Vigyan Prasar
(An Autonomous Institution
of the Department of Science and Technology,
Government of India)

Annual Report
2017-2018

A-50, Sector-62, Institutional Area
NCMRWF Building, NOIDA-201 309 (U.P.), India
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In our times, science, technology and more importantly innovation are shaping people’s lives in fundamental ways. Individuals, groups, and nations increasingly seek to bolster scientific capacity in the hope of promoting economic, strategic, social, material, and personal well-being of all citizens. While the improvements in the area of formal learning such as school and higher education institutions are essential, the potential for science learning in non-school settings, where people spend the majority of their time cannot be overlooked.

Lakhs of people, young and old, explore and learn about science by visiting informal learning settings, ranging from community-based organisations, libraries, schools, think tanks, institutions of higher education, government agencies, private companies, and philanthropic foundations. The informal science learning environment provides space across lifespans, from small children to late adulthood and scope to engage in scientific inquiry, develop science interests, and reflect on their experiences through sense-making conversations. Science in an informal setting, feed or stimulate the interests of adults and children, and positively influence academic achievement for students, and inspire some of them towards future science career options.

Vigyan Prasar, since its inception, has been in the forefront of creating science communication knowledge products suited to the informal learning settings. From using print, radio and little media effectively to reach out in the yesteryear, Vigyan Prasar has enlarged its scope to utilise the emerging communication opportunities.

Vigyan Prasar feels honoured to present its Annual Report for the period 2017-18, wherein we have made advances in harnessing Television, including web-based delivery of video content, Internet, social media platforms, apps for hand held devices for science communication in Indian socio-cultural milieu.
Some of the significant accomplishments this year include:-

- Vigyan Prasar has leveraged television for science communication for several years. Building upon these experiences, 24x7 science channel is being mooted, consisting of DD-Science, a branded one hour of telecast through Doordarshan and “India Science”, web-based delivery of video content on science, technology and innovation through OTT platform. The soft launch of the initiative took place during July 2018.

- An initiative to make available all information related to science, technology and innovation in India at one place a portal named ISTI portal has been created. The portal has been designed, and the soft launch of the same took place in August 2018.

- VIPNET (Vigyan Prasar Network) clubs, a major flagship programme of Vigyan Prasar gained strength with the partnership forged with Kendriya Vidyalaya Sangathan and Tribal Education department of various States, enabling the conduct of astronomy festivals, observing eclipsed and Zero Shadow Day etc. far wider than earlier.

- India Science Wire (Indian Science News and Feature Service) has made steady progress during the period under report. The project aims to showcase science and technology as well as R&D in Indian labs. The service is a unique offering for providing media houses original content on contemporary developments in Science and Technology in India. About 483 news stories were released, and about 73 media subscribers responded to these inputs; with 1641 imprints. This product has in this FY more than 15800 tweet impression and 10474 FB followers.

- Knowledge products like films, TV serials and documents are being produced. 158 new Science and Technology based video episodes were produced and telecast through Doordarshan National, Lok Sabha TV, Rajya Sabha TV, DD India, DD Urdu and Doordarshan regional Kendras. Important telecasts included Ancient Architecture (Building blocks of Bharat), Ubharti Prodhoyoki Aur Savarta Kal (Cutting edge technologies) and Conversations with Indian Scientists (Eureka), Information Technology (India@IT revolution), Science quiz shows of 45-55 minutes and Weekly science news programme in magazine format in English (Science Monitor) and in Hindi (Gyan Vigyan) for RSTV.

- Through social media like YouTube, NROER and different television channels, programmes are being made available to the public. Up to 31st March 2018, total viewers on Youtube were around 3,66,400. Films of Vigyan Prasar were screened in 1200 schools in North-East followed by quiz competition. Films are also regularly telecast through EduSAT Network.

- Communication through radio is a flagship programme of Vigyan Prasar since 2008 as per MOU with Prasar Bharti, and a mega radio serial is being produced in 19 languages and broadcast from 117 stations of AIR. New Radio serial on Theme “Sustainable Development” is on air since June 2017. Need-based radio programmes in regional dialect were produced to reach out to various segments of society with a particular focus on marginalised difficult terrain. A few of them are 26 episode serial in Santhali, 26 episodes serial in Gondi and a serial in Kokborok language.
- India International Film Festival-2017, Science Film Competition, IISF Science Film award for Indian filmmakers and 8th Film Festival of India-2018 were organised.
- The publication programme of Vigyan Prasar delivered its books and the Dream-2047 magazine on schedule. About eight titles were brought out during the year on themes and issues of topical relevance. Dream2047 reaches 35000 subscribers without cost.
- Ham Radio is an essential tool of Vigyan Prasar for providing technical support which can be used as an alternative mode for community communication during disasters.
- Vigyan Prasar in furtherance of S&T intervention for Tribal Population collaborates with state S & T Councils, Departments and S&T based agencies. Target specific programme like Drudgery Reduction and Health Nutrition for tribal women, skill up gradation programmes for the teachers and activity camps, and science festivals for children were organised in more than ten states including the North-eastern States.
- In association with the Astronomical Society of India, Vigyan Prasar organised a national outreach programme commemorating the Zero Shadow Day.
- In association with National Council for Science and Technology Communication (NCSTC), Department of Science and Technology, New Delhi VP organised astronomical telescope-making workshops for science communicators from Andhra Pradesh, Kerala, Puducherry, Tamil Nadu, Madhya Pradesh, Jharkhand, Gujarat, Haryana, Uttar Pradesh, Delhi and Maharashtra.

During the year Vigyan Prasar has produced more than 154 video programmes, 270 dubbed programme in 10 languages, 1066 radio programme of 30 minutes duration each, 12 publications, 1250 screenings of science films, 90 Science Melas, 21 tribal workshop and more than 40 workshops and events. In addition to various field activities that include the development of SciCom knowledge products, scientific and academic staff of Vigyan Prasar has also published about 15 papers in refereed journals and contributed eight chapters in books. They have presented 13 papers in various conferences and organised two international conferences during this period. They have given 23 Popular science talks, took part in 60 popular science TV shows wrote about 113 popular science articles.

I take this opportunity to express my heartfelt thanks to all those who made this possible- from the esteemed members of governing body to staffs of Vigyan Prasar family for their enthusiastic and dedicated contributions. I also sincerely thank all the stakeholders who have kindly consented to collaborate with us and enabled us to reach far and wider.

Dr T. V. Venkateswaran  
Director  
Vigyan Prasar
### Composition of General Body/ Governing Body*

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Name</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><strong>Prof. Ashutosh Sharma</strong></td>
<td>Chairman, Governing Body</td>
</tr>
<tr>
<td></td>
<td>Secretary</td>
<td></td>
</tr>
</tbody>
</table>
|       | Department of Science and Technology, Technology Bhawan
|       | New Delhi                                      |                              |
| 2.    | **Director General**                           | Member                       |
|       | Doordarshan, Doordarshan Bhawan,               |                              |
|       | New Delhi                                      |                              |
| 3.    | **Director General**                           | Member                       |
|       | All India Radio, Akashvani Bhawan              |                              |
|       | New Delhi                                      |                              |
| 4.    | **Director General**                           | Member                       |
|       | National Council of Science Museum (NCSM),     |                              |
|       | Kolkata                                        |                              |
| 5.    | **Head**                                       | Member                       |
|       | National Council of Science and Technology Communication, Department of Science and Technology Technology Bhawan
|       | New Delhi                                      |                              |
| 6.    | **Director**                                   | Member                       |
|       | National Council of Education Research and Training, Sri Arvindo Marg, New Delhi |
| 7.    | **Shri K G Suresh**                            | Member                       |
|       | Director General, Indian Institute of Mass Communication, Aruna Asif Ali Road
|       | JNU New Campus, New Delhi                       |                              |
| 8.    | **Prof. Brij Kishore Kuthiala**                | Member                       |
|       | Former Vice Chancellor, Makanlal Chaturvedi National University & Chairperson
|       | Haryana State Higher Education Council, ShikshaSadan
|       | Sector-5 Panchkula, Haryana 134109              |                              |
| 9.    | **Prof. K. Girish Kumar**                      | Member                       |
|       | Head, Department of Chemistry
|       | Cochin University of Science & Technology
|       | Cochin University P.O., Cochin-682022           |
10. **Dr. Manoj Kumar Patairiya**  
    Director  
    NISCAIR,  
    Dr K S Krishnan Marg,  
    New Delhi 110 012

11. **Prof. Sibaji Raha**  
    Former Director,  
    Bose Institute  
    93/1, Acharya Prafulla Chandra Road  
    Kolkata - 700009  
    West Bengal

12. **JS & FA**  
    Department of Science and Technology  
    Technology Bhawan  
    New Delhi 110 016

13. **Director**  
    Vigyan Prasar  
    NOIDA, U.P.
## COMPOSITION OF FINANCE COMMITTEE (2017-18)

1. **Director**  
   Vigyan Prasar  
   [Chairman]

2. **Local Member of Governing Body**  
   Delhi  
   [Member]

3. **AS & FA**  
   Department of Science and Technology  
   Technology Bhawan  
   New Delhi 110 016  
   [Member]

4. **Account Officer**  
   Vigyan Prasar  
   [Member Secretary]
Vigyan Prasar has been utilizing television for science communication since its inception. Several knowledge products as films, TV serials and documentaries are being produced with an objective to bridge the gap between science and the common people. Programmes are telecast through various channels of Doordarshan, Lok Sabha and Rajya Sabha. Several are also dubbed in multiple languages. Programmes are also viewed by many on You-Tube.

The glimpses of activities done under Science on Television Division in the current financial year are as follows:-

1. **Production of Science Serials**

1.1 **Project Completed**

Total 158 episodes were produced. Some snapshots are:

a) **Sci-Connect of North East-2017**

11 Science quiz shows of 45-55 minutes duration were produced and telecast from DD regional Kendra’s of north eastern region in December 2016, to connect with young talent with science especially the children in North-Eastern region of India, i.e. Assam, Mizoram, Nagaland, Tripura, Sikkim, Meghalaya and
Arunachal Pradesh. The objective of the programme is to nurture the natural curiosity of student of class 8-9 to develop an interest in science. The quiz show was the outcome of the series of the activities undertaken before this quiz. Before the quiz, twenty one selected S&T based film were screen in 150 schools, and a preliminary test was conducted. From each State, 15 students were selected for the second phase of the programme. For selected students, before the final quiz, a series of activities in the form of training, hands-on workshops etc. were organized in the respective States.

Final quiz competition which was finally telecast was organized in the month of November 2017 at Guwahati. All the respective State Council For Science and Technology of the respective States were the partners in this programme. Students of Tripura won the trophy of Sci-Connect 2017.

The preparation for conducting the next Sci-Connect is already on.
Glimpses of Sci-Connect Quiz Competition at Guwahati
b) 13-Episodes Television Serial on “Ubharti Prodyogiki Sanwarta Kal”

“Ubharti Prodyogiki Sanwarta Kal”: A science serial in Hindi was produced and telecast to highlight the role of science & technology in the empowering people. The programme was inspired by the ‘Make in India’ programme of Govt. of India. This serial covered cutting edge Indian indigenous technologies which are essential for the empowerment of society like health, agriculture, space, weather forecasting, sanitation, environment conservation etc. were the main highlight of the serial.

![Glimpses of “Ubharti Prodyogiki Sanwarta Kal” television science serial](image1)

c) “Building blocks of Bharat”: 13-Episodes Television Science Serial in English and Hindi

13-episodes science serial “Building blocks of Bharat (Bhartiya Vastuikala)” was produced and telecast through DD-National. This serial explores the science and technology that powers the most beautiful and significant architectural sites and monuments of India – ranging from the religious sites to the residential town planning. Each episode focuses on a different aspect of architecture and explores its various facets. The serial also covers about Water, Bricks, Wooden Technologies used in ancient architecture including Stone Observatory and Metallurgy.

![Glimpses of “Building Block of Bharat” television science serial](image2)

d) Documentary on S. N. Bose

Documentary film (Hindi and English) on Indian Scientist S. N. Bose produced and telecast from DD National, LSV and RSTV.
e) **Weekly Science News Programme in Hindi and English**

Vigyan Prasar is producing weekly science news in magazine format in English (Science Monitor) and Hindi (Gyan Vigyan) of 30 minutes duration each, on recent developments in science and technology. These news programmes are being telecast weekly on RSTV (Sunday between 11:00 to 12:00 hrs and every Saturday between 15:00 to 16:00 hrs). The programme focused on important national and international events, discoveries and happenings in the field of S&T. Total 104 episodes were produced and telecast.

![Glimpses of weekly science news “Science Monitor and Gyan Vigyan” on RSTV and Youtube](image)

f) **Short Films/Documentaries produced for other Scientific Organizations**

- “Achievement in Science and Technology in India (Documentary) produced for the Ministry of Earth Science.
- Technical support to Indo-US science and Technology Forum (IUSSTF) New Delhi for producing short films on various technologies developed by their stockholders.
- “Latest Achievement in Science and Technology- 2018” (Short video) for telecast from DD, RSTV and LSTV during National Science Day- 2018.

1.2 **Projects Under Production:**

- **Geology and Geography of India:** 13-episodes Television Serial on India and its varied orthographic and geological features is to be produced to explore the formation of mountain and other unique geographical features such as the Western Ghats and the rain shadow regions on the Eastern side, geographic and geological features in mainland, islands and ocean. The production of the serial is in process.
“Role of Science and Technology in Understanding Disaster and its Mitigation”: 26-episodes Television Serial is in progress. The primary research along with proposed draft line has been finalized, and shooting is in process. The focus of the serial is to understand different disasters through the lens of planning, mitigation, response and prevention.

Dubbing of films in Regional Languages: Dubbing of serials Building blocks of Bharat (13 episodes) is in 10 regional languages (Assamese, Oriya, Punjabi, Bengali, Marathi, Tamil, Malayalam, Urdu, Telugu and Gujarati) is in progress.

2.0. Telecast of Programmes

Vigyan Prasar telecasts its programmes through a large number of television channels as per the MoU with Prasar Bharati, with Rajya Sabha Television (RSTV) and Lok Sabha Television (LSTV). A few such channels include the DD-National, DD Bharti, DD Urdu, DD India, and ten regional Doordarshan Kendras. Details of programmes telecast through different channels are:

a) Programmes through Doordarshan National (DD National)

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Title of Series/Programme</th>
<th>Telecast date</th>
<th>Time /Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bharat Mai Shuchana Prodhyodiki Kranti (Hindi version of IT@India revolution)</td>
<td>February 11, 2017, to May 06, 2017</td>
<td>09:30 to 10:00/ Saturday</td>
</tr>
<tr>
<td>2</td>
<td>Ubharti Prodyogiki Sanwarta Kal</td>
<td>May 13, 2017, to August 06, 2017</td>
<td>09:30 to 10:00/ Saturday</td>
</tr>
<tr>
<td>3</td>
<td>Building Block of India</td>
<td>August 12, 2017, to November 04, 2017</td>
<td>09:30 to 10:00/ Saturday</td>
</tr>
<tr>
<td>4</td>
<td>Khudbud: khel vigyan ke</td>
<td>November 11, 2017</td>
<td></td>
</tr>
</tbody>
</table>

b) Telecasts through Lok Sabha TV

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Title of Series/Programme</th>
<th>Telecast date</th>
<th>Time /Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Chatpate Raj</td>
<td>December 31, 2016 to April 15, 2017</td>
<td>11:00 to 11:30/ Saturday</td>
</tr>
<tr>
<td>2</td>
<td>India @ IT revolution</td>
<td>April 22, 2017 to July 15, 2017</td>
<td>11:00 to 11:30/ Saturday</td>
</tr>
<tr>
<td>3</td>
<td>Bharat Mai Shuchana Prodhyodiki Kranti</td>
<td>August 19, 2017, to November 11, 2017</td>
<td>11:00 to 11:30/ Saturday</td>
</tr>
<tr>
<td>4</td>
<td>Ubharti Prodyogiki Sanwarta Kal</td>
<td>18 November 2017 to February 18, 2018</td>
<td>11:00 to 11:30/ Saturday</td>
</tr>
</tbody>
</table>
### c) Telecasts through Rajya Sabha TV

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Title of Series/Programme</th>
<th>Telecast date</th>
<th>Time /Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Science Monitor</td>
<td>Every Saturday</td>
<td>15:00-15:30 PM/ Saturday</td>
</tr>
<tr>
<td>2.</td>
<td>Gyan-Vigyan</td>
<td>Every Saturday</td>
<td>15:30-16:00 PM/ Saturday</td>
</tr>
<tr>
<td>3.</td>
<td>Indian @ IT revolution</td>
<td>February 05, 2017 to 23 April, 2017</td>
<td>12:30 to 13:00 PM/ Sunday</td>
</tr>
<tr>
<td>4.</td>
<td>Bharat Mai Shuchana Prodhyodiki Kranti</td>
<td>30 April, 2017 to 23 July 2017</td>
<td>12:30 to 13:00 PM/ Sunday</td>
</tr>
<tr>
<td>5.</td>
<td>Chatpate Raj</td>
<td>30 July 2017 to November 05, 2017</td>
<td>12:30 to 13:00 PM/ Sunday</td>
</tr>
<tr>
<td>6.</td>
<td>Building Block of India</td>
<td>November 12, 2017, to February 10, 2018</td>
<td>12:30 to 13:00 PM/ Sunday</td>
</tr>
<tr>
<td>7.</td>
<td>Bhartiya Vastukala</td>
<td>February 17, 2018</td>
<td>12:30 to 13:00 PM/ Sunday</td>
</tr>
</tbody>
</table>

### d) Programme through DD India

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Title of Series/Programme</th>
<th>Telecast date</th>
<th>Time /Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>India @ IT revolution</td>
<td>February 26, 2017 to May 21, 2017</td>
<td>12:00 to 12:30 PM/Sunday</td>
</tr>
<tr>
<td>2.</td>
<td>The Maths factor</td>
<td>May 28, 2017 to August 20, 2017</td>
<td>12:00 to 12:30 PM/Sunday</td>
</tr>
<tr>
<td>3.</td>
<td>Wise Spice</td>
<td>November 05, 2017 to January 28, 2018</td>
<td>12:00 to 12:30 PM/Sunday</td>
</tr>
</tbody>
</table>

### e) Programme through DD Urdu

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Title of Series/Programme</th>
<th>Telecast date</th>
<th>Time /Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Jo Hai Jaisa Kyu Hai Vaisa</td>
<td>July 08, 2015 to September 30, 2015</td>
<td>16:30-17:00/Wednesday</td>
</tr>
</tbody>
</table>

### f) Program on Victers Channel, Government of Kerala

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Title of Series</th>
<th>Language</th>
<th>Month of Telecast</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Question of Science</td>
<td>Malayalam</td>
<td>January to March 2018</td>
</tr>
<tr>
<td>2.</td>
<td>Wise Spice</td>
<td>Malayalam</td>
<td>January to March 2018</td>
</tr>
<tr>
<td>3.</td>
<td>India@IT revolution</td>
<td>Malayalam</td>
<td>January to March 2018</td>
</tr>
</tbody>
</table>
g) Program on Sci-connect 2017

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Title of series</th>
<th>Language</th>
<th>Month of Telecast</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>DDK-Guwahati</td>
<td>English</td>
<td>February –March 2018</td>
</tr>
<tr>
<td>2.</td>
<td>DDK-Imphal</td>
<td>English</td>
<td>February –March 2018</td>
</tr>
<tr>
<td>3.</td>
<td>DDK-Agartala</td>
<td>English</td>
<td>February –March 2018</td>
</tr>
<tr>
<td>4.</td>
<td>DDK-Kohima</td>
<td>English</td>
<td>February –March 2018</td>
</tr>
<tr>
<td>5.</td>
<td>DDK-Itanagar</td>
<td>English</td>
<td>February –March 2018</td>
</tr>
<tr>
<td>6.</td>
<td>DDK-Gangtok</td>
<td>English</td>
<td>February –March 2018</td>
</tr>
<tr>
<td>7.</td>
<td>DDK-Shillong</td>
<td>English</td>
<td>February –March 2018</td>
</tr>
</tbody>
</table>

3.0 Dissemination of Video content through social and other media

Video Programmes produced by VP are being uploaded regularly on a Vigyan Prasar page on Youtube titled vigyanprasaryt. Up to 31st March 2018, total viewers were around 7.0 lakhs, and this number is consistently increasing day by days. The total numbers of subscribers are 8269. These video resources are accessible further through CSIR-NISCAIR- Tube and The National Repository of Open Educational Resources (NROER) of the National Council for Educational Research and Training (NCERT).

The Vigyan Prasar films are screened regularly by Non-Government Organization like READ-India, and Azim Premji Foundation Teachers Portal. The READ India screened films in rural areas targeting villagers and the farmer’s community and students.
4.0 Screening of VP Films: Some important outreach initiatives

- Screening of various VP’s film followed by quiz competitions was organized at 1200 schools for one month situated all eight states of North-East.
- Screening of VP’s film on “Umbharti Prodyogiki Sanwarta Kal” at INSA, New Delhi on September 14, 2017.
- The films of Vigyan Prasar are regularly telecast through EduSAT as per the specific needs of the various region of the country.
Science & Technology through Radio is one of the flagship programmes of VP. Since 2008, as per the MOU with Prasar Bharti, mega radio serial is being produced in 19 languages and broadcast from 117 Stations of AIR. The programmes are genuinely an integrated initiative to reach out to all section of the society with particular focus on marginalized society including in the most difficult geographical terrains. To ensure the interactivity and two-way communication regarding the content and quality, scientists, experts and the programme producers are invited to engage with listeners in all the languages to enhance the understanding about the approaches and the outcome of science. The educational institutes, civil society’s groups, school and science clubs are an integral part of the process of outreach. To supplement the content and information base, additional resources in the forms of booklets, posters are provided to the committed listeners.

As a new initiative with local Air Station, radio programmes are also being produced and broadcast in local dialects to cater the special need of identified target audience.

Some important radio programme produced during the period of the report are:

1. **Chalti Rahe Zindagi (Life Must Go ON) on Theme Sustainable Development**

   The 52 episode mega radio serial on theme Sustainable Development entitled “Chalti Rahe Zindagi in Hindi and Life Must Go On in English was produced jointly with AIR. The serial is being aired since June 2017 in 19 languages from 117 stations of AIR. VP conceived the serial within the
overall perspective of RIO=20 outcome document “The Future We Want” as adopted in United Nation Conference on Sustainable Development in Brazil 2012. The serial is covering such issues that will be more appropriate and suitable to Indian Scenario to achieve the goals of Sustainable Development on three pillows, i.e. economic, social and environmental.

The serial is presented through an interactive docu-drama format in all the languages, covering aspects like the concept of sustainability in different civilisations, sustainability and Industrial revolution, the growth of population and natural resources consumption patterns, Indian ethos and practices on conservation/sustainability, Issues of sustainability in India perspective etc. In nine interactive episodes,
subjects experts (scientists, policy makers, administrators etc.) are being invited to answer the queries raised by the listeners through letters, email and phone calls etc. A workbook on Sustainable theme Development is also being developed as supplementary resource material for intensive engagement in the learning process for the understanding of concept Sustainability.

