

# SRI LANKA SCIENCE & TECHNOLOGY STATISTICAL HANDBOOK

## 2004



National Science Foundation  
47/5, Maitland Place  
Colombo 07  
Sri Lanka  
[www.nsf.ac.lk](http://www.nsf.ac.lk)

# **Sri Lanka Science & Technology Statistical Handbook 2004**



**National Science Foundation  
47/5, Maitland Place  
Colombo 7  
Sri Lanka.**

## FOREWORD

The National Science Foundation (NSF) and its predecessors, the National Science Council (NSC) and the National Resources, Energy & Science Authority (NARESA) have been compiling statistical data on Science and Technology (S & T) relevant to Sri Lanka since 1970s. However, the last detailed publication was done in 1996.

**Sri Lanka Science and Technology Statistical Handbook 2004** is the result of the national Research & Development (R&D) Survey 2004 carried out by the NSF in 2005 to provide the latest nationally comparable statistical data on Science and Technology. An attempt has been made in this handbook to meet the international standards as far as possible. Compared to the previous publications, this booklet presents data in four chapters as commonly identified by other countries; i.e. financial resources for R&D, human resources in S&T personnel, performance indicators for S&T and key socio economic indicators.

Based on the mandate given to the NSF by the Science and Technology Act No. 11 of 1994, the Science and Technology Policy Research Division (STPRD) was established at NSF in 2005. This handbook marks one of a number of initiatives taken by the STPRD of the NSF, Sri Lanka. I congratulate the Head, Dr Seetha Wickremasinghe and her team at STPRD for this full-colour publication with latest graphic designing. I am sure that this will be a useful quick reference to readers in the light of the renewed interest in science and technology in the country.

I also take this opportunity to thank the Advisory Board chaired by the Hon. Prof. Tissa Vitarana, Minister of Science and Technology, to the STPRD at NSF for the invaluable advice and guidance provided in carrying out the S & T statistical survey 2004.

**Prof. Sirimali Fernando**  
Chairperson  
National Science Foundation  
Colombo, Sri Lanka

06 November 2006

## **PREFACE**

This Data Booklet is an outcome of the National Research & Development Survey 2004 conducted by the Science & Technology Policy Research Division (STPRD) of the National Science Foundation, Sri Lanka. The S&T indicators or statistical data identified are aimed at policy makers, planners, researchers, scientists and technologists requiring a quantitative overview of national S&T activities. This information will also be useful for policy making purposes.

This booklet is produced by the research team of the STPRD under the close supervision and guidance of the Statistical Consultant, Mrs. C.M. Fernando. My special thanks go to the Scientific Officers, Dr. P. R. M. P. Dilrukshi and Mr. R. T. S. Nagahawatta for their untiring efforts rendered towards the success of this project.

The co-operation and advice given by the Advisory Board appointed to the STPRD and the Board of Management of the National Science Foundation, Sri Lanka is gratefully acknowledged.

**Dr. Seetha I. Wickremasinghe**  
Head/S&T Policy Research Division  
National Science Foundation  
Colombo, Sri Lanka

03 November 2006

## CONTENTS

### 1. Financial Resources for Research and Development

- 1.1 : R&D Expenditure (GERD) in Sri Lanka
- 1.2 : R&D Manpower Resources in some South Asian Countries
- 1.3 : Key Indicators on World GDP, Population and GERD, 2002
- 1.4 : National Expenditure on Research and Development (GERD) by Source of Funding 2004
- 1.5 : National R&D Expenditure by Source of Funding 1984-2004
- 1.6 : National R&D Expenditure by Sector of Performance
- 1.7 : National R&D Expenditure by Nature of Research Activity
- 1.8 : National R&D Expenditure by Discipline 1984-2004

### 2. Human Resources in Science and Technology Personnel

- 2.1 : Science and Technology Personnel (STP) by Category
- 2.2 : World Researchers - 2002
- 2.3 : Distribution of S&T Personnel (STP) by Sector 2004
- 2.4 : Distribution of STP by Discipline 1984-2004
- 2.5 : Distribution of R&D Scientists (Head Count) by Sector
- 2.6 : Distribution of R&D Scientists (Head Count) by Discipline and Sex
- 2.7 : Educational Qualifications of R&D Scientists 2004
- 2.8 : Distribution of FTE of R&D Scientists by Sector 2004
- 2.9 : Distribution of FTE of R&D Scientists by Discipline 2004

### 3. Performance Indicators for Science and Technology

- 3.1 : Number of Patents registered locally during 1995-2004
- 3.2 : Number of Patents registered locally during the period 2001-2004 by Sector
- 3.3 : Distribution of Patents according to classification
- 3.4 : Summary of Technological Innovations and New Processes Developed during 2001-2004
- 3.5 : Performance of S&T sector during 2001-2004
- 3.6 : Authorship pattern of Sri Lankan papers in the SCI according to main fields for the year 2004
- 3.7 : Postgraduate output during 2000-2004
- 3.8 : Number of SLAAS Presentations at Annual Proceedings and Number of Scientists involved during 2000-2004
- 3.9 : Performance of NSF Research Grants Scheme during 2000-2004

### 4. Key Socio-Economic Indicators

#### General

- 4.1 : Demography
- 4.2 : Human Development Indicators - Comparative Statistics
- 4.3 : Key Indicators on Household Income
- 4.4 : Land, Energy & Environment Indicators
- 4.5 : Major River Basins

