

Annual Performance Report

2012



Ministry of Technology and Research
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Content

	Pages
a) Introduction	1
Vision & Mission	2
Assignment of Subjects and Functions	3
b) Actual Expenditure against provisions under the categories of	
i. Personal Emoluments & Other Recurrent of the Ministry	4
ii. Total Recurrent of Institutes under the Ministry	5
iii. Each object code of capital in case of Appropriation Accounts	6-8
c) Advanced Accounts -Actual limits against prescribed limits	9
d) Annual work plan targets and achievements	10-18
e) Observations of the Chief Accounting Officer on performance	19-21

Annual Performance report 2012

Ministry of Technology & Research

Introduction

There are two important tasks entrusted to this Ministry, namely technology and research. The contribution of technology sector is critical to accelerate economic growth of the country. Through the intervention of scientific research it is expected that there will be an improvement in the quality and productivity in the industrial and service sectors as well as the wellbeing of the people.

The annual programmes of the Ministry of Technology & Research are aimed at covering the following Thrust Areas;

- Policy Formulation,
- Research & Development, Technology Transfer, Commercialization,
- Science Popularization,
- Human Resource Development, and
- Good Governance.

This Performance Report includes the progress of the recurrent and capital expenditure and development programmes of the period from January to December 2012.

This report was prepared according to the guidelines given in the Section 3.2 “Annual Performance Report”, of the Treasury Circular No. 01/2004 of 24.02.2004.

Vision

Sri Lanka becomes a scientifically and technologically advanced country of the region 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.

Assignment of Subjects and Functions

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 No. 1736/23 of 14th December 2011, the Minister of Technology and Research is vested with the following subjects and functions :

- Formulation of policies, programmes and projects in regard to the subjects of Technology, Research and all subjects that come under the purview of Departments and Statutory Institutions on the basis of the Mahinda Chinthana – Vision for the Future and any other overall National Policies that may be adopted by the Government.
- Direction of the implementation of such policies, programmes and projects within time lines agreed with the national planning authorities and within budgeted resources, with a view to achieving relevant objectives.
- Reforming all systems and procedures to ensure the conduct of business in an efficient manner deploying modern management techniques and technology where applicable while eliminating corruption and waste.
- Provision of all public services that come under the purview of the Ministry in an efficient and people friendly manner.
- Scientific and industrial research.
- Establishment and control of Standards.
- Socio-economic research.
- Planning and conducting research by providing required facilities to research institutions.
- Researches in specific areas of basic science and promotion of fundamental studies.
- Supervision of the organizations listed under the Ministry.

The institutions assigned to the Ministry of Technology & Research are;

1. Arthur C. Clarke Institute for Modern Technologies
2. Industrial Technology Institute
3. Institute of Fundamental Studies
4. National Engineering Research and Development Centre
5. National Research Council
6. National Science Foundation
7. National Science and Technology Commission
8. Sri Lanka Accreditation Board for Conformity Assessment
9. Sri Lanka Inventors Commission
10. Sri Lanka Institute of Nanotechnology (Pvt) Ltd
11. Sri Lanka Planetarium
12. Sri Lanka Standards Institution

b) Actual Expenditure against provisions under categories of;

i. Personal Emoluments & Other Recurrent of the Ministry

Recurrent Expenditure – 2012

Ministry : Technology & Research

Head No : 133

Category : Personal Emoluments & Other Recurrent

Description	Allocation Rs.	Total Expenditure Rs.	Balance Rs.
Minister's Office			
Personal Emoluments	22,250,000	18,384,449	3,865,551
Other Recurrent	33,576,000	29,059,096	4,516,904
Sub Total	55,826,000	47,443,545	8,382,455
Administration & Establishment Services			
Personal Emoluments	40,700,000	37,067,336	3,632,664
Other Recurrent	66,150,000	59,695,653	6,454,347
Sub Total	106,850,000	96,762,989	10,087,011
Science & Technology Development Programms			
Personal Emoluments	229,255,000	223,993,434	5,261,566
Other Recurrent	53,970,000	49,104,899	4,865,101
Sub Total	283,225,000	273,098,334	10,126,666
Total	445,901,000	417,304,868	28,596,132

b) Actual Expenditure against provisions under categories of;