The broadcast of the serial will be over by June 2018 in all the languages.

| Radio Serial on Theme Sustainable Development  
| Chalti Rahe Zindagi (Life Must Go On)  

**Target group/groups:**
Citizens, civil society awareness facilitators, and managers.

**Proposed thrust areas for the serial episodes**
i) The approaches and methods to protect and manage the natural resources base for economic and social development.
ii) Ensuring Sustainable energy for all.
iii) Ensuring universal accesses to potable water for all.
iv) Sustainable Cities and ensuring safe and secure human settlement.
v) Climate Change and creating resilience
vi) Protecting the ocean and marine ecosystem.
vii) Sustainable Life Style

**Special Features of Radio Serial**

i) Produce 52 standalone thematic episodes
ii) Each episode of 27 minutes
iii) Docudrama/feature format.
iv) Produce in 19 Indian Languages simultaneously.
v) Broadcast from 117 stations of All India Radio simultaneously
vi) Audio Programmes made available for sale after broadcast

**Tentative Structure of the Episode**

Emphasis on
• The science of Climate change
• Preparedness to face the challenge
• Global and Indian initiatives
• Important multilateral negotiations and convention.
• Mitigation and adaptive measures
• Success stories
• Application of technologies
• Do and Don’t
• One focused message
2. Reaching to Tribal areas

2.1. “Sooch Samaj Kar”: 26 Episode radio serial in Santhali

Jharkhand is one of the states which has about 32 tribal communities out of which the Santhal is the biggest (around 60 lakhs). Vigyan Prasar in its effort to fulfil the constitutional mandate of science popularization, produced a radio programme in Santhali dialect entitled “Sooch Samaj Kar” in collaboration with Manthan Yuva Sansthan, Ranchi. The serial was broadcast from 18th March 2017 to 11th June 2017 from four regional AIR Stations, i.e. Bhagalpur, Ranchi, Jamshedpur, and Chaibasa. Each episode of 15 minutes duration was broadcast either in the morning or evening except from Bhagalpur where it was broadcast on every Saturday and Sunday at 2.50 pm.

The content of the radio serial was finalized in the series of discussion and meeting with stakeholders like social workers, Panchayats functionaries, representative of women groups and local NGOs. Around 26 topics on locally relevant issues like health and hygiene, indigenous knowledge, management of natural resources including local biodiversity, snake
bite, intoxication, animal health the myth and the superstitions prevailing in that area and risk communication etc. were selected for the programme. Before the broadcast of the programme, listener groups were formed, and community listening was organized.

The programme was well received by the local people and each issue taken up in each episode form the basis for discussion, especially among the women group. On 4th June, a press conference cum interaction with listener group was organized at Dumka, a place which is about 400 Km. away from Ranchi. In this meeting/ conference, more than 50 women listeners participated and shared their experiences regarding issues on health, hygiene, etc. The possibility is being explored for a repeat broadcast by involving AIR Stations and Community Radio as well.

2.2. “Dai Larka Jaan, Jee Jahan Vigyan: 26 Radio serial in Gondi

Radio serial in Gondi language title “Dai Larka Jaan, Jee Jahan Vigyan” was produced jointly with Madhya Pradesh Council of Science & technology (MPCOST), Bhopal. The 26 episode serial on theme science in daily life was broadcast on AIR from Jabalpur during August 2017 to January 2018.
2.3. “Baigan Ke Vigyan Tamasha”: Nukkad Natak based on Radio Scripts in Bega dialect

Nukkad Natak in Bega “Baigan Ke Vigyan Tamasha” were performed in Bega speaking community of the Madhya Pradesh during July –December 2017. More than 100 shows in Haat Bazar and 150 in schools were organised to highlight the role of science in daily life. Some of the issues were to dispel the myth and superstitions prevalent in that area relating to the health and hygiene especially issues pertaining to adolescent girls and pregnant women. Before the launch of both the programme, a press conference was organised in Bhopal on 21 July at Hotel Palash, Bhopal, which was attended by more than 50 media groups. Extensive coverage of the programme was given by the print as well as by electronic media.

2.4. Soisima Kok’ Radio serial in Kokborok Language

Vigyan Prasar and Tripura State Council for Science & Technology produce 26 episodes of Radio serial in Kokborok (Mother tongue of Tribals of Tripura) to enhance the public understanding of science and nurture scientific temperament. The issues for the radio serial were finalized in a brainstorming meeting organised at Agartala.

The serial entitled Soisima Kok’ (In Kokborok, meaning ‘Words of Science’) was broadcast during 2 April 2017 to 1st October 2017 from of All India Radio, Agartala at 7 pm every Sunday. A signature tune was also composed for this programme with the help of local folk artists. The 26 episode serial had broadly five segments i.e.

1. Environment, Biodiversity & Wildlife,
2. Superstition, Misconception and health-related issues,
3. Social Evils, and
4. Disaster & epidemic management.

Each episode was in a docudrama format with a particular scientific message. At the end of each episode a question was posed to the audience. The answers and feedback were received through SMS and phones. The winner will be facilitated in a function to be organized soon. A number of letters have also been revived giving suggestion and topics to be covered with a request for more such programme in Kokborok language. The listeners well received
the programme in terms of its content and the production value. It is pertinent to mention that the local AIR station has no artists to produce science drama programme in Kokborok language. The local artists provided their voices for the drama which were also trained in a series of session for this docu-drama serial.

**Topic wise Episodes of Radio Serial Soisima Kok**


### 2.5. Radio serial on Traditional Knowledge System of Meghalaya

A radio serial in Garo and Pnar language are being produced on the Traditional Knowledge System of Meghalaya. A brainstorming meeting was organized at Shillong on August 17, 2017, to finalize the content, format and treatment of the serial. The meeting was attended by 40 stakeholders representing universities, civil society groups, programme producer of AIR, scriptwriters and some practitioners of TKS in various walks of life. The primary objective of this serial is to create awareness about the selected TKS which can be helpful in addressing the challenge posed by climate change in the Himalayan State especially on agriculture, health, livelihood and ecosystem services. Some identified TKS for radio serial are Bamboo irrigation Method, Sacred Forest & Protected Forest, Orange Cultivation: A dying Tradition, Nomenclature of Plants: Indicator of edible Plant, Tungtap: Fish fermentation, Tungrymbai:
Soybean Fermentation, Agriculture Implements, Bio fencing, Shifting/Slop Cultivation: Local Wisdom and Science/rationality of the same in local circumstances, Bund Practice, Fishing Practices, Khasi Umbrella Traditional technique of House building: Withstanding eco-climatic and seismic challenge and Bamboo based technology and practices like Bridges & musical instruments etc.

The duration of each episode will be 15 minutes and broadcast AIR stations of Shillong and Tura (in Garo) and Jowai (in Pnar). The broadcast of the serial titled “Maigitchammanagni Miti Dakbewalko Chasongni Kri Nandapatani” has started from March 3, 2018, and continue to June 2018. For the serial a theme song and a promo have been developed, and provision has been made to receive feedback from the listeners through SMS.
Since past decade, Vigyan Prasar is utilizing the potential of films for science as a tool for science popularisation. Various activities, theme based events, workshops and film festivals are being organised throughout the country. All these programmes are designed to acknowledge and foster excellence in using films as a medium for taking science to people. Over the present report period, concerted effort has been made to understand the relevance of film making to communicate science and gaps in the process of enhancing capacities especially of amateurs. Students and professional film makers specializing in film based communication initiatives are important stakeholders in this context. Some of the initiatives are:

1. **India International Science Film Festival 2017**

As part India International Science Festival (IISF) 2017, a three-day India International Science Film Festival (IISFF) was organised during 14th to 16th October 2017 at National Centre for Sustainable Coastal Management (NCSCM), Anna University Campus, Chennai.

The grand inauguration of the India International Science Film Festival (IISFF) 2017 took place on 14th October 2017.

*Nrendra Sehgal, former Director, VP inaugurating the festival*
at the Delta auditorium of NCSCM by the Chief Guest Prof. Shambhu Nath Singh, Former Vice Chancellor, Patna University and Director, School of Journalism and New Media Studies, IGNOU. Klinga Awardee Dr. Narender K Sehgal, Former Head NCSTC and Director, Vigyan Prasar and Mr Pankaj Saxena, Media Academician and Former Vice President, Discovery Channel and Programming Head, BBC India was the Guest of Honour on the occasion. More than 250 professional & student film-makers and film enthusiasts from India, USA, Germany, UK and France were also present in the inaugural programme.

The IISFF was organised every year with the objectives to promote scientific temper among besides attracting young & talented science filmmakers and science enthusiasts to foster and create an excitement of science amongst people at large. The film festival offered an opportunity for students and other participants to get involved with the process and improve
their understanding of various feats in science and technology.

India International Science Film Festival was partnering with Economic & Social Research Council-UK; The Natural Environment Research Council-UK; Research Council UK India; Science & Innovation Network-British High Commission; CNR WEB TV-Italy; National Research Council-Italy; Max-Planck Institute-Germany; Australian Government; 20th Century Fox-USA; Embassy of Sweden in India; French Cultural Institute; Embassy of France in India; Royal Norwegian Embassy in India; Embassy of the Republic of Korea, India.

2. Science film competition and IISF Science Film Awards for Indian film makers

Science film competition for Indian film makers (professional and student categories) was also the part of the event having five themes i.e. Science for New India; Science and Sustainable Development; Swachh Bharat–Swasthya Bharat; Technology and Innovations; Climate Change – Challenges & Solutions. Eighty nine entries for the competition from Indian film makers (47 films in professional category and 42 films in student category) were received. Twenty Nine shortlisted films were screened during the film festival and a Jury selected films for IISF Science Film Awards 2017 in professional and student categories. Internationally acclaimed 24 science films from nine countries (Australia, France, Germany, Italy, Korea, Norway, Sweden, UK, USA) were screened during the festival.

Science film makers were awarded with IISF Science Film Awards on 16th October 2017 by Dr. Harsh Vardhan, Hon. Minister of Science & Technology and Earth Sciences, Govt. of India. Shri. A. Jayakumar, Secretary General, VIBHA and Jury Chair Prof. Shambhu Nath Singh were present of the occasion.

Dr. Harsh Vardhan announced two major activities related to science films - involvement of people from all districts and states of India in science film festivals and fellowships to young science film makers on science film making on new researches and scientists of India. Minister invite new ideas from jury members and experts associated with film festival to strengthen the film making culture in India. Minister also said that Science films have the capacity to change the system and the minds of the people.

Film makers were awarded with cash, trophy and certificates. Following cash awards were announced:
Category A (professional film makers)

First Prize - Rs. 1,00,000/-;
Second Prize - Rs. 75,000/-;
Third Prize - Rs. 50,000/-.

Category B (school / college students)

First Prize - Rs. 50,000/-;
Second Prize - Rs. 30,000/-;
Third Prize - Rs. 20,000/-.

3. IISF Science Films Awards 2017 for Category A (films made by professional / institutional film makers)

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Award</th>
<th>Title of the Film</th>
<th>Director / Producer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>1st Award</td>
<td>Satyendra Nath Bose</td>
<td>Directed by Shila Datta; Produced by Vigyan Prasar</td>
</tr>
<tr>
<td>2.</td>
<td>2nd Award</td>
<td>The Loss of Western Ghats</td>
<td>Directed by Biju Pankaj; Produced by Mathrubumi News</td>
</tr>
<tr>
<td>3.</td>
<td>3rd Award</td>
<td>#Tulla Dozing The Bull@ Zojila</td>
<td>Directed by Jalal Ud Din Baba; Produced by Ultimate Horizons, J&amp;K</td>
</tr>
<tr>
<td>4.</td>
<td>3rd Award</td>
<td>Farmers of the Future</td>
<td>Directed by Rishu Nigam; Produced by TERI, New Delhi</td>
</tr>
</tbody>
</table>

Winners of Category A of IISFF 2017

(films made by school / college students)

<table>
<thead>
<tr>
<th>S.No.</th>
<th>Award</th>
<th>Title of the Film</th>
<th>Director / Producer</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>1st Award</td>
<td>Where have the Sparrow gone</td>
<td>Directed by Rushikesh Daud; Produced by Deogiri Institute of engineering and management Studies</td>
</tr>
</tbody>
</table>
2. **2nd Award**  
*Oneness with the Infinite*  
Directed by Arjak Bhattacharjee; Produced by IIT Kanpur

3. **3rd Award**  
*AWSM*  
Directed and produced by Suyash Shreshtha

Special screening of Science films Kanavu Variyam by Arun Chidambaram, and Saving the Saviour by Jalal Ud Din Baba were organised during the award ceremony. KanavuVariyam (Dream Factory) which is based on organic farming and power-cuts in villages across Tamil Nadu has won 7 International Awards and 15 National Honours. Saving the Saviour tells the story of the largest lake of Asia – Wular. This film was awarded in IISFF 2016.

5. **Master Classes, workshops and panel discussions on science film making**

Master Classes, workshops and panel discussions on various aspects of science & environment films were organized during the film festival by eminent science communicators and filmmakers from Discovery Channel, Ramoji Film City, AJK MCRC. Themes of the Master Classes include (i) Content Research & Visualisation for Science Films; (ii) The World of Science Films; (iii) Science Films: Story Telling Aspects; (iv) Pre to Post Production aspects of Environmental & (v) Script Writing for Science Films (vi) Science Film Making.

A Panel Discussion on Effective Science Communication through Videos was conducted during the film festival.
6. **Interactive session “Jury’s view on competitive films of IISFF-2017”**

An Interactive session “Jury’s view on competitive films of IISFF-2017” was organised with Jury Members. Prof. Shambhu Nath Singh, Chairman-Jury and Members of the Jury Mr. Pankaj Saxena, Mr. Himanshu Malhotra and Dr. Deepika Bhaskar participated in the session. Jury Members interacted on science films screened during the festival and discuss how a science film can be made more effective and informative. It was more of a question and answer session where the Jury Members answered to the participant’s queries. Jury Members also spoke about the rectification of errors in language, translation and how carefully it should be done.

7. **A workshop on Content, Research & Visualization**

A workshop on Content, Research & Visualisation for Science Films was conducted by Mr. Nandan Kudhyadi, Sr. Science Film-Maker.

8. **Panel Discussion on Effective Science Communication through Videos**

A Panel Discussion on Effective Science Communication through Videos was also organised on 16th October 2017 in which Dr. Manoj Patairiya, Director, CSIR-NISCAIR, New
9. **Session on Scientoonics and Scientoons**

A session on Scientoonics and Scientoons was conducted by Mr. Pradeep Kumar Srivastava, Former Dy. Director at Central Drug Research Institute, Lucknow.
The flagship event of Vigyan Prasar, the 8th National Science Film Festival (NSFFI) of India was organised during 20th to 24th of February 2018 in collaboration with the Department of Communication and Journalism, Gauhati University, Guwahati.

The NSFFI offers an opportunity for students and other participants to get involved with the process and improve their understanding of science and technology. The science films’ competition, which is part of the festival, aims to recognise the initiative and output of science filmmakers on the specific aspects of science, technology, environment, health, and related issues. Another important objective of this film festival is to encourage efforts by both professionals and students to make science films.

The inaugural ceremony of NSFFI held on 20th February 2018 was presided over by Dr Mridul Hazarika, Vice Chancellor, GU while Dr Suresh Kumar Nath, Registrar, GU delivered the welcome address. Dr Mike Pandey, 3-times Green Oscar winner and Prof. Sambhu Nath Singh, Director, School of New Media Studies, IGNOU, New Delhi attended as guest.
of honour. Dr Manoj Kr. Patairiy, Director of CSIR-NISCAIR, New Delhi, delivered the keynote speech.

Science films (documentaries, short films and science fiction etc. on various sub themes of S&T, environment and health) in four competitive categories were invited from Indian film makers- i.e. (i) Category A films sponsored by government institutions / organisations, (ii) Category B films made by independent film makers / production houses (iii) - Category C films made by college students and (iv) Category D films made by school students Total 203 numbers of films were received including 48 films in government-sponsored category, 41 films in independent filmmaker’s category, 38 films from colleges, and 76 films from schools.

During the festival, 65 nominated films in the competitive categories as well as 17 international science films from countries like US, UK, Germany, France, Italy, Norway, Switzerland and South Korea were screened. In the festival about 200 filmmakers, film critics, scientists and 500 student across the country participated. The festival was partnered by altogether 20 national and international organisations including UNICEF, IIT Guwahati, Indo-US Science and Technology Forum, National
Science Museum, CSIR-NISCAIR, British High Commission, Research Councils of UK, Institute Français (India) and Dr Anamika Ray Memorial Trust. Rajya Sabha TV and News in Science were the two media partners along with Doordarshan in the festival.

Some related activities were also organized as follow:

- A parallel session of film screening at Regional Science Centre, Khanapara.
- A panel discussion on the emerging areas for science film making at IIT Guwahati.
- Master classes by eminent films makers and scientist on various aspects of film making and current scientific issues.
- A workshop on Science Communication through films to discuss different avenues of Science Communication & films, chaired by Prof Manoj Patairiya.
- A round table discussion on emerging trends in Science Film-Making .
- A panel discussion on education entertainment films for social Change were held by UNICEF to discuss the issue of film/documentary making on social issues by youth.

On the last day of the Film Festival, the Jury shared their views and, a special screening of the acclaimed film “Looking For Sultan” by Mike Pandey was screened. The award ceremony was followed by valedictory session which was attended by Er Chander Mohan, Director, Vigyan Prasar, Dr. Tushar Rane, Chief of Field Office, UNICEF, Assam, Dr. Mike Pandey, Chairman of Jury Member, and Prof. Hari Prasad Sarma, Rector, Gauhati University.

It was for the first time, National Science Film Festival was organised in a North-Eastern State.
Details of award winning films and film-makers are given in the following box:

1. **Category ‘A’: Films sponsored by government/non-government organisations**

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Award</th>
<th>Film’s Title</th>
<th>*Directed by; **Produced by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Golden Beaver Award</td>
<td>Whispers of Warming</td>
<td>*Anoop Khajuria **Doordarshan, New Delhi</td>
</tr>
<tr>
<td>2.</td>
<td>Silver Beaver Award</td>
<td>Yak - Ship of Mountains</td>
<td>*Renu Negi, AsararShamsi **ICAR, New Delhi</td>
</tr>
<tr>
<td>3.</td>
<td>Bronze Beaver Award</td>
<td>Annapurna</td>
<td>*Niyaz **KEM Hospital Research Centre, Pune</td>
</tr>
</tbody>
</table>

2. **Category ‘B’: Films made by independent film makers / production houses**

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Award</th>
<th>Film’s Title</th>
<th>*Directed by; **Produced by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Golden Beaver Award</td>
<td>Predating the Predators</td>
<td>* Vipul Keerti Sharma ** Vipul Keerti Sharma</td>
</tr>
<tr>
<td>2.</td>
<td>Silver Beaver Award</td>
<td>Decoding Silk</td>
<td>* Amartya Saha ** Amartya Saha</td>
</tr>
<tr>
<td>3.</td>
<td>Bronze Beaver Award</td>
<td>Grandma’s Forest</td>
<td>* G.S.Unnikrishnan Nair ** G.S.Unnikrishnan Nair</td>
</tr>
</tbody>
</table>
3. Category ‘C’: Films made by college students

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Award</th>
<th>Film’s Title</th>
<th>*Directed by; **Produced by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Golden Beaver Award</td>
<td>Womanhood - A Documentary on Menstrual Hygiene</td>
<td>* Sweta Dutta ** Made In Media, Bhopal (M.P.) &amp; Sweta Dutta</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td>Last Chance</td>
<td>* Vinayak Animesh Mathur ** Birla Institute of Technology, Noida, U.P.</td>
</tr>
<tr>
<td>3.</td>
<td>Silver Beaver Award</td>
<td>Manjal Neerattu (Story of Indian Saffron)</td>
<td>* Didimos Johnson P ** Institute For Integrated Programmes And Research In Basic Sciences, Kottayam, Kerala</td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td>Green Soil</td>
<td>* Keerthi Raj B S ** Science Media Centre, IISER Pune</td>
</tr>
<tr>
<td>5.</td>
<td>Bronze Beaver Award</td>
<td>Akk Chabba Pena (Must Chew Venom)</td>
<td>* Utsav Arora ** Utsav Arora</td>
</tr>
</tbody>
</table>

4. Category ‘D’: Films made by school students

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Award</th>
<th>Film’s Title</th>
<th>*Directed by; **Produced by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Golden Beaver Award</td>
<td>Dump the Junk</td>
<td>* Afreen Kapoor ** Afreen Kapoor</td>
</tr>
<tr>
<td>2.</td>
<td>Silver Beaver Award</td>
<td>Ak Asha Ki Kiran</td>
<td>* Shubham Parekh ** Utpal Shanghi Global School, Mumbai</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td>Nine</td>
<td>* Siddh Jain ** Cygnus World School, Vadodara, Gujrat</td>
</tr>
</tbody>
</table>
5. Special Jury Awards

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Film’s Title</th>
<th>*Directed by; **Produced by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Out in the Open</td>
<td>*Seema Muralidhara **The Energy Resources Institute, New Delhi</td>
</tr>
<tr>
<td>2.</td>
<td>Re-Motion Knee</td>
<td>*Matiur Rahman **Indo-U.S. Science And Technology Forum, New Delhi</td>
</tr>
<tr>
<td>3.</td>
<td>Millets for Next Generation Climate - Smart Agriculture</td>
<td>*Chandra Kumar P.H., Sreeharsha M Kulenuer **EMRC, University Of Mysore, Mysore</td>
</tr>
<tr>
<td>4.</td>
<td>Tribal and Indigenous Knowledge System</td>
<td>*Amitosh Dubey **EMPC-IGNOU, New Delhi</td>
</tr>
<tr>
<td>5.</td>
<td>Going Green (From Category F)</td>
<td>*Amartya Saha **Amartya Saha</td>
</tr>
<tr>
<td>6.</td>
<td>Preferential Monoculture (From Category F)</td>
<td>*Vipul Keerti Sharma **Vipul Keerti Sharma</td>
</tr>
</tbody>
</table>

Winner of Special Jury Award
6. Category F:- Special Mention Jury Award

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Film's Title</th>
<th>*Directed by; **Produced by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Noori ‘The Light’</td>
<td>*Purtaas&amp;Zameen Jalal **Ultimate Horizon J&amp;K</td>
</tr>
</tbody>
</table>

Special Awards for Technical Excellence

Research

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Film’s Title</th>
<th>*Directed by; **Produced by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Predating the Predators</td>
<td>* Vipul Keerti Sharma ** Vipul Keerti Sharma</td>
</tr>
</tbody>
</table>

Script

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Film’s Title</th>
<th>*Directed by; **Produced by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Khalasis of Malabar - Men Who Move Mountains</td>
<td>*Jaya Jose Raj **Films Division, Ministry of Information And Broadcasting, Mumbai</td>
</tr>
</tbody>
</table>

Cinematography

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Film’s Title</th>
<th>*Directed by; **Produced by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Yak - Ship of Mountains</td>
<td>*Renu Negi, AsararShamsi **ICAR, New Delhi</td>
</tr>
</tbody>
</table>

Sound Recording and Design

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Film’s Title</th>
<th>*Directed by; **Produced by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Psycho-Social</td>
<td>*Ishpreet Singh Bhasin ; Aryan Mediratta ;Shivam Issar ; Harsh Mittal ; **Bal Bharati Public School Pitampura, New Delhi</td>
</tr>
</tbody>
</table>

Editing

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Film’s Title</th>
<th>*Directed by; **Produced by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Whispers of Warming</td>
<td>*AnoopKhajuria **Doordarshan, New Delhi</td>
</tr>
<tr>
<td>2.</td>
<td>Annapurna</td>
<td>*Niyaz **KEM Hospital Research Centre, Pune</td>
</tr>
</tbody>
</table>
### Graphics / Animation / Special Effects

