr. Mike Pandey	Eminent science film makers
53.	Shri Ravi Kumar Bansal	Scientific Officer, Nuclear Power Corporation of India Ltd.
54.	Prof. Radhey Shyam Sharma	Department of Environmental Studies, Delhi University



RSC, Lucknow

Sl. No.	Name of the Personnel	Designation//Organization
1.	Dr. Dinesh Sharma	Mayor, Lucknow
2.	Smt Pratibha Singh, IFS	Chairperson, UP state Biodiversity board
3.	Shri N. C. Bajpai,	Ex. Commissioner, Planning Commission chaired
4.	Padmshri Dr. Nityaanand,	Former Director , CSIR-CDRI
5.	Dr. A. B. Pant	Sr. Scientist, Indian Institute of Toxicology Research, Lucknow
6.	Dr. H. M. Behl,	Consultant Scientist, Biotech Park, Lucknow
7.	Shri Chandra Prakash (IAS),	Principal Secretary, Minor Irrigation, Ground Water Department, Govt. of UP
8.	Shri Bharat Lal	Special Secretary, Minor Irrigation and Ground Water Dept
9.	Dr. K. C. Gupta	Ex-Director, CSIR-IITR, Lucknow
10.	Dr. Rajeev Uppadhaya	Member Secretary, Uttar Pradesh Pollution Control Board
11.	Prof. Dhruvsen Singh,	Professor, Department of Geology, Lucknow
12.	Mrs. Shruti Shikla	Dy. Director, Directorate of Environment, UP
13.	Smt. Nidhi Srivastava	Additional District Magistrate, Lucknow
14.	Dr. Harish K. Dwivedi	Director Amity University, Lucknow
15.	Shri V. P. Gaur	Director (Rajya Bhasha) , Ministry of Culture, Govt. of India, New Delhi
16.	Dr. K. M. Kamble	Head, Radiology Department, Government Medical College, Nagpur
17.	Prof. A. S. Vidyarthi,	Director, Institute of Engineering & Technology, Lucknow
18.	Shri Sarvagya Ram Mishra,	IAS, Special Secretary to UP Government, Tourism Department and Managing Director, Uttar Pradesh State Tourism Development
19.	Dr. Manoj Pataria,	eminent science communicator & Deputy Director General, Prasar Bharti
20.	Dr. C. S. Nautiyal	Director, CSIR- NBRI, Lucknow
21.	Dr. D. K. Srivatava, UP.	Joint Director, Innovation Cell, Council of Science & Technology , UP
22.	Shri Prithvi Raj Chauhan,	Director Akasvani & FM Radio, Lucknow
23.	Prof. C. L. Khetrapal,	Vice-Chairman, Centre of Bio-Medical Research, SGPGI, Lucknow
24.	Prof. V. K. Tandon	Former Head & Dean, Faculty of Science, Lucknow University
25.	Prof R.C. Tiwari	Chief Medical Superintendent, King George Medical University, Lucknow
26.	Dr. M.K.J. Siddiqui	Director & Secretary, Council of Science & Technology, UP
27.	Prof. S. W. Akhtar,	Vice Chancellor, Integral University, Lucknow
28.	Dr. Alok Dhawan,	Director CSIR-IITR, Lucknow
29.	Dr. A. D. Pathak,	Director, Indian Institute of Sugarcane Research, Lucknow
30.	Shri Vinay Kumar Agarwal,	Executive Director, RDSO, Lucknow
31.	Shri Ajay Kumar Gupta,	Dy. Director General, National Sample Survey Office, Lucknow

KPSC, Kurukshetra

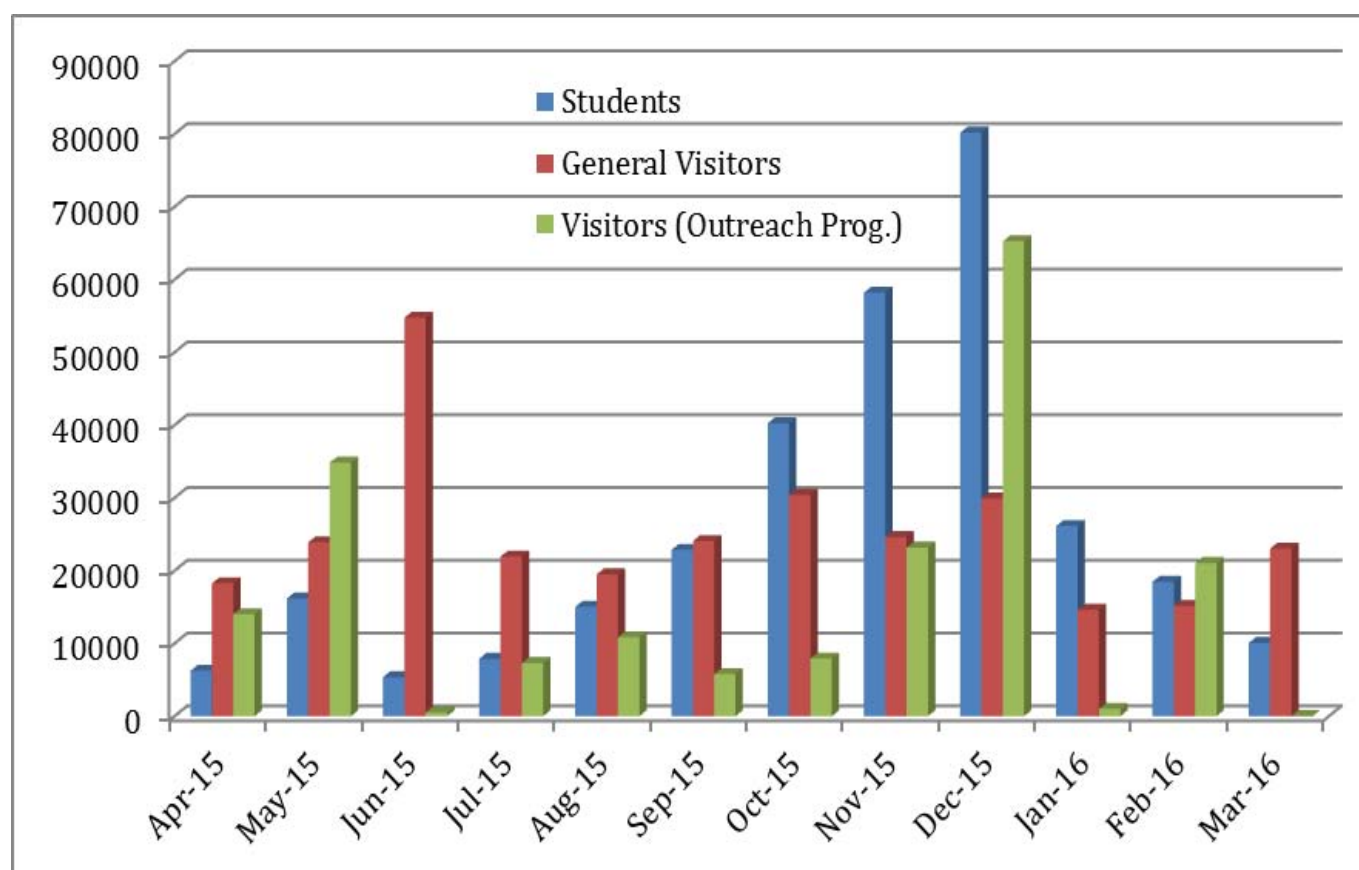
S. No.	Name of the Personnel	Designation//Organization
1.	Dr. Mahesh Sharma	Minister of State, Ministry of Tourism and Culture, Govt. of India
2.	Ms. Leena Nair	Chairman MPEDA(MOCI), Kochi
3.	Justice Rajesh Bindal	Judge, Punjab and Haryana High Court, Chandigarh
4.	Sh. K Durga Parsad	Director Genral CRPF, New Delhi
5.	Sh. K. P. Krishnan	Additional Secretary(Land Resources) Ministry of Rural Development, Govt. of India
6.	Justice U. Eswaraiah	Chairman, NCBC, Govt. of India
7.	Dr. D. K. Kharat	Director, DRDO, New Delhi
8.	Sh. Deepak Maheshwari	Pr. Secretary, Law, Govt. of Rajasthan
9.	Sh. Gagandeep Mittal	C.G.M. Kurukshetra
10.	Sh. Arun Naithani	Chief-sub-Editor, Dainik Tribune, Chandigarh
11.	Sh. Alok Verma	Chief-sub-Editor, Amar Ujala, Chandigarh
12.	Sh. Uttam chand Ninania	Senior-sub-Editor, Dainik Bhaskar , Chandigarh
13.	Sh. Ram Vilas Sharma	Tourism Department, Govt. of Haryana
14.	Dr. Pawan Saini	M. L. A., Ladwa
15.	Sh. Krishan Bedi	M. L. A., Shahbad
16.	Sh. T. J. Alone	Director, ASI
17.	Sh. Gyanendra Nath Srivastva	Joint Director ASI, Chandigarh
18.	Sh. K. Makrand Pandurang	D. C., Kaithal
19.	Mohd. Khalid Khan	Joint Secretary, Rajya Sabha
20.	Ms. Rajni Kaushal	JMIC, Pehowa, Kurukshetra
21.	Justice D. Murugesan	Member, NHRC, New Delhi
23.	Sh. Sunil K Agarwal	AGM, Northern Railway
24.	Sh. Vijay Singla	M.D., Haryana Agro, Govt. of Haryana
25.	Sh. C. V. Suresh Babu	Addl. Pvt. Secretary, Ministry of Urban Development, Govt. of India
26.	Sh. V. S. Sampath	Former Chief Election Commissioner of India
27.	Sh. Rajender Kumar	Principal Chief Commissioner, Chandigarh
28.	Dr. Satyapal Singla	M. P., Baghpat
29.	Sh. Bikram Singh Yadav	Minister of Co-operative Department, Govt. of Haryana
30.	Lt General A. Chakravarty	DG, NCC
31.	Mr David Lelliot	British Deputy High Commisioner, Chandigarh
32.	Dr. Arun Kesarwani	Professor, Ancient History Department, Kurukshetra University, Kurukshetra
33.	Dr. N N Dogra	Department of Geology, Kurukshetra University, Kurukshetra
34.	Dr. Sandeep Gupta	Asstt. Professor, Institute of Life Sciences, Kurukshetra University Kurukshetra, Kurukshetra
35.	Dr. M. S. Chauhan	Retired Professor Department of Physical Education, Kurukshetra University, Kurukshetra
36.	Dr. Rajan Kumar	Medical Officer, Lok Nayak Jai Parkash Hospital, Kurukshetra
37.	Sh. Banarsi Das	District Traffic Police Incharge, Kurukshetra