ii. Total Recurrent of institutions

Recurrent Expenditure – 2012

Ministry : Technology & Research

Head No : 133

Category : Personal Emoluments & Other Recurrent

Description	Allocation Rs.	Total Expenditure Rs.	Balance Rs.
Public Institutions			
Arthur C Clarke Institute for Modern Technologies	77,000,000	69,460,000	7,540,000
Institute of Fundamental Studies	104,000,000	104,000,000	0
Industrial Technology Institute	173,270,000	169,000,000	4,270,000
National Engineering Research & Development Centre	164,000,000	144,816,000	19,184,000
National Research Council	10,300,000	9,189,900	1,110,100
National Science Foundation	84,000,000	80,582,000	3,418,000
National Science & Technology Commission	22,000,000	14,162,150	7,837,850
Sri Lanka Accreditation Board	20,600,000	16,466,000	4,134,000
Sri Lanka Standards Institution	0,000,000	0,000,000	0,000,000
Sri Lanka Inventors Commission	24,000,000	20,992,000	3,008,000
Sub Total	679,170,000	628,668,050	50,501,950
Planetarium			
Personal Emoluments	5,000,000	4,204,786	795,214
Other Recurrent	9,533,000	7,587,545	1,945,455
Sub Total	14,533,000	11,792,331	2,740,669
Total	693,703,000	640,460,381	53,242,619

b) Actual Expenditure against provisions under categories of;

iii. Each object code of Capital in case of Appropriation Accounts

Capital Expenditure – 2012

Ministry : Technology & Research
Head No : 133
Category : Rehabilitation and Acquisition

Description	Allocation Rs.	Total Expenditure Rs.	Balance Rs.
Minister's Office			
Rehabilitation	8,577,000	2,841,494	5,735,506
Acquisition	3,000,000	2,967,347	32,653
Other			
Sub Total	11,577,000	5,808,841	5,768,159
Administration & Establishment Services			
Rehabilitation	7, 466,000	1,921,036	5,544,964
Acquisition	10,400,000	8,883,865	1,516,135
Human Resource Development	800,000	587,440	212,560
Deyata Kirula	8, 900,000	6,831,532	2,068,468
Sub Total	27,566,000	18,223,873	9,342,127
Total	39,143,000	24,032,714	15,110,286

Continued.....

Ministry : Technology & Research

Head No : 133

Category : Rehabilitation and Acquisition and other Capital Expenditure

Description	Allocation Rs.	Total Expenditure Rs.	Balance Rs.
S&T Development programmes			
1. Vidatha Programme			
Rehabilitation	5,710,000	5,062,973	647,027
Acquisition	52,300,000	40,246,601	12,053,399
Knowledge Transfer Programmes	22,000,000	19,672,855	2,327,145
Sub Total	80,010,000	64,982,429	15,027,571
2. Scientific Development Programmes			
Investments	15,200,000	5,561,715	9,638,285
Sub Total	15,200,000	5,561,715	9,638,285
3. Multipurpose Gamma Irradiator Project			
Investments	128,000,000	126,187,782	1,812,218
Sub Total	128,000,000	126,187,782	1,812,218
4. Nanotechnology Initiative			
Investments	405,000,000	165,603,503	239,396,497
Sub Total	405,000,000	165,603,503	239,396,497
5. Nagenahira Navodaya			
Investments	7,000,000	1,454,313	5,545,687
Sub Total	7,000,000	1,454,313	5,545,687
6. Inventors Fund			
Development Assistance	4,000,000	0	4,000,000
Sub Total	4,000,000	0	4,000,000
7. Implementation of Science , Technology & Innovation Strategy			
Investment	6,800,000	2,196,180	4,603,820
Sub Total	6,800,000	2,196,180	4,603,820
Total	646,010,000	365,985,922	280,024,078

Continued.....