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Film’s Title</th>
<th>*Directed by; **Produced by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Bhartiya Vastukala - Prachin Peyjal Prabandhan</td>
<td>*Arjun Bhagat &amp; Radhika Chandrashekar **Vigyan Prasar, New Delhi</td>
</tr>
<tr>
<td>2.</td>
<td>Beat the Heat</td>
<td>*Rishu Nigam **The Energy and Resources Institute, New Delhi</td>
</tr>
</tbody>
</table>

### Direction

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Film’s Title</th>
<th>*Directed by; **Produced by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Exodus</td>
<td>*Madhav Vishnu **Vishnu K.V. (Madhav Vishnu)</td>
</tr>
</tbody>
</table>

### Category F: On the spot short films

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Film’s Title</th>
<th>*Directed by; **Produced by</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Mr. Friction</td>
<td>*Suyash Shreshtha **Suyash Shreshtha</td>
</tr>
<tr>
<td>2.</td>
<td>Life in Danger</td>
<td>*Sunit Saraf &amp; Alok Kumar Sinha **Jyoti Saraf</td>
</tr>
<tr>
<td>3.</td>
<td>Selfie Mania – Upcoming Disease</td>
<td>*Diksha M. Sonar **Rajesh K. Lad</td>
</tr>
<tr>
<td>4.</td>
<td>Refill</td>
<td>*Manish Kumar **Manish Kumar</td>
</tr>
<tr>
<td>5.</td>
<td>How To?</td>
<td>*Prince Kumar **Prince Kumar</td>
</tr>
<tr>
<td>6.</td>
<td>Infrared Cooking: Clean &amp; Energy Efficient</td>
<td>*Hrishikesh Angom **Hrishikesh Angom</td>
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</table>
### Details of Awards

#### Category A
**Award with trophy & certificate**  
- **Golden Beaver**: 1,00,000
- **Silver Beaver**: 75,000
- **Bronze Beaver**: 50,000

#### Category B
**Award with trophy & certificate**  
- **Golden Beaver**: 1,00,000
- **Silver Beaver**: 75,000
- **Bronze Beaver**: 50,000

#### Category C
**Award with trophy & certificate**  
- **Golden Beaver**: 75,000/-
- **Silver Beaver**: 50,000/-
- **Bronze Beaver**: 30,000/-

#### Category D
**Award with trophy & certificate**  
- **Golden Beaver**: 50,000/-
- **Silver Beaver**: 30,000/-
- **Bronze Beaver**: 20,000/-

#### Category E
**Award with trophy & certificate**  
- **On the spot short film**: 25,000/-

#### Special Award for Technical Excellence
**Award with trophy & certificate**  
- **Research**: 25,000/-
- **Script**: 25,000/-
- **Cinematography**: 25,000/-
- **Sound Recording and Design**: 25,000/-
- **Editing**: 25,000/-
- **Graphics / Animation / Special Effects**: 25,000/-
- **Direction**: 25,000/-

**Special Jury Award with trophy & certificate**: 50,000/-
City-level science film festivals with NCSM

City-level science film festivals were organised in the centers of NCSM located in 23 different cities/states in different time intervals throughout the year. More than 10 thousand students and visitors attended the festival in 23 cities. Details of centers are:

Visvesvaraya Industrial & Technological Museum, Bengaluru; District Science Centre, Purulia; Regional Science Centre, Bhubaneswar; Digha science centre, Digha; District Science Centre, Gulbarga; District Science Centre, Tirunelveli; Raman Science Centre, Nagpur; Birla Industrial & Technological Museum, Kolkata; Nehru Science Centre, Mumbai; Shrikrishna Science Centre, Patna; North Bengal Science Centre, Siliguri; Regional Science Centre, Tirupati; Regional Science Centre, Bhopal; Regional Science Centre, Guwahati; District Science Centre, Dharampur; Science City, Kolkata; National Science Centre, Delhi; Bardhaman Science Centre, Bardhman; Dhenkanal Science Centre, Dhenkanal; Regional Science City, Lucknow; Regional Science Centre, Calicut; Kurukshetra Panorama & Science Centre, Kurukshetra; Goa Science Centre, Panaji.
Publication of popular science books and magazine is one of the major programme of Vigyan Prasar. For popularization of science on a large scale, Vigyan Prasar has consistently and pro-actively published books under various themes/issues of topical relevance. These include publications on scientists’ biography, science classic reprints, do-it-yourself, natural history, health, Indian scientific heritage and materials pertaining to the International year of Planet Earth, the International year of Astronomy etc. Vigyan Prasar has so far brought out more than 300 titles – out of which, 190 are in English, 100 in Hindi and the remaining in other Indian languages. Our authors are renowned Indian scientists, well known science writers and science communicators from across the country. For wider outreach through popular science publications, Vigyan Prasar has collaborated with government and non-government organisations such as, Madhya Pradesh Council of Science and Technology, Marathi Vidnyan Parishad, Sasta Sahitya Mandal, Srujanika, to name a few.

The publications of Vigyan Prasar are well received. VP receives bulk orders from State Governments, State Science and Technology Councils and organizations such as ‘Room to Read’ and ‘Science Centers’. Titles of Vigyan Prasar are also available in the digital library of VP website. These could be downloaded free.

**Books published**

Vigyan Prasar brought out eight new titles during FY 2017-18. These titles are focused on the space science, health and medicine, agriculture and scientific thinking. The titles of these books are as follows:
Prof. Shambhu Nath De and the Discovery of Cholera Toxin (Paperback)
Language: English
Author: Dr. M.S.S. Murthy
ISBN: 978-81-7480-302-3

Autobiography of Moon (Paperback)
Language: English
Author: Dr. Ramesh Shishu
ISBN: 978-81-7480-301-6

Spice to Science (Paperback)
Language: English
Author: Dr. K. Krishna Murty
ISBN: 978-81-7480-303-0

Story of Consciousness (Paperback)
Language: English
Author: Dr. Govind Bhattacharjee
ISBN: 978-81-7480-305-4

Fasal Samrakshan (Paperback)
Language: Hindi
Author: Dr. Dinesh Mani
ISBN: 978-81-7480-300-9

Parmparik Fal-Sabji Prasansakaran (Paperback)
Language: Hindi
Author: Shri Dhara Singh
ISBN: 978-81-7480-306-1

Chocoholate Chor (Paperback)
Language: Hindi
Author: Dr. Zakir Ali ‘Rajnish’
ISBN: 978-81-7480-307-8

Kahani Parivahan Ki (Paperback)
Language: Hindi
Author: Shri Ivar Laitu
ISBN: 978-81-7480-308-5

Books published during the year 2017 – 2018
Books reprinted

Let's Put Things Together (Paperback)
Language: Biligual (English & Hindi)
Author: Shri Lalit Kishore and Anwar Zafri

Dekha Parkha Sach (Paperback)
Language: Hindi
Author: Dr. Harikrishna Devsare
ISBN: 81-7272-008-4

Graham: Mithakaur Yatharth (Paperback)
Language: Hindi
Author: Shri N.C. Rana
ISBN: 81-7480-055-7

Sach to Kuchh aur Hai (Paperback)
Language: Hindi
Editor: Dr. Narender K. Sehgal
ISBN: 81-7480-046-8

Pump hi Pump (Paperback)
Language: Hindi
Author: Shri Arvind Gupta

Book Reviews

Vigyan Prasar sends its new publications to leading journals, magazines, newspapers and science blogs for review. The purpose of this activity is the wider publicity of our popular science books. In the current FY, reviews of VP publications published in various magazines, newspapers & journals such as Vigyan Pragati, Vigyan, The Scientific World.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Title of VP publication</th>
<th>Magazine/newspaper/journal/science blog where book review published</th>
<th>Issue/year</th>
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<tr>
<td>1.</td>
<td>Urvarak evam Poshan</td>
<td>Vigyan Pragati</td>
<td>May 2018</td>
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<td>2.</td>
<td>Chhote Chhote Navacharon ki Vishvavyapi Upayogita</td>
<td>Vigyan</td>
<td>December 2017</td>
</tr>
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<td>3.</td>
<td>Khan Pan aur Rasayan</td>
<td>Vigyan</td>
<td>December 2017</td>
</tr>
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<td>4.</td>
<td>UrvarakevamPoshan</td>
<td>Vigyan</td>
<td>December 2017</td>
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<tr>
<td>5.</td>
<td>Khan Pan aur Rasayan</td>
<td>The Scientific World</td>
<td>November 2017</td>
</tr>
</tbody>
</table>

[Book reviewed in different journals/magazines]
Participations in book fair/ Science congress/ other fairs

Vigyan Prasar participated in number of book fairs and exhibitions across the country. Following is the list of Book Fairs/Exhibitions in which VP participated during the year 2017-2018.

1. MTNL Health Mela (October, 2017)
2. Trade Fair (November, 2017)
3. INSPIRE Exhibition (December, 2017)
4. India International Science Festival (December 2017)
5. Indian Science Congress-Manipur (March 2018)

Dream 2047

Vigyan Prasar brings out monthly bi-lingual science magazine *Dream 2047*. The magazine is being published by VP for last sixteen years. Present circulation of the magazine is 35000. It is distributed free. Vigyan Prasar encourages reading the electronic version of this popular science magazine. The electronic version of the magazine is posted every month in VigyanPrasar’s website www.vigyanprasar.gov.in

All past issues of the magazine are available online.

Vigyan Prasar published all the twelve issues during the year 2017 - 2018.

12 issues of the science magazine Dream 2047 printed during the year 2017 – 2018
Book release functions

Vigyan Prasar organized a book release function on 13 January 2018 at Pragati Maidan, New Delhi during the World book fair 2018. Five books were released during the Book Fair:

i. **Witness to Meltdown.** Author: Shri Dinesh C. Sharma

ii. **Story of Universe.** Author: Dr. Govind Bhattacharya

iii. **Essays on Chemistry.** Author: Prof. S. V. Eswaran

iv. **Natak natak men Vigyan.** Author: Shri Devendra Mewari

v. **Chuninda Vigyan Kathayen.** Author: Shri Ram Sharan Dass

A book, “Indian Scientists: The Saga of Inspired Minds” and its Hindi version “Bhartiya Vaigyanik – Preerna ki Srot”, was published by Vigyan Prasar to reveal important facets of development of science and technology from the perspective of inspiration and tenacity of purpose demonstrated by 54 top Indian scientific minds of the past. The book was formally released by Dr. Harsh Vardhan, Hon’ble Union Minister of Science & Technology, Earth Sciences, and Environment, Forest and Climate Change, on 12 March 2018 at India International Centre Annexe, New Delhi.
Present in the occasion were Prof. Ashutosh Sharma, Secretary, DST; Shri Chander Mohan, Director, Vigyan Prasar; and many other dignitaries.

The book on scientists has been co-authored by Biman Basu, Subodh Mahanti, Dinesh C Sharma, Hasan Jwaid Khan, Sukanya Datta, T V Jayan, T V Venkateswaran and Rintu Nath.

Dr. Harsh Vardhan also interacted with associates and relatives of some of the scientists featured in the book. Those present included Mr. Kartikay V. Sarabhai, founder director of Ahmedabad-based Centre for Environment Education and son of Vikram Sarabhai; Dr. Krishna Mishra, honorary professor, Indian Institute of Information Technology Allahabad, who was a research scholar of Dr. T. R. Seshadri; Dr. Tushar Purushottam Prabhu from Indian Institute of Astrophysics, a student of astronomer Dr Vainu Bappu; Arun Bhatnagar, former IAS officer and grandson of Shanti Swarup Bhatnagar; and S.P.K. Gupta, biographer of Y Subbarow.

On this occasion, the minister also released a compendium of science news articles syndicated by India Science Wire (ISW) during 2017. The compendium included 425 original news stories in English and Hindi produced by India Science Wire and published in Indian media outlets. These news articles highlight some of research work done in Indian research laboratories, academic institutions and universities. Another compendium of research highlights of winners of Ramanujam Fellowship awarded by the Science and Engineering Research Board (SERB) was also released.
Panel Discussion

A Panel Discussion on the theme “Climate Change Adaptation: Is India ready?” was organised on 13 January 2018 at Pragati Maidan. Panelists were Dr. Mustafa Ali Khan, Team Leader, Indian Himalayas Climate Adaptation Programme, Embassy of Switzerland; and Shri Raman Mehta, Advisor, Vasudha Foundation, New Delhi. Shri Dinesh C. Sharma, Managing Editor, India Science Wire (ISW) moderated the panel discussion.
Vigyan Prasar through its various activities and programmes in schools and outside the schools through a network of several hundred science clubs is connected with the children. Skill upgradation training, workshops and outreach activities are being organised involving the network of science clubs termed as VIPNET (Vigyan Prasar Network). During the period under report activity-based learning events were organised to reinforce the benefit of mutual learning. New partners like Kendriya Vidyalaya Sangathan and Tribal Education Departments of various States were the part of many new initiatives like Astronomy Festivals, Observing eclipses and Zero Shadow Day, etc.

Some of the activities carried out as part of children engagement involving VIPNET Clubs were the following:

1. **Workshops on Astronomical Telescope Making for VIPNET clubs**

Vigyan Prasar with support from National Council for Science and Technology Communication (NCSTC), Department of Science and Technology, New Delhi conducted two astronomical telescope making workshops for the VIPNET clubs. The main objective of these workshops was to impart technical skills through hands-on training to develop a five-inch (12.7-cm) Newtonian reflector telescope using locally available material. Fifty participants
Glimpses of Workshops on Astronomical Telescope Making for VIPNET clubs, Regional Science Centre, Coimbatore
from Andhra Pradesh, Kerala, Puducherry, Tamil Nadu, Madhya Pradesh, Jharkhand, Gujarat, Haryana, Uttar Pradesh, Delhi, and Maharashtra attended these workshops.

Glimpses of Workshops on Astronomical Telescope Making for VIPNET clubs, Madhya Pradesh Vigyan Sabha, Bhopal
In each workshop of ten-day duration participants grinded, polished five-inch glass blanks, tested their hand-made mirrors and fabricated the altazimuth mount. Every day, an expert delivered a lecture with a few working assignments to be performed by the participants. Fifty five-inch Newtonian reflector telescopes were made during these workshops. All the participants are connected with the Vigyan Prasar through the network and on first day of each month the monthly sky calendar is provided to them for conducting astronomical events/activities in their vicinity.

2. Workshops on Astronomical Telescope Making for Kendriya Vidyalayas

Vigyan Prasar in collaboration with Kendriya Vidyalaya Sangathan (KVS) conducted three telescope making workshops involving six regions during August-November 2017 at three different locations. These workshops were organised to train Resource Persons (MRPs) to organise astronomical activities in their respective schools like star gazing, understanding the science of eclipses and observing them, etc.

The workshops were organised for the students of Delhi, Dehradun, Mumbai, Ahmadabad, Bengaluru and Chennai region. Each region had deputed 20 students from 10 selected schools (2 students from each school) to make 10 telescopes. During the course of these 5-day workshops students checked the focal length of their mirrors, cut the optical tubes.
as per calculation of focal length, painted the tubes from inside and outside and fabricated the altazimuth mounts of their telescopes. Lectures along with work assignment were the main features of each workshop. 60 telescopes were developed during these workshops. As a follow-up, on first day of each month the monthly sky calendar is provided to the participants to design astronomical events in their vicinity.
Glimpses of Workshops on Astronomical Telescope Making for Kendriya Vidyalaya, IIT Powai, Mumbai
Glimpses of Workshops on Astronomical Telescope Making for Kendiya Vidyalaya Malleswaram, Bengaluru
3. **VIPNET Orientation Workshops for Tribal School Teachers**

Vigyan Prasar took a special drive for establishment of VIPNET clubs in the schools of tribal area across the country. For year, 2017-18, Vigyan Prasar collaborated with Madhya Pradesh Council of Science & Technology, Bhopal and conducted two VIPNET orientation workshops for the tribal school teachers of Madhya Pradesh.

Nearly 60 teachers from the tribal areas of Madhya Pradesh were present in each of the workshop. The workshops were a special initiative for tribal schools to integrate them with VP's outreach and science club network. Activity kits, books, posters and resource material were also provided to the participants to start the science club in their area. Various experts were invited to train them for hands-on activities on astronomy, physics and mathematics etc.
VIPNET orientation workshops for the tribal school teachers at Mandla, Madhya Pradesh

4. VIPNET Felicitation Programme for Upgraded Clubs

Vigyan Prasar conducted a two-day programme for VIPNET Clubs at National Council of Education Research and Training (NCERT), Delhi on 27 and 28 February 2018. The main objective was to felicitate all the upgraded clubs of VIPNET and discuss various academic issues/subjects. 60 VIPNET clubs across the country participated in the programme.

Two-day programme for VIPNET Clubs at National Council of Education Research and Training (NCERT), Delhi
Glimpses of Two-day programme for VIPNET Clubs at National Council of Education Research and Training (NCERT), Delhi
The two-day programme include Annual Report presentation by clubs, review of clubs activities, discussion on categorisation of clubs and future road map of VIPNET, interactive sessions from faculty of NCERT, visits to various laboratories of NCERT, and felicitation of upgraded clubs.

5. **Astronomy Festival for the state of Madhya Pradesh**

Vigyan Prasar in collaboration with Madhya Pradesh Vigyan Sabha (MPVS), Bhopal, and Regional Science Centre (RSC), Bhopal conducted state-level astronomical festival. Various activities like quiz competitions and subjective theoretical paper on astronomy were organised during the programme.

25 districts of Madhya Pradesh participated in the programme. All the district level winners (Both Junior and Senior) were invited at Regional Science Centre, Bhopal during 27 – 28 December 2017. Vigyan Prasar provided technical support along with the prizes in the form of its publication to all winners.
6. **Total Lunar Eclipse**

For observing the Total Lunar Eclipse on 31 January 2018, Vigyan Prasar organised a special Lunar Eclipse Viewing programme at Technology Bhawan, Department of Science & Technology, New Delhi. Nearly 300 people along with the family members of DST Scientists.

*Glimpses of Lunar Eclipse viewing programme at Technology Bhawan, Department of Science & Technology, New Delhi*
and other staff gathered at the venue for viewing this game of shadow – the Total Lunar Eclipse. The programme started with a talk on total lunar eclipse followed by the observation through telescopes. Three telescopes were installed for the programme at Technology Bhawan. Hon’ble Union Minister for Department of Science and Technology and Earth Sciences & Union Minister for Environment, Forest and Climate Change and Ministry of Environment and Forests, Dr. Harsh Vardhan and Secretary, DST, Prof. Ashutosh Sharma were also present during this Lunar Eclipse Viewing programme.

7. **International Year of Light**

Vigyan Prasar in collaboration with Pondicherry Science Forum prepared a Handbook for the International Year of Light containing light-based experiments and activities for school-level science syllabus.
1. Special Initiatives for Tribal Areas

Vigyan Prasar through its various programmes and activities are making need-based intervention to serve the special agenda for the Schedule Tribes in their respective languages. These initiatives gained momentum since 2013. Programmes like training, workshops, activity camps, and awareness programmes are being organised using film and radio as a medium of communication along with the outreach activities involving children, teachers, and the general population. Some of the programmes to be reported are as follows:

Understanding the Dynamics of Nature through the Hands-on activity for the mobile schools of Jammu & Kashmir, two nature study camps-cum training programme of three days’ duration each were organised for the teachers and students of mobile schools of Kishtwar and Doda districts of Jammu & Kashmir State.

In Kishtwar, the programme was organised during 25-27 September 2017, at Govt. Degree College Kishtwar. The camp was attended by 45 teachers and 75 students. The second programme at Doda district was organised from 28 to 30 September 2017 at Gujjar and Bakerwal Hostel. The camp was attended by 30 teachers and 130 students.

The main objective of these programmes was to enhance the understanding of basic science through hands-on activities by using their immediate surroundings as an open lab and conducting a series of open-ended experiments. During each camp, more than 100 experiments were conducted and more than fifteen equipment/devices were fabricated to perform the experiments. The nature walk was the most exciting component of both the programmes.
Glimpses of workshop on Understanding the Dynamics of Nature through the Hands-on activity for the mobile schools of Jammu & Kashmir
Glimpses of workshop on Understanding the Dynamics of Nature through the Hands-on activity for the mobile schools of Jammu & Kashmir
2. **Nature Camps for Tribal Students and Teachers of Madhya Pradesh**

Two Nature Study Camps for students and teachers of the schools situated in the tribal districts were organised at AICUF Ashram Bhopal from 04 October to 07 October 2017 and 10-13 October 2017. In each workshop, about 80 children and teachers representing thirteen districts of Madhya Pradesh participated. The districts covered were - Ujjain, Barwani, Agar Malwa, Sheopur, Shajapur and Dewas (in first workshop) and Chhatarpur, Panna, Khargone, Satna, Sidhi and Bhopal (in the second workshop). The programmes were organised to create awareness, love and compassion for various life forms and natural phenomena as to understand the relationship of people with nature.
3. Training For Master Resource Persons, Odisha

Two Master Resource Persons’ Training Program for Teachers to Study the Dynamics of Nature through hands-on activities were organised at Bhubaneswar during 16-19 August 2017 and 17-20 January 2018. Each programme was attended by 60 teachers covering 13 districts of Odisha from the Government Secondary Schools and Secondary Schools of SC/
Glimpses of Master Resource Persons’ Training Program for Teachers to Study the Dynamics of Nature through hands-on activities were organised at Bhubaneswar, Odisha
ST Development Department, Government of Odisha. The main objective of these training programmes was to sensitize science teachers on innovative hands-on science activities using low-cost or no-cost material to conduct experiments relating to life and environment in school to relate science with day-to-day life. During the workshops more than 100 experiments/observations were conducted using the low-cost or locally available material. The districts covered were Ganjam, Dhenkanal, Mayurbhanj, Gajpati, Balasaur, Kalahandi, Anugul, Boudh, Hkurada, Bhedrak, Nayagarh, and Bargarh.

4. Master Resource Person Training Programme on Innovative Experiment in Physics

4.1. Himachal Pradesh

During the period under report four workshops were organised to train Master Resource Persons on Innovative Experiment in Physics were organised at DIET- Kinnaur, Bhuri Singh Museum, Chamba, Bachat Bhawan, Keylong and Zila Parishad Hall, Dharamsala, Kangra. Himachal Pradesh Council for Science, Technology and Environment (HIMCOSTE), Shimla and Education Department, Govt of Himachal Pradesh were the local partners in each workshop. In each workshop about 70 science teachers were trained to teach the fundamental principles through hands-on and engagement process, especially in an outside classroom situation. Additional material in the form of activity kits, book and CDs, etc. were also provided to each participant. Each trained teacher was expected perform the same experiment in their class to supplement the formal teaching in an exciting and interactive way. The main objective of these workshops was to create a multi-and interdisciplinary resource based on an innovative
Glimpses of Hands on activities to train Master Resource Persons in different districts of Himachal Pradesh
approach to science learning through engagement in the tribal and far-flung areas of Himachal Pradesh.