38.	Shri Rajinder Saini	District Training Officer, Indian Red Cross Society, Kurukshetra
39.	Dr. Rajni Bali	Yoga Trainer, Department of Physical Education, Kurukshetra University Kurukshetra, Kurukshetra
40.	Dr. R. B. S. Yadav	Assistant Professor, Department of Geophysics, Kurukshetra University, Kurukshetra
41.	Ms Lucky Arora	District Statistical Officer, Kurukshetra
42.	Dr. Meenakshi Suhag	Assistant Professor, Institute of Environmental Studies, Kurukshetra University, Kurukshetra
43.	Dr. A. R. Chaudhary,	Chairman, Department of Geology, Kurukshetra University, Kurukshetra



VISITORS STATISTICS (YEAR 2015 - 2016)**A. National Science Centre, Delhi**

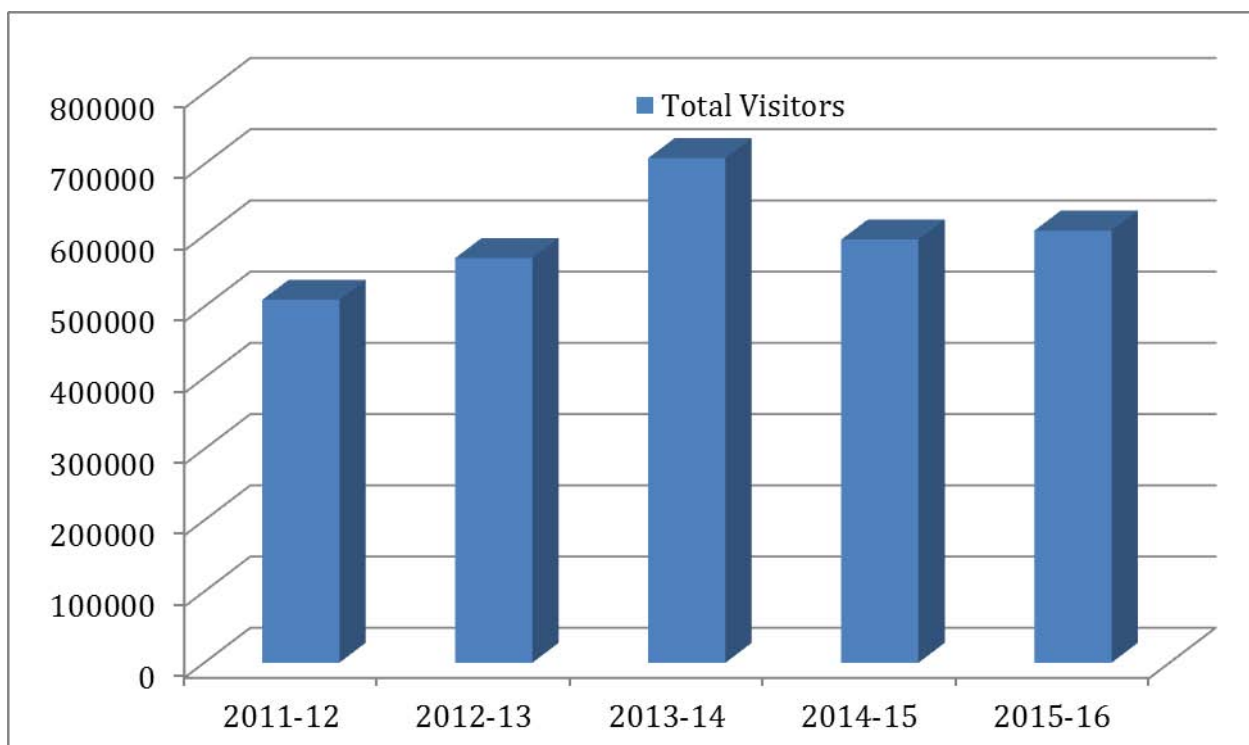
Months	Students	General Visitors	Visitor (Outreach Prog.)	Total
April, 2015	6242	18236	14002	38480
May, 2015	16152	23884	34829	74865
June, 2015	5355	54740	515	60610
July, 2015	7887	21934	7300	37121
August, 2015	15023	19481	10843	45347
September, 2015	22869	24064	5774	52707
October, 2015	40244	30417	7921	78582
November, 2015	58178	24600	23168	105946
December, 2015	80172	29904	65260	175336
January, 2016	26126	14598	1000	41724
February, 2016	18464	15138	21049	54651
March, 2016	10059	23027	0	33086
Total	306771	300023	191661	798455



B. National Science Centre, Delhi (On Site)

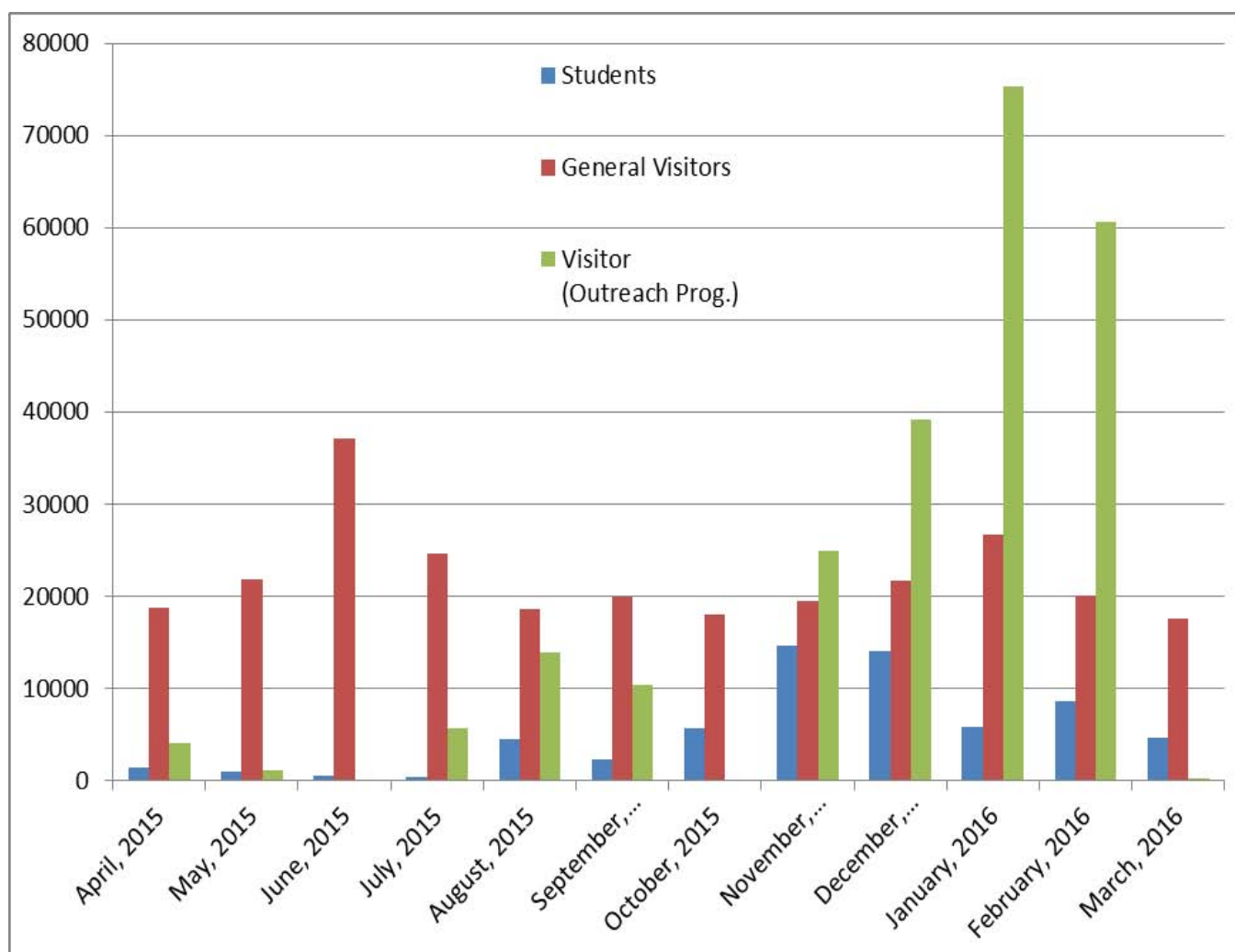
Visitors' Profile in the last five years at NSC, Delhi (Excluding Outreach Visitors)

