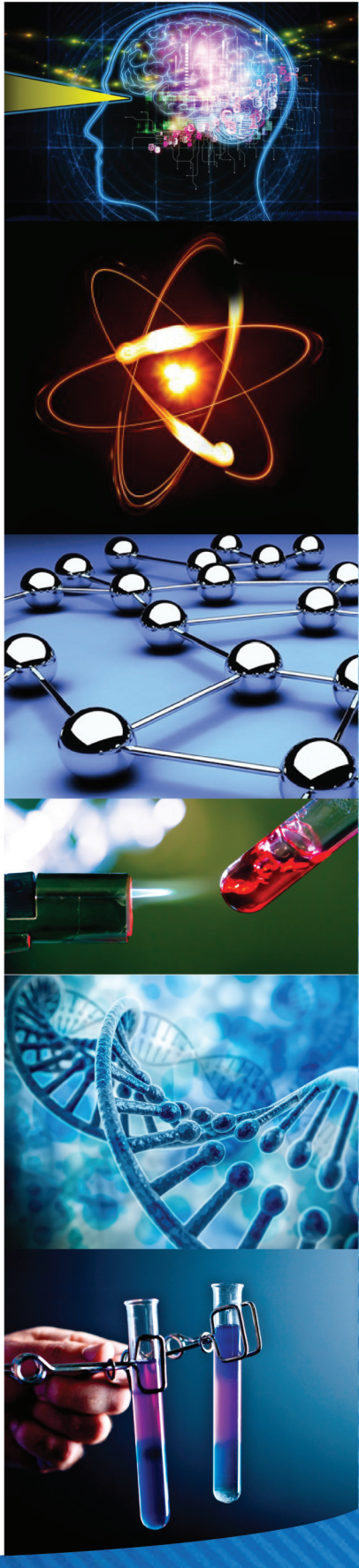

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விஞ்ஞான, தொழில்நுட்பவியல் மற்றும் ஆராய்ச்சி அமைச்சு

Ministry of Science, Technology and Research

2016

වාර්ෂික කාර්යසාධන වාර්තාව

வருடாந்த செயலாற்றுகை அறிக்கை

Annual Performance Report

Annual Performance Report 2016

Ministry of Science Technology and Research

Compiled on the instructions of

Public Finance Circular No.402 dated12th September 2002

CONTENTS

VISION

Sri Lanka becomes a scientifically and technologically advanced country by the year 2020

MISSION

To formulate and implement policies pertaining to the popularization and advancement of science and technology, including scientific research and development and transfer of technologies, to ensure improved quality and productivity so as to upgrade economic activities, which are essential for the economic and social development of Sri Lanka.

1. INTRODUCTION

Advanced industrial economies around the world are steadily moving towards high-end technologies ensuring sustainable economic growth. Technological innovations are recognized as an important contribution for a country to develop and to compete with the global market both in the product and services sectors. New technologies bring value addition to the raw material based exports. Infusion of technology and innovation in relevant sectors of the economy is therefore vital not only to compete with the global market but also to achieve national development objectives of the country.

Accordingly, the Ministry of Science, Technology and Research plays a significant role in contribution of National Development goals specially by being able to guide Public Research Institutes to engage in demand driven research, research commercialization, promoting inventions and innovations, facilitating standards and certification etc. In order to perform this task, the Ministry continued to accord the highest priority to create a link between research, research funding and development priorities.

In terms of the assignment of subjects and functions made by H. E. the President under Article 44 (1)(a) of the Constitution and published in Gazette Extraordinary 1933/13 of 21st September 2015, the Minister of Science, Technology and Research was vested with the following subjects and functions-

- Formulation of policies, programmes and projects, monitoring and evaluation in regard to the subjects of science, technology and research and those subjects that come under the purview of Departments, Statutory Institutions and Public Corporations vested in the Ministry
- Provision of necessary facilities for local research and discoveries to fall in line with new discoveries made in research conducted in the fields of science and technology internationally
- Adoption of measures to expand scientific, technical and development activities
- Provision of facilities to research and research institutes to plan and conduct research
- Provision of information on findings and knowledge from new research and discoveries, including nano and biotechnology, to relevant stakeholders including the business community
- Activities related to establishment of standards and administration
- Provision of technical assistance to research programmes conducted by research institutions under the purview of the Ministry
- Adoption of measures to guide and motivate the community towards new discoveries
- Implementation of research for the promotion and development of construction industry
- Matters relating to all other subjects assigned to institutions vested in the Ministry
- Supervision of the Organizations vested in the Ministry