As a follow-up, a WhatsApp group has been created for sharing the experiences among the participants. The details of the workshops are:

<table>
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<tr>
<th>Sl. No.</th>
<th>Location</th>
<th>Venue</th>
<th>Dates</th>
<th>No. of participants</th>
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<td>1.</td>
<td>Reckong Peo, District Kinnaur</td>
<td>DIET Reckong Peo, District Kinnaur</td>
<td>27 to 29 March 2017</td>
<td>74</td>
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<td>2.</td>
<td>Chamba</td>
<td>Bhuri Singh Museum, Chamba</td>
<td>19 to 21 April 2017</td>
<td>75</td>
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<td>3.</td>
<td>Keylong, Distt. Lahaul &amp; Spiti</td>
<td>DC Office, Conference Hall, Keylong, Distt. Lahaul &amp; Spiti</td>
<td>24 to 26 June 2017</td>
<td>72</td>
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<td>4.</td>
<td>Dharamshala, District Kangra</td>
<td>Zila Parishad Hall, Dharamshala, District Kangra</td>
<td>4 to 6 September 2017</td>
<td>73</td>
</tr>
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</table>

Participants at Dharamshala, District Kangra
Participants at Reckong Peo, District Kinnaur
4.2. West Bengal

Two Nature Study Camps of five-day duration each were organised at Gopiballavpur-I, Dist. Jhargram in South Bengal during 5-9 March 2018. In the camp around 50 students, including 20 local tribal students, from 20 schools, located in 11 districts in southern part of the State participated. A series of observational activities, hands-on experiments, collection of various rocks and another sample during the nature trail were the exciting components of the programme.

Primary objectives of the camp were to make the children acquainted with Plant, Insect and Bird Identification, Soil and Water Testing, Weather and Climate including Map reading, Household Survey and studies of Water Bodies and Aquatic Fauna. The campers were also briefed on the local environment, geophysical character and a brief history of the local

Participants at Gopiballavpur-I, Dist. Jhargram in South Bengal
community. Telescope handling and sky watching in the evening was one of the most important events and the participants came to know about stars, nebulae and different constellations.

### 4.3. Arunachal Pradesh

Nature orientation workshop-cum-Camp was organised in Daoporiijo, Upper Subansiri District during 7-9 April 2017. The camp was attended by more than 60 students and teachers. The main objective of the programme was to create awareness among the student community about the bio-resources, their utility and conservation through a hands-on approach.

![Participants at Daoporiijo, Upper Subansiri District, Arunachal Pradesh](image)

### 4.4. Rajasthan

A four-day low-cost teaching aids workshop for the teachers working in the tribal area of Rajasthan was organised at Udaipur during from 21 August to 24 August 2017 at SIERT, Udaipur for physics and math teachers. The physics and math teachers posted in tribal districts of Rajasthan were invited for the workshops. The workshop was attended by 50 teachers.

![Participants at Udaipur, Rajasthan](image)
from six districts of Rajasthan, viz., Udaipur, Banswara, Pratapgarh, Rajsamand, Dungarpur, and Sirohi. Additional resource mater in the form of books, kits and CDs were given to each participant. A WhatsApp group of trained teachers of Udaipur workshop has been created for experience sharing.

The second workshop was organised from 24 to 27 February 2018 as part of National Science Day Programme at Kota.
4.5. Bihar and Uttar Pradesh

Four workshops to trained Master Resource Persons two in each state were organised in different districts of Bihar and Uttar Pradesh. The list of tribal teacher working in the state of Uttar Pradesh and Bihar were finalised in consultation with respective education department of the States. In each workshop about 50 to 60 selected teachers participated.

Participants of Bihar performing various activities to understand the dynamics of nature

Participants of Uttar Pradesh performing various activities to understand the dynamics of nature
4.6. Tripura

Seven hands-on workshops of one-day duration each were organised in different districts of Tripura State on astronomy. In the first phase of the programme, Master Resource Persons (MRPs) were trained and in the period under the report, seven workshops were organised in West, North, Unakoti, Dhalai, Khowai, Sipahijala and South districts of Tripura State. Topics covered were included ‘Introduction to astronomy and solar system, Demonstration of celestial events, e.g., Day and night, phases of the Moon, eclipses, Daytime astronomy experiments in the Sun, Introduction to Stellarium Software, and Superstitions related with astronomical events.

Mahila Jatha to Save Girl Child in Gwalior-Chambal Region

Jatha is one of the time-tested approaches for science communication using folk arts like street plays, drama, songs and puppetry. Vigyan Prasar from time to time has used this method in specified areas to take up particular issues relating to science and technology. The advantage of the Jatha approach is to make direct contact with the target audience. The Gwalior-Chambal region of Madhya Pradesh covering five districts is such where males outnumber females. There are many social and economic factors which are responsible for the current state of affair in addition to the myths and superstitions prevalent in the society relating to pregnancy and adolescence. The tribal community, particularly women, are too shy and do not discuss such issues and the problems with lady doctors. To create awareness a women Jatha on the theme “Save the Girl Child” was organised for forty days during November-December 2017.
Glimpses of Mahila Jatha to Save Girl Child in Chambal Region, Gwalior
Before the Jatha, a series of brainstorming meetings and discussions were held involving the universities, social and health workers, doctors, science communicators and others to finalise the issues to be addressed. Based on the problems identified, a ten-day training camp was organised for the Jatha team and the artistes comprising all women. The local artistes and the students of Gwalior University were part of the Jatha team. The resource material in the form of exhibition, booklets, hand-outs, etc. was also developed. In total ten performances in the style of a street play were designed and performed at different locations in eight districts. The theme selected for the plays were gender equality, health and hygiene of pregnant and adolescence girl, nutrition and local recipes, girl education and discrimination.
The performances were held at 40 identified locations before an invited women audience. A few performances were also held in girls’ schools which were followed by an interactive session by the Jatha group. Feedback was also collected from the audience about the issue taken up in the exhibition and performances by the Jatha group.

5. **Bal Melas and Exhibitions**

A series of Bal Vigyan Melas, Exhibitions and public lectures were organised in the tribal residential schools or schools with predominant enrolment from tribal communities along with intensive training programme to provide in-depth and hands-on science to enthuse the high school students to take up science subjects in their higher studies. All these programmes also provided an opportunity to reach out to the tribal community living in nearby areas of the venue of each programme.

Some programmes to be reported are as given below:

A six-day residential intensive training programme was organised during June and July 2017 at Warangal, Andhra Pradesh and Thanjavur, Tamil Nadu. 110 students from the tribal community took part in the programme. Hands-on activities, Lab visits, visit to national scientific Institutes and interaction with eminent scientists were organised. Cultural and ice-breaking sessions were also held to provide soft skills.

Two Regional Level Resource Person training camp of five days’ duration each were organised during July 2017 at Ranchi, Jharkhand and Hyderabad, Telangana. The programme aimed at providing training and also exchanging ideas and experience between for taking up

*Glimpses of Bal Melas and Exhibitions*
programme under the sub-tribal plan. Eighty participants from Bal Melas and other activities in their respective States took part.

100 Bal Vigyan Melas in the States of Jharkhand, Rajasthan, Gujarat, Uttarakhand, Himachal Pradesh, Chhattisgarh, Maharashtra and Orissa are to be organised till the April 2018.

A review meeting of the programme was held on 9 February 2018. A representative from Rajasthan, Tamil Nadu, Maharashtra, Orissa, Telangana, Andhra Pradesh, Jharkhand, and Gujarat participated in the meeting to provide feedback and share their experiences.

6. **Science Film Appreciation Course for Tribal Students**

A three-day Science Film Appreciation course was conducted in association with Department of Journalism and Mass Communication, Indira Gandhi National Tribal University (IGNTU), Amarkantak (MP) from 11 to 13 March 2018 at Amarkantak. The main objective of the course was to introduce the graduate and postgraduate students and research scholars of tribal communities to the art, craft, and language, techniques of science documentary film-making to highlight the socio-cultural significance of science and environment film as a tool to promote scientific temper among the community. Experts from various institutes, agencies universities and renowned science film makers were drawn as faculty to discuss about various aspects of science film making such as the development of idea and concept, planning, research, scripting, camera work, editing, etc. National award-winning science films were screened during the course followed by various technical sessions and discussion.
Vigyan Prasar has since long serviced technical support and information needs of students and amateurs engaged in communication using the Amateur Radio, commonly known as Ham radio. This is based on the fact that ham radio systems are resilient and therefore can be used sustainably even in adverse circumstances, especially when other modes of communication may not be functional. Vigyan Prasar’s ham radio station is activated for emergency communication to assist the ham radio stations operating from the disaster-affected area. In the past major support was also provided during the disaster at Uttarakhand.

During the period under report, to promote the Amateur Radio (Ham Radio) as an alternative mode for community communication, especially during natural disasters, a wide range of activities like training, workshops and demonstrations etc., were organised in coordination with governmental agencies/society/radio clubs/schools regularly. Some major highlights are given below:

1. In continuation to the ham radio workshop conducted at National Institute of Technology Hamirpur, Himachal Pradesh last year to prepare the students to appear for the amateur radio licensing examination, a hands-on workshop was conducted on 7 and 8 April 2017 at NIT Hamirpur, Himachal Pradesh. Demonstration of ham radio antenna installation procedures and different modes of communication used in ham radio were given to students. A “Ham Radio Society” was formed by the NIT Hamirpur students under VP guidance.

Web Ref: https://hamnith.wordpress.com/

NIT Hamirpur, Himachal Pradesh Workshop Ref:

(i) http://www.qsl.net/vu2msy/documentation/HamRadioNITHamirpurWorkshopApril2017.html
(ii) http://www.qsl.net/vu2msy/documentation/HamRadioNIT_Hamirpur_Antenna_InstallationApril2017.html
2. A Session on Ham Radio for Emergency Communication was conducted at Haryana Institute of Public Administration (HIPA), Gurgaon on 9th May 2017 where 50 Civil and Defence Officials were introduced to ham radio by providing preliminary training to them.
3. An Activity Book on "Radio Communication" (authored by Shri Sandeep Baruah, Scientist-E, Vigyan Prasar) for hands-on kit building workshop is brought out by Vigyan Prasar. Detailed instructional materials were prepared to be provided to the students for use during kit-building workshops. The instructional document (which is provided with the electronic kit) is at:

http://www.qsl.net/vu2msy/homebrew/FMToyTransmitterAssemblyInstructions.pdf

4. During the EduSAT Summer Science Festival, a radio transmitter kit-building workshop was conducted at Vigyan Prasar from 14 to 21 June 2017, where students were trained hands-on to assemble a toy radio transmitter. Students were provided with the electronic components and other resources along with the guidebook on radio communication. All the kits assembled by the students were tested and checked for their functionality before allowing to be taken away.

Vigyan Prasar books were provided as gifts to the best performers. EduSATham radio kit-building workshop photos can be seen at:

5. On 10 July 2017, Army officials of the 21 Signal Group visited Vigyan Prasar’s ham radio facility to be acquainted with amateur radio communication system and to explore the possibility of incorporating ham radio in the Armed forces as a second line of communication.

6. A Ham Radio Kit-Building Workshop and Ham Radio Demonstration Programme were organised at Apeejay School Saket on 10 August 2017.
   Ref: http://www.qsl.net/vu2msy/documentation/HamRadioAPEEJAY_SCHOOL_Saket_August2017Workshop.html

7. A Ham Radio Training and kit-building Workshop was conducted at Guru Nanak Dev Engineering College, Ludhiana, Punjab on 28 and 29 September 2017. #VU2MUELudhiana in Facebook search would fetch all the photographs and videos related to this event.
   Social media: https://www.facebook.com/sandeep.baruah/posts/10210322154905340
   Ref: Workshop photos:
   (i) http://www.qsl.net/vu2msy/documentation/HamRadioGNDECLudhianaWorkshopPhotosSeptember2017.html
   https://tinyurl.com/y938cujm
Workshop Video documentation:
Morse Code training Video:
(i) http://www.qsl.net/vu2msy/documentation/
   HamRadioGNDECLudhianaWorkshopSeptember2017MorseCodeTraining.html
(ii) http://www.qsl.net/vu2msy/documentation/
    HamRadioGNDECLudhianaWorkshopSeptember2017MorseCode2.html
HF Long-distance voice communication Demo Video:
8. Rajya Sabha TV’s (RSTV), ‘Science Monitor’ programme, made a telecast on ham radio on 02.09.2017 where Vigyan Prasar’s ham radio activities were highlighted. The English version of the video:
http://www.qsl.net/vu2msy/QSOvideos/HamRadio_SandeepBaruah_VU2MUE_RajyaSabha_TV_Interview/HamRadio_SandeepBaruah_VU2MUE_RajyaSabha_TV_Interview.html

9. Shri Sandeep Baruah, Scientist-E from Vigyan Prasar attended the Annual National Convention (2017) of the ham radio operators as a Guest of Honour which was held at Kolkata on 16 and 17 December 2017. A technical session on digital modes of communication for the emergency operation was conducted which was attended by delegates from all over the country and a few adjoining countries (Nepal, Bangladesh). Vigyan Prasar also participated in the panel discussion held to bring out a roadmap to promote ham radio in India.
Ref: https://tinyurl.com/y89v6j46

Social Media coverage
10. Tata Institute of Social Sciences (TISS), Guwahati off-campus of TISS Mumbai and VP, conducted a workshop on ham radio on 22 and 23 February 2018. Practical long-distance communication demonstrations were given to the students. All the participants took a keen interest to introduce ham radio (Amateur Radio) as a low-cost alternative way of community communication under their course module. Amateur Radio Society of Assam (ARSA) assisted the programme by helping set-up a long distance HF communication system. It was demonstrated how with a low-cost device hams can establish long-distance communication and how it can be effective in the event of an emergency situation. Vigyan Prasar publications on ham radio were gifted to TISS Library for students to self-study.

Ref: Video of practical demonstration:
https://www.facebook.com/sandeep.baruah/videos/10211274253947221/

11. Sessions on Ham Radio Digital Communication was conducted by Shri Sandeep Baruah at East India Ham Meet (EIHM) 2018 held at Puri, Odisha on 17 and 18 March, 2018 where hams from Bihar, West Bengal, Sikkim, Jharkhand, Assam and Odisha including neighbouring country Bangladesh participated.
12. National Institute of Disaster Management (NIDM), Ministry of Home Affairs on 21 March 2018 conducted a training session on ham radio where IAS, IPS and officials of Director General rank from Doordarshan were the participants. The technical inputs were provided by VP. Signal-to-Noise Ratio was were explained during the interactive session.

Ref: https://www.facebook.com/sandeep.burah/posts/10211376293098136

Interaction with IAS and IPS officials from different states of India at NIDM, Ministry of Home Affairs detailing Radio Based Approach for Disaster Risk Reduction & Management using Automatic Packet Reporting System (APRS®-a US Naval Academy Ham Radio Technology) and implementation of ham radio digital communication system at Emergency Operation Centres (EOCs)

Ham Radio Workshop for IAS and IPS officials at National Institute of Disaster Management (NiDM), New Delhi
1. **Science and Technology Communication Programme for Rural and Tribal Women in India**

Vigyan Prasar is engaged with the S&T intervention for tribal women in the country under the aegis of Gender and Technology Communication. VP collaborated with State based organisations and State S&T Councils in reaching out to the target groups in different parts of the country in organising need-based programmes on crucial issues of rural and tribal women. During the period under the report, VP organized the following programmes to address the issues of drudgery reduction, health and hygiene, food and nutrition:

2. **Development of Knowledge Products on Women-Friendly Farm Tools and Equipment for Agriculture**

In India, women play significant role in agriculture. They perform various field operations like sowing, transplanting, weeding, harvesting, threshing, cleaning, grading, drying, parboiling, milling, grinding, decortication and storage. The traditional tools that are used involve a lot of drudgery. Now there is an awakening to bring a change in the life of farm women, and improved women-friendly farm tools and equipment have been developed to get more output and also reduce their drudgery. These needs to be communicated with S&T inputs and reach of the women farm workers for their benefits.

Vigyan Prasar developed the following knowledge products:

1. A video compendium of 37 women improved tools and equipment for farm workers.
2. Short films in English and Hindi on agricultural tools and equipments for women farm workers
Demonstration and awareness programmes on women-friendly agricultural tools and equipment were organised in tribal areas of Arunachal Pradesh during November and March 2017. The objectives of the programme were to create awareness on tools and equipment for various agricultural operations and to explain the importance and benefits of available tools and equipment in terms of safety, drudgery reduction. The programmes were conducted jointly with North-Eastern Regional Institute of Science & Technology (NERIST), Arunachal Pradesh in three different locations in Arunachal Pradesh, namely in two villages of Papum Pare and Ziro district. 190 women farmers participated in the demonstration-cum-awareness programmes.

Several farm machineries such as package of paddy cultivation (transplanter, drum seeder, vertical conveyor reaper, improved sickle, pedal threshers, weeders), orange harvesters, safety gadgets for dao, maize sheller, etc., were displayed and their features were explained to the farmers. A few tools like maize-sheller and improved sickle were distributed to all the participants to have first-hand experience of the benefits of improved tools and technology. Short videos of tools were also developed.

3. **Training Workshops on Women Friendly Tools & Equipment in Odisha**

Training programmes were conducted at Krishi Vigyan Kendra in Gajapati and Mayurbhanj district of Odisha in the month of January and February 2018 where 100 women agriculture workers were trained. During the programme, demonstration of tools like three-row rice transplanted, pedal-operated paddy thresher with safety cover, improved sickle,
Training Programmes on Women Friendly Tools in Gajapati and Mayurbhanj, Odisha

manual winnower, coconut de-husker, Sunflower thresher, groundnut decorticator, mahua decorticator, pre-germinated paddy seeder, battery operated sprayer with safety kit, etc., was conducted. The video compendium of women-friendly tools developed by Vigyan Prasar was demonstrated and the posters were displayed during the programme.

A booklet on 20 locally used tools and equipment used by women farmers in Odia language has been developed and distributed to the participants. During the workshop, small tools like sickle, maize sheller and vegetable plucker were given to each participant. Pedal-operated paddy threshers with safety cover were given to three villages of participating women workers for mass demonstration and use.

4. Workshops on Health, Hygiene and Sanitation for women in Assam

Vigyan Prasar organised three workshops on the Health, Hygiene and Sanitation for women of Manas in Assam for tribal women of Baksa and Kokrajhar districts of Assam in October 2017. 150 women participated in the workshops and VP’s communication materials in forms of posters, films and booklets were used in the awareness workshops. The women interacted with the Experts on issues of Health and Hygiene and Sanitation.

Health, Hygiene and Sanitation for tribal women Manas
5. **S&T Communication on Drudgery Reduction and Health & Nutrition for Tribal Women in Tamilnadu**

Vigyan Prasar carried out a programme to communicate science and technology on tribal women’s health and hygiene, identifying the challenges in their food habits and reducing their drudgery. During the period the following resource materials were designed and developed which will be used in Training workshops to be taken up in May – June 2018: i) Booklet, ii) Posters, iii) Short videos on tools and equipment locally available there, iv) Content for Community Radio in Tamil.

The reduction in the drudgery were assessed thorough sample survey collected personally from each woman who had been already sensitised and 300 women were trained in the workshops. The knowledge gap and increase of knowledge were assessed before and after each workshop.

Training workshops for women are being planned and would be conducted in the next phase.

6. **S&T Communication on Drudgery Reduction and Health, Nutrition for Tribal Women in West Bengal & Jharkhand**

The programme was conceived to reach the tribal women of selected districts of West Bengal and Jharkhand through various ICT tools to help them adopt the drudgery reduction strategy. The main objective of the programme was to educate tribal women about various drudgery reduction strategies and to enable them to use the ICT as advocacy and information sharing tools. The programme was carried out during August 2017 and is continuing. During the period from August 2017 till March 2018, the consolidation of existing material on the subject related to Health, Nutrition and Drudgery Reduction was carried out. Documentation of indigenous food habits, nutrition required for tribal women especially in West Bengal and
Jharkhand have been prepared and video clips have been developed. The online repository of various materials developed by various States, NGOs, and agencies like UNICEF and bilateral agencies like DFID is being developed along with materials developed by Vigyan Prasar.

Workshops on drudgery reduction and food and nutrition are being planned in three districts namely, Purulia, Bankura and Jhargram in West Bengal and three districts in Jharkhand, viz., West and East Singhbhum in Ranchi are being planned and would be completed in next few months.

7. Programme on Women Friendly Agricultural Tools and Equipment in Arunachal Pradesh

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8. Science and Technology Communication for Entrepreneurship Development among the Tribal Women of Arunachal Pradesh and Assam

The women of ethnic tribal groups of North-Eastern region of India in general and in Arunachal Pradesh and Assam in particular, have profound traditional knowledge and experiences. Such knowledge, skill and experiences of these sections of women can be properly tapped for developing entrepreneurial venture with appropriate use of science and technology and can help in empowering them. In this context a programme has been developed to focus on augmentation of traditional knowledge of tribal women through appropriate adaptation of scientific approaches and technological application to produce value added products and develop entrepreneurial skill among them. The objective is to create awareness among the tribal women on entrepreneurship and application of science and technology in entrepreneurial venture.

Two Consultative meetings on Science and Technology Communication for Entrepreneurship Development among the tribal women of Arunachal Pradesh and Assam was held in July 2017 in Guwahati, Assam and in Itanagar, Arunachal Pradesh in March 2018. The meetings were attended by experts of various departments/organisations invited from Arunachal Pradesh and Assam. The action and work plan were discussed during the meeting and a framework has been prepared.

9. Development of Communication Resources on Gender-Responsive Applications of Science and Technology for Home Garden for tribal women of Jharkhand

The project on development of communication resources on gender-responsive applications of science and technology for home garden is in progress since 2016. The objective is to diagnose, develop need based preventive and remediation strategies and use them in a timely manner, access appropriate information on emerging protocols and communicate to
gain and share deeper insights with the people engaged in similar tasks. Multiple strategies to address the issue of food production and food security and feasible approaches hinges on the existing social, political, and economic conditions and resources available are being developed to design and implement the intervention. The project is being carried out in Jharkhand during the period under report. The communication resources have been developed based on the Expert Group inputs and in collaboration with Birsa Agricultural University, Ranchi. The Expert Group consisted of Home Scientists, Agriculture Scientists, Nutrition Experts, Public Health Experts, Social Scientists engaged with institutions and university and also representatives from NGOs working in this area. The communication resources designed and developed are:

1. Compendium on nutrient-rich vegetables for household-level food and nutrition security
2. Calendar promoting the consumption of appropriate vegetables at different times of the year tied to what crops are available from the home gardens
3. Recipe books: From each location 30 improved nutrition recipes based on traditional dishes have been compiled into a book in English. The book has been distributed as a part of training materials.
4. Video clips to help communicate processing of fruit and vegetables.
5. Multimedia CD on management of home garden, dynamic content on household level food and nutrition security and safety status, including supportive elements like safe water, hygiene, new technologies, and agricultural practices have been developed and disseminated in appropriate language and forms.

The need to popularise locally adaptable practices for real life gains through demonstration and awareness programme and training programmes through networks of institutions, and community of practitioners was highlighted.