Year	Total Visitors
2011-12	509538
2012-13	568242
2013-14	708599
2014-15	594214
2015-16	606794



C. Regional Science City, Lucknow

Months	Students	General Visitors	Visitor (Outreach Prog.)	Total
April, 2015	1452	18800	4000	24252
May, 2015	906	21800	1100	23806
June, 2015	532	37156	0	37688
July, 2015	406	24637	5612	30655
August, 2015	4422	18613	13827	36862
September, 2015	2253	19925	10328	32506
October, 2015	5673	18066	0	23739
November, 2015	14627	19447	24947	59021
December, 2015	14052	21747	39096	74895
January, 2016	5871	26616	75308	107795
February, 2016	8592	20071	60595	89258
March, 2016	4676	17579	285	22540
Total	63462	264457	235098	563017



D. Regional Science City, Lucknow (On Site)

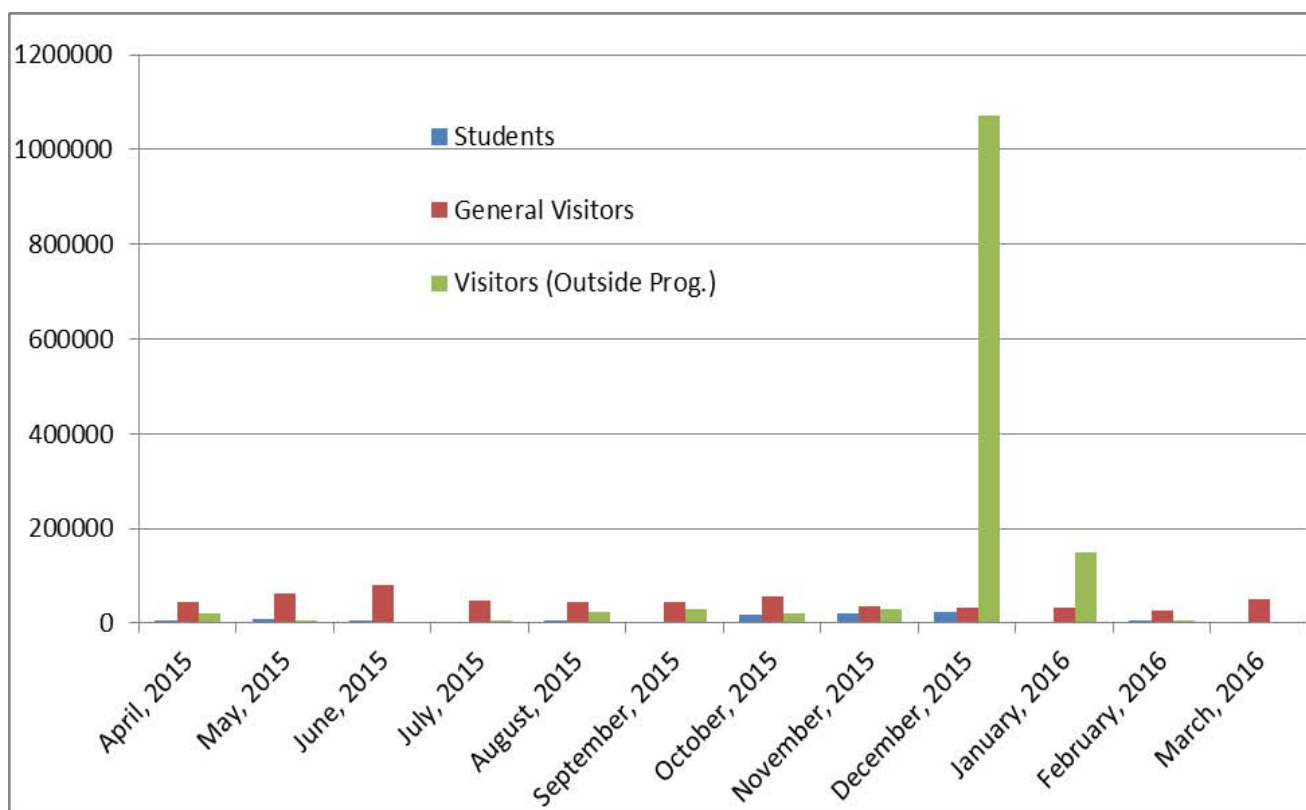
Visitors' Profile in the last five years at RSC, Lucknow (Excluding Outreach Visitors)

Year	Total Visitors
2011-12	276199
2012-13	287221
2013-14	313829
2014-15	304323
2015-16	327919



E. Kurukshetra Panorama & Science Centre, Kurukshetra

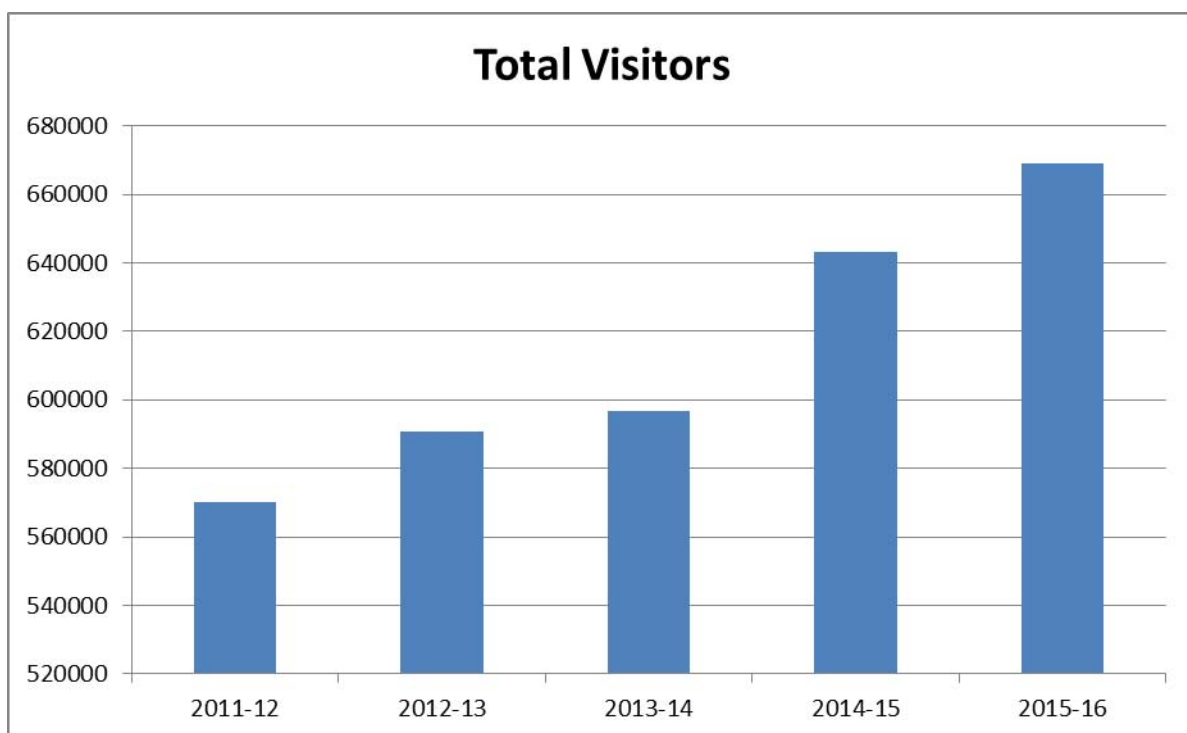
Months	Students	General Visitors	Visitor (Outreach Prog.)	Total
April, 2015	6537	44495	20000	71032
May, 2015	10098	61866	5284	77248
June, 2015	6227	80924	-	87151
July, 2015	2667	46825	5923	55415
August, 2015	5844	45679	24125	75648
September, 2015	4071	44951	30000	79022
October, 2015	16600	57757	21587	95944
November, 2015	20516	36774	28586	85876
December, 2015	23094	34023	1070982	1128099
January, 2016	1621	32438	150000	184059
February, 2016	6653	25702	5502	37857
March, 2016	4280	49274	1864	55418
Total	108208	560708	1363853	2032769