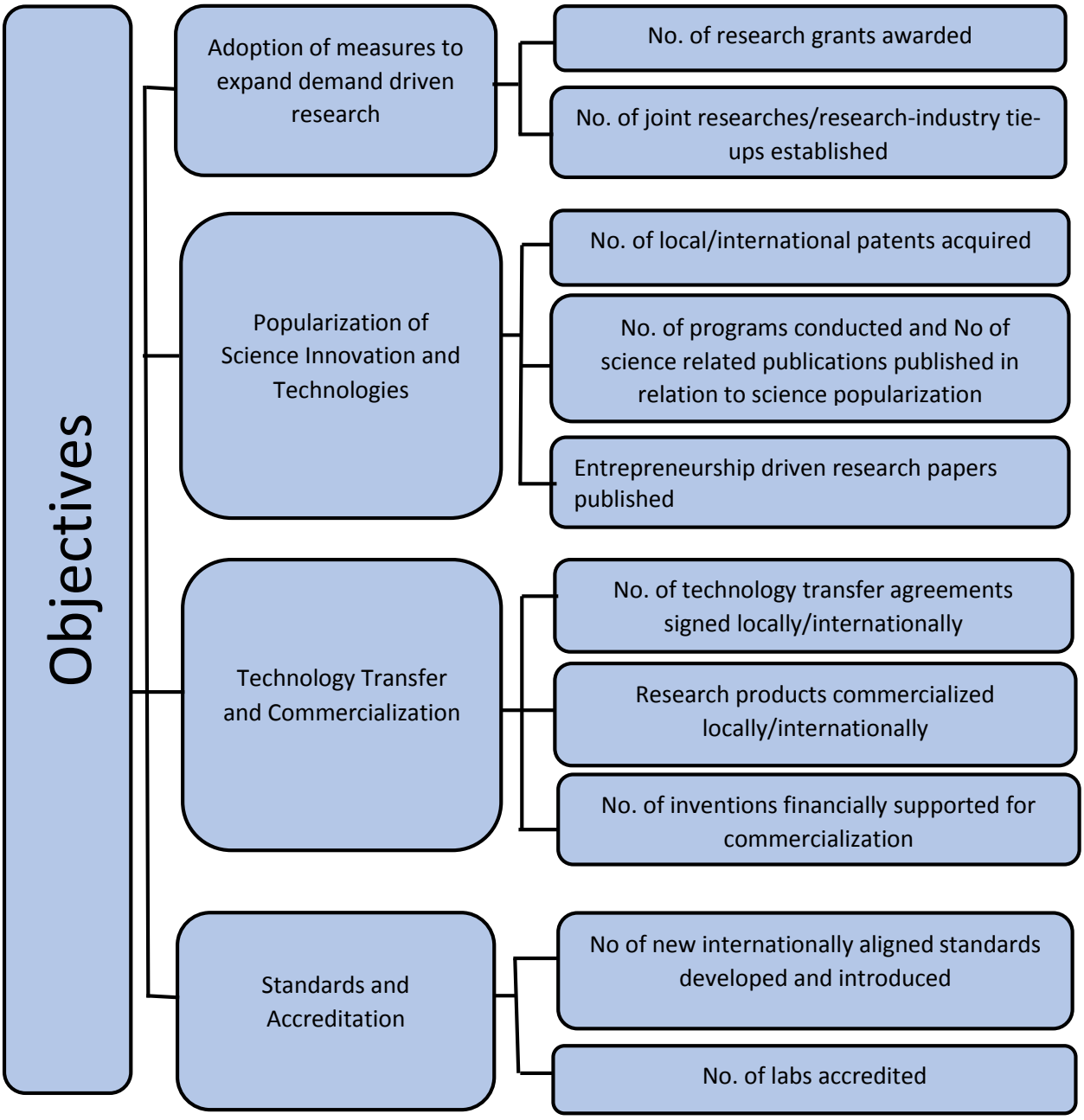
Following Institutions comes under the purview of the Ministry of Science, Technology and Research.

- Arthur C. Clarke Institute Modern Technologies
- Industrial Technology Institute
- National Engineering Research and Development Centre
- National Institute of Fundamental Studies
- National Research Council
- National Science Foundation
- National Science and Technology Commission

- Sri Lanka Accreditation Board for Conformity Assessment
- Sri Lanka Inventors Commission
- Sri Lanka Standards Institution
- Sri Lanka Institute of Nanotechnology (pvt) Ltd (SLINTEC)

This report is prepared in accordance with the Guidelines set out in section 3.2 "Annual Performance Report" of the Treasury Circular No. 01/2004 of 24.02.2004 and include the performance that has achieved during the period from January to December 2016 in Administration, Financial as well as development progress in terms of the financial allocation provide to the Ministry.

1.1 Objectives and Key Performance Indicators of the Ministry



2. ORGANIZATIONAL ARRANGEMENT

The Ministry consists of eight divisions such as:

1. Administration and Finance Division
2. Technology Transfer Division
3. International Relations Division
4. Science and Research Development Division
5. Planning Division
6. Internal Audit Division
7. Sri Lanka Planetarium
8. Coordinating Secretariat for Science, Technology and Innovation (COSTI)

2.1 Administration and Finance Division

Responsibility of this division is office administration, Human Resource Management, Financial Management and Procurement of the Ministry and the Institutes come under the Ministry in terms of delegation of authorities.

2.2 Technology Transfer Division (Vidatha Programme)

Responsibility of this division is to transfer scientific knowledge and technologies to the Micro, Small and Medium Entrepreneurs at grassroots level through 266 Vidatha Resource Centres.

2.3 International Relations Division

Responsibility of this division is to facilitate the international collaborations on Science, Technology and Innovation fields.

2.4 Science and Research Development Division

Responsibility of this division is to facilitate to prepare and implement Research and Development Strategic Framework.

2.5 Planning Division

Responsibility of this division is to facilitate planning, monitoring, reviewing and reporting development activities of the Ministry and Institutions come under the Ministry.

2.6 Internal Audit Division

Responsibility of this division is to contribute for the strengthening of the internal control system in order to smooth functioning of the Ministry.