Ministry : Technology & Research

Head No : 133

Category : Rehabilitation and Acquisition and other Capital Expenditure

Description	Allocation Rs.	Total Expenditure Rs.	Balance Rs.
Foreign Assistance Programmes			
Agro Food Project	100,000,000	100,000,000	0
Development a Regulatory Framework for Nanotechnology (NSF)-	1,000,000	1,000,000	0
Sub Total	101,000,000	101,000,000	0
Public Institutions			
Arthur C Clarke Institute for Modern Technologies	65,000,000	23,727,429	41,272,571
Institute of Fundamental Studies	65,000,000	54,518,000	10,482,000
Industrial Technology Institute	234,450,000	97,194,666	137,255,334
National Engineering Research & Development Centre	90,000,000	30,289,000	59,711,000
National Research Council	242,800,000	220,940,000	21,860,000
National Science Foundation	311,000,000	152,382,718	158,617,282
National Science Foundation-foreign aid	4,051,486	4,051,485.50	0.50
National Science & Technology Commission	7,200,000	1,118,950	6,081,050
Sri Lanka Accreditation Board	2,000,000	1,370,000	630,000
Sri Lanka Standards Institution	20,000,000	0.00	20,000,000
Sri Lanka Inventors Commission	40,000,000	13,562,000	26,438,000
Sub Total	1,081,501,486	599,154,248.50	482,347,238
Planetarium			
Rehabilitation	2,428,000	828,376	1,599,624
Acquisition	3,500,000	1,989,230	1,510,770
Human Resource Development	50,000	15,000	35,000
Installation of a 4D Digital	90,300,000	31,721,248	58,578,752
Sub Total	96,278,000	34,553,854	61,724,146
Total	1,177,779,486	633,708,102.50	544,071,3840

C) Advanced Accounts - Actual Limits against prescribed limits

Maximum limits of expenditure of activities of the Government Rs.	Minimum limits of Receipts of activities of the Government Rs.	Maximum, Limits of Debit Balance of the activities of the Government Rs.
25,000,000	9,000,000	75,000,000

d) Annual Work Plan targets for 2012 and achievements

i) VidathaProgramme		
Activities	Target	Output
(1) Construction of new buildings for Vidatha Resource Centres (VRCs)	Construction of 11 buildings	Construction of Galenbidunuwewa Vidatha Resource Centre (VRC) was completed and construction works of seven buildings at Kahawatta, Weligepola, Nivithigala, Kiriella, Opanayake, Madampe and Musali are in progress.
(2) Conducting Technology Transfer Programs (TT) and awareness programs for targeted beneficiaries	24 Training programs and 24 awareness programs per centre (6240 programs per year)	(i) 9 Workshops were conducted by Arthur C. Clarke Institute. (ii) 3259 Technology Transfer Training programs were conducted by VRCs for 69651 participants. Those training programs focused on Post harvest technology, Rice based products, Milk based products, Kithul based products, Low cost housing construction , Manufacturing of pre-cast concrete door & window frames, Practical electronic training ,Mobile Phone repair ,Computer hardware courses, Organic fertilizer products, Dehydration of fruits & Vegetables ,etc. (iii) 2024 awareness programs were conducted for 96891 participants in the areas of Nanotechnology, Lightning protection, Entrepreneurs development programs, Health, Nutrition ,etc.
(3)Vidatha Restructuring Programs	Identify and providing technical assistance for 100 SMEs	Need assessment was done for 7 SMEs. Awareness program on marketing strategy was held for 29 participants. Technology Transfer programs were conducted as follows; Fruit processing for 7, Milk based product for 8, Soya meat flavours for 3 Mushroom based products for 1. Awareness programme on Good Manufacturing Practices (GMP) was conducted by Sri Lanka Standards Institutions (SLSI) for 102 participants. 191 participants took part at the electronics & T.V repairing workshops.

(1) Construction of new buildings



New Vidatha Building

(2) Technology Transfer



Technology Transfer Workshop at Vidatha Resource Centre



Training Programme at Vidatha Resource Center



Vidatha Entrepreneurs

(2) Technology Transfer, contd.....