The progress of the project was reviewed by the Project Advisory Committee (PAC) of Department of Science and Technology in November 2017. The PAC was satisfied with the progress of the project and suggested to have field trial in one of the districts in Jharkhand.
A series of Activity kits to as additional material for various training and outreach activities is an ongoing programme of Vigyan Prasar. During the past decade, more than 10 thematic activity kits have been developed. The same are being revised, updated and replicated time to time. Demonstrations of these activity kits are being organised throughout the country. Hundreds of students, teachers and common man are being benefitted through these interventions. Vigyan Prasar during the period under report, developed/replicated and delivered as follow:

i) Development of low-cost science experiments/demonstrations

Vigyan Prasar in association with PDPM-Indian Institute of Information Technology Design & Management, Jabalpur (MP) has developed 100 physics experiments/demos on physics to strengthen the activity-based science learning in tribal schools. The process for packaging of these experiments is in progress.

ii) Replication of Activity Kits

Eight kits of Vigyan Prasar (Four in each Hindi & English languages) were replicated and used for various trainings and workshops organised under Tribal Sub Plan.
iii) Demonstration on Robotics Kit

A prototype kit on robotics was developed. A field experiment of this activity kit is going on. The Kits are being demonstrated using EduSat network and other similar platforms. With this activity-kit, children could get insight about the basics of robotics by assembling seven types of robots to perform different operations.
Vigyan Prasar EduSAT SIT (Satellite Interactive Terminals) Network organised several interactional programmes across the country through its 50 Satellite Interactive Terminal classrooms across India. It has helped reach out to far-flung segments of students and teachers, and citizens from many walks of life including working women in particular over the years. The related outputs of the current report period too have seen sustained efforts and with significant thematic focus across the year. A few of the activities are:

1. **Meet the scientist programme in collaboration of NCSTC**
   I. Lecture by Prof. Shashibala Singh, Distinguished Scientist on 6 April 2017.
   II. Lecture by Prof. B. Meena Kumari, Chairperson, National Biodiversity Authority, India on 7 April 2017.

*Glimpses of lecture series Meet the Scientist*
III. Lecture by Dr Nand Kumar, Department of Psychiatry AIIMS, New Delhi on Mental Health, on 3 November 2017.

IV. Lecture by Prof Ehtesham Hasnain, Vice Chancellor, Jamia Hamdard University, New Delhi, on Genetic engineering.

2. **Special programme in collaboration with the British Council**

Three lectures were organised in collaboration with British Council.

i. Prof. Touri King, an Anglo-Canadian geneticist at the University of Cambridge delivered a lecture on genetic engineering. Title of her talk was “What’s in a Name?”

ii. Prof. Poul Walton, Professor of Chemistry at the University of York delivered a lecture on Bio fuels.

iii. Prof Sue Nelson, an award-winning British journalist and broadcaster, talked about “Going Back to the Moon - A Journalist’s Perspective”.

3. **Popular science lecture**

Three popular science lectures on different topics, i.e., DNA Fingerprinting, Career Guidance in Biological Sciences, and Thyroids. Four Hundred students participated in this programme.
4. **Hands-on training programme for teachers/students**
   One programme was organized on origami and 100 children participated in the programme.

5. **Documentary/Science Movie Show with a discussion**
   Popular Science Video Films through EduSAT network were multicast on every Monday during 12.00 to 2.00 PM in Tamil, Marathi, Malayalam, English and Telugu.

6. **Science Festival**
   Science Festival for students of age group 10-15 year was organised during 24 May to 5 June 2017. More than 2,000 children participated in the programme. For the programme, Resource books along with a kit titled Radio Communication, Introduction to Medical Equipment and Disaster Management (English and Hindi) were developed.

7. **Meetings/Review/Orientation Programme**
   1. Two meeting were organised by IGNOU regarding the network and HUB
   2. Four meetings were organized with SIT coordinator and technical person through the network
3. Review/Orientation programme of EduSAT Coordinator and Technical person were conducted at Chennai during 6-8 March 2018. Training was imparted by engineers from DECU.

8. Outreach programmes

1. Science Festivals
   a. Science festival at Delhi Public Library Sarojini Nagar, 24 May to 04 June 2017.
   c. Science festival at Delhi Public Library R K Puram 06 to 12 June 2017.
   d. Science festival at Dr. MAN Education Centre, Jajmau Kanpur during 28-29 November 2017.

2. Faculty Development Programme
   a. Faculty development programme at D.A.V. Centenary College from 27 August to 1 September 2017
   b. Faculty development programme at YMCA University during 31 November to 2 December 2017.

3. Training Programmes
   c. B.El.Ed Students training programme at Lady Sriram College, Delhi University during 15-16 Feb 2018
   d. B.El.Ed Students training programme at Gargi College, Delhi University during 20 March 2018
PUBLIC OUTREACH THROUGH EXHIBITIONS & MELAS

Science exhibitions, book fairs and melas are the occasion to provide an opportunity to interact directly with the citizens of the country.

1. **DST Pavilion at the Pride of India Expo during the 105th Indian Science Congress (16-20 March 2018) at Imphal**

Vigyan Prasar coordinated DST pavilion at “Pride of India expo” during the 105th Indian Science Congress (16-20 March 2018) at Imphal. Apart from delegates attending the congress, students and residents of the town thronged it in large numbers to get a glimpse of the achievements of scientific institutions and departments. The Department of Science and Technology (DST) won the “Most innovative Pavilion Award”. The pavilion showcased the Department’s efforts to create and foster India’s strengths in science and technology. It also displayed research and development initiatives realised through its various autonomous institutions such as Technology Information, Forecasting and Assessment Council (TIFAC), Indian Institute of Geomagnetism (IIG), National Innovation Foundation,
North East Centre for Technology Application and Reach (NECTAR), Vigyan Prasar (VP), National Atlas & Thematic Mapping Organisation (NAMTO), Science & Engineering Research Board (SERB). The expo was a hub of new ideas, innovations, and products encompassing the entire canvas of scientific world: education, defense, space, life sciences, healthcare, agriculture, food processing, energy, environment, infrastructure, automobiles, ICT. The pavilion was inaugurated by Dr. Harsh Vardhan, Hon’ble Union Minister S&T, ES& EFCC. Some of the dignitaries who visited the pavilion included, Secretary DST and Sh T. Radheshyam, Hon’ble Minister (education, labour, and employment); Manipur Govt. beside a large number of school children, students and researchers.

2. Participation of Vigyan Prasar during the 21st National Science Exhibition, Kolkata

Vigyan Prasar participated and coordinated DST pavilion along with Survey of India, NATMO and others institutes/organisations of DST, from 24-27 August 2017 at Agradut Krirangan, New Barrackpore, Kolkata. The exhibition was visited by a large number of students. VP’s publications were showcased at the exhibition.

3. DST pavilion at 37th India International Trade Fair 2017

Vigyan Prasar participated in the exhibition during 37th India International Trade Fair 2017 and coordinated DST pavilion. The DST pavilion showcased the department’s efforts to create and foster India’s strengths in science and technology. It also displayed research and
development initiatives realised through its various autonomous institutions. A large number of visitors visited the pavilion and gathered information and also purchased various products of National Innovation Foundation and other participating institutions.

4. Participation during India International Science Festival 2017

Vigyan Prasar coordinated the VP and NCSTC pavilions during the India International Science Fair held at Anna University, Chennai from 13-16 October 2017. A hands-on activity
corner on explaining science behind miracles, fun-with-science, hydroponics, origami, low-cost teaching aids, etc., was organised. The publications and other materials of VP and NCSTC were also showcased in the pavilion.

5. **Exhibition at parliament complex during Monsoon Session 2017**

Vigyan Prasar organised and coordinated an exhibition (24 July-11 August 2017) on scientific achievements of DST in the Parliament Complex during monsoon session of the Parliament. Books, CDs and other materials of VP were also showcased. Various dignitaries including Hon’ble Members of Parliament visited the exhibition and appreciated the achievements of DST.

![Glimpses of exhibition at parliament complex during Monsoon Session 2017](image)

6. **Exhibition at the residence of the Hon’ble Minister of Science & Technology and Earth Sciences**

A month-long exhibition was set up by Vigyan Prasar showcasing the programmes and achievements of DST along with another department under Ministry of Science & Technology and Ministry of Environment, Forest & Climate Change. The exhibition reflected the initiatives
and innovations of DST and its autonomous institutes which are of societal importance. Innovations from National Innovation Foundation (an autonomous Institute of DST) such as Modified boiler and condensate heat recovery system, Bamboo splint-making machine, Manual waste lifting and dumping cart, Multipurpose food processing machine, Natural water cooler, Cow dung pot and log making machine, and Mosquito destroyer were displayed. Technologies developed through DST SEED division core-groups were also exhibited which included Surya Jyoti (Micro solar dome), Jal TARA filter, Sanitary Napkin Incinerator, Cost-effective solar water and space heating system for mountain area, Waste-to-weave green technologies, and Head harness. Flagship programmes of DST, viz., INSPIRE-MANAK award, Knowledge Involvement in Research Advancement through Nurturing (KIRAN), and Technological Interventions for Disabled & Elderly (TIDE) were also showcased. The exhibition was visited by many dignitaries from parliament, media including school children and local authorities.
A. National Science Teachers Workshop- India International Science Festival (IISF 2017)

Vigyan Prasar was part of India International Science Festival (IISF) 2017 organised by the Ministry of Earth Sciences, Ministry of Science & Technology, National Institute of Ocean Technology, and Vijnana Bharati. One of the unique events of the festival was “National Science Teachers Workshop” which was organised from 14 to 15 October 2017 at Vivekananda Auditorium, Anna University, Chennai.

Vigyan Prasar was given the responsibility of coordination of this maiden initiative of IISF to bring hundreds of innovative, dedicated, passionate and award-winning teachers on a single platform to share their experiences and put forth the future roadmap for the country. The programme was inaugurated by Hon’ble Union Minister for Department of Science and Technology and Earth Sciences & Union Minister for Environment, Forest and Climate Change and Ministry of Environment and Forests, Dr Harsh Vardhan. A total of about 350 teachers, practitioners, policymakers attended the programme. Out of these, 56 were from North-Eastern states, and the rest from other parts of the country.
Panel discussions, plenary talks and demonstrations of physics, chemistry, maths & biology experiments were part of this two days programme.

B. Training of science communicators

Vigyan Prasar and IISER Thiruvananthapuram have conducted a workshop on Science Writing during the Month of September 2017. A similar workshop was also conducted by VP and IISER Pune in the Month of October 2017. Students from institutions of higher learning were involved and techniques of science writing, editing and layout, etc., were shared with them by the experts.
Indian Science News Association, Kolkata and Vigyan Prasar organised a three-month long training programme on Science Communication and Media Practice 2017. The course was conducted from 9 June 2017 to 19 September 2017. After an entrance test, 26 students were admitted. As part of the training programme five workshops, eight field visits and four ‘Meet the scientists’ programmes were organised in addition to classroom lectures.

C. **Series of National Workshops on Science Film-making**

VP organised a series of four capacity-building workshops on science film-making at Hyderabad, Madurai, Jaipur, and Papum Pare (Arunachal Pradesh). 220 participants were trained in the grammar and techniques of science film-making, conceptualisation, production and post-production techniques, and selection of relevant themes to communicate through films. New ideas for film making based on science, technology, environment and health issues and low-cost production techniques for science films were introduced to the participants. Renowned film makers and national awardees were invited as resource persons for these workshops. Technical sessions were designed to give an understanding of various stages of science film-making. Five to eight experimental short films on science and environment were produced by the participants in each workshop. Some specific details of each workshop are given below:

1. Workshop at Hyderabad, Telangana State was organised at the National Institute of Rural Development and Panchayati Raj, Hyderabad from 16 to 18 November 2017. Fifty-four students of development communication studies from Afghanistan, Iraq, Zambia, Myanmar, Sudan, Iran and 10 Indian states participated in the workshop.
2. Workshop at Madurai, Tamil Nadu was organised at Lady Doak College, Madurai from 14 to 16 December 2017. Fifty-six participants from the southern states of India participated in the workshop.

3. Workshop at Jaipur, Rajasthan was organised at IIS University, Jaipur from 29 to 31 January 2017. Sixty participants from central and western parts of India participated in the workshop.
4. Workshop at Doimukh, Papum Pare, Arunachal Pradesh organised at Rajiv Gandhi University, Papum Pare from 27 to 29 March 2017. Fifty participants from the North-East states of India participated in the workshop.
D. Cinema in the classroom - Joyful learning of science through films: Workshop for teachers on ICT-enabled teaching learning designs

Empowering teachers with the skill of using technology in the classroom for engagement and to engage the learners creatively is the need of the hour. Millennial kids are digital natives. They are immersed in a technology-mediated environment. Deploying this technology in the classroom to make their learning experience more enjoyable is a challenge that the teacher has to take up and adapt himself/herself to the new pedagogy of technology-enabled learning. With the stated objectives, Vigyan Prasar in collaboration with Bichitra Pathshala addressed this issue through five workshops held in five districts of West Bengal.

In these workshops, the teachers learnt to develop learning designs using clippings of films from the Vigyan Prasar archive. Workshops were conducted in three phases as follows:

Phase 1: 5 workshops in 5 districts of West Bengal

1. Krishnath College School, Baharampur, Distt. Murshidabad, West Bengal, 13-14 December 2017. Twenty-four teachers from the host and other nearby schools attended the workshop.
2. Block Office in Bagmundhi, Distt. Purulia, West Bengal, 15-16 December 2017. Thirty-Seven teachers participated in the workshop.

4. Department of Education, University of Bankura, West Bengal, 30-31 January 2018, The training workshop was attended by 35 teachers from various government affiliated schools.

As per the feedback, the workshops provided a rich and rewarding experience for all the participants. The two-hour session with children, which was part of all workshops, was invariably rated as the best session of the workshop. The resource persons for the workshops were drawn from the community of media and visual communication, filmmakers, photographer, cartoonists and designers.

As a part of the six-month long programme, “Cinema in the Classroom”, a competition of teaching-learning designs using film clippings presented by teachers who had participated in the workshops was organised on 25 March 2018.

E. Seminars and conferences

a. National Conference on ICT in Education

Vigyan Prasar has supported the National Conference on ICT in Education- Perspectives, Practices and Possibilities which was organised during 11 and 12 May 2017 at University of...
Mysore, Mysuru. The primary objective of the conference was to sensitise delegates in adopting ICT as a tool for enhancing the quality of school education. Nearly 500 representatives from 14 states of the country participated in this unique event and deliberated upon the use of ICT and the future direction for the usage of ICT in the education sector.

b. Seminar on the Internet in collaboration with Russian Centre of Science & Culture, New Delhi

Vigyan Prasar in collaboration with Russian Center for Science & Culture (RCSC), New Delhi organised a seminar on theme “Modern Russian and Indian Developments in the Sphere of Information Technology” on 28 September 2017 at RCSC, New Delhi. In the technical session some of the perspectives presented by the Indian and Russian experts were History of the development of the internet, Russian achievements in the internet, Digital India and internet, Digital financial service and internet, Bridging the gap between ICT and masses: Digital equality, Big data analysis and IT, Digital signal processing and its applications, Indian achievements and innovations in robotics.

Some important speakers at the seminar were:

Mr Alexey Shaposhnikov Head of Science and Technology Section, RCSC, Mr Bhavani Prasad Yerrapalli, Research Director, Media Lab Asia, Ministry of Electronics and Information Technology, Government of India, Mr Osama Manzar, Director, Digital Empowerment Foundation, and Mr Amitabh Singhal, Governing Council Member – Digital Employment Foundation, and Director, Telxess Consulting Services Pvt, Ltd

c. Participation in the India International Science Fair (IISF) IISF, Chennai

Vigyan Prasar participated in the Panel discussion at the national level session for Science Teachers in the Third India International Science Fair (IISF) at Chennai during October 2017 and deliberated on Teacher Training and Learning Strategies in Science and Technology
Education. In the session there were more than 500 science teachers from all over the country who interacted with the experts, and the activity kits of Vigyan Prasar were demonstrated to the participants.

d. Indialics Conference 2017

Sustainable development is a key focus area for the majority of the research interventions in both Global North and the Global South. The seventeen sustainable development goals (SDGs) today define the central research and policy approaches worldwide. South Asia including India is no exception. How does proper communication of science, technology, and innovation contribute towards sustainable development? This was the foremost query being addressed during the panel discussion on “Communicating Science Technology and Innovation for Sustainable Development”, organised by Vigyan Prasar in the Fourth Indialics International Conference jointly with Centre for Studies in Science Policy, Jawaharlal Nehru University (JNU); Research and Information System for Developing Countries (RIS); and CSIR-NISTADS.

During the session, several significant issues were raised on communicating science, technology and innovation for sustainable development.

e. Agriculture Mission -2022

Vigyan Prasar participated in the convention on “Agriculture Mission-2022” doubling Income of Farmers” in February 2018, organised by Ministry of Agriculture at NASC Complex, New Delhi. In the thematic Group - 6 on ‘Capital Investments and Institutional Credit for Farmers’, Vigyan Prasar participated in the group discussion and presented ideas on doubling of income of women farmers by adopting technologies. The suggestions proposed by VP on adopting of rural technologies by women farmers were included in the recommendations prepared in the convention
Science Activities in Melas

The traditional fairs organised on the basis of historical events are the places of the congregation of large people. Such opportunities are being utilised by Vigyan Prasar since its inception by putting up some activity corner-cum thematic exhibition. This year Vigyan Prasar set up a stall comprising about 20 activity corners in collaboration with some local agencies at the Gwalior Mela (January-February 2018) and Magh Mela (Feb-March2018) at Allahabad.
Glimpses of print media coverage on activity corner of Vigyan Prasar at Gwalior Mela, Gwalior
Glimpses of activity corner of Vigyan Prasar in Magh Mela at Allahabad
On an average, about ten to twenty thousand people visited the stalls every day. For children, various competitions were also organised every day, and they were given prizes in the form of VP publication and activity kits. The most attractive and informative components of this stall were the exhibitions on theme “Indian Science and Scientists”, “India in Space”, and “Method of Science. The invited experts also delivered lectures on various topics.

**Science Fusion: Activity-Based Programme for Children**

Week-long science activity based summer workshop, Science Fusion-2017, was organised for children during 15-22 May 2017, at Vigyan Prasar, A-50, Sector 62, Noida (UP). Several science and technology-based hands-on activities on were organised for enabling children to understand science by an engagement process. The objectives of the programme were i) to sensitise children about activity-based science learning; ii) to induce an interdisciplinary, integrated approach to science learning through experimentation; and iii) to inculcate scientific temper among children through hands-on activities.
National Camp of Vidyarthi Vigyan Manthan 2016-17 was conducted on 27 and 28 May 2017 at Indian Institute of Technology Delhi. 264 students, i.e., two top-rankers from each State Level Camp were selected to participate in National Camp. Out of 264 selected students, only 250 registered for participation in the programme.

These 250 participants were evaluated by experienced Academic Committee Members and Evaluation Team through a unique and well-designed evaluation method. Themes for each class were divided into four main groups i) Group A: Indian contribution to Science; ii) Group B: Scientific Understanding; iii) Group C: Innovation and Creativity; and iv) Group D: Out of Box. After the two days of a rigorous process of evaluation, 18 ‘Himalayans’ (National winners) were announced. Now these 18 Himalayans (National winners) are being mentored by renowned and eminent scientists to prepare them for a bright future and a career in science.

**Vidyarthi Vigyan Manthan 2017-18**

Vigyan Prasar in association with the National Council of Education Research and Training (NCERT) of Ministry of Human Resources and Development and Vijnana Bharati (VIBHA) conducted India’s Largest Talent Search Examination VVM 2017-18 using only digital devices, focussed on school going children from class VI to XI from across the country.

The primary objective of the programme is to educate the students about India’s legacy and immense contribution in the realm of Science & Technology. Nearly 91,000 students had registered for this novel exam which was conducted through more than 2,287 centres across
the country. It was perhaps the biggest such initiative where students took the exam on mobile phones, laptops, tablets and desktop computers. After completing the examination at the school level, top 20 rankers per class have gone through State level examination camp. A total 276 State level winners were selected for the National Camp through 23 camps (2 per class per state) across the country. The national camp will be organised in Bhabha Atomic Research Centre, Mumbai on 12 and 13 May 2018.
1. Vigyan Prasar Website (www.vigyanprasar.gov.in)

Science & Technology becomes useful to society through its effective communication. Uptake of the scientific research and technological innovations can take place only when the public understand its utility, relevance and significance and are excited about the progress in the field. In order to ensure excitement of science among the public, Vigyan Prasar has multiple programmes to disseminate science through various media including Vigyan Prasar website. During the period under report, the website of Vigyan Prasar was designed as per GIGW guidelines. The website highlights different programmes and activities of the organisation and provides all communication resources and other software of VP on the website.

The website has the digital library covering all the publications of VP which are available for free download. Publications and other communication resources can also be purchased on-line.
2. Science and Technology Digital Communication & Social Media Activities

Vigyan Prasar has developed the digital media communication strategy for Department of Science and Technology and has implemented activities according to that strategy. The activities include development of content for DST website, handling the social media networking of DST and events and media coverage. During the period VP has written, edited and developed content in form of news items, reports, and features on science and technology
for the website and also maintained the website in terms of technical backup and regular uploading. As a result, the website has received considerable visibility.

The social media activities have been expanded through Twitter, Facebook, Blogs and YouTube. The outreach through social media has gained momentum and projected the department’s dynamism in the public domain.

2.1 Write ups, News and Features produced on several subject areas

Write ups, News & features, and blogs have been developed on subject areas like Indo-Russian R&D cooperation for start-ups; NIDHI as an umbrella programme for nurturing ideas and innovations; Pt. Deen Dayal Upadhyay Vigyan Gram Sankul Pariyojana; Stakeholders’ Consultation Meeting on STI in agriculture; Schemes for Young Scientists; Women Entrepreneur Quest (WEQ) 2017 Award; S&T budget; IUSSTF Foundation Day; International Conference on Sustainable Biofuels; 105th Indian Science Congress; LIGO Project; KIRAN-IPR Programme; and success stories of the Department of Science & Technology.

2.2 Social Media Outreach

Social media coverage through Twitter, Facebook and YouTube has been carried out for major events of DST like DST Conclave; IISF; Indian Science Congress; National Science Day; major achievements of DST; press conferences, seminars & workshops; events involving the Hon’ble Minister, Secretary and other DST officials. Apart from this, events organised by the autonomous institutes of DST and other Ministries have also been given wide coverage through social media.

In this period the followers of Twitter and Facebook has gone up substantially.

1. Twitter : 27,000 followers
2. Facebook: : 26,000 followers
3. Blogs : 10 write-ups
4. Info-graphics : 30 info-graphics
5. Sliders : 25 sliders

3. Special Communication Drive of Ministry of Science & Technology on National Science Day, 28 February 2018

3.1 Following efforts were made to mark the day

1. A comprehensive advertisement highlighting major achievements, published in all major newspapers of India in Hindi and English.

2. A one-minute promo made for the Ministry of Science & Technology and Earth Sciences to give an overview of the expansion of the work of the departments of the Ministry (DST, DBT, DSIR/CSIR and MoES) and the benefits to the people.
3. The promo showcased the following:
   • Success stories and achievements of the different departments under the Ministry
   • Research and technologies brought out by the different departments
   • How the research and technologies have reached the common people
   • How the technologies have benefitted the people
4. The promo was telecast on 28 February 2018 and 1 March 2018 on DD News, Rajya Sabha TV and NDTV (Hindi)
5. Social media coverage of the event through Twitter and Facebook
6. Shorts stories as blogs on selected achievements
4. **Celebration Yoga - A Mobile App ‘Connecting People with Health and Life’**

Healthy life of citizens improves productivity and economy of the country as a whole. Practising yoga is a means of maintaining a healthy society in harmony with nature.

The Government of India is promoting practice of yoga to nurture a healthy, happy, lively and productive population that benefits society. Celebrating Yoga, a mobile app has been developed that helps further the promotion of scientific practice of Yoga. This initiative has been taken up to popularise healthy living through yoga and is aligned with India’s Swasth Bharat Mission.