2.7 Sri Lanka Planetarium

Responsibility of this division is to provide the most effective means of explaining astronomical phenomena, which are difficult to express with only a black board and it provides spectators with a deeper knowledge about the Universe by Planetarium shows, outdoor programs such as mobile planetarium presentations, night sky observation camps and facilitates to join Astro IT unit.

2.8 Coordinating Secretariat for Science, Technology and Innovation (COSTI)

Responsibility of this division is to work towards promoting value addition and commercialization in line with the National Science Technology and Innovation (STI) Strategy of Sri Lanka.

3. PERFORMANCE OF THE MINISTRY IN THE YEAR 2016

3.1 Administration and Finance Division

3.1.1 Cadre Information as at 31.12.2016

Level	Approved Cadre	Existing Cadre	Deficit/Excess Cadre (if any)
Senior level	26	23	Vacant 04
Tertiary level	32	6	-
Secondary level	753	663	Vacant 90
Primary level	245	318	Vacant 02
Total	**1056**	**1010**	

3.1.2 Cadre changes in 2016

Designation	Approved Cadre	transferred	pensioned	Resigned
Senior Level	26	0	0	0
Tertiary level	32	3	0	0
Secondary level	753	19	2	0
Primary level	245	3	3	0
Total	**1056**	**25**	**5**	

3.1.3 Training

3.1.3.1 Foreign Training 2016

No. of Programmes	No. of Staff Officers Participated	No. of other officers Participated	Total Cost incurred by Ministry(Rs.)
28	17	07	9,393,407.25

3.1.3.2 Local Training: - Training, Workshop and Seminar

No. of Programmes	No. of Participants	Cost incurred by Ministry (Rs.)
13	33	396,600.00

3.2 Technology Transfer - Vidatha Programme

The total Capital Budget allocations made to the Vidatha Programme for 2016 were Rs. 71Mn. And expenditure is Rs. 63.106 Mn.

3.2.1 Main activities undertaken by Vidatha during the year 2016

- Technology Transfer Programmes
- Science and Technology Special Projects for Rural Community
- Vidatha Haritha Kadamandiya Programme
- Toxic free traditional food programme
- Capacity Building for Vidatha Staff
- Science Popularization
- Construction of Vidatha Resource Centres

3.2.1.1 Technology Transfer Programmes

	Description of the Programme		No. of Programmes	No. of Beneficiaries	Expenditure (Rs.)
1.	Technology for Community	Public Awareness Programmes	2098	39862	11,750,000.00
2.	Technology for entrepreneurs	Technology Transfer Programmes • Food based Technology • Material based technology • Chemical based Technology • Agriculture	3506	76963	

3.2.1.2 Science and Technology Special Projects for Rural Community

Serial No.	Project Title	VRC	No. of Beneficiaries	Expenditure (Rs.)
01.	Organic farming	235 VRCs	General Public	4,70,000.00
02.	Milk based products	Vengalacheddikulam Puthukudiirippu	10 03	2,95,750.00 4,05,420.00
03.	Biogas Production	Kesbawa Biyagama Mahawewa (Siviraja Children's Home)	General Public at Divisional Secretariats 100	1,42,000.00
04.	Mushroom Cultivation	Haldummulla	10	2,40,000.00
05.	Mushroom Cultivation	Meegahakivula	05	1,52,000.00
06.	Cut Flower Production	Uwa Paranagama	10	2,91,230.00
07.	Cut Flower Production	Welimada	12	3,49,476.00
08.	Incense sticks Production	Nattandiya	22	36,000.00
09.	Develop internal facilities at Vidatha Stall	Bandaragama	General Public at Divisional Secretariat	1,91,908.00
10.	Exercise book production	Madurawala	10	12,000.00
11.	Candle Production	Gampaha	06	17,800.00

12.	Gingerly rolls production using machinery	Mahara	01	3,75,000.00
13.	Modern technology for yoghurt production	Dompe	01	100,000.00
14.	Milk based products	Mannar Town	06	3,93,600.00
15.	Mushroom seed production	Mawanella	110	1,354,680.00
16.	"Ape Mehewara Obe Dathata" inform training Programmes through SMS	Ipalogama	General Public at Divisional Secretariat	5,000.00
17.	Cut flower industry in net houses	Panduwasnuwara - East		2,49,925.00
18.	Reed based products	Angunakolapelessa	07	26,349.50
19.	Boron treated Bamboo	Angunakolapelessa	06	1,55,000.00
20.	Passion Fruit cultivation and Plant Nursery	Okewela	75	42,750.00
21	Marketing facilities for Vidatha stall	Thumpane	58	18,882.00
22.	Animal food production	Minipe	01	38,000.00
23.	Biogas Unit	Nochchiyagama	01	43,480.00
24.	Incense sticks Production	Sandilipay	09	200,000.00

Incense sticks Production at Nattandiya

3.2.1.3 Vidatha Haritha Kadamandiya Programme

Programme	Place	No. of entrepreneurs	Expenditure (Rs.)
One National Programme	Industrial Technology Institute premises	65	3,81,346.25
Eight District level programmes	Hambanthota, Kalutara, Kandy, Matale, Rathnapura, Ampara, Kurunegala, Colombo	482	1,335,685.00