Awareness Programme on Good Manufacturing Practices



Training of Trainers programme at Industrial Technology Institute



Vidatha Products



Vidatha Stall at Divinaguma Exhibition in Jaffna

ii)Scientific Development Programme		
Programme/Activity	Target	Output
(1)Bilateral Cooperation Joint Research Programme (under the Programme of Corporation(POC) with India) Proposals submitted by Scientists of both countries were evaluated and mutual agreement was prepared by the Department of Science & Technology India (DST) and Ministry of Technology& Research (MOTR)	• Select and implement Proposals for joint research &workshops. • Implementation of activities in pursuance of bilateral agreements under Indo-SL Agreements	Approval has been granted for nine research projects and two workshops. This is the first initiative in which collaborative research is being undertaken by both countries working on the same project.
(2) S & T Popularization Programme a)Participation in Exhibitions	(i) 14 District Exhibitions (ii) School Exhibitions	Participated in Industrial Exhibitions of Divi Neguma National Programme. School Exhibition -Royal Central College-Polonnaruwa, "Kithu Devi Praba" – Krishthudeva Balika Vidyalaya – Galle, "Dam Dasi" Dammissara National College-Naththandiya , "Exodo 2012"- SiriKurusu Vidyalaya, Kaluthara , "Hambanthota Navodaya" -Walipatanwila Vidyalaya, Hambanthota.
b) Development of an interest in the field of Science and Technology among school children	Facilitate educational visits of students and teachers (250 per group) from Northern and Central Provinces	5823 school children and teachers from 204 schools were benefitted from this programme. They visited the Industrial Technology Institute, National Engineering Research & Development Centre, Arthur C Clarke Institute for Modern Technologies, Planetarium, National Museum, Zoological Garden and Air Force Museum.
(3) Scientific Training	Training of 30 officers in the Transfer of new Technologies	26 Training of Trainers (TOT) programs were held for Science & Technology Officers (STO) & Technology and Human Resource Development Assistants. They participated in Entrepreneurship development Training on Liquid soap production Technology, Post harvest Technologies, Fiberglas blocks production, Graphic designing, Packaging & marketing, etc.

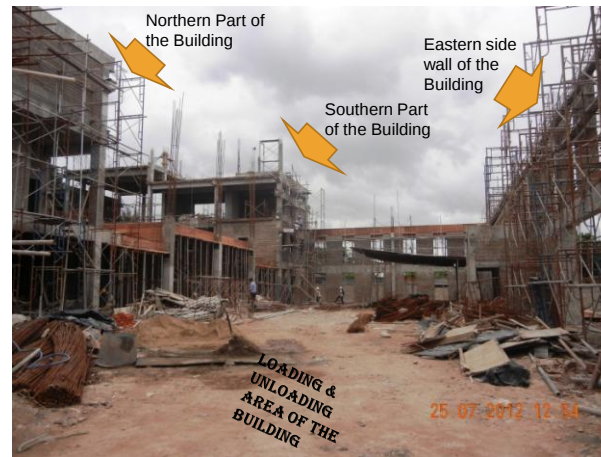
(iii) Multipurpose Gamma Irradiator Facility		
Activities	Target	Output
(1) Civil Construction	60% Completion of civil work in relation to the construction of Multipurpose Gamma Irradiator Plant	• Civil construction is in progress. • 60% of civil work has been completed. • Construction of Access road to the site is completed. • Fabrication of Irradiator machinery is on schedule.
(2) Supply of Irradiator Machinery	Fabrication of Irradiator machinery	



The concrete foundation prepared to receive the Pool EP.



Supervision of installation of all the EPs



Progress of construction of the Gamma Irradiator Plant as reported in December 2012.

iv) National Nanotechnology Initiative		
Activities	Target	Output
Construction of the Nano Park (Nano Science Park phase 1 a)	Complete 40% of phase 1a of the Nano Science Park	• Civil construction is in progress. • Progress of construction activities are being monitored through Park Development Committee on a monthly basis.



Construction works of Nano Science Park phase 1 a, at Pitipana, Homagama



(V)Nagenahira Navodaya		
Activities	Target	Output
1) Conducting Technology Transfer Programs (TT) and awareness programs for targeted beneficiaries.	3Training programs and 2 awareness programs (per centre)	One Awareness programme and three Technology Transfer programs were conducted by VRCs.
2) Construction of new buildings for Vidatha Resource Centres (VRCs).	Construction of 2 buildings	New VRC buildings were constructed for Sainthumatudhu and Kanthale Divisional Secretariats.

(vi) Science Technology Innovation Strategy		
Activities	Target	Output
(1) "Technology Marketplace" The theme of the exhibition was "Reconciliation Through Research & Technology".	Hold an exhibition and technical sessions to showcase research products and services of institutions under the Ministry and to create links between the Industry and Research Institutions for research commercialization.	The Technology Market place 2012 exhibition was held at the Open university Regional branch of Jaffna on 10th and 11th December 2012. 10 Institutions coming under the Ministry took part in this event. In addition Night observation camps were conducted by the Sri Lanka Planetarium for the general public and School children.