The App brings on finger tips different traditions and lineages of yoga, methods of practicing yoga, pranayam and meditation, details of yoga that help manage different kinds of diseases, especially lifestyle diseases, yoga for general wellness and also for different target groups and the Common Yoga Protocol by the Ministry of Ayush.

5. **Biotechnology Communication through Social and Digital Media**

Vigyan Prasar has developed a robust strategy for biotechnology communication to make biotech research exciting and understandable for the common public and to create an interest in the subject among students. The programme is being implemented by a team in close co-ordination with Department of Biotechnology (DBT). It is using digital and social media as fulcrum to communicate the activities and achievements of the department.

During the year under report, communication materials, knowledge products, News, features, articles on scientific issues on DBT-supported research and other activities were developed. Articles were developed from reports and research papers published by the...
autonomous institutes of DBT and from other sources highlighting the latest R&D in the field of Biotechnology. The same were disseminated on the website and social media like Facebook and Twitter in addition to print (magazines and newspapers) and audiovisual medium like Doordarshan and Rajya Sabha television. Exhibitions on important days/events like Science Congress, IISF, World Environment Day, etc., have been used to project and highlight some of the relevant achievements of DBT. An exhibition was also put up at Parliament House to communicate DBT research, its impact and achievements through posters and other knowledge products.

5.1 Articles, News and Features produced on several topics

Some of the articles that have been developed on International Conference on Sustainable Bio-fuels, Overseas Associate-ship Programme Conclave on Ramalingaswami Fellowship Nobel Laureates Seminar at Rashtrapati Bhawan, Novel Biotech innovations contributing for the Make in India initiative, WHO granting Pre-qualification to DBT-funded rotavirus vaccine, ROTAVAC®, novel technologies for ‘Make in India’, Remarkable leap in biotechnology based developments in North-Eastern States of India, Palk Bay coast diversity study that identified coral, sponge and other marine species, Public-Private Cooperation for Clean Energy Innovation, Mission Innovation, International Vaccine Conference.

5.2 Media coverage in high-impact newspapers and TV channels

Additionally, media coverage was organised of events like ‘Provocative questions workshop’ on cancer, launch of cancer institute, BIRAC foundation day, and international collaborations, the BIO international conference. Press releases were prepared and sent to the media. Several news articles and news capsules of these events and stories have already appeared in the national and international media like Nature India portal, scidev.net, Hindustan Times, Telegraph, Deccan Herald, All India Radio, and DD National.
1. The India Science, Technology and Innovation (ISTI) Portal

In order to harness the current popularity of the digital media in ensuring rapid, easy and ready access to information, Department of Science & Technology has initiated development of a comprehensive Web Portal on Indian Science, Technology and Innovation. This portal would provide a single window projection of Indian Science and Technology (S&T) to facilitate a visitor to this portal to get first-hand information about anything and everything on S&T in India.
The portal will prominently reflect state-of-the-art research and development (R&D) in various sectors of S&T, the institutional framework, knowledge networks and scientists involved in the respective sector/subject. It would also feature various incentives, awards, fellowships, scholarships available for those who wish to pursue higher studies and careers in S&T and also funding opportunities for R&D. In addition, it should facilitate a dialogue of user with a panel of experts, specialists, knowledge hubs, and so on to quench their thirst for knowledge and information exchange. It may have the in-built mechanism for regular content generation and updation.

The beta version of a web portal on India Science, Technology & Innovation (ISTI) has been developed as a one-stop window on information about developments in India on science, technology and innovation and India’s international leadership in the field. At first, a framework was established and thereafter a structure was designed to cover the major aspects of scientific research in India. Several meetings were held in the months of November and December 2017 and January 2018 with the senior officials of DST, DBT and NIC and their inputs were carefully implemented in the portal.

2. Science Channel

In keeping with the Government of India’s overarching endeavour to make scientific education and rational knowledge accessible to all, Vigyan Prasar has taken on the responsibility of developing a science TV channel that will help people to appreciate the presence of Science & Technology (S&T) in their daily lives and to demystify scientific knowledge.

At this stage the channel will be a dedicated one-hour daily slot on Doordarshan, for which Vigyan Prasar has produced content and adding and improving upon it to maintain a

Home page of Science Channel
steady supply. An MoU has been signed with Dooradarshan to this effect which has agreed to provide the time slot of 6 to 7 pm on all days except Sundays.

In addition, Vigyan Prasar is also setting up an Over-The-Top (OTT) channel, which shall provide video content on demand on the internet, including live telecasts, which will be accessible on multiple devices.

The programme for one hour daily would be anchor-linked and packaged with two documentary films on different themes (half an hour for each theme). Besides these, there would be studio-based as well as lab- and school-based programmes. Field-based programmes would also be prepared in collaboration with DD.

Several meetings and consultations with the Hon’ble Minister, Senior Science Ministry officials, Advisory and stakeholder groups have been held to plan the nature and quality of the programmes that would be broadcast.

Provisions have been made for cross-Channel publicity of the programme in all channels and also through social media. Content for one month (one hour × 30 days) is being prepared at present and will be provided to Doordarshan before the launch of the channel. The target audience of the channel essentially comprises of students, teachers, parents, scientists, academics, researchers, policy makers, administrators and members of civil society.

The goals of the channel are to spread scientific temperament, rational thinking and awareness about India's growth in the world of Science, Technology and Innovation (STI) to enhance the concentration of STI content in India's media landscape, to strengthen the outreach activities of India’s STI-related research and institutions, on a national scale, to attract and encourage India's student community to pursue higher studies, research and careers in realm of STI, enhance content on developments in STI through DTH and Internet TV routes and highlight facilities and capabilities available in the entire STI landscape of India.

3. Internet-based Science & Technology Channel (OTT)

Vigyan Prasar has also initiated a 24×7 dedicated interactive internet based S&T Channel which will be available on all devices like smart phones, desktop/laptop, smart TV, etc. The OTT Channel would provide access to science content in audio-visual format for the benefits of students, teachers, researchers and general public. It is a unique effort, where the government is taking the initiative to become a broadcaster, with an intent to disseminate science and technology video content of the highest quality to a wide audience, starting from schoolchildren to professionals. A prototype of the Internet-based channel has been developed and presented to the Hon’ble Minister of Science and Technology in November 2017.
4. Development of communication resources on technological interventions for differently abled and elderly

Vigyan Prasar secured funding from SEED division of DST on the project “Development of communication resources on technological interventions for differently abled and elderly: popularise locally adaptable technologies for real life gains”. Approximately 40 technologies have been identified for differently abled and elderly which are supported by Dept. of Science & Technology. A compendium in the form of coffee table book is being developed having details of the technologies.
The Indian Science News and Feature Service (ISNFS) project has made steady progress in the year 2017. The project aims to showcase science and technology as well as R&D in Indian labs. The service was conceived as a unique offering for Indian media providing media houses original content on contemporary developments in Science and Technology in India. The project took a shape with the appointment of minimal staff since January 2017. Until then the project was in initiation phase. One of the major outputs of the project is "India Science Wire" a knowledge product in the new media platform to reach the media houses as well as interested public. The project also has a wide social media outreach.

The following are major milestones achieved under this project during the period under report:

- Building of in-house editorial team with professional journalists joining it
- Recruitment of first batch of technical and social media staff
- Building a team of high-quality science writers to work on freelance basis (most of them are PhD in science)
- Reaching out to Indian print and digital media in both Hindi and English
- Building up media outreach from zero to 73 media houses and portals
- Launch of daily news delivery service to media
- Tracking of India Science Wire stories being published in media on a daily basis
- Daily promotion of stories and tracking their uptake in social media (Twitter and Facebook)
- In-house development of micro website of India Science Wire on Vigyan Prasar Portal
- Sourcing stories from published papers, scientific conferences and coverage of S&T events.
Editorial activities

The in-house editorial team, along with contributions from a dedicated team of science writers, is producing science stories every day. From April 2017 to March 2018 a total of 480 original news stories were produced by the service. If one looks at the imprints, it is an average of 4.4 imprints per day. Most of the stories are based on peer reviewed research papers published by Indian researchers from Indian labs/ institutions in international and Indian journals. Interviews with scientists and policy-related events are also covered. Major scientific conferences such as the Indian Science Congress and the Annual Meeting of the Astronomical Society of India were covered by science reporters and editors of the service.

The list of institutions and funding agencies which figured in research news disseminated by the service includes IITs, IISERs, laboratories of CSIR, ICMR and ICAR, autonomous institutions under DST and DBT as well as leading universities like JNU, DU, Hyderabad, BHU, Madras University, etc.

Stories are sourced after scanning the reputed journals for papers emanating from Indian institutions. Further the team has taken effort to gather the news from field visits. During the period the team undertook 50 field visits to various institutions across the country to gather news inputs.

Science stories taken up from the Indian Science News and Feature Service (ISNFS) by different newspapers
### News and Features Output

Total number of stories released and imprints in media

<table>
<thead>
<tr>
<th>Month</th>
<th>Total number of stories released</th>
<th>Total imprints in media</th>
</tr>
</thead>
<tbody>
<tr>
<td>April</td>
<td>31</td>
<td>47</td>
</tr>
<tr>
<td>May</td>
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<td>June</td>
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<td>100</td>
</tr>
<tr>
<td>July</td>
<td>37</td>
<td>166</td>
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<tr>
<td>August</td>
<td>41</td>
<td>200</td>
</tr>
<tr>
<td>September</td>
<td>31</td>
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</tr>
<tr>
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<td>November</td>
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<td>199</td>
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<td>December</td>
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<tr>
<td>March</td>
<td>47</td>
<td>221</td>
</tr>
<tr>
<td>TOTAL</td>
<td>480</td>
<td>1,641</td>
</tr>
</tbody>
</table>

[Note: Distribution of stories to media started in mid-April, until then the project was in experimental mode]

### Editorial reach of the news service

In a short span of time, the news service has gathered momentum and is fulfilling the main objective of getting Indian science news published in media. In addition to directly earning print/web space, the service has been able to drive the media to cover science and technology stories from India.

At present, the news service is being distributed to about 73 news outlets on a daily basis. The combined reach of these media houses is estimated to be close to 2.5 million. The list of media outlets using ISW stories includes *The Hindu, Hindu Businessline, Amar Ujala, DainikJagaran, FirstPost, Outlook, Catch News, Yahoo.com, Down To Earth*, etc. The full list is provided at the end.
Social media output and reach of the news service

The social media outreach of ISW through Twitter and Facebook is gaining momentum with new users being added on a daily basis. The Facebook page of India Science Wire has reached a landmark of 10,000 followers.

<table>
<thead>
<tr>
<th>Month</th>
<th>Tweets</th>
<th>Number of impressions</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 2018</td>
<td>198</td>
<td>158K</td>
</tr>
<tr>
<td>February 2018</td>
<td>197</td>
<td>151K</td>
</tr>
<tr>
<td>January 2018</td>
<td>194</td>
<td>166K</td>
</tr>
<tr>
<td>December 2017</td>
<td>163</td>
<td>147K</td>
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<tr>
<td>November 2017</td>
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<tr>
<td>October 2017</td>
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</tr>
<tr>
<td>September 2017</td>
<td>141</td>
<td>102K</td>
</tr>
<tr>
<td>August 2017</td>
<td>177</td>
<td>134K</td>
</tr>
<tr>
<td>July 2017</td>
<td>174</td>
<td>108K</td>
</tr>
<tr>
<td>June 2017</td>
<td>135</td>
<td>72.3K</td>
</tr>
<tr>
<td>May 2017</td>
<td>148</td>
<td>67.2K</td>
</tr>
<tr>
<td>April 2017</td>
<td>62</td>
<td>53K</td>
</tr>
<tr>
<td>TOTAL</td>
<td>480</td>
<td>1,641</td>
</tr>
</tbody>
</table>

Twitter followers of India Science Wire handle (As on April 26, 2018): 3,931
Followers of Facebook page (As on April 26, 2018): 10,474

Different volumes of Indian Science Wire weekly newsletter
Indain S&T stories covered in Indian Science Wire weekly newsletter
Web presence of India Science Wire

The microsite of ISW has been made operational on VP portal. The entire development of this site was in-house. The page is updated every day with new news stories in English and Hindi being uploaded, along with pictures. The site itself serves as a direct outreach platform.

The following features have been added to the microsite in recent weeks:

- Image of the Day
- Indian Science in Indian Media (monthly reports of stories in print)
- In Conversation With Scientists (stories based on Eureka TV show of VP)
- Book Reviews
- S & T Policy Scan

More features like video stories, weekly newsletter are being developed and will be added soon.

The list of media subscribers of ISW service (As on 26 April 2018)

English

1. The Hindu
2. The Hindu Businessline
3. Down to Earth (English)
4. Outlook
5. First Post
6. Scroll
7. The Quint
8. Tech2
9. Health Analytics
10. Indian Science Journal
12. Science Reporter
13. Catch News (English)
14. APN Live
15. India Water Portal
16. The Meghalaya Guardian
17. Shillong Times
18. National Herald
19. Goa Herald
20. Millennium Post
21. India Saga
22. Newsmobile.in
23. *Telangana Today*
24. Medicare News
25. Netindian.in
26. InnoHealth
27. *Biotech Times*
28. hardnewsmedia.com
29. newsroom24X7.com
30. Innovation Intelligence
31. India Bio Science
32. Organiser
33. innovatiocuris.com
34. Medicare
35. CGkhabar.net (English)
36. Indus Dictum
37. *Eastern Mirror*
38. *Nagaland Post*
39. The Morung Express
40. Grassroot
41. The Better India
42. OneIndia.com
43. Newswave.co.in
44. Media4pillar.com
45. Research Stash
46. Newstrack.com
47. Weather.com

**Hindi**

1. *DainikJagran*
2. *Down To Earth (Hindi)*
3. *Amar Ujala*
4. *Janmorcha*
5. *Chhattisgarh Hindi Daily*
6. Catch News (Hindi)
7. Prabhasakshi.com
8. India Water Portal (Hindi)
9. FirstPost (Hindi)
10. Spandan Features
11. *Avishkar*
12. **Panchjanya**
13. **Satyagrah**
14. **Navodaya Times**
15. **Dainik Hindustan**
16. **Navbharat**
17. **Times Now (Hindi)**
18. Paryavaran Prakash aur Paryavaran Sanraksha
19. Web Duniya
20. Patrika.com
21. NBT.com
22. **PrabhatKhabar**
23. **Apna Bharat**
24. Gaon Connection

**Other languages**

1. Ippodhu (Tamil)
2. Azhimukham.com (Malayalam)
CELEBRATION OF IMPORTANT DAYS

National Science Day 2018

Vigyan Prasar in collaboration with NCSTC-DST celebrated the National Science Day 2018. The following activities were organised during NSD 2018:

i) A lecture on “Science & Technology for differently abled persons” by Dr A S Manekar, Director General, National Council of Science Museums (NCSM) was organised at JNU, New Delhi.

ii) A science-based activity corner was organised with special interest to students from schools and colleges, researchers, and general public. The activities such as Explain Science Behind Miracles & Demonstration on Fun with Science was organised at JNU.

iii) The National Awards function for Science & Technology Communication/Popularisation of NCSTC for the year 2017-18 was organised in collaboration with NCSTC.

Zero Shadow Day

VP in association with Astronomical Society of India organised major national level outreach programmes using the zero shadow day event. ZSD occurs for locations between the two tropics when the declination of the Sun equals the location’s latitude. On those two days a vertical pole does not cast shadow and the event could be used to run a public campaign on basic astronomy, weather and seasons and scientific temper.

1. A Workshop for Southern States was conducted by Vigyan Prasar and Public Outreach and Education Committee of the Astronomical Society of India (POEC – ASI) observing Zero Shadow Day during March 2017. The workshop was organised in collaboration with Dr APJ Abdul Kalam Science Centre and Planetarium, and Puduchery State council for Science and Technology. To reach out to the northern states like Madhya Pradesh, Chattisgarh, and Orissa, a workshop was organised at SCERT Raipur in association with Chattisgarh Vigyan Sabha, SCERT Chhattisgarh Raipur and IUCCA Reference Centre, Pt. Ravishankar University Raipur.
2. These workshops were immensely successful. After the workshops, the participants themselves organised more than 40 workshops without additional funding from VP. The event was observed in more than 2,000 places across the country.

3. Along with POEC of ASI, the campaign
   • Created state-wise maps and lists of towns for ZSD dates,
   • Curated articles and videos in English and many Indian languages,
   • Created a webpage with our resource material, and
   • Ran a social media campaign to augment this work.

4. Following the success of the initial effort, the nationwide low cost no cost programme is being proposed to be expanded. Along with Astronomical Society of India, regional level review-cum training workshops were conducted during Nov-Dec 2017.
Vigyan Prasar Library is being regularly updated with new books, magazines and journals. The library has 6,159 books and 38 journals and magazine are subscribed. VP library is now accessible through eGranthalaya library software and library database is maintained by OPAC. The library catalogue is easily accessible to Vigyan Prasar library members.
ANNUAL ACCOUNTS

Annexure - I: Administration and Annual Accounts
Annexure - II: Auditor’s Report
Annexure - III: Reply to Auditor’s Report
ANNEXURE – I

MANPOWER

<table>
<thead>
<tr>
<th>Groups</th>
<th>No. of Scientific/Technical Personnel</th>
<th>No. of Administrative/Secretarial Personnel</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>11</td>
<td>2</td>
</tr>
<tr>
<td>B</td>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>C</td>
<td>Nil</td>
<td>3</td>
</tr>
<tr>
<td>D</td>
<td>Nil</td>
<td>Nil</td>
</tr>
</tbody>
</table>

BUDGET

An amount of ₹ 1877.81 lakh was received during the year 2017-2018 from DST as Grant-in-Aid. Against, this, ₹ 1659.22 lakh was spent.

GENERAL BODY AND GOVERNING BODY MEETING

50th Governing Body and 28th General Body meetings were held on 4th October 2017.

OFFICIAL RAJ BHASHA COMMITTEE

The Vigyan Prasar is committed for the Hindi Rajbhasha use in official works. The writing of notings in Hindi, writing of letters in Hindi is encouraged among all staff of the Vigyan Prasar. In addition to this numbers of video and audio programs were produced and broadcast in Hindi by Vigyan Prasar. During the Financial Year 2017-18 total amount of expenditure towards the resource materials (DVDs, Books, etc.) in Hindi is 33,12,999. Dream 2047 a popular science magazine of Vigyan Prasar is regularly published in English and Hindi and have nationwide circulation of about 35,000. Hindi Pakhwada was observed during 14-28 September 2018 in Vigyan Prasar. During the Pakhwada various competitions like Nibhandh Lekhan, Aashu Bhashan, and Gyan Vigyan Prashnoattari were successfully completed. The winners were awarded Prizes. A lecture was organised on the topic “Raj Bhasha Ki Purv Tyari” delivered by Shri. Ajay Kumar Secretary, Nagar Rajbhasha Karyanvayan Samiti. The Hindi Rajbhasha Vibhag submitted all timahi reports well in time both online and by post too.

On 30 May 2017 Vigyan Prasar and Nagar Rajbhasha Karyanvayan Samiti jointly organised Hindi Rajbhasha Based Quiz competition. In this program total 17 institutions of Noida participated. The program got appreciation from all the participants.
Implementation of Right to Information Act
The provisions of RTI Act have been implemented through nomination of CPIO and the Appellate Authority of the organization.

Prevention of Sexual Harassment of Women at Work Place
Necessary mechanism has been placed in compliance with instructions on the subject. No complaint was received during the year

Vigilance Report (2017-18)
During the year no complaint was received by the Vigilance Officer. Periodic reports on monthly and quarterly basis relating to vigilance were submitted regularly to the Chief Vigilance Officer, DST, Govt. of India.

The vigilance week was observed from 30th October to 4th November 2017 on the theme “My Vision - Corruption Free India”. A series of programmes and activities including a lecture, essay writing competition etc. were organized for the administrative/scientific/technical staff of Vigyan Prasar.

Surprise checks on cash were conducted. Preventive vigilance activities were undertaken.

The mechanism of redressal of grievances of the employees of the organization is available. The first Wednesday of every month is observed as Grievance Redressal Day. A Suggestion/Complaint box is installed at office premises and checked regularly.
Independent Auditor’s Report

ANNEXURE – II

To the Governing Body of Vigyan Prasar

Report on the Financial Statements

We have audited the accompanying financial statements of Vigyan Prasar which comprise the Balance Sheet as at March 31, 2018, the Income and Expenditure Account and Receipts and Payments for the year then ended, and a summary of significant accounting policies and other explanatory information.

Management’s Responsibility for the Financial Statements

Governing Body of Vigyan Prasar is responsible for the preparation of these financial statements that give a true and fair view of the financial position, financial performance and receipts and payments account of the Company in accordance with the Accounting Standards prescribed by ICAI. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of the financial statements that are free from material misstatement, whether due to fraud or error.

Auditor’s Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement. An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor’s judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error.

In making those risk assessments, the auditor considers internal control relevant to the Company’s preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity’s internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.
We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our qualified audit opinion.

**Un qualified Opinion**

In our opinion and to the best of our information and according to the explanations given to us, the financial statements give the information required by the Act in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India:

(a) in the case of the Balance Sheet, of the state of affairs of the entity as at March 31, 2018;
(b) in the case of the Income and Expenditure Account, the surplus for the year ended on that date; and
(c) in the case of the Receipts and Payments Account, the receipts and payments reflected therein

**Other Matters**

Sundry debtors amounting to Rs. 92,57,001.35 given to partner agencies or service providers for content development remain unadjusted for more than 1 year.

**Emphasis of Matter**

Consequent of five, assets whose original cost was Rs. 81,54,739 and depreciated amount was 66,47,019 were destroyed. Loss appropriately reflected in the Income and Expenditure Account.

Our opinion is not qualified with respect to matters stated here.