F. Kurukshetra Panorama & Science Centre, Kurukshetra (On Site)

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

Year	Visitors
2011-12	570096
2012-13	590912
2013-14	596848
2014-15	643203
2015-16	668916



LIST OF EXHIBITS DEVELOPED / RENOVATED/ PROCURED**A. National Science Centre, Delhi**

Sl.No	Name of the Exhibition/Exhibits	Type of exhibit	Location
A	Hall of Nuclear Power - Atoms Serving the Nation		
01.	Entry Plaza	New	NP Gallery
02.	The story of Atom	New	NP Gallery
03.	Nuclear Fusion	New	NP Gallery
04.	Nuclear Fission	New	NP Gallery
05.	The Birth of 'Nuclear Age'	New	NP Gallery
06.	Sun: A mighty Nuclear Furnace	New	NP Gallery
07.	The Omnipresent Radiation	New	NP Gallery
08.	Radiation Application	New	NP Gallery
09.	Radiation Measurement	New	NP Gallery
10.	Electromagnetic Radiations	New	NP Gallery
11.	Penetrative Powers of nuclear Radiation	New	NP Gallery
12.	Radiation Pioneers	New	NP Gallery
13.	Why Nuclear Energy?	New	NP Gallery
14.	Radiation Doses	New	NP Gallery
15.	The Atomic Energy Establishment of India	New	NP Gallery
16.	Nuclear Power Corporation of India	New	NP Gallery
17.	The Evolution of India PHWRS	New	NP Gallery
18.	Nuclear Power plants & sites in India	New	NP Gallery
19.	Uranium Ore Processing	New	NP Gallery
20.	Various Types of Nuclear Reactors	New	NP Gallery
21.	Fuel Bundle & Pallets	New	NP Gallery
22.	A typical 220 MW PHWR Nuclear Power Plant	New	NP Gallery
23.	Nuclear Fuel Fabrication	New	NP Gallery
24.	Control Your Nuclear Power Plant	New	NP Gallery
25.	Cooling Tower	New	NP Gallery
26.	Nuclear Fuel and Reactor Components	New	NP Gallery
27.	3C's of Nuclear Power Generation	New	NP Gallery
28.	Defence in Depth Philosophy	New	NP Gallery
29.	Ask The Expert	New	NP Gallery
30.	Plant Integrity - Assured	New	NP Gallery
31.	Containment Wall	New	NP Gallery
32.	Comparison of Waste Generation	New	NP Gallery
33.	Nuclear Safety Quiz	New	NP Gallery
34.	A walk through - nuclear Power Plant	New	NP Gallery
35.	Heavy Water	New	NP Gallery
36.	Protective Gears	New	NP Gallery
37.	Environmental Survey Laboratories	New	NP Gallery
38.	Environmental Stewardship Programme	New	NP Gallery
39.	Nuclear Research & Development	New	NP Gallery
40.	Three stages of Indian Nuclear Power Programme	New	NP Gallery
41.	International Nuclear Power Scenario	New	NP Gallery

42.	Non Power application of Nuclear Energy	New	NP Gallery
43.	Irradiated food Samples	New	NP Gallery
44.	Atomic Energy Regulatory Board	New	NP Gallery
45.	Ask Budhiya!	New	NP Gallery
46.	The father of Indian nuclear Power Programme	New	NP Gallery
47.	Why Nuclear	New	NP Gallery
48.	Peep inside Cell	New	Biotech Lab
49.	Microbes in Action	New	Biotech Lab
50.	Isolating the stuff of life	New	Biotech Lab
51.	See your DNA	New	Biotech Lab
52.	Racing of Molecules	New	Biotech Lab
53.	Investigating DNA	New	Biotech Lab
54.	Molecular Scissors	New	Biotech Lab
55.	DNA Xeroxing	New	Biotech Lab
56.	Amazing Enzymes	New	Biotech Lab
57.	Measuring Protein	New	Biotech Lab
58.	Clean or Just unseen	New	Biotech Lab
59.	Chlorophyll Chemistry	New	Biotech Lab
60.	Yeast on the Rise	New	Biotech Lab
61.	Genes in Motion	New	Biotech Lab
62.	Chain of life	Renovated	HB Gallery
63.	Remote Control	Renovated	HB Gallery
64.	Carbon Key to life	Renovated	HB Gallery
65.	Coding of life	Renovated	HB Gallery
66.	Brain to mass body ratio	Renovated	HB Gallery
67.	Body framework	Renovated	HB Gallery
68.	Catch Me	Renovated	HB Gallery
69.	Early TV Studio	Renovated	IR Gallery
70.	Iris	Renovated	Fun Sci. Gallery
71.	It's all in the gene	Renovated	ET Gallery
72.	Virtual Actor	Renovated	IR Gallery
73.	Stem Cells	Renovated	ET Gallery
74.	Water Usage Calculator	Renovated	Water Gallery
75.	DNA Microarray	Renovated	HB Gallery
76.	Communication Saga	New	IR Gallery
77.	Mirror Maze	New	Fun Sci. Gallery
78.	Doppler's Effect	New	Fun Sci. Gallery
79.	Magic Glass	New	Fun Sci. Gallery
80.	Illusion	New	Fun Sci. Gallery
81.	Hologram	New	Fun Sci. Gallery
82.	Portable Pepper's Ghost Hologram	New	Fun Sci. Gallery
83.	Sand Pattern	Renovated	Fun Sci. Gallery
84.	Chain of Life	Renovated	HB Gallery
85.	Ready steady go	Renovated	Fun Sci. Gallery
86.	Tokamak	Renovated	ET Gallery
87.	Pipes of Pan	New	RSC, Dehradun
88.	Propeller Fan	New	RSC, Dehradun
89.	Kaleidoscope	New	RSC, Dehradun
90.	Reception Counter	New	RSC, Dehradun

91.	Entry Mural	New	RSC, Dehradun
92.	Wire Mesh Mural	New	RSC, Dehradun
93.	Fresh Water Aquarium	New	RSC, Dehradun
94.	Innovation Design Studio	New	RSC, Dehradun
95.	Hall of fame	New	RSC, Dehradun
96.	Innovation Resource Centre	New	RSC, Dehradun
97.	Interactive Display Corner	New	RSC, Dehradun
98.	3D Theatre	New	RSC, Dehradun
99.	Auditorium	New	RSC, Dehradun
100.	Design Studio in Frontier Technology Gallery	New	RSC, Dehradun
101.	Image Processing Exhibit	New	RSC, Dehradun
102.	Cool Tool 6 in 1 Hobby Set	New	RSC, Dehradun
103.	Setting up Exhibit Development Lab	New	RSC, Dehradun
104.	Robotic Section- Innovation Hub	New	RSC, Dehradun
105.	Ear Brain Hand Eye Coordination for 'Science of Sports) (Reaction Time challenges)	New	RSC, Lucknow
106.	Visual Acuity (Reaction Time challenges) for 'Science of Sports)	New	RSC, Lucknow
107.	Ready Get Set Go (Reaction Time challenges) for 'Science of Sports)	New	RSC, Lucknow
108.	Land like a cat (Estimate, Balance & Control challenges) for 'Science of Sports)	New	RSC, Lucknow
109.	Check your Aim (Shooting) for 'Science of Sports'	New	RSC, Lucknow
	Sub Total	109	
B	Kits Development	Quantity	
01.	Controlling LED blinking with switch	01	RSC, Dehradun
02.	Series & Parallel Combination of Switches	01	RSC, Dehradun
03.	Series & Parallel combination of Capacitors	01	RSC, Dehradun
04.	Circuit showing working of LDR	01	RSC, Dehradun
05.	Circuit showing working of a transistor	01	RSC, Dehradun
06.	Four Tune Siren Circuit	01	RSC, Dehradun
07.	Electronic Organ Circuit	01	RSC, Dehradun
08.	Water Level Indicator Circuit	01	RSC, Dehradun
09.	Blinking LED using Arduino Uno microcontroller	01	RSC, Dehradun
10.	LED Loop 8-bit using Arduino Uno microcontroller	01	RSC, Dehradun
11.	Traffic Light signal program using Arduino Uno microcontroller	01	RSC, Dehradun
12.	Yummy Bacteria	01	RSC, Dehradun
13.	Diversity of Cells	01	RSC, Dehradun
14.	Measuring with Microscope	01	RSC, Dehradun
15.	Genes in a Bottle	01	RSC, Dehradun
16.	Racing of Molecules	01	RSC, Dehradun
17.	Mighty Milk	01	RSC, Dehradun
18.	Enzymes at Work	01	RSC, Dehradun
19.	Measuring pH	01	RSC, Dehradun
20.	Make a pollen tube	01	RSC, Dehradun