3.2.1.4 Toxic free traditional food programme

- Training programme organized for all Science and Technology Officers and entrepreneurs assisting pilot project
- Training programme organized for Science and Technology Officers and entrepreneurs in Western Province
- Sales outlets were initiated in Thumpane, Mahara, Maharagama, Colombo, Thihagoda and Kanthale Vidatha Resource Centres

3.2.1.5 Capacity Building for Vidatha Staff

Staff Category	Title of the Workshop	Resource Institute	Place	No. of Participants	Expenditure (Rs.)
Field Coordinators	Workshop on Productivity	National Productivity Secretariat	Sri Lanka Foundation Institute	250	5,88,250.00
Office Assistants	Workshop on Productivity	National Productivity Secretariat	Sri Lanka Foundation Institute	199	5,05,750.50
Science and Technology Officers	Workshop on herbal products	Industrial Technology Institute	Industrial Technology Institute	07	6,30,000.00

3.2.1.6 Science Popularization

- Tamil translation of Vidatha "Atha Huruwa" Technology Hand Book ready to print for facilitating entrepreneurs who used Tamil as native language
- 364 articles were published in "Prabashwara" Blog to enhance Scientific knowledge among young generation

Opening of new VRCs

Nallur VRC

Sainthamaruthu VRC

Sandilipai VRC

3.2.1.7 Other Technology Transfer Activities

- Technology Clinic was held in Colombo and Gampaha Districts to address technology issues pertaining to the 161 entrepreneurs. Problem solving was done by National Engineering and Research Development Centre, Industrial Technology Institute, Sri Lanka Standards Institute and Export Development Board
- Issued 55 GMP Certificates and 15 Vidatha System Certificates collaborative with SLSI to improve quality of Vidatha products in Food, Herbal, Agriculture and Electrical field.

3.3 Technology and Research Development

3.3.1 Scientific Development Programme

3.3.1.1. Investment on Research and Development

- **STS Forum**

During the official visit of Hon. Prime Minister to Japan, he had attended the inauguration of "Science and Technology (STS) for Society 2016 Forum" and delivered the keynote speech. Hon. Minister of Science, Technology and Research had also attended the STS Forum held from 5th to 7th October 2015 in Japan. Considering the benefits acquirable, the Hon. Prime Minister instructed the Ministry to organise a Forum on Science and Technology for Sri Lankan Society and to hold the same in 2016.

The main objective of conducting this Forum is to facilitate to explore the opportunities for the Sri Lankan Society from global Science and Technological developments; discuss the role of Science and Technology in Sri Lankan society; and Analysing barriers in adopting Science and Technology in our society.

During this Forum, it addressed themes in line with the Sustainable Development Goals (SDGs) and highlighted the specific areas of interests such as, Citizen Science, advance technology based solutions, basic science, capacity building in Science Technology Innovations, Science and Technology funding and Sri Lankan Innovation platform etc.

This Forum was conducted in Colombo from 8th to 10th September 2016, while the Inauguration Ceremony of the same held on 7th September 2016. The Forum was attended by prominent international experts and organizations including Chairman of the STS Forum in Japan; Officers of Economic and Social Commission for Asia and Pacific (ESCAP); UNESCO, CERN etc.

His Excellency the President graced the Inauguration Ceremony and other dignitaries. The Inauguration Ceremony was attended by 1500 guests including Scientists, Researchers at national and international level and, Technologists, Industrialists, University and School students.

For the Forum, the total number of participants were 650, out of which about 100 were from foreign countries including the eminent Sri Lankan Expatriate Scientists. The Sri Lankan participants included Scientists, Government and private sector Technologists and Industrialists, Inventors and Innovators, University Students and Upper grade Students in local schools.

STS Forum

- **Science Popularization**
  - Organized the stalls for the exhibition on “Vasa Visa Nethi Ratak ’’.
  - Collaborative Science and Technology Educational Exhibitions with the Ministry of Education.
  - Published 10 trilingual monthly paper supplement (Vidya) with Associated Newspapers of Ceylon Limited.

“Vidya” Newspaper

3.3.1.2 Bilateral Cooperation

Indo Sri Lanka Science and Technology Collaboration

In September 2011, the Ministry entered a Program of Cooperation (PoC) with the Department of Science and Technology, India where provisions were made for the scientists in both countries to engage in joint collaborative research and workshops. Nine Research projects were started and the midterm progress review meeting was held in 11thMay 2016. Seven projects out of the eight projects which are receiving funds from the Governments are completed in 2016. One Project was extended up to mid-2017.

- **Indo - Sri Lanka joint Committee on Science and Technology**

The 3rd meeting of the Sri Lanka India Joint Committee on Science and Technology was held on 04th August 2016 in New Delhi, India between the Ministry of Science, Technology and Research, Sri Lanka and the Department of Science and Technology, India. During the meeting a new PoC was discussed and concluded. The new PoC addresses many new areas of cooperation and both parties agreed to actively take part in implementing the PoC. The areas agreed include Food Technology, Plant based medicine, Metrology, Space research and application, Robotics and Automation and Industrial Electronics. It was agreed to call for research proposals in 2016 and to fund them after selection from 2017 onwards.

According to the PoC a joint call for proposals was made by both Countries. By the deadline, the Ministry had received 90 proposals for Joint Research and 8 proposals for Joint Workshops.