**Manish Khanna, FCA, DISA(ICAI)**

Partner
Manish Khanna & Co
Chartered Accountants
ICAI FRN : 008584C
Dated: 1 August, 2018
Place: Nainital
VIGYAN PRASAR, A-50,SECTOR 62,NOIDA
BALANCE SHEET AS AT 31/03/2018

<table>
<thead>
<tr>
<th>CORPUS CAPITAL FUND AND LIABILITIES</th>
<th>Schedule</th>
<th>Current Year</th>
<th>Previous Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>CORPUS/CAPITAL FUND</td>
<td>1</td>
<td>22,38,26,601</td>
<td>15,94,04,044</td>
</tr>
<tr>
<td>EARMARKED/ENDOWMENT FUND</td>
<td>2</td>
<td>2,10,23,380</td>
<td>63,46,859</td>
</tr>
<tr>
<td>CURRENT LIABILITIES AND PROVISIONS</td>
<td>3</td>
<td>2,70,85,118</td>
<td>6,64,72,289</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>27,19,35,099</strong></td>
<td><strong>23,22,23,192</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ASSETS</th>
<th></th>
<th><strong>27,19,35,099</strong></th>
<th><strong>23,22,23,192</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>FIXED ASSETS</td>
<td>4</td>
<td>80,97,118</td>
<td>1,07,81,129</td>
</tr>
<tr>
<td>CURRENT ASSETS and LOANS &amp; ADVANCES</td>
<td>5</td>
<td>26,38,37,981</td>
<td>22,14,42,063</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td></td>
<td><strong>27,19,35,099</strong></td>
<td><strong>23,22,23,192</strong></td>
</tr>
</tbody>
</table>

Significant Accounting Policies and Notes forming part of Accounts as per Schedule

In terms of our report of even date attached
For Manish Khanna & Co
Chartered Accountants
FRN ICAI : 008584C

sd/- sd/- sd/- sd/-
Manish Khanna, FCA, DISA (ICAI) Inderjit Singh B.K.Tyagi Dr. T.V. Venkateswaran
Partner Accounts Officer Registrar Director

Place: Nainital

Date 1 August 2018
Place: NOIDA
VIGYAN PRASAR, A-50, SECTOR 62, NOIDA
INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31/03/2018

<table>
<thead>
<tr>
<th>INCOME</th>
<th>Schedule</th>
<th>Current Year</th>
<th>Previous Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income from sales</td>
<td>6</td>
<td>31,98,954</td>
<td>6,52,839</td>
</tr>
<tr>
<td>Grants</td>
<td>7</td>
<td>17,83,49,569</td>
<td>127,070,454</td>
</tr>
<tr>
<td>Interest Earned</td>
<td>8</td>
<td>1,09,99,209</td>
<td>1,28,97,994</td>
</tr>
<tr>
<td>Other Income</td>
<td>9</td>
<td>16,20,717</td>
<td>2,55,323</td>
</tr>
<tr>
<td>TOTAL (A)</td>
<td></td>
<td>19,41,68,450</td>
<td>1,40,882,611</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EXPENDITURE</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost of Goods Sold</td>
<td>10</td>
<td>21,46,773</td>
<td>3,45,724</td>
</tr>
<tr>
<td>Programme/Activity Expenses</td>
<td>11</td>
<td>6,82,89,044</td>
<td>69,288,154</td>
</tr>
<tr>
<td>Establishment Expenses</td>
<td>12</td>
<td>4,11,37,210</td>
<td>39,371,172</td>
</tr>
<tr>
<td>Other Administrative Expenses Etc.</td>
<td>13</td>
<td>1,38,16,367</td>
<td>1,00,47,516</td>
</tr>
<tr>
<td>Depreciation</td>
<td>4</td>
<td>28,80,279</td>
<td>39,86,293</td>
</tr>
<tr>
<td>Fixed Assets to the extent ecquired out of front for Asset creation</td>
<td></td>
<td></td>
<td>78,67,599</td>
</tr>
<tr>
<td>TOTAL (B)</td>
<td></td>
<td>12,82,69,673</td>
<td>130,956,459</td>
</tr>
</tbody>
</table>

Excess of Income over Expenditure before extraordinary items (A-B) 6,58,98,777 99,26,152
Add: Prior Period Income 2,44,060
Less: Loss arising due to impairment of assets by fire (14,76,220.00)
BALANCE BEING CARRIED TO GENERAL RESERVE/CAPITAL FUND 6,44,22,557

Notes on Accounts and Accounting Policies 14

In terms of our report of even date attached
For Manish Khanna & Co
Chartered Accountants
FRN ICAI : 008584C

sd/-
Manish Khanna, FCA, DISA (ICAI)
Partner
Place: Nainital

sd/-
Inderjit Singh
Accounts Officer

sd/-
B.K.Tyagi
Registrar

sd/-
Dr. T.V. Venkateswaran
Director

sd/-

Date 1 August 2018
Place: NOIDA
VIGYAN PRASAR, A-50, SECTOR 62, NOIDA  
RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31/03/2018

<table>
<thead>
<tr>
<th>RECEIPTS</th>
<th>Schedule</th>
<th>2017-18</th>
<th>2016-17</th>
<th>PAYMENTS</th>
<th>Schedule</th>
<th>2017-18</th>
<th>2016-17</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>I. Opening balances</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>I. Expenses</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) Cash in hand</td>
<td>5</td>
<td>27,122</td>
<td>38,437</td>
<td>a) Program activities</td>
<td>5&amp;11</td>
<td>6,34,79,547</td>
<td>6,01,03,824</td>
</tr>
<tr>
<td>b) Bank account</td>
<td></td>
<td></td>
<td></td>
<td>b) Establishment exp</td>
<td>3,12</td>
<td>4,11,30,844</td>
<td>3,93,71,172</td>
</tr>
<tr>
<td>i) Saving account</td>
<td>5</td>
<td>8,81,09,969</td>
<td>5,85,30,864</td>
<td>c) Administrative exp</td>
<td>13</td>
<td>1,38,28,323</td>
<td>1,00,47,516</td>
</tr>
<tr>
<td>ii) Fixed deposits</td>
<td>5</td>
<td>7,45,79,050</td>
<td>7,45,79,050</td>
<td>e) Purchase of stock</td>
<td>10</td>
<td>45,97,182</td>
<td>27,43,684</td>
</tr>
<tr>
<td><strong>II. Grant Received</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>II. Payments made against funds</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(a) for capital asset creation</td>
<td>2</td>
<td>85,41,000</td>
<td></td>
<td>for various project</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(b) for defraying salary expenditure</td>
<td>7</td>
<td>4,80,56,000</td>
<td></td>
<td>Payments on account of endowment funds</td>
<td>2</td>
<td>2,67,49,211</td>
<td>1,05,69,566</td>
</tr>
<tr>
<td>(c) endowment grants</td>
<td>2</td>
<td>3,47,00,824</td>
<td>1,08,30,330</td>
<td>Payments from previous years’ grant carried forward</td>
<td>7</td>
<td>1,01,55,551</td>
<td>72,66,000</td>
</tr>
<tr>
<td>(d) from DST</td>
<td>7</td>
<td>104,055,000</td>
<td>18,00,000</td>
<td><strong>III. Payment of liabilities</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>III. Interest Received</strong></td>
<td></td>
<td></td>
<td></td>
<td>(a) Contribution to NPS</td>
<td>3</td>
<td>1,03,910</td>
<td>1,67,410</td>
</tr>
<tr>
<td>From Saving Bank Deposit</td>
<td>8</td>
<td>52,52,445</td>
<td>67,87,742</td>
<td>(b) Amounts payables</td>
<td>3</td>
<td>16,74,572</td>
<td>78,427</td>
</tr>
<tr>
<td>From Time deposits in bank</td>
<td>5</td>
<td>1,04,65,375</td>
<td></td>
<td><strong>IV. Income tax payments</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>IV. Other Receipts</strong></td>
<td></td>
<td></td>
<td></td>
<td>Payment of income tax deducted at source (liability)</td>
<td>3</td>
<td>3,14,815</td>
<td>78,427</td>
</tr>
<tr>
<td>Receipt against sales</td>
<td>6</td>
<td>31,98,954</td>
<td>6,52,839</td>
<td>Income tax deducted at source on interest</td>
<td>5</td>
<td>78,427</td>
<td>78,427</td>
</tr>
<tr>
<td>Miscellaneous receipts</td>
<td>9</td>
<td>6,75,367</td>
<td>2,25,323</td>
<td><strong>V. Expenditure on fixed assets</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Disposal of asset</td>
<td>4</td>
<td>49,500</td>
<td></td>
<td>Purchase of Fixed Assets</td>
<td>4</td>
<td>17,10,032</td>
<td>78,67,599</td>
</tr>
</tbody>
</table>

*Continued ....*
In terms of our report of even date attached
For Manish Khanna & Co
Chartered Accountants
FRN ICAI : 008584C

sd/-
Manish Khanna, FCA, DISA (ICAI)
Partner
Place: Nainital

Date 1 August 2018
Place: NOIDA

### VIGYAN PRASAR, A-50, SECTOR 62, NOIDA
RECEIPTS AND PAYMENTS FOR THE YEAR ENDED 31/03/2018

<table>
<thead>
<tr>
<th>RECEIPTS</th>
<th>Schedule</th>
<th>2017-18</th>
<th>2016-17</th>
<th>PAYMENTS</th>
<th>Schedule</th>
<th>2017-18</th>
<th>2016-17</th>
</tr>
</thead>
<tbody>
<tr>
<td>V. Receipts arising from changes in current assets and current liabilities</td>
<td></td>
<td></td>
<td></td>
<td>VI. Payments arising from changes in current assets and current liabilities</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(a) Advance received</td>
<td></td>
<td>33,58,575</td>
<td></td>
<td>(a) Payment of earnest money and security deposit</td>
<td>3</td>
<td>1,68,000</td>
<td>2,22,431</td>
</tr>
<tr>
<td>(b) Withholding income tax (TDS)</td>
<td></td>
<td>2,76,047</td>
<td></td>
<td>(b) employee advance</td>
<td></td>
<td>1,76,635</td>
<td></td>
</tr>
<tr>
<td>(c) Recoveries from sundry debtors 5</td>
<td>18,24,213</td>
<td>34,654</td>
<td>(c) Advances for programs and other activities 5</td>
<td>2,83,35,944</td>
<td>1,68,02,712</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(d) Recoveries in advances 5</td>
<td>32,381</td>
<td></td>
<td>(d) Payment for program activities recoverable 5</td>
<td>41,77,498</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(e) Security Deposit 5</td>
<td>1,25,546</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(e) Receipt of security deposit 3</td>
<td>1,75,571</td>
<td></td>
<td>(f) Advance to AIR for broadcast fee 5</td>
<td>1,16,96,880</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(f) Reduction in advances 3</td>
<td>36,611</td>
<td>1,06,198</td>
<td>(g) Adjustment of sundry creditors 3</td>
<td>28,57,960</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(g) From advance to Employees</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>36,31,65,389</td>
<td>33,54,89,051</td>
<td>TOTAL</td>
<td>37,97,10,389</td>
<td>33,54,89,051</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**SCHEDULE 1**

<table>
<thead>
<tr>
<th>CORPUS/CAPITAL FUND</th>
<th>Current year</th>
<th>Previous year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Balance at the beginning of the year</td>
<td>15,94,04,044</td>
<td>14,92,33,832</td>
</tr>
<tr>
<td>Add: Surplus transferred from income and expenditure account</td>
<td>6,44,22,557</td>
<td>1,01,70,212</td>
</tr>
<tr>
<td><strong>Balance as at the year end</strong></td>
<td>22,38,26,60</td>
<td>15,94,04,044</td>
</tr>
</tbody>
</table>

**SCHEDULE 2**

<table>
<thead>
<tr>
<th>EARMARKED/ENDOWMENT FUND</th>
<th>A) Opening Balance</th>
<th>(B) Addition</th>
<th>C) Total (A+B)</th>
<th>Unutilized funds (A+B-C)</th>
<th>NET BALANCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPCIL Mumbai Limited</td>
<td>7,26,607</td>
<td>-</td>
<td>7,26,607</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>UNFPA</td>
<td>1,00,873</td>
<td>-</td>
<td>1,00,873</td>
<td>1,00,873</td>
<td>-</td>
</tr>
<tr>
<td>SERC</td>
<td>(5,23,987)</td>
<td>-</td>
<td>(5,23,987)</td>
<td>-</td>
<td>(5,23,987)</td>
</tr>
<tr>
<td>IDRC Project</td>
<td>114950</td>
<td>-</td>
<td>114,950</td>
<td>114,950</td>
<td>-</td>
</tr>
<tr>
<td>NSTMIS</td>
<td>1,03,064</td>
<td>5,00,000</td>
<td>6,03,064</td>
<td>28,320</td>
<td>5,74,744</td>
</tr>
<tr>
<td>Women Scientist</td>
<td>(4,85,470)</td>
<td>-</td>
<td>(4,85,470)</td>
<td>-</td>
<td>(4,85,470)</td>
</tr>
<tr>
<td>Telescope workshop with Kendriya Vidyalaya</td>
<td>-</td>
<td>54,88,795</td>
<td>54,88,795</td>
<td>12,92,615</td>
<td>41,96,180</td>
</tr>
<tr>
<td>STAC- Project</td>
<td>(34,352)</td>
<td>-</td>
<td>(34,352)</td>
<td>-</td>
<td>(34,352)</td>
</tr>
<tr>
<td>SEED Division/ Science Society</td>
<td>2,84,998</td>
<td>-</td>
<td>2,84,998</td>
<td>-</td>
<td>2,84,998</td>
</tr>
<tr>
<td>State Science &amp; Technology</td>
<td>(93,500)</td>
<td>-</td>
<td>(93,500)</td>
<td>-</td>
<td>(93,500)</td>
</tr>
<tr>
<td>TIDE Project - KBB</td>
<td>(1,76,804)</td>
<td>-</td>
<td>(1,76,804)</td>
<td>-</td>
<td>(1,76,804)</td>
</tr>
<tr>
<td>DST Web Project</td>
<td>1,94,895.27</td>
<td>2,343</td>
<td>1,97,238</td>
<td>20,89,324</td>
<td>(18,92,086)</td>
</tr>
<tr>
<td>DST Sponsoring Programme</td>
<td>(1,76,804)</td>
<td>-</td>
<td>(1,76,804)</td>
<td>-</td>
<td>(1,76,804)</td>
</tr>
<tr>
<td>Madhya Pradesh Council for science &amp; technology</td>
<td>3,281</td>
<td>-</td>
<td>3,281</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>SEED – Home garden project</td>
<td>12,57,933</td>
<td>-</td>
<td>12,57,933</td>
<td>9,21,256</td>
<td>3,36,677</td>
</tr>
<tr>
<td>International Division DST</td>
<td>(2,01,250)</td>
<td>-</td>
<td>(2,01,250)</td>
<td>-</td>
<td>(2,01,250)</td>
</tr>
<tr>
<td>International Womens Day</td>
<td>1,09,623</td>
<td>-</td>
<td>1,09,623</td>
<td>1,09,601</td>
<td>22</td>
</tr>
<tr>
<td>Edusat Project with NCSTC DST</td>
<td>25,08,497</td>
<td>93,517</td>
<td>26,02,014</td>
<td>2,30,244</td>
<td>23,71,770</td>
</tr>
<tr>
<td>Himalyan Project with JNU</td>
<td>4,19,594</td>
<td>12,512</td>
<td>4,32,106</td>
<td>2,14,680</td>
<td>2,17,426</td>
</tr>
<tr>
<td>Science Film Festival-TIFAC DST</td>
<td>-</td>
<td>39,61,794</td>
<td>39,61,794</td>
<td>29,05,211</td>
<td>10,56,583</td>
</tr>
<tr>
<td>National Science Day celebration</td>
<td>8,12,989</td>
<td>30,00,000</td>
<td>38,12,989</td>
<td>19,33,272</td>
<td>18,79,717</td>
</tr>
<tr>
<td>Astronomy Telescope Project</td>
<td>12,37,292</td>
<td>29,606</td>
<td>12,66,898</td>
<td>12,58,853</td>
<td>8,045</td>
</tr>
<tr>
<td>Programme with MOES</td>
<td>11,14,218</td>
<td>41,515</td>
<td>11,55,733</td>
<td>58,101</td>
<td>10,97,632</td>
</tr>
<tr>
<td>DBT Project</td>
<td>1,31,701</td>
<td>1,84,87,809</td>
<td>1,86,19,510</td>
<td>1,48,89,873</td>
<td>37,29,637</td>
</tr>
<tr>
<td>ISF</td>
<td>1,94,895.27</td>
<td>2,343</td>
<td>1,97,238</td>
<td>20,89,324</td>
<td>(18,92,086)</td>
</tr>
<tr>
<td>Capital asset creation grant</td>
<td>85,41,000</td>
<td>85,41,000</td>
<td>85,41,000</td>
<td>8,70,741</td>
<td>76,70,259</td>
</tr>
<tr>
<td><strong>CURRENT YEAR</strong></td>
<td>63,46,859</td>
<td>4,32,41,824</td>
<td>4,95,88,683</td>
<td>2,85,65,304</td>
<td>2,10,23,380</td>
</tr>
<tr>
<td><strong>PREVIOUS YEAR</strong></td>
<td>61,92,384</td>
<td>1,08,30,330</td>
<td>1,70,22,714</td>
<td>1,06,75,854.73</td>
<td>63,46,859</td>
</tr>
</tbody>
</table>
## SCHEDULE 3

**CURRENT LIABILITIES & PROVISIONS**

<table>
<thead>
<tr>
<th>CURRENT LIABILITIES</th>
<th>CURRENT YEAR</th>
<th>PREVIOUS YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Acceptances- Security (Distributor/Agency)</td>
<td>72,000.00</td>
<td>72,000.00</td>
</tr>
<tr>
<td>- Earnest Money Deposit</td>
<td>15,88,449.00</td>
<td>17,56,449.00</td>
</tr>
<tr>
<td>Performance Security Deposit</td>
<td>2,68,140.00</td>
<td>19,28,589.00</td>
</tr>
<tr>
<td>2. Sundry Creditors</td>
<td>5,85,739.42</td>
<td>34,43,700.00</td>
</tr>
<tr>
<td>3. Statutory Liabilities</td>
<td>3,82,567.00</td>
<td>6,97,382.00</td>
</tr>
<tr>
<td>TDS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Payable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amount payable</td>
<td>38,50,738.00</td>
<td>-</td>
</tr>
<tr>
<td>5. Gratuity</td>
<td>1,72,088.00</td>
<td>1,72,088.00</td>
</tr>
<tr>
<td>6. Leave Salary</td>
<td>2,79,936.00</td>
<td>2,73,570.00</td>
</tr>
<tr>
<td>7. (a) Grant carried forward</td>
<td>1,57,67,455.00</td>
<td>2,59,23,006.33</td>
</tr>
<tr>
<td>7. (b) Grant for which expenditure has been committed and advances given</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Amount adjustable against ST workshop</td>
<td>41,18,006.00</td>
<td>86,73,697.00</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>2,70,85,118</strong></td>
<td><strong>6,64,72,289</strong></td>
</tr>
</tbody>
</table>
## SCHEDULE 4

### FIXED ASSETS

<table>
<thead>
<tr>
<th>DESCRIPTIONS</th>
<th>At the beginning of the Year</th>
<th>Additions During April-Sept.</th>
<th>Additions During Oct.-March</th>
<th>Items lost and amount recovered/adjusted</th>
<th>Assets adjusted against grant</th>
<th>At the end of the year</th>
<th>Accumulated Depreciation Upto 31-03-2017</th>
<th>Adjusted Depreciation</th>
<th>Less on items sold</th>
<th>For the Current Year</th>
<th>Accumulated Depreciation Upto 31-03-2018</th>
<th>NET BLOCK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant Machinery &amp; Equipment (15%)</td>
<td>2,79,206.00</td>
<td>0.00</td>
<td>0.00</td>
<td>-2,66,389.00</td>
<td>0.00</td>
<td>12,817.00</td>
<td>2,55,942</td>
<td>-2,50,470.00</td>
<td>-27,13,880.00</td>
<td>3,490</td>
<td>8,961.24</td>
<td>3,856</td>
</tr>
<tr>
<td>Furniture &amp; Fixtures (10%)</td>
<td>95,31,585.00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Office Equipment (15%)</td>
<td>15,76,351.00</td>
<td>2,94,580.00</td>
<td>97,350.00</td>
<td>-6,11,620.00</td>
<td>-18,000.00</td>
<td>13,38,661.00</td>
<td>11,08,469</td>
<td>-3,38,369.00</td>
<td>3,34,400.00</td>
<td>1,21,671</td>
<td>8,79,814.19</td>
<td>4,58,847</td>
</tr>
<tr>
<td>Computer / Peripherals (60%)</td>
<td>1,57,67,883.00</td>
<td>8,23,153.00</td>
<td>2,01,914.00</td>
<td>-34,20,833.00</td>
<td>0.00</td>
<td>1,33,72,097.00</td>
<td>1,40,72,548</td>
<td>-33,44,400.00</td>
<td>1,57,1,664.7</td>
<td>1,22,99,915.04</td>
<td>10,72,182</td>
<td>16,95,335</td>
</tr>
<tr>
<td>Library Books (65%)</td>
<td>22,14,194.00</td>
<td>9,162.00</td>
<td>30,918.00</td>
<td>0.00</td>
<td>0.00</td>
<td>22,54,274.00</td>
<td>21,52,337</td>
<td>0.00</td>
<td>0.00</td>
<td>51,947</td>
<td>22,04,183.99</td>
<td>50,909</td>
</tr>
<tr>
<td>Electrical Installation (10%)</td>
<td>17,04,635.00</td>
<td>20,500.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>17,25,135.00</td>
<td>8,37,928</td>
<td>0.00</td>
<td>0.00</td>
<td>88,721</td>
<td>9,26,648.57</td>
<td>7,98,486</td>
</tr>
<tr>
<td>Audio-Visual Equipment (15%)</td>
<td>1,16,07,567.00</td>
<td>50,768.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>1,16,58,385.00</td>
<td>80,42,338</td>
<td>0.00</td>
<td>0.00</td>
<td>5,41,665</td>
<td>85,88,902.15</td>
<td>30,69,433</td>
</tr>
<tr>
<td>HAM Equipment &amp; Accessories (13%)</td>
<td>20,31,879.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>20,31,879.00</td>
<td>10,70,067</td>
<td>0.00</td>
<td>0.00</td>
<td>1,44,272</td>
<td>12,14,338.53</td>
<td>8,17,540</td>
</tr>
<tr>
<td>Telescope &amp; Accessories (15%)</td>
<td>14,35,749.00</td>
<td>1,81,687.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>16,17,430.00</td>
<td>11,33,645</td>
<td>0.00</td>
<td>0.00</td>
<td>72,568</td>
<td>12,06,221.39</td>
<td>4,11,218</td>
</tr>
<tr>
<td>Digital Library (60%)</td>
<td>9,50,000.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>0.00</td>
<td>9,50,000.00</td>
<td>9,49,789</td>
<td>0.00</td>
<td>0.00</td>
<td>127</td>
<td>9,49,915.48</td>
<td>85</td>
</tr>
<tr>
<td>TOTAL OF CURRENT YEAR</td>
<td>4,70,99,043.00</td>
<td>13,79,890.00</td>
<td>3,30,182.00</td>
<td>-81,34,739.00</td>
<td>-10,000.00</td>
<td>4,06,39,193.00</td>
<td>63,17,794</td>
<td>-66,47,019.00</td>
<td>-11,956.00</td>
<td>28,80,279</td>
<td>32,53,219</td>
<td>80,97,118</td>
</tr>
<tr>
<td>PREVIOUS YEAR</td>
<td>4,80,95,703</td>
<td>5,23,118</td>
<td>73,44,481</td>
<td>(9,96,660)</td>
<td>-</td>
<td>4,07,99,043</td>
<td>3,23,76,621</td>
<td>0.00</td>
<td>0.00</td>
<td>38,86,299</td>
<td>3,63,17,914</td>
<td>1,07,81,129</td>
</tr>
</tbody>
</table>