21.	Detecting Vitamin	01	RSC, Dehradun
22.	Hand Generator Car	01	NSC, New Delhi
23.	Castor Bot	01	NSC, New Delhi
24.	Line Follower Robot	01	NSC, New Delhi
25.	Bumper Car	01	NSC, New Delhi
26.	Explorer Boat	01	NSC, New Delhi
27.	Bubble caterpillar	01	NSC, New Delhi
28.	Bubble rotor	01	NSC, New Delhi
29.	9V tesla Coil	01	NSC, New Delhi
30.	Van de graaf Generator	01	NSC, New Delhi
31.	Archimedes' Balance	01	NSC, New Delhi
32.	Saturn's ring	01	NSC, New Delhi
33.	853 puzzle	01	NSC, New Delhi
34.	Anemometer (Bottles)	01	NSC, New Delhi
35.	Vortex(Bottles)	01	NSC, New Delhi
36.	Sympathetic Swing(Bottles)	01	NSC, New Delhi
37.	Reaction Car	01	NSC, New Delhi
38.	Wind Mill	01	NSC, New Delhi
39.	Reaction Wheel	01	NSC, New Delhi
40.	Remote control Car	01	NSC, New Delhi
41.	Heron Fountain	01	NSC, New Delhi
42.	Pantograph	01	NSC, New Delhi
43.	Wind Chime making	01	NSC, New Delhi
44.	Acrobatic Gyroscope	01	NSC, New Delhi
45.	Electrolysis	01	NSC, New Delhi
46.	Oxygen Generator	01	NSC, New Delhi
47.	Flute Making	01	NSC, New Delhi
48.	Rocketry	01	NSC, New Delhi
49.	DNA model Making	01	NSC, New Delhi
50.	DNA isolating kit	01	NSC, New Delhi
51.	Peep inside cell kit	01	NSC, New Delhi
52.	Racing of Molecules	01	NSC, New Delhi
53.	Speaker from waste making	01	NSC, New Delhi
54.	Electric Motor Making kit	01	NSC, New Delhi
55.	Diagonals of cube and tetrahedron	01	NSC, New Delhi
56.	Surface tension inside soap film	01	NSC, New Delhi
57.	Bubble of Different Shapes	01	NSC, New Delhi
58.	Bubble inside bubble	01	NSC, New Delhi
	Sub Total	58	
C	Duplicate Kits Development	Quantity	
01.	9V tesla Coil	01	NSC, New Delhi
02.	Van de graaf Generator	01	NSC, New Delhi
03.	Archimedes' Balance	01	NSC, New Delhi
04.	Saturn's ring	01	NSC, New Delhi
05.	853 puzzle	01	NSC, New Delhi
06.	Anemometer (Bottles)	01	NSC, New Delhi
07.	Vortex (Bottles)	01	NSC, New Delhi
08.	Sympathetic Swing (Bottles)	01	NSC, New Delhi

09.	Reaction Car	01	NSC, New Delhi
10.	Wind Mill	01	NSC, New Delhi
11.	Remote control Car	01	NSC, New Delhi
12.	Heron Fountain	01	NSC, New Delhi
13.	Pantograph	01	NSC, New Delhi
14.	Wind Chime making	01	NSC, New Delhi
15.	Acrobatic Gyroscope	01	NSC, New Delhi
16.	Electrolysis	01	NSC, New Delhi
17.	Oxygen Generator	01	NSC, New Delhi
18.	Flute Making	01	NSC, New Delhi
19.	Rocketry	01	NSC, New Delhi
20.	DNA model Making	01	NSC, New Delhi
21.	DNA isolating kit	01	NSC, New Delhi
22.	Peep inside cell kit	01	NSC, New Delhi
23.	Racing of Molecules	01	NSC, New Delhi
24.	Speaker from waste making	01	NSC, New Delhi
25.	Electric Motor Making kit	01	NSC, New Delhi
26.	Hand Generator Car (Robotics)	01	NSC, New Delhi
27.	Castor Bot (Robotics)	01	NSC, New Delhi
28.	Line Follower Robot (Robotics)	01	NSC, New Delhi
29.	Bumper Car (Robotics)	01	NSC, New Delhi
30.	Explorer Boat (Robotics)	01	NSC, New Delhi
	Sub Total	30	

Total exhibits developed = 109 + 58 + 30 = 191



In addition, 52 no. of exhibits on 'Frontiers of Technology' gallery for RSC, Dehradun were developed by NSCD.

Sl. No.	Name of Exhibits	Quantity	Project for
1.	Introduction	01	RSC, Dehradun
2.	Where We Stand and What's Ahead?	01	RSC, Dehradun
3.	Meeting Ever- Increasing needs	01	RSC, Dehradun
4.	Future Farming	01	RSC, Dehradun
5.	Minimal Invasive Surgery	01	RSC, Dehradun
6.	Advance Imaging	01	RSC, Dehradun
7.	Cure for Metabolic Disease	01	RSC, Dehradun
8.	Designer Baby	01	RSC, Dehradun
9.	Augmented Human Being	01	RSC, Dehradun
10.	Stem Cell	01	RSC, Dehradun
11.	Stem Cell Therapy	01	RSC, Dehradun
12.	Where we stand and what ahead	01	RSC, Dehradun
13.	Intelligent Materials	01	RSC, Dehradun
14.	Materials of Future	01	RSC, Dehradun
15.	Where we stand and what ahead	01	RSC, Dehradun
16.	Tokamak	01	RSC, Dehradun
17.	Efficient Power Distribution	01	RSC, Dehradun
18.	Demo Corner	01	RSC, Dehradun
19.	E-Sensing	01	RSC, Dehradun
20.	Resource Mapping	01	RSC, Dehradun
21.	Mining the Ocean	01	RSC, Dehradun
22.	Global Positioning System (GPS)	01	RSC, Dehradun
23.	Information & Communication Technology	01	RSC, Dehradun
24.	Image Processing	01	RSC, Dehradun
25.	Perceptual Computing	01	RSC, Dehradun
26.	Cloud Computing	01	RSC, Dehradun
27.	Quantum Computing	01	RSC, Dehradun
28.	Photonic Computing	01	RSC, Dehradun
29.	Wearable Technology	01	RSC, Dehradun
30.	Artificial Intelligence	01	RSC, Dehradun
31.	Cellular Communication	01	RSC, Dehradun
32.	Make in India	01	RSC, Dehradun
33.	Multi Touch Table	01	RSC, Dehradun
34.	Automation	01	RSC, Dehradun
35.	Robotics	01	RSC, Dehradun
36.	Factory Automation	01	RSC, Dehradun
37.	Transportation	01	RSC, Dehradun
38.	Space and Cosmos	01	RSC, Dehradun
39.	Journey to the Universe	01	RSC, Dehradun
40.	Indian Space Mission	01	RSC, Dehradun
41.	On to the Mars	01	RSC, Dehradun
42.	Mars Orbiter Mission	01	RSC, Dehradun

Sl. No.	Name of Exhibits	Quantity	Project for
43.	Resources from Space	01	RSC, Dehradun
44.	Space Spin Offs	01	RSC, Dehradun
45.	Colonising Space and Space Tourism	01	RSC, Dehradun
46.	Entertainment	01	RSC, Dehradun
47.	3D Holo Pyramid	01	RSC, Dehradun
48.	Virtual Reality	01	RSC, Dehradun
49.	Future Technologies	01	RSC, Dehradun
50.	Film Corner	01	RSC, Dehradun
51.	Central Exhibit	01	RSC, Dehradun
52.	Hard work pays	01	RSC, Dehradun