- **Indian Scientific and Research Fellowship Programme (ISRF)**

The Science and Technology Ministry of India had initiated a program to offer fellowships to Sri Lankan scientists and researchers through the "Indian Scientific and Research Fellowship programme (ISRF)". The details of the programme were posted in websites of the Ministry of Science, Technology and Research, National Science Foundation and National Science and Technology Commission and also advertised in the newspapers. Seven applications were received and after an evaluation by an expert team, four applications were sent to Indian authority for approval to offer fellowships.

Pakistan Sri Lanka Science and Technology Collaboration

- **First Sri Lanka Pakistan Science and Technology Committee**

First Meeting of the Sri Lanka Pakistan Science and technology Committee was held in Colombo on 17th November 2016 with the ministry of Science and technology of Pakistan. During the Meeting a program of Cooperation was concluded.

- **Agreements and MoUs signed and initiated**

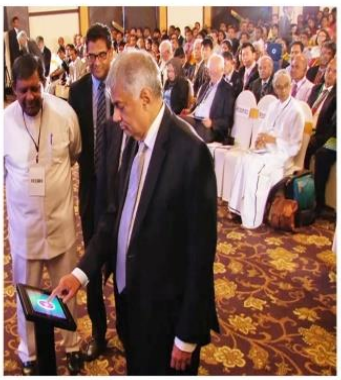
The Ministry of Science, Technology and Research, Sri Lanka and the Ministry of Science and Technology, Pakistan signed a MoU on "Science, Technology and Innovation Cooperation" and facilitated the MoU for Scientific and Technological cooperation between the National Science Foundation of Sri Lanka and Pakistan Science Foundation on 05th January 2016.

Other Collaborations

The Ministry facilitated the MoU between the National Science Foundation of Sri Lanka and the National Natural Science Foundation of China.
Agreements on Science, Technology and Innovation have been initiated With Ecuador, Belarus, Latvia, New Zealand, Cuba and Slovenia. Cooperation Agreement with European Organization for Nuclear Research (CERN) was also being discussed for signature.

3.3.1.3 Development Initiatives by COSTI

- National Biotechnology Industry Association, which was coordinated by COSTI and positioned within Ceylon Chamber of Commerce was formally launched on the opening day of STS Forum.



- Production and launch of Innovation Eye (the newsletter was launched at the STS Forum).

- Meeting with KIPO/KIPA on Appropriate Technology Development Project, on 14th November, 2016 at NEDA Auditorium.

- COSTI Received the E-Swabimani Award for 2016 for Sri Lanka Innovation Dash Board.

3.4 Planetarium

The total Capital Budget allocations made to the Planetarium Programme for 2016 were Rs. 22.2 Mn. And expenditure is Rs. 3.49 Mn.

The Planetarium Presentations, Outdoor Programs and Astronomy Classes & Seminars were conducted by the planetarium in the year 2016.

3.4.1 Planetarium Presentations

The planetarium shows including astronomy related full dome films, introduction to the solar system and presentation of day today night sky were conducted by the planetarium for school children and general public through the year 2016 by exceeding the targets. As well as that, some special planetarium shows for differently-abled students were specially conducted to encourage them to enjoy life experiences and get them out from their limited boundaries.

Targets and Achievements for the Year 2016 of General Planetarium Presentations

Activity	Targets for the Year 2016			Achievements for the Year 2016		
	No. of Shows	No. of Participants	Income (Rs. Mn)	No. of Shows	No. of Participants	Income (Rs. Mn.)
Planetarium Shows for School Children & Public	400	200,000	7.5	491	213,978	11.21
Special Planetarium Shows and Demonstration of Launching Water Rockets	5	2000	Free of Charge	5	2,096	Free of Charge

Planetarium Presentation

Presentation for Differently-abled

3.4.1.1 Outdoor Programmes

Mobile Planetarium Shows for students in rural areas, Night Sky Observation camps at schools as well as planetarium premises and Special Natural Phenomena Observation Camps were conducted by the planetarium all over the country throughout the year to enhance the knowledge among astronomy interesting society. All these programmes were conducted free of charge, considering it is a social responsibility. The expected targets for outdoor programmes achieved by the planetarium are summarized in the following table.

Targets and Achievements for the Year 2016 of Outdoor Programmes

Outdoor Programmes	Targets for the Year 2016		Achievements for the Year 2016	
	No. of Programmes	No. of Participants	No. of Programmes	No. of Participants
Mobile Planetarium Shows	300	11000	380	11,950
Night Sky Observation Camps	10	1500	10	1,300
Natural Phenomena Observation Camps	01	100	1	150

Mobile Planetarium Show

Night Sky Observation

"Astro Kids" program

3.4.2 Astronomy Classes & Seminars

The free of charge “Astro- IT” course and “Astro Kids” program were successfully completed by 170 school children who showed great improvement in their knowledge on Astronomy and Space Science during the year 2016. The free of charge seminars for Astronomy Olympiad International Exam were conducted by the planetarium for more than 130 students and we are proud to announce that 25 students won the medals including 2 gold medals.

3.5 Sri Lanka Institute of Nanotechnology (SLINTEC)

The total Capital Budget allocations made to the SLINTEC Programme for 2016 were Rs. 544 Mn. And expenditure is Rs. 303.154 Mn.