Technical Sessions at Technology Market place



Participants of Technical Sessions at Jaffna



*Launching Water Rockets during the Night Sky
Observation Camp*



Night Sky Observation Camp

(e) Observation of the Chief Accounting Officer on Performance

Major activities/ programmes carried out by the Ministry during 2012 were as follows,

1. Vidatha Programme
2. National Nanotechnology Initiative
3. Establishment of Multipurpose Gamma Irradiator Facility
4. Implementation of Science , Technology & Innovation Strategy
5. Nagenahira Navodaya
6. Scientific Development Programme

1. Vidatha Programme

The main objectives of the programme are to facilitate small and medium scale entrepreneurs in improving the quality of their productions and to assist villages through technology transfer to uplift the living standards of the rural communities. Vidatha Programme continued its activities during 2012 with a view to accomplishing these objectives.

- Construction of 7VRC buildings are in progress (Kahawatta, Opanayaka, Madampe, Kiriella, Nivithigala, Weligepola, Musali)
- Performance wise less progress was reported with regards to Technology Transfer Training programmes due to Annual Transfers of Science & Technology Officers which took place in all districts.

2. National Nanotechnology Initiative (NNI)

By promoting Nanotechnology based research and development for industries, the NNI aspires to earn more foreign exchange through high-tech exports. In 2012 GOSL funds were allocated for the phase (1a) of Nano Science Park

- Construction activities of Phase 1(a) of the Nano Science Park are on schedule.
- Progress of construction activities are being monitored through Park Development Committee on a monthly basis.

3. Multipurpose Gamma Irradiator Project (MGIF)

The main objective of the MGIF is to increase shelf life of medical products & food products, through sterilization process. The establishment of a plant in Sri Lanka on this aspect will therefore make it possible to obtain a better export market for our local products while reducing the foreign exchange spent on imports.

Civil construction of the building Facility is in progress. A team of Sri Lankan Consultants have been appointed to oversee and supervise the Installation and quality of the irradiator plant and other equipments, supplied for the facility, in order to ensure compliance with the required standards.

4. Implementation of Science & Technology Innovation Strategy

Commercialisation of Research is one of the main thrust areas identified in the Science, Technology & Innovation strategy.

As an initiative to research commercialization and to create links between Industry and the Research Institutions coming under this Ministry an exhibition and technical sessions were held in Jaffna on 10th & 11th December 2012. In addition night observation camps were conducted by the Sri Lanka Planetarium for students and the general public in the area.

5. Nagenahira Navodaya

Technology Transfer Training programs were conducted on dry fish production, Palmyrha products & Rice based snacks for targeted beneficiaries in the area.

New Vidatha Resource Centre buildings were constructed in Sainthumarudhu and Kanthale.

6. Scientific Development Programmes

a) Bilateral Cooperation

The Ministry of Technology & Research entered in to a programme of Cooperation (PoC) with the Department of Science & Technology of the Government of India (DOSTI) in 2011 .The POC provides for a framework for scientists of two countries to work on joint collaborative research projects of value to both countries. The research areas identified in the POC are Food science and technology, Oceanography /Earth Science, Biotechnology/ Pharmaceuticals, Material Research including Traditional Medicine.

Proposals submitted by scientists of both countries were evaluated and by mutual agreement of the DSTI and MOTR, approval was granted for nine projects and two workshops. This is the first initiative in which collaborative research is being undertaken by both countries on the same project.

b) S & T Popularization Programme

I. Participation in National & District level Exhibitions

Under “Deyata Kirula” many awareness programmes were conducted within the Anuradhapura district by the Institutions coming under the Ministry. Water samples from various places of the district were tested by the Institute of Fundamental Studies (IFS) at this exhibition. In addition several awareness programs were conducted by VRCs with a view to popularizing Science & Technology. The Ministry also participated in a number of exhibitions at regional level to promote science & technology.

II. Special School program

This program was initiated in collaboration with the Ministry of Education to popularize science among students. The program was planned targeting the students from remote and under privileged areas. The first program for the Northern Province commenced on 7th November 2012 with the participation of Hon. Minister of Technology & Research and Hon. Minister of Education and 250 students from the Jaffna Education Zone participated. The Scouts of Royal College welcomed the students with a camp fire.

5, 823 students from 204 schools from the Northern, Central and Sabaragamuwa Provinces participated in this programme. The students visited the Industrial Technology Institute, NERD Centre, Arthur C Clarke Institute for Modern Technologies, Department of Meteorology, Sri Lanka Planetarium, National Zoological Gardens and National Museum where they were made knowledgeable of the role and functions of these Institutions.

c) Scientific Training

Training Programmes were held at Local Institutes for 515 officials of the Ministry and Vidatha Resource Centres with a view to developing their capacities.