B. Regional Science City, Lucknow

Sl. No.	Name of Exhibits	Quantity	Location
1.	Story of Plant and Animal	01	Children Gallery
2.	Electroscope	01	Popular Science
3.	Activity Area	01	Children Gallery
4.	Bumpy Track	01	Children Gallery
5.	Image processing	01	Children Gallery
6.	Artificial Intelligence	01	Children Gallery
7.	Ambidexterity text	01	Children Gallery
8.	Ball Pool	01	Children Gallery
9.	Magic Tap	01	Popular Science
10.	Breathing Square	01	Popular Science
11.	Area of Circle	01	Popular Science
12.	Value of Pie	01	Popular Science
13.	Dexterity Test	01	Popular Science
14.	Interchanging ball	01	Popular Science
15.	Benhamas disk	01	Science Park
16.	Magic Tap	01	Science Park
17.	Parabolic reflection	01	MSE exhibit
18.	Weaving Parabolic Net	01	MSE exhibit
19.	Hyperbolic silhouette	01	MSE exhibit
20.	Prediction of number	01	MSE exhibit
21.	Reflection- Image Multiplier	01	New Kit
22.	Focal Length.	01	New Kit
23.	Refraction	01	New Kit
24.	Activity of Lens	01	New Kit
25.	Total Internal Reflection	01	New Kit
26.	Diffraction of Light	01	New Kit
27.	Colour Shadow	01	New Kit
28.	Deviation of Light	01	New Kit
29.	Refractive Index	01	New Kit
30.	A Hole in Palm	01	New Kit
31.	Colour wheel	01	New Kit
32.	Turbine	01	New Kit
33.	Submarine	01	New Kit
34.	Jet Car	01	New Kit
35.	Sun-Light your Home	01	New Kit
36.	Straw Sprinkler	01	New Kit
37.	Para suit	01	New Kit
38.	Stored Energy	01	New Kit
39.	Balloon Spinner	01	New Kit
40.	Flying Fish	01	New Kit
41.	Star Chart	01	New Kit
42.	Water Siphon	01	New Kit
43.	Walking Disc	01	New Kit
44.	Jumping Dragon fly	01	New Kit
45.	Drop the ball	01	New Kit

Sl. No.	Name of Exhibits	Quantity	Location
46.	Frog to leap	01	New Kit
47.	Acrobat	01	New Kit
48.	Defying Gravity	01	Duplicate Kit
49.	To find out the CG of different bodies	01	Duplicate Kit
50.	State of Equilibrium	01	Duplicate Kit
51.	Leaning tower of pisa minar	01	Duplicate Kit
52.	Cone runs uphill	01	Duplicate Kit
53.	Rolling disc/ball	01	Duplicate Kit
54.	Weightlessness	01	Duplicate Kit
55.	Getting up from the chair is difficult	01	Duplicate Kit
56.	Centrifugal force	01	Duplicate Kit
57.	CG - Weight & Friction	01	Duplicate Kit
58.	Moment of force & CG	01	Duplicate Kit
59.	Our adjustable body	01	Duplicate Kit
60.	Invisible support	01	Duplicate Kit
61.	Balancing	01	Duplicate Kit
62.	Playing with fire	01	Duplicate Kit
63.	Vanishing Water	01	Duplicate Kit
64.	Water of India	01	Duplicate Kit
65.	Fire with mental power	01	Duplicate Kit
66.	Taste the sweet you like most	01	Duplicate Kit
67.	Illusion of touch	01	Duplicate Kit
68.	One thread from two	01	Duplicate Kit
69.	Trishul through the tongue	01	Duplicate Kit
70.	Obedient ball	01	Duplicate Kit
71.	Magical slates	01	Duplicate Kit
72.	Make many from one	01	Duplicate Kit
73.	Rope tricks	01	Duplicate Kit
74.	Chopstick Magnetism	01	Duplicate Kit
75.	Magical currency	01	Duplicate Kit
76.	Panel-1 for 7 th Science Expo 2016 - CST	01	Temporary
77.	Panel-2 for 7 th Science Expo 2016 - CST	01	Temporary
78.	Panel-3 for 7 th Science Expo 2016 - CST	01	Temporary
79.	Panel-4 for 7 th Science Expo 2016 - IISR	01	Temporary
80.	Panel-5 for 7 th Science Expo 2016 - IISR	01	Temporary
81.	Panel-6 for 7 th Science Expo 2016 - NBSI	01	Temporary
82.	Panel-7 for 7 th Science Expo 2016 -CIMAP	01	Temporary
83.	Panel-8 for 7 th Science Expo 2016 -CIMAP	01	Temporary
84.	Panel-9 for 7 th Science Expo 2016 -NRLC	01	Temporary
85.	Panel-10 for 7 th Science Expo 2016 -NRLC	01	Temporary
86.	Panel-11 for 7 th Sci Expo - Integral University	01	Temporary
87.	Panel-12 for 7 th Sci Expo - Integral University	01	Temporary
88.	Statistics at Work	01	Temporary

Total Exhibits developed -88 no.

C. Kurukshetra Panorama & Science Centre, Kurukshetra

Sl.No.	Title of the exhibit	Quantity	Location
1.	Konark Wheel	01	Gallery exhibit
2.	Information kiosk with touch screen	01	Gallery exhibit
3.	Memory game	01	Gallery exhibit
4.	Illusion-I: Stop the Fan	01	Gallery exhibit
5.	Illusion-II: Freeze your Shadow	01	Gallery exhibit
6.	Polarization	01	Gallery exhibit
7.	Sand Pattern	01	Gallery exhibit
8.	Floating Ball	01	Gallery exhibit
9.	Levitating Globe	01	Gallery exhibit
10.	Infinite Tunnel	01	Gallery exhibit
11.	Visualizing Sound	01	Gallery exhibit
12.	Rain Gauge	01	Science Park
13.	Iron Pillar	01	Science Park
14.	Granite Ball or "kugel fountain"	01	Science Park

Total Exhibits Developed = 14 Nos.



LIST OF POPULAR SCIENCE LECTURES

A. National Science Centre, Delhi

S. No.	Date	Title	Speaker	No. of Audience
1.	13.04.2015	Astronomy & Space Science	Shri Arvind Ranade, Scientist, Vigyan Prasar	175
2.	22.04.2015	Its Our Turn to Lead	Dr. Md. Asrarul Haque, former Director (Scientific), Ministry of Environment, Forest and Climate Changes, Govt. of India	320
3.	11.05.2015	Light matters in Science & Technology	Prof. K. Thayagarajan, Head, Department of Physics, IIT Delhi	450
4.	05.06.2015	Seven Billion Dreams. One Planet. Consume with Care	Dr Mahendra Pandey, Former Scientist, CPCB, Delhi,	475
5.	21.06.2016	Yoga-The Art of Transformation	Dr. D. K. Kansal, Principal, Indira Gandhi Institute of Physical Education & Sports Sciences, University of Delhi.	450
6.	16.09.2015	Meteorological aspects of Ozone hole	Dr. R. K. Jenamani, Scientist, Indian Meteorological Department, Govt. of India.	260
7.	24.09.2015	Climate Changes and its effect on Himalayas	Professor A. P. Dimri, Professor, School of Environmental Science, Jawaharlal Nehru University, New Delhi	330
8.	09.10.2015	Frontiers of Cosmology	Dr. Pranjal Trivedi Assistant Professor Department of Physics Sri Venkateswara College Delhi-110 021	Special lectures for Astronomy Olympiad winners
9.	10.10.2015	Celestial Mechanics	Dr. Patrick Das Gupta Professor Department of Physics and Astrophysics, University of Delhi, Delhi-110007	Special lectures for Astronomy Olympiad winners
10.	11.10.2015	Coordinates & Time in Astronomy	Dr. Anjan Ananda Sen, Professor Centre of Theoretical Physics Jamia Millia Islamia, New Delhi	Special lectures for Astronomy Olympiad winners
11.	12.10.2015	Observational Astronomy	Dr. Rathnasree Nandivada The Director Nehru Planetarium Teen Murti Bhavan, Teen Murti Marg Area,	Special lectures for Astronomy Olympiad winners