3.5.1 programs conducted during 2016

Strategic research projects conducted

- Research on Titanium
  The project is on extraction of Titanium from Ilmenite through a new extraction method. SLINTEC plans to develop pilot plant in 2017.
- Research on Thorium
  The project is on Extraction of Thorium and rare earth oxide from Monazite sand. SLINTEC has developed lab scale process and next step is to do the scaling up.
- Research on Synthetic Chemistry
  SLINTEC has applied for GLP certification during the year and also is working on developing an Active Pharmaceutical Ingredient manufacturing capability.
  SLINTEC started following strategic research projects during the year which were funded by the government
- Research on Carbon Nano Fibre
  The project focuses on developing Carbon Nano Tube (CNT) Yarn which is used in many industries as powerful advanced material.
- Research on Graphite

The project researches on generating Graphene Oxide and Graphene from Sri Lanka vein graphite.

In September 2016 SLINTEC started the operations in the Technology Incubation Center (TIC) and two tenants have already signed agreements to occupy TIC space for their research labs and one tenant has already establish their research lab in the TIC. Discussions are ongoing with potential new clients.

During 2016 SLINTEC started the construction of a state of the art Greenhouse in collaboration with the Yunnan Rural Science and Technology Transfer Service Centre. The Greenhouse will be powered by solar and will use aeroponics and hydroponics which new technologies for plant growth.

SLINTEC has started a science clinic at the Export Development Board to support exporters in applying advanced science and engineering in their manufacturing. Meetings are held regularly in disseminating advanced science and engineering knowledge to exporters.

MOU's were signed during the year with Wayamba, Moratuwa and Sri Jayewardenepura Universities to share the laboratory facilities and advanced equipment at SLINTEC.

During 2016 SLINTEC filed 4 International US patents. In addition, we have published 12 papers in internationally recognized journals. In 2016 SLINTEC was also highlighted in the Forbes Asia magazine.

In addition, we engaged in discussion with over 20 corporate clients and started 3 research engagements. As part of a successful out come to our apparel research a patent application was made and is current being negotiated for sale.

Two Nanotechnology Certificate Courses were held during the year to enhance the knowledge in Nanotechnology among industries in Sri Lanka. (63 participants)

During 2016 more than 2,000 individuals have visited SLINTEC including school children and teachers, university students and lecturers, government officials, industrialists, private sector officials and foreign delegates.

3.6 Implementation of Budget Proposals of year 2016

Proposal No.	Proposal	Proposed amount through Budget Speech (Rs. Mn)	Released (Rs. Mn)	Utilized (Rs. Mn)	Progress (In words)
361	Support and assist research in Diabetes, Dengue, CKDu and Cancer by the National Science Foundation	250	50	50	• Prepared comprehensive concept paper • Funded 1st instalment for the prioritized projects • Paid monthly allowances for Research Fellows and Research Scientists
371	Seed Capital for Innovation Accelerator Fund to setup an platform named Innovation Accelerator combining National Innovation Programs, National Thematic Research Program and the Technology Support Schemes	100	-	-	• A survey on Incubators and related systems in Sri Lanka has been completed and prepared survey document • Draft guideline on utilizing the Fund has been prepared and under discussion
528	Strengthening Sri Lanka Standards Institute, Industrial Technological Institute and Pharmaceuticals Research Laboratory by increasing the technical cadre and the laboratory facilities in order to ensure the quality of important products	200	50 ITI	8.631	• Purchased Ultra High Performance Liquid Chromatography (UHPLC) for the lab
			SLSI	3.157	• Purchased Biological Safety Cabinet for the lab • Purchased 20 desktop computers for Single window system

3.7 Audit and Management Committee Meeting

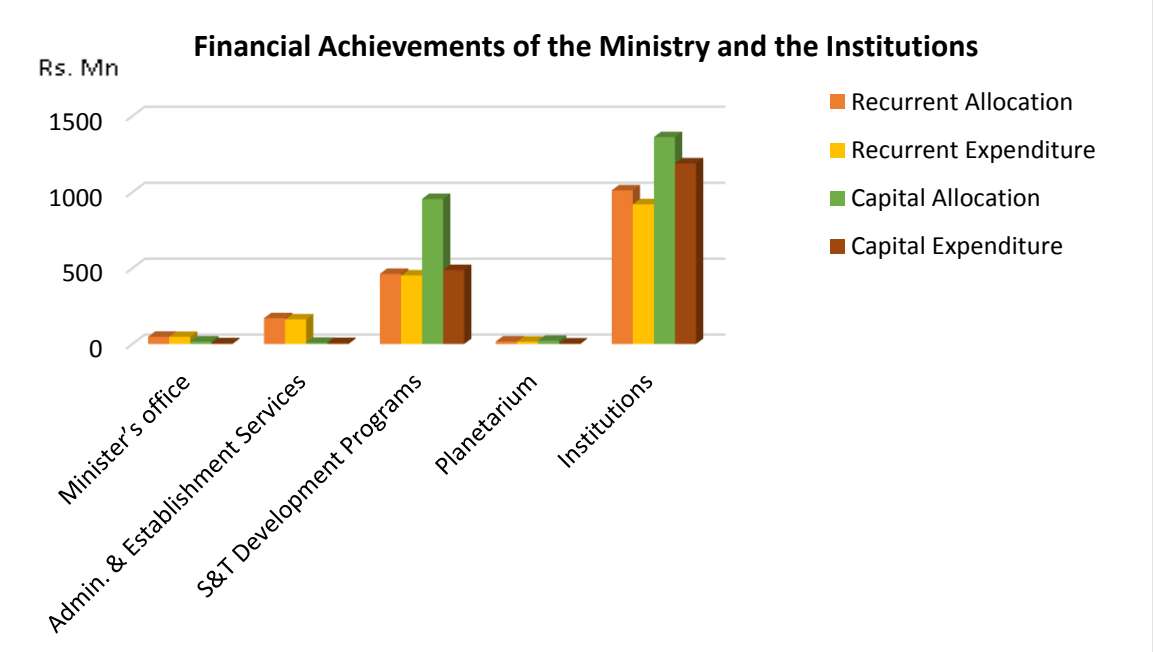
The Audit and Management Committee met four times during the year 2016. The audit committee invited Treasure representative, audit superintendent of Auditor General's Department and also invited senior officials of institutions come under the purview of the Ministry. The audit committee inter alia engaged in the following activities during the financial year under review.