Amount in ₹
## SCHEDULE 5

<table>
<thead>
<tr>
<th>CURRENT ASSETS, LOANS, ADVANCES ETC.</th>
<th>CURRENT YEAR</th>
<th>PREVIOUS YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. CURRENT ASSETS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Inventories</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a Stock-in-trade</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Sundry Debtors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3 Income Tax Deducted at Sources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 Cash In hand</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5 Bank Balance : Union Bank of India:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICICI Bank</td>
<td>9,31,76,851</td>
<td>8,38,56,658</td>
</tr>
<tr>
<td>O.B.C. Bank:</td>
<td>1,36,125</td>
<td>75,576</td>
</tr>
<tr>
<td>Canara Bank</td>
<td>66,76,748</td>
<td>25,39,454</td>
</tr>
<tr>
<td></td>
<td>11,27,238</td>
<td>16,38,281</td>
</tr>
<tr>
<td>6 Fixed Deposits</td>
<td>10,11,16,961</td>
<td>8,81,09,969</td>
</tr>
<tr>
<td>Total cash in hand and at bank</td>
<td>8,49,65,998</td>
<td>7,45,79,050</td>
</tr>
<tr>
<td>7 House Building Advance</td>
<td>18,61,27,917</td>
<td>16,27,16,141</td>
</tr>
<tr>
<td>9 Interest on Accrued</td>
<td>1,39,486</td>
<td>2,01,430</td>
</tr>
<tr>
<td>(1) Accrued Interest on HBA to staff</td>
<td>1,41,750</td>
<td>1,16,310</td>
</tr>
<tr>
<td>(2) on time deposits with banks</td>
<td>35,76,646</td>
<td>83,20,697</td>
</tr>
<tr>
<td><strong>TOTAL (A)</strong></td>
<td>19,82,99,862</td>
<td>18,07,41,915</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B</th>
<th>2017-18</th>
<th>2016-17</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Security Deposits</td>
<td>6,67,854</td>
<td>6,67,854</td>
</tr>
<tr>
<td>2 Motor Cycle Advance</td>
<td>37,500</td>
<td>49,500</td>
</tr>
<tr>
<td>3 Computer advance</td>
<td>6,135</td>
<td>25,935</td>
</tr>
<tr>
<td>4 Employee Advances</td>
<td>3,35,459</td>
<td>65,080</td>
</tr>
<tr>
<td>5 Broadcast fee paid to AIR</td>
<td>79,60,328</td>
<td>1,16,96,880</td>
</tr>
<tr>
<td>6 Advances for scientific workshops</td>
<td>5,24,25,219</td>
<td>2,50,48,137</td>
</tr>
<tr>
<td>and programmes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7 Advance for ST programme</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Field Level Activities</td>
<td></td>
<td>13,39,640</td>
</tr>
<tr>
<td>Work Shops</td>
<td>41,05,624</td>
<td>18,07,122</td>
</tr>
<tr>
<td><strong>TOTAL (B)</strong></td>
<td>6,55,38,119</td>
<td>4,07,00,148</td>
</tr>
</tbody>
</table>

**TOTAL (A+B)**                          | 26,38,37,981 | 22,14,42,063 |
SCHEDULE 6
Income from Sales

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Current Year</th>
<th>Previous Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income from Sales</td>
<td>35,98,193</td>
<td>7,60,298</td>
</tr>
<tr>
<td>Less: Discount on Sales</td>
<td>-3,99,239</td>
<td>-1,07,459</td>
</tr>
<tr>
<td><strong>Net Sales</strong></td>
<td><strong>31,98,954</strong></td>
<td><strong>6,52,839</strong></td>
</tr>
</tbody>
</table>

SCHEDULE 7
Grants

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Current Year</th>
<th>Previous Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grants from Central Government</td>
<td>16,06,52,000</td>
<td>18,00,00,000</td>
</tr>
<tr>
<td>Grants brought forward</td>
<td>2,53,67,828</td>
<td>55,27,000</td>
</tr>
<tr>
<td>Amount equal to depreciation on assets acquired out of grant funds</td>
<td>8,70,741</td>
<td></td>
</tr>
</tbody>
</table>

**Subtotal**
- Grant for Creation of Assets surrendered: (85,41,000)
- Grant for SC Salary surrendered: (18,00,000)
- General grant carried forward: (3,47,51,835)
- Grant utilized for ST workshop: (1,65,45,000)

**TOTAL**
| **17,83,49,569** | **12,69,64,165** |

SCHEDULE 8
Interests Earned

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Current Year</th>
<th>Previous Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INTEREST EARNED</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1) On Saving Accounts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>a) Saving A/c Interest</td>
<td>52,52,445</td>
<td>67,87,742</td>
</tr>
<tr>
<td>2) On Fixed Deposits</td>
<td>57,21,324</td>
<td>61,10,253</td>
</tr>
<tr>
<td>3) On Loans:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b) Interest on advances to employees</td>
<td>25,440</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL**
| **1,09,99,209** | **1,28,97,995** |
## SCHEDULE 9

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Current Year</th>
<th>Previous Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OTHER INCOME</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1) Miscellaneous Income</td>
<td>3,65,893</td>
<td>6,410</td>
</tr>
<tr>
<td>2) Endowment grants: unutilized funds</td>
<td>9,45,351</td>
<td>-</td>
</tr>
<tr>
<td>(not refundable)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3) Overhead Income</td>
<td></td>
<td>42,216</td>
</tr>
<tr>
<td>4) Sale of News Paper</td>
<td>1,570</td>
<td>11,077</td>
</tr>
<tr>
<td>5) Sale of Tender Form</td>
<td>1,00,970</td>
<td>1,01,500</td>
</tr>
<tr>
<td>6) Sale of Scrap</td>
<td></td>
<td>64,100</td>
</tr>
<tr>
<td>7) RTI receipt</td>
<td>30</td>
<td>20</td>
</tr>
<tr>
<td>8) Penalty Deducted from Printing job</td>
<td>2,06,903</td>
<td>30,000</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>16,20,717</strong></td>
<td><strong>2,55,323</strong></td>
</tr>
</tbody>
</table>

## SCHEDULE 10

**Cost of Goods Sold**

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Current Year</th>
<th>Previous Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening Stock</td>
<td>44,69,754</td>
<td>60,78,463</td>
</tr>
<tr>
<td>Purchases</td>
<td>45,97,182</td>
<td>24,49,340</td>
</tr>
<tr>
<td>Total</td>
<td>90,66,937</td>
<td>85,27,803</td>
</tr>
<tr>
<td>Less: Books/KITs Issued Complimentary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less Closing Stock</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Cost of Goods Sold</strong></td>
<td><strong>21,46,773</strong></td>
<td><strong>395,724</strong></td>
</tr>
<tr>
<td>Particulars</td>
<td>Current Year</td>
<td>Previous Year</td>
</tr>
<tr>
<td>------------------------------------------------</td>
<td>--------------</td>
<td>---------------</td>
</tr>
<tr>
<td><strong>PROGRAMMES / ACTIVITIES EXPENSES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complimentary Books/Kits/Posters Issued</td>
<td>17,77,898</td>
<td>36,62,324</td>
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<tr>
<td>Audio Visual &amp; Radio Programme</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Production of Video Programmes</td>
<td>34,89,594</td>
<td>51,15,731</td>
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<tr>
<td>Exps. for Science This Week Serials for Lok Sabha TV</td>
<td>58,17,600</td>
<td>1,20,39,614</td>
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<tr>
<td>Dubbing for Video Programmes</td>
<td>53,600</td>
<td>-</td>
</tr>
<tr>
<td>Edusat Programme</td>
<td>6,97,516</td>
<td>13,16,766</td>
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<tr>
<td>Expenditure on Workshops</td>
<td>6,73,525</td>
<td>12,46,475</td>
</tr>
<tr>
<td>Travel Expenses for Programmes</td>
<td></td>
<td>2,74,743</td>
</tr>
<tr>
<td>Packaging of Video Programmes</td>
<td></td>
<td>96,03,630</td>
</tr>
<tr>
<td>Misc. Expenditure for Audio Visual Programme</td>
<td>2,65,948</td>
<td>12,56,962</td>
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<tr>
<td>Production Documentary Films</td>
<td>3,05,200</td>
<td>3,20,600</td>
</tr>
<tr>
<td>Expenditure on Meetings</td>
<td>51,411</td>
<td>1,96,098</td>
</tr>
<tr>
<td>Remuneration for Audio Visual Work</td>
<td></td>
<td>69,500</td>
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<tr>
<td>Replication &amp; video mastering</td>
<td>1,11,888</td>
<td>2,24,166</td>
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<tr>
<td>Radio Script Development &amp; Radio Programme</td>
<td>77,00,722</td>
<td>17,43,144</td>
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<tr>
<td>Broadcasting Fees to All India Radio</td>
<td></td>
<td>41,52,618</td>
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<tr>
<td>Travel Expenses for Radio Programmes</td>
<td>4,66,536</td>
<td>1,42,632</td>
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<tr>
<td>Science fusion programme</td>
<td>1,35,875</td>
<td></td>
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<tr>
<td>Science Quiz Competition N East</td>
<td>40,67,015</td>
<td>1,39,061</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>2,56,14,328</td>
<td>3,78,41,740</td>
</tr>
<tr>
<td>Programme for Gender Technology and Trainings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IST web-Portal</td>
<td>20,99,913</td>
<td>2,85,788</td>
</tr>
<tr>
<td>Meeting of Gender &amp; Technology Division</td>
<td></td>
<td>99,645</td>
</tr>
<tr>
<td>Misc. Expenditure</td>
<td></td>
<td>49,848</td>
</tr>
<tr>
<td>Travel Expense for Gender Technology Programme</td>
<td>8,769</td>
<td>3,18,591</td>
</tr>
<tr>
<td>Workshop on Gender &amp; Technology Division</td>
<td>2,50,000</td>
<td>6,16,393</td>
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<tr>
<td>Gender Technology Programme</td>
<td>57,77,744</td>
<td></td>
</tr>
<tr>
<td>Programme of Exhibition Division</td>
<td>65,54,906</td>
<td>13,04,663</td>
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<tr>
<td>Science News Features Services</td>
<td>41,77,124</td>
<td>17,86,936</td>
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<tr>
<td>Workshop on Training Programme</td>
<td></td>
<td>6,08,069</td>
</tr>
<tr>
<td>Travelling expenditure for Training Programme</td>
<td></td>
<td>5,32,558</td>
</tr>
<tr>
<td>Transcription of Programme “EUREKA”</td>
<td>2,30,950</td>
<td>-</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>1,90,99,406</td>
<td>56,02,491</td>
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*SCHEDULE 11 continued...*
### Schedule II

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Current Year</th>
<th>Previous Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Programme of Astronomy Division &amp; Public Relation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VP News Letter (Dream 2047)</td>
<td>57,91,138</td>
<td>61,36,485</td>
</tr>
<tr>
<td>Rashtriya Vigyan Chalchitra Mela</td>
<td></td>
<td>77,78,805</td>
</tr>
<tr>
<td>Workshop of VIPRIS &amp; Lab Division</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Travel Expense VIPRIS &amp; Public relation</td>
<td></td>
<td>4,83,740</td>
</tr>
<tr>
<td>Programme on Astronomy</td>
<td>2,56,000</td>
<td>1,99,178</td>
</tr>
<tr>
<td>Meeting of VIPRIS &amp; Lab Division</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>Science @ Mobile</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Programme on Ham Radio</td>
<td>2,38,588</td>
<td>1,41,421</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>62,85,726</strong></td>
<td><strong>1,47,39,629</strong></td>
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<tr>
<td>Publication and Planning Division</td>
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<td></td>
</tr>
<tr>
<td>Editing/Translation/Manuscript Expenses</td>
<td>47,941</td>
<td>2,42,732</td>
</tr>
<tr>
<td>Meeting of Publication &amp; Planning Division</td>
<td>62,809</td>
<td>30,633</td>
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<tr>
<td>Programme Expenses Publication &amp; Planning Division</td>
<td>35,03,291</td>
<td>1,16,655</td>
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<tr>
<td>Royalty to Author</td>
<td>18,000</td>
<td>14,062</td>
</tr>
<tr>
<td>Travel Expense for Publication Division</td>
<td>43,949</td>
<td>1,12,946</td>
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<tr>
<td>VIPNET Newsletter Expenses</td>
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<td>30,554</td>
</tr>
<tr>
<td>Workshop of Publication &amp; VIPNET Division</td>
<td>39,60,992</td>
<td>9,11,057</td>
</tr>
<tr>
<td>Workshop – training division</td>
<td>20,72,691</td>
<td>-</td>
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<tr>
<td>Travel and conveyance – Training Division</td>
<td>3,56,161</td>
<td>-</td>
</tr>
<tr>
<td>Conveyance and travel – VIPNET</td>
<td>4,89,626</td>
<td>-</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>1,05,55,460</strong></td>
<td><strong>14,58,639</strong></td>
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<tr>
<td>Workshop on ST Plan</td>
<td></td>
<td></td>
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<tr>
<td>Freight</td>
<td>60,533</td>
<td>-</td>
</tr>
<tr>
<td>workshop on ST programme</td>
<td>66,73,591</td>
<td>59,83,331</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>68,289,044</strong></td>
<td><strong>692,88,154</strong></td>
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</table>

Amount in ₹
### SCHEDULE 12

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Current Year</th>
<th>Previous Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ESTABLISHMENT EXPENSES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grant in aid for defraying employee cost</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Salaries and Wages</td>
<td>3,54,85,637</td>
<td>3,45,69,387</td>
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<tr>
<td>Bonus</td>
<td>-</td>
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<tr>
<td>Contribution to Provident Fund (CPF Contribution &amp; Intt.)</td>
<td>8,90,415</td>
<td>13,67,988</td>
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<tr>
<td>Gratuity</td>
<td>5,43,436</td>
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<tr>
<td>Govt. Contribution to NPS</td>
<td>13,38,905</td>
<td>12,32,606</td>
</tr>
<tr>
<td>Others (Honorarium / Stipend)</td>
<td>13,38,905</td>
<td>12,32,606</td>
</tr>
<tr>
<td>Children Educational Allowance</td>
<td>5,61,852</td>
<td>5,86,630</td>
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<tr>
<td>Leave Encashment</td>
<td>8,12,462</td>
<td>1,36,329</td>
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<tr>
<td>LTC</td>
<td>2,41,656</td>
<td>4,22,621</td>
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<tr>
<td>Medical Expenditure</td>
<td>8,39,347</td>
<td>5,77,986</td>
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<tr>
<td>Salary to Consultant</td>
<td>4,23,500</td>
<td>4,25,125</td>
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<tr>
<td>Current years’ expense</td>
<td>4,11,37,210</td>
<td>3,93,71,172</td>
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</table>

### SCHEDULE 13

<table>
<thead>
<tr>
<th>Particulars</th>
<th>Current Year</th>
<th>Previous Year</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OTHER ADMINISTRATIVE EXPENSES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advertisement</td>
<td>9,42,477</td>
<td></td>
</tr>
<tr>
<td>Bank Charges</td>
<td>2,788</td>
<td>337</td>
</tr>
<tr>
<td>Cartage &amp; Carriage Outward</td>
<td>67,720</td>
<td>41,080</td>
</tr>
<tr>
<td>Consumables Store</td>
<td>7,66,693</td>
<td>4,53,773</td>
</tr>
<tr>
<td>News papers</td>
<td>38,938</td>
<td>36,337</td>
</tr>
<tr>
<td>Admin. Meeting Exps.</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Audit Fees to Statutory Auditor</td>
<td>33,299</td>
<td>-</td>
</tr>
<tr>
<td>Car Hire Charges</td>
<td>15,07,519</td>
<td>12,42,940</td>
</tr>
<tr>
<td>Electricity and Power</td>
<td>1,04,684</td>
<td>96,401</td>
</tr>
<tr>
<td>Expense for Foreign Tour of VP’s Officials</td>
<td>-</td>
<td>6,19,813</td>
</tr>
<tr>
<td>Hindi Pakhwada Celebration Expenditure</td>
<td>97,216</td>
<td>1,02,008</td>
</tr>
<tr>
<td>Loss on sale of asset</td>
<td>4,544</td>
<td></td>
</tr>
<tr>
<td>Maintain work Loss by Fire</td>
<td>29,71,372</td>
<td></td>
</tr>
<tr>
<td>Maintain of Web/homepage of Vigyan Prasar</td>
<td>10,87,989</td>
<td>7,51,614</td>
</tr>
<tr>
<td>Prior Period Expenditure</td>
<td>-</td>
<td>-21,996</td>
</tr>
<tr>
<td>Member Ship Fee</td>
<td>8,625</td>
<td>6,870</td>
</tr>
<tr>
<td>Office expenses</td>
<td>11,75,786</td>
<td>11,45,049</td>
</tr>
<tr>
<td>Postage Charges</td>
<td>71,170</td>
<td>2,93,783</td>
</tr>
<tr>
<td>Printing and Stationery</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Registration Fees for Attending Conference</td>
<td>28,248</td>
<td>4,000</td>
</tr>
<tr>
<td>Rent, rates &amp; taxes</td>
<td>34,07,533</td>
<td>35,83,594</td>
</tr>
<tr>
<td>Repair &amp; Maintenance</td>
<td>4,88,926</td>
<td>5,50,898</td>
</tr>
<tr>
<td>Subscription Expenses</td>
<td>69,084</td>
<td>52,091</td>
</tr>
<tr>
<td>Telephone Expenditure</td>
<td>5,11,934</td>
<td>6,46,289</td>
</tr>
<tr>
<td>Traveling and Conveyance Expenses</td>
<td>4,02,823</td>
<td>4,18,636</td>
</tr>
<tr>
<td>Sweeping charges at Delhi Office</td>
<td>27,000</td>
<td>24,000</td>
</tr>
<tr>
<td><strong>GRAND TOTAL</strong></td>
<td>1,38,16,367</td>
<td>1,00,47,516</td>
</tr>
</tbody>
</table>
SCHEDULE 14

1 Background

Vigyan Prasar, New Delhi. Vigyan Prasar (VP), an autonomous organization under the Department of Science & Technology, Government of India, was set up in 1989 to take on large-scale science and technology popularization tasks.

2 Significant accounting policies

Basis of preparation

The financial statements are prepared in accordance with the Generally Accepted Accounting Principles in India to comply with relevant Accounting Standards and relevant provisions of General Financial Rules 2005/2017, of Department of Expenditure, Ministry of Finance, and Government of India. The financial statements have been prepared on accrual basis under the historical cost convention except Gratuity, leave Encashment and other long term Employee Benefits are provided on cash basis.

Grants

Grants are accounted in accordance with AS 12 of ICAI except for the grants received for the creation of capital assets till the financial year 2015-16, which as per past practices are treated as items of income in their entirety to maintain consistency.

Since capital grants are also shown as an item of revenue in Income and Expenditure Account, assets acquired out of grant funds, to the extent of amount transferred to income statements, are charged to revenue and thus, though included in the gross block, are carried at nil value in the net block.

Grant for non-capital items are treated as revenue items and accordingly treated as income.

Fixed Assets and Depreciation

i) Fixed Assets are stated at historical cost less depreciation. Cost of acquisition is inclusive of freight, duties, taxes and incidental expenses. Depreciation is provided on WDV (Written Down Value) Method, as per rates and manner specified in the Income Tax Act, 1961.

ii) Fixed Assets created out of capital grants are carried at original cost and depreciated as provided in clause (i) above.
Inventories

Stock Items (including scientific kits, posters and dvd Disk) are value at cost. Cost is arrived at using Weighted Average cost formula.

Employee benefit plans

Contributory Provident Fund (CPF) and National Pension Scheme (NPS) are the defined contribution schemes followed by the Vigyan Prasar (Society). The contribution to these schemes are charged to Income and Expenditure Account of the year in which contribution to such schemes becomes due.

Sales

Sales of Scientific kits and books are recognized at the point of dispatch of such goods.

Notes to accounts

(1) Currents Assets, Loans and Advances

In the opinion of the Governing Body’s, the Current Assets, Loan and Advances are reflected in the balance sheet at amounts for which value is to be received.

(2) Taxation

The society is registered under section 12A (a) of the Income Tax Act, 1961. In view of there being no taxable income under Income Tax act 1961, no provision for Income Tax has been made in the Books of Account.

(3) Earmarked/Endowment (Schedule 2)

Earmarked/Endowment fund represents funds received from various organizations for execution of projects on their behalf.

Loss by fire: Consequent of five, assets whose original cost was Rs. 81,54,739 and depreciated amount was 66,47,019 were destroyed. Loss appropriately reflected in the Income and Expenditure Account.
(4) **Comparison to Previous Year**

Previous year figures have been regrouped and the rearranged wherever necessary to make them comparable.

For Manish Khanna & Co
Chartered Accountants
FRN ICAI : 008584C

sd/- sd/- sd/- sd/-
Manish Khanna, FCA, DISA (ICAI) Inderjit Singh B.K.Tyagi Dr. T.V. Venkateswaran
Partner Accounts Officer Registrar Director
Place: Nainital

Date 1 August 2018
Place: NOIDA
### ANNEXURE III

**Statement showing replies to the Audit report on the Accounts of Vigyan Prasar for the year ended 31st March 2018**

<table>
<thead>
<tr>
<th>Sl. No</th>
<th>Audit Observation</th>
<th>Reply</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><strong>To the Governing Body of Vigyan Prasar</strong>&lt;br&gt;Report on the Financial Statements&lt;br&gt;We have audited the accompanying financial statements of Vigyan Prasar which comprise the Balance Sheet as at March 31, 2018, the Income and Expenditure Account and Receipts and Payments for the year then ended, and a summary of significant accounting policies and other explanatory information.</td>
<td>Factual in nature no comments required</td>
</tr>
<tr>
<td>2</td>
<td><strong>Management’s Responsibility for the Financial Statements</strong>&lt;br&gt;Governing Body of Vigyan Prasar is responsible for the preparation of these financial statements that give a true and fair view of the financial position, financial performance and receipts and payments account of the Company in accordance with the Accounting Standards prescribed by ICAI. This responsibility includes the design, implementation and maintenance of internal control relevant to the preparation and fair presentation of the financial statements that are free from material misstatement, whether due to fraud or error.</td>
<td>Factual in nature no comments required.</td>
</tr>
</tbody>
</table>
Auditor’s Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with the Standards on Auditing issued by the Institute of Chartered Accountants of India. Those Standards require that we comply with ethical requirements and plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement. An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor’s judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error.

In making those risk assessments, the auditor considers internal control relevant to the entity’s preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity’s internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of the accounting estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our qualified audit opinion.
<table>
<thead>
<tr>
<th></th>
<th align="center"><strong>Un qualified Opinion</strong></th>
<th align="center">It is an audit opinion as such no comments required</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td align="center">In our opinion and to the best of our information and according to the explanations given to us, the financial statements give the information required by the Act in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India: (a) in the case of the Balance Sheet, of the state of affairs of the entity as at March 31, 2018; (b) in the case of the Income and Expenditure Account, the surplus for the year ended on that date; and (c) in the case of the Receipts and Payments Account, the receipts and payments reflected therein</td>
<td align="center"></td>
</tr>
<tr>
<td>5</td>
<td align="center"><strong>Other Matters</strong></td>
<td align="center">Settlement of advances is a continuous process. The advances are largely given for the activities having life span of more than one year as such remained unadjusted. This can also be corroborated from the fact that as on 8 October 2018, out of the outstanding advances pointed by Auditor, a sum of Rs. 2575206/- has been adjusted leaving an unadjusted balance of Rs. balance of for more than one year is Rs. 6681795/-. The rest of the cases of advances given are under consideration for settlement</td>
</tr>
<tr>
<td></td>
<td align="center">Sundry debtors and advances amounting to Rs 92,57,001.35 given to partner agencies or service providers for content development remain unadjusted for more than 1 year. Our opinion is not qualified with respect to matters stated here</td>
<td align="center">It is an audit opinion as such no comments required</td>
</tr>
<tr>
<td><strong>Emphasis of matter</strong></td>
<td align="center">It is an audit opinion as such no comments required</td>
<td align="center"></td>
</tr>
<tr>
<td>------------------------</td>
<td align="center">-----------------------------------------------------</td>
<td align="center"></td>
</tr>
<tr>
<td>Consequent to fire, assets whose original cost was Rs. 81,54,739/- and depreciated amount was Rs. 6647019/- were destroyed. Loss is appropriately reflected in the Income and Expenditure account. Our opinion is not qualified with respect to matters stated here</td>
<td align="center"></td>
<td align="center"></td>
</tr>
</tbody>
</table>