			New Delhi	
12.	21.01.2016	Innovation: Connecting the Unconnected Dots	Prof. Samir Brahmachari, Former Director General, Council of Scientific and Industrial Research	325
13.	28.01.2016	Going Beyond	Ms. Heather Paul, NASA Engineer and Mr. Sam Gibbs, International Science Educator, USA	315
14.	29.01.2016	Going Beyond	Ms. Heather Paul, NASA Engineer and Mr. Sam Gibbs, International Science Educator, USA	150
15.	30.01.2016	Going Beyond	Ms. Heather Paul, NASA Engineer and Mr. Sam Gibbs, International Science Educator, USA	175
16.	06.02.2016	Utility of Low Cost Teaching Aid	Shri S. K. Bagchi, Eminent Science Communicator and Former Director, BITM, Kolkata	150
17.	23.02.2016	Renewable Energy for a Lower Carbon Future	Prof. A. Robin Wallace, Institute of Energy Systems, School of Engineering, University of Edinburgh, UK	320
18.	24.02.2016	Ingredients of Film Making	Prof. Iftekhar Ahmad, Director, AJK Mass Communication Research Centre, Jamia Millia Islamia, New Delhi	130
19.	24.02.2016	Success & failure in Film Making	Shri Kul Bhushan, Retd. Senior Director, Doordarshan	150
20.	25.02.2016	Techniques & Innovation in Film Making	Dr. T V Venkateshwaran, Scientist, Vigyan Prasar	160
21.	25.02.2016	Science Film – A non-formal mode of Communication	Shri Nimish Kapoor, Scientist Vigyan Prasar	120
22.	26.02.2016	Methodology & Technology in Film Making	Shri Maitur Rehman and Dr. Mike Pandey, eminent science film makers	150
23.	27.02.2016	Atoms Serving the Nation	Shri Ravi Kumar Bansal, Scientific Officer, Nuclear Power Corporation of India Ltd.	300
24.	21.03.2016	Ecosystem Restoration: Insurance for Improved Quality of Life	Prof. Radhey Shyam Sharma, Department of Environmental Studies, Delhi University	350



B. Regional Science City, Lucknow

Sl. No.	Date	Title	Speaker	No. of Audience
1.	22.04.2015	Cynobacteria: The Successful survivor	Dr Mukund Sharma Scientist, BSIP, Lucknow	150
2.	25.04.2015	Adaptation Strategies for Minimizing the climate Risk	Dr V K Mishra Scientist, CSSRI, Lucknow	100
3.	25.04.2015	Climate Change: Human health with vector borne diseases in UP	Dr R. C. Dhiman Scientist, National Institute for Malaria Research	100
4.	25.04.2015	Impact of Climate change on productive & reproductive performance of bovine & remedial measures	Dr Sohan Vir Singh Scientist, ICAR NDRI Karnal	100
5.	25.04.2015	Climate Change & sustainability of sugarcane agriculture	Dr A K Srivastava Scientist, IISR, Lucknow	100
6.	25.04.2015	Impact of climate change & remedial measures need for UP's agriculture & horticulture	Dr Rajvir Singh Rathore Former DDG UPCAS, LKO, OSD to Governor, UP	100
7.	25.04.2015	Climate Change Impact on health	Dr C. S. Verma Sr Fellow, Gir Institute of Development Studies, Lucknow	100
8.	25.04.2015	Climate Change & biodiversity	Dr Pratibha Singh Director, Biodiversity Board, Lucknow	100
9.	27.05.2015	Science without props	Shri Umesh Kumar PC RSCL	58
10.	11.05.2015	How can be a technologist	Dr H. M. Bahl Consultant, Biotech Park, Lucknow	100
11.	18.05.2015	Museum for Sustainable society	Dr Amit Dhrawadkar Geologist, GSI, Lucknow	250
12.	06.05.2015	Brain: A Magic Organ	Dr. A. B. Pant Scientist, IITR, Lucknow	150
13.	21.06.2015	Yoga for Health	Ms Sanjana Sharma Yog Trainer, Yog Mantra sansthan	165
14.	16.07.2015	Ground Water Crisis	Dr. P. K. Srivastava Former Scientist, CDRI, Lucknow	165
15.	19.07.2015	Ground Water management	Dr. P. K. Srivastava Former Scientist, CDRI, Lucknow	200
16.	19.07.2015	Ground Water management	Dr. V. K. Joshi Former Director, GSI, Lucknow	200

17.	20.07.2015	Prevention Measure of Ground Water	Dr R. A. Yadav Manager Ground Water Department, Lucknow	240
18.	21.07.2015	Prevention Measure of Ground Water	Dr D. K. Sharma Sr Hydrologist, Ground Water Department, Lucknow	240
19.	17.08.2015	Science without props	Shri Umesh Kumar PC RSL	66
20.	06.08.2015	NASI Award Lecture	Dr. K. C. Gupta Former Director, IITR, Lucknow	60
21.	14.09.2015	Dengue & its remedies	Dr Sanjeev Ojha Scientist, NBRI, Lucknow	40
22.	15.09.2015	30 Years of healing ozone layer	Prof. Dhruv Sen Singh Lucknow University	500
23.	19.09.2015	Holistic Health Awareness using ayurveda, naturopathy & yoga	Dr Ravindra Porwal Ayurvedacharya, Lucknow	120
24.	26.09.2015	Properties of Light & energy	Dr. H. K. Dwivedi Director, Amity, University, Lucknow	150
25.	27.11.2015	Breast Cancer	Dr. K. M. Kamble HOD, Radiology Department, Govt. Medical College, Nagpur	262
26.	28.11.2015	Killer Tobacco	Dr. K. M. Kamble HOD, Radiology Department, Govt. Medical College, Nagpur	258
27.	20.01.2016	Need of Innovation	Dr D. K. Srivastava JD, CSTUP, Lucknow Shri Umesh Kumar PC RSL	135
28.	21.01.2016	Innovation	Dr R D Gaur Former Scientific Officer, CSTUP, Lucknow	135
29.	05.02.2016	Magnetic Resonance	Prof. C. L. Khetrapal Chairman, CBMR, SGPGI, Lucknow	135
30.	06.02.2016	Environmental Pollution	Dr. V. P. Sharma Sr Scientist, IITR, Lucknow	250
31.	06.02.2016	Health & Lifestyle	Prof. Udai Mohan KGMU, Lucknow	150
32.	07.02.2016	Career in Agriculture	Dr. A. K. Sharma SO, Biotech Park, Lucknow Dr. A. K. Shah Scientist, IISR, Lucknow Dr. Shudha Agarwal Scientist, CIMAP, Lucknow	150
33.	09.02.2016	Environmental Pollution	Dr. Anil Balapure Scientist, CDRI, Lucknow Dr Preeti Kanaujia	180

			State Coordinator, CEE, Lucknow	
34.	20.02.2016	Need of Innovation	Dr D. K. Srivastava JD, CSTUP, Lucknow	150
35.	28.02.2016	Innovation	Dr Alok Dhawan Director, IITR, Lucknow	150
36.	14.03.2016	Albert Einstein Autobiography	Prof Neeraj Chaube BHU, Varanasi	110
37.	28.03.2016	Need of Innovation	Dr D. K. Srivastava JD, CSTUP, Lucknow	150



C. Kurukshetra Panorama & Science Centre, Kurukshetra

S. No.	Date	Topic of the Lecture	Name of the speaker	No. of Audiences
1.	18.04.2015	Famous Heritage Sites Of India	Dr. Arun Kesarwani, Professor, Ancient History Department, Kurukshetra University, Kurukshetra	500
2.	22.04.2015	Biological and Environmental Changes during History of Earth	Dr. N N Dogra, Department of Geology, Kurukshetra University, Kurukshetra	550
3.	11.05.2015	Understanding of Microbiology & Biotechnology for Healthy and Prosperous Future	Dr. K. R. Aneja, Retired Chairman Department of Microbiology, Kurukshetra University, Kurukshetra	500
4.	18.05.2015	Role of Museums in Development of Sustainable Society	Sh. Sameer Deewan, Assistant Supretending Geologist, Sheikh Chehli Tomb, Kurukshetra	450
5.	03.06.2015	Physical Health	Dr. M. S. Chauhan, Retired Professor Department of Physical Education, Kurukshetra University, Kurukshetra	100
6.	03.06.2015	Health and Hygiene	Dr. Rajan Kumar of Lok Nayak Jai Parkash Hospital, Kurukshetra	100
7.	05.06.2015	Climate Change and Environment Destruction: Reason, Remedies and Challenges	Dr. Sandeep Gupta, Asstt. Professor, Institute of Life Sciences, Kurukshetra University Kurukshetra, Kurukshetra	200
8.	06.06.2015	Traffic Rules	Sh. Banarsi Das, District Traffic Police Incharge	100
9.	09.06.2015	Health and Hygiene	Dr. Rajan Kumar, Medical Officer, Lok Nayak Jai Parkash Hospital, Kurukshetra.	40
10.	11.06.2015	Traffic Rules	Sh. Banarsi Das, District Traffic Police Incharge	40
11.	12.06.2015	Save Precious Life through First Aid	Shri Rajinder Saini, Distt. Training Officer, Indian Red Cross Society, Kurukshetra	100
12.	21.06.2015	Yoga for Physical, Spiritual and Mental Prosperity	Dr. Rajni Bali, Yoga Trainer, Department of Physical Education, Kurukshetra University Kurukshetra, Kurukshetra	200
13.	13.07.2015	Population Census and Statistical Approach	Ms Lucky Arora, District Statistical Officer, Kurukshetra	950
14.	04.08.2015	Conservation of Natural Resources;	Dr. Meenakshi Suhag, Assistant Professor, Institute of Environmental	350