- Submission of annual report to the Parliament.
- Review the internal audit program for the Ministry and the institution.
- Review of the internal audit reports and external audit reports (Auditor General's).
- Review of the implementation arrangement of recommendation made by Board of Survey.
- Submission of procurement plan, bank reconciliation etc.

4. FINANCIAL ACHIEVEMENTS OF THE YEAR 2016

4.1 Summary of Financial Achievements of the Ministry and the Institutions

Description	Allocation		Expenditure	
	Recurrent (Rs. Mn)	Capital (Rs. Mn)	Recurrent (Rs. Mn)	Capital (Rs. Mn)
Minister's office	47.863	17.000	47.304	5.273
Administration & Establishment Services	170.517	8.700	162.796	7.351
Science & Technology Development Programs	463.129	956.338	452.783	488.344
Planetarium	17.000	22.200	15.691	3.490
Institutions	1013.000	1362.500	921.636	1189.585
Total	**1711.509**	**2366.738**	**1600.210**	**1694.043**



4.2 Recurrent Expenditure of the Ministry

Ministry: Science, Technology and Research

Head No: 196

Category – Personal Emoluments & Other Recurrent

Description	Allocation (Rs. Mn)	Total Expenditure (Rs. Mn)	Balance (Rs. Mn)
Minister's Office			
Personal Emoluments	18.494	18.397	0.097
Other Recurrent	29.369	28.907	0.462
Sub Total	**47.863**	**47.304**	**0.559**
Administration & Establishment Services			
Personal Emoluments	57.962	57.380	0.582
Other Recurrent	112.555	105.416	7.139
Sub Total	**170.517**	**162.796**	**7.721**
Science & Technology Development Programms			
Personal Emoluments	401.458	398.769	2.689
Other Recurrent	61.671	54.014	7.657
Sub Total	**463.129**	**452.783**	**10.346**
Planetarium			
Personal Emoluments	7.630	7.527	0.103
Other Recurrent	9.370	8.164	1.206
Sub Total	**17.000**	**15.691**	**1.309**
Total	**698.509**	**678.574**	**19.935**

4.3 Recurrent Expenditure of the Institutions

Ministry: Science, Technology and Research

Head No: 196

Category – Personal Emoluments & Other Recurrent

Description	Allocation (Rs.Mn)	Total Expenditure (Rs.Mn)	Balance (Rs.Mn)
Public Institutions			
Arthur C Clarke Institute for Modern Technologies	112.000	92.878	19.122
National Institute of Fundamental Studies	186.900	181.000	5.900
Industrial Technology Institute	233.000	233.000	0
National Engineering Research & Development Center	252.100	214.795	37.304
National Research Council	19.000	16.679	2.321
National Science Foundation	136.000	113.249	22.751
National Science &Technology Commission	25.000	23.557	1.443
Sri Lanka Accreditation Board	17.000	15.701	1.299
Sri Lanka Inventors Commission	32.000	30.766	1.224
Total	**1013.000**	**921.636**	**91.364**

4.4 Capital Expenditure of the Ministry

4.4.1 Ministry: Science, Technology and Research

Head No: 196

Category: Rehabilitation and Acquisition

Description	Allocation (Rs Mn)	Total Expenditure (Rs Mn)	Balance (Rs Mn)
Minister's Office			
Rehabilitation	5.000	2.626	2.374
Acquisition	12.000	2.647	9.353
Sub Total	**17.000**	**5.273**	**11.727**
Administration & Establishment Services			
Rehabilitation	2.700	1.641	1.059
Acquisition	4.000	3.782	0.218
Capacity Building	2.000	1.928	0.072
Sub Total	**8.700**	**7.351**	**1.349**
Total	**25.700**	**12.624**	**13.076**