		Issues and Challenges	Studies, Kurukshetra University, Kurukshetra	
15.	16.09.2015	Climate Change and its ill effects due to Ozone Hole	Dr. A. R. Chaudhary, Chairman, Department of Geology, Kurukshetra University, Kurukshetra	350
16.	07.11.2015	Importance and Relevance of a Balanced Environment for Sustainable Development'	Dr. R. B. S. Yadav, Assistant Professor, Department of Geophysics, Kurukshetra University, Kurukshetra	400
17.	26.02.2016	Our Mysterious Universe : Challenges and Achievements	Dr. Om Prakash Pandey, Former Officer on Special Duty, Science and Technology to Honable Prime Minister of India.	400



COMMITTEE MEMBERS (2015-16)**List of Members of Executive Committee of National Science Centre, Delhi**

1.	Prof. Dinesh Singh Vice Chancellor Delhi University & Chairman, EC, NSC, Delhi University Road, Delhi-110007	8.	A Representative of Ministry of Culture not below the rank of Dy. Secretary Ministry of Culture, Govt. of India, 329 C Wing, Shastri Bhawan, New Delhi-110015
2.	Dr. K. Satyanarayan Sr. Dy. Director General Division: Publication & Information Indian Council of Medical Research V. Ramalinga Swami Bhavan New Delhi-110029	9.	Shri G. S. Rautela, Director General, National Council of Science Museums, Sector-V, Block-GN, Bidhan Nagar, Kolkata-700091.
3.	Dr. Dinakar Kanjilal Director Nuclear Science Centre 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. Jitendra P. Khurana Department of Plant Molecular Biology, University of Delhi South campus, Benito Juarez Road New Delhi – 110021	11.	Shri Anurag Kumar, Curator 'F', National Science Centre, Pragati Maidan, Near Gate No.1, Bhairon Marg, New Delhi – 110001
5.	Dr. Vineeta Bal Scientist National Institute of Immunology Aruna Asaf Ali Road, New Delhi – 110 067	12.	Shri Umesh Kumar, Project Coordinator Regional Science City Aliganj Extension Sector-E (Ekta Vihar), Lucknow-226 024.
6.	Dr. R. Gopichandran Director, Vigyan Prasar A-50, Institutional Area, Sector-62, Noida - 201309, U.P.	13.	Shri M M E Namboodiri Administrative Officer National Science Centre, Pragati Maidan, Near Gate No.1, New Delhi – 110001
7.	The Principal Secretary Department of Education Govt. of NCT Delhi Old Secretariat, Civil Lines Delhi-110 054.		

PLANNING & PROGRAMMING COMMITTEE, NSC, DELHI

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3.	Prof. A. K. Wazalwar, Head Deptt. of Education in Science and Mathematics (DESM) National Council of Educational Research and Training Sri Aurbindo Marg, New Delhi- 110016	Member	9.	Director General National Council of Science Museums Sector-V, Block-GN, Bidhan Nagar, Kolkata-700091 Or his nominee	Member
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6.	Prof. Hasan Jawaid Khan Editor, Science Reporter National Institute of Science Communication and Information Resources Dr. K.S. Krishnan Marg, (Near Pusa Gate), New Delhi-12	Member	12.	Shri Anurag Kumar Curator, National Science Centre Pragati Maidan, Near Gate No.1, Bhairon Marg, New Delhi – 110001	Member Secretary

LOCAL ADVISORY COMMITTEE, RSC, LUCKNOW

1	Dr. C.S. Nautiyal Director CSIR- National Botanical Research Institute Rana Pratap Marg Lucknow-226 001	Chairman	7	Shri M.S. Rana Assistant Director Basic Education Siksha Bhawan 58, Jagat Narayan Road, Near City Station, Lucknow	Member
2	Dr. M. K. J. Siddiqui Secretary & Director Council of Science & Technology, UP Vigyan Bhawan, Suraj Kund Park 9 Nabiullah Road Lucknow-226 018	Member	8	Shri Anupam Gupta Director Lucknow Zoological Garden Banarasi Bagh Lucknow-226 001	Member
3	Shri R.N. Bhargava Chairman-cum-Managing Director ECOMEN Laboratories Pvt. Ltd. H.O. Flats No. 5-8, 2 nd Floor, Arif Chamber-V Sector-H, Aliganj Lucknow-226 024	Member	9	Mr. Brajendra Singh Member of Management Committee Chain of Pioneer Montessori Schools & Colleges PMS Hdqrs. 649 / 640, Sector-3, Eldeco, Udyan-I Lucknow	Member
4	Prof. Kuldeep Sahay HoD, Dept. of Electrical Engineering Institute of Engg. & Technology Jankipuram Lucknow-226 021	Member	10	Dr. Chandra Mohan Nautiyal Sr. Scientist Birbal Sahni Institute of Palaeobotany 53, University Road Lucknow- 226 007	Member
5	Director Remote Sensing Application Centre Sector G, Jankipuram, Kursi Road Lucknow- 226 021	Member	11	Shri D. Rama Sarma Director National Science Centre Pragati Maidan, Near Gate No.1, Bhairon Road New Delhi-110 001	Member (Ex- officio)
6	Prof. Sushil Kumar Operations Management Area Indian Institute of Management (IIM) Prabandh Nagar, Sitapur Road Lucknow- 226 013	Member	12	Shri Umesh Kumar Project Coordinator Regional Science City Sector-E, Aliganj Extension (Ekta Vihar) Lucknow-226 024	Member Secretar y

LOCAL ADVISORY COMMITTEE, KPSC, KURUKSHETRA

01.	Prof. Anand Mohan Director National Institute of Technology Kurukshetra -136119	Chairman	07.	Prof. Anil Vohra Dean, Faculty of Science Kurukshetra University, Kurukshetra-136119	Member
02.	Shri Bhal Singh Bishnoi Additional Deputy Commissioner Mini Secretariat, Kurukshetra-136118	Member	08.	Mrs. Sunita Sevi District Education Officer, Kurukshetra- 136119	Member
03.	Dr. Arjava Sharma Director National Bureau of Animal Genetic Resources (NBAGR), Makrampur Campus, G.T. Road Bye Pass, Near Basant Vihar, P.O. Box No. 129, Karnal-132001	Member	09.	Shri Rishi Goel Principal, Geeta Niketan Awasiya Vidyalaya Salarpur Road, Kurukshetra - 136118	Member
04.	Shri Kiral Singh Chief Executive Officer, Kurukshetra Development Board Kurukshetra-136118	Member	10.	Dr. B.S. Bodla Chairman, University School of Management Kurukshetra University, Kurukshetra-136119	Member
05.	Shri Rajbir Singh Principal Scientist (SG) Haryana State Council of Science & Technology Govt. of Haryana Haryana-134109	Member	11.	Director, National Science Centre Pragati Maidan, Near Gate No.1 Bhairon Road, New Delhi-110 001	Member (Ex-officio)
06.	Shri Sudarshan Agrawal Managing Partner Agrawal Extrusions Pvt. Ltd. G.T. Road, Kurukshetra, Haryana	Member	12.	Dr. Raj Mehrotra Project Coordinator Kurukshetra Panorama & Science Centre Pehowa Road, Kurukshetra-136118	Member Secretary

कार्यकलाप प्रतिवेदन Activity Report

2015-16



NATIONAL SCIENCE CENTRE

Near Gate no-1, Pragati Maidan, New Delhi - 110 001
Phone : 23371945, 23371893, Fax : 23371263
E-mail: educationnscdelhi@gmail.com, ncsd101@gmail.com
Website: www.nscdelhi.org, www.nscdelhi.gov.in



Regional Science City

Sector-E (Ekta Vihar), Aliganj Extension
Lucknow - 226 024 (U.P.)
Phone:- 0522-2327833, Telefax: 0522-2321804
Email : rsclu89@sancharnet.in, Website: www.rsclucknow.org



Kurukshetra Panorama & Science Centre

Pehowa Road, Kurukshetra - 136 118 (Haryana)
Phone:- 01744-291100, Telefax: 01744-292810
Email : kpsckkr01@rediffmail.in



With Best Wishes

A. S. Manekar
Director General

D. Rama Sarma
Director

National Council of Science Museums
Ministry of Culture, Govt. of India
Sector-V, Block-GN
Bidhan Nagar
Kolkata-700 091

National Science Centre
(National Council of Science Museums)
Ministry of Culture, Govt. of India
Near Gate no-1, Pragati Maidan
New Delhi - 110 001