4.4.2 Ministry: Science, Technology and Research

Head No: 196

Category: Rehabilitation and Acquisition

Description	Allocation (Rs Mn)	Total Expenditure (Rs Mn)	Balance (Rs Mn)
S & T Development Programmes			
1.Vidatha Programme			
Rehabilitation	9.150	8.305	0.845
Acquisition	32.150	31.083	1.067
Knowledge Transfer Programme	30.000	23.718	6.282
Sub Total	**71.300**	**63.106**	**8.194**
2.Scientific Development Programme			
S&T Popularization Programme	4.900	3.739	1.161
Scientific Training	6.000	5.589	0.411
S&T collaboration with other countries	45.100	43.865	1.235
Science & Technology collaboration	2.030	2.022	0.008
COSTI	2.008	1.290	0.718
Sub Total	**60.038**	**56.505**	**3.533**
3. Nanotechnology			
Investments	544.000	303.154	240.846
Sub Total	**544.000**	**303.154**	**240.846**
4. Techno Entrepreneurship Development			
Investments	2.000	0.790	1.210
Sub Total	**2.000**	**0.790**	**1.210**
5. Implementation of R&D Investment Framework			
Investments	4.000	3.000	1.000
Sub Total	**4.000**	**3.000**	**1.000**

6. Assist Research in Diabetes Dengue CKDU& Cancer			
Investments	50.000	50.000	0
Sub Total	**50.000**	**50.000**	**0**
7. Plant Machinery & Equipment (SLSI& ITI)			
Investments	50.000	11.789	38.211
Sub Total	**50.000**	**11.789**	**38.211**
8.Establishment of National Science center			
Investments	175.000	0	175.000
Sub Total	**175.000**	**0**	**175.000**
9.Planetarium			
Rehabilitation	11.000	0.699	10.301
Acquisition	11.000	2.721	8.279
Installation of a 4D Digital projector	0	0	0
Capacity Building	0.200	0.070	0.130
Sub Total	**22.200**	**3.490**	**18.710**
Total	**1004.238**	**504.458**	**499.780**

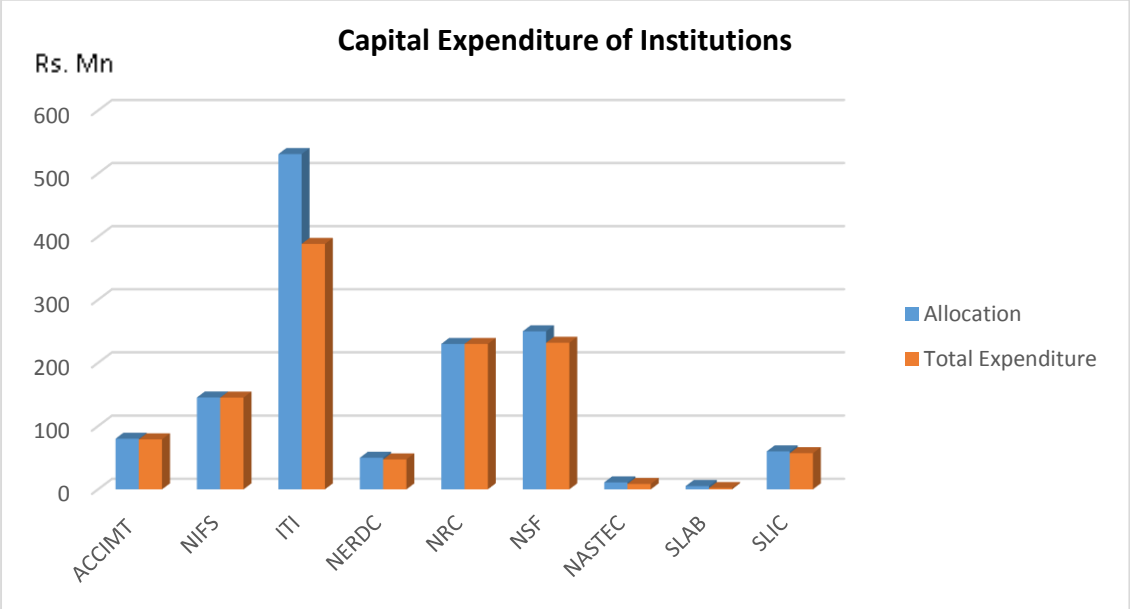
4.4.3 Capital Expenditure of Institutions

Ministry: Science, Technology and Research

Head No: 196

Category: Rehabilitation and Acquisition and other Capital Expenditure

Description	Allocation (Rs Mn)	Total Expenditure (Rs Mn)	Balance (Rs Mn)
Public Institutions			
Arthur C. Clarke Institute for Modern Technologies (ACCIMT)	80.000	79.043	0.957
National Institute of Fundamental Studies (NIFS)	145.300	144.999	0.300
Industrial Technology Institute (ITI)	531.000	388.531	142.469
National Engineering Research & Development Center (NERDC)	50.000	47.345	2.655
National Research Council (NRC)	230.000	230.000	0
National Science Foundation (NSF)	250.000	231.815	18.185
National Science &Technology Commission (NASTEC)	11.000	8.603	2.397
Sri Lanka Accreditation Board (SLAB)	5.200	2.000	3.200
Sri Lanka Inventors Commission (SLIC)	60.000	57.249	2.751
Sub Total	**1362.5**	**1189.585**	**172.914**



4.5 Advanced Accounts

Maximum limits of expenditure of activities of the Government SLRs	Minimum limits of Receipts of Activities of the Government SLRs	Maximum ,Limits of Debit Balance of the Activities of the Government SLRs
25,000,000.00	10,000,000.00	75,000,000.00

3 වන මහල, සෙත්සිරිපාය, 1 වන අදියර, බත්තරමුල්ල
3rd Floor, Sethsiripaya, 1st Stage, Battaramulla
3 வது மாடி, செத்சிரிபாய, முதலாம் பிரிவு, பத்தரமுல்லை