## **Education**

- 4.6 : Summary Indicators of Government Expenditure on Education 2000-2003
- 4.7 : Statistics on Secondary Education 2000-2003
- 4.8 : Total Enrolment in Science & Technology Courses at Universities 2000-2003
- 4.9 : Statistics on Higher Education-Funds, Student Enrolment and Staff 2004
- 4.10 : Statistics on Technical Training 2001-2004

## **Health**

- 4.11 : Salient Features of Health Services 2001-2004
- 4.12 : Distribution of Manpower in Health Sector

## **Industry**

- 4.13 : Trends in Economic Activities in South Asia, during 1980-2002
- 4.14 : Composition of Gross Domestic Product 2002 - 2004
- 4.15 : Realised Investments in BOI Projects in 2003 - 2004
- 4.16 : Industrial Production by Sub-sectors
- 4.17 : Composition (value) of Exports & Imports 2003
- 4.18 : Principal indicators of industrial activities classified by different categories

## **Abbreviations**

NA 1323-1

**FINANCIAL RESOURCES  
FOR  
RESEARCH AND DEVELOPMENT**

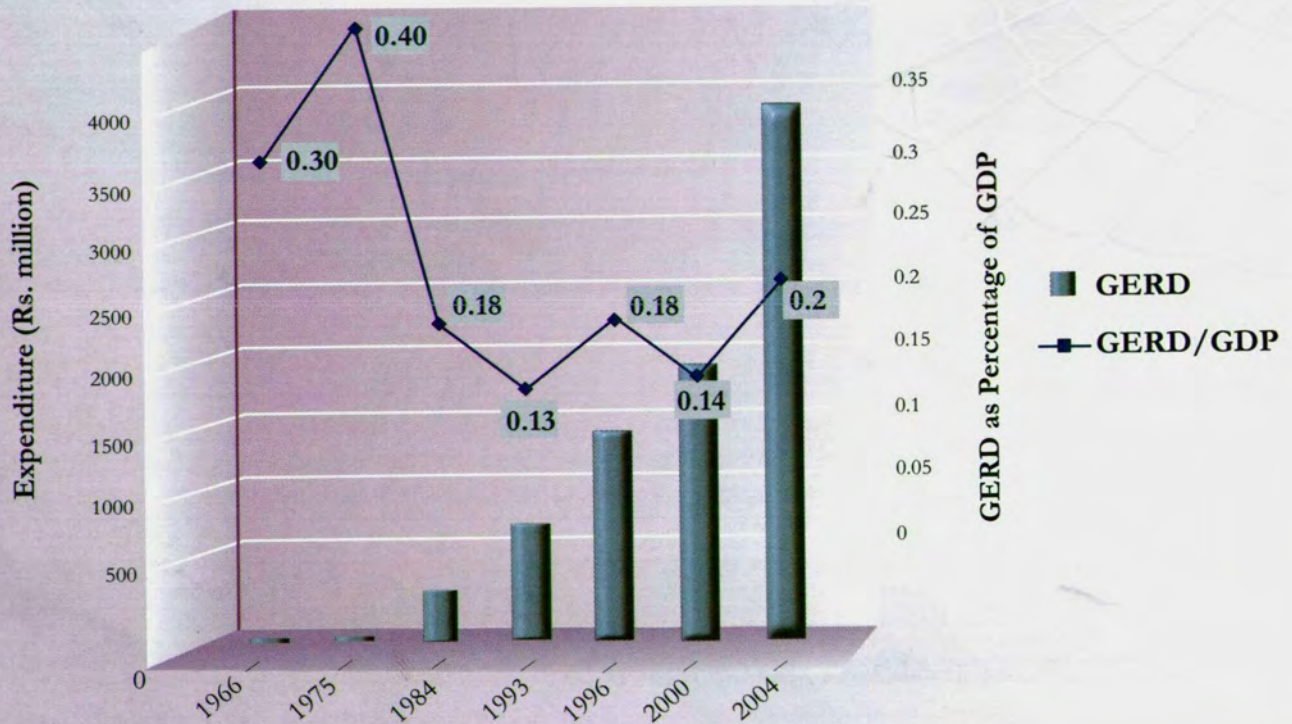
## 1.1 : R&amp;D Expenditure (GERD) in Sri Lanka

Year	GDP Current Prices Rs.million	GERD Rs.million (US\$)	GERD as Percent of GDP	Total Population million	GERD per million population Rs.
1966	7,529	20 (4.2)	0.30	11.5	1.7
1975	11,100	45 (6.4)	0.40	13.5	3.3
1984	142,700	257 (9.7)	0.18	15.6	16.5
1993	499,800	649 (13.1)	0.13*	17.6	36.8
1996	769,900	1,410 (23)	0.18	18.3	77.0
2000	1,258,000	1,810 (22.9)	0.14*	18.4	98.4
2004	1,800,750	3,807 (40.9)	0.20	19.4	196.2

Source : National R&D Surveys Sri Lanka 1996 (NARESA) & 2004 (NSF)

\* Estimates

Growth of R&D Expenditure



## 1.2 : R&amp;D Manpower Resources in some South Asian Countries

Country	Total population (million) 2003	Scientists and Engineers per million population
Bangladesh	138	51
India	1,064	157
Iran	67	590
Mongolia	3	1,370
Nepal	25	40
Pakistan	148	69
Sri Lanka (2000)	19	191
Sri Lanka (2004)	19	335

Source : UNESCO Science Report 2005

### 1.3 : Key Indicators on World GDP, Population and GERD, 2002

	GDP in billions	% World GDP	Population in millions	% World population	GERD in billions	% World GERD	% GERD/ GDP	GERD per Capita
World	47,599.4	100.0	6,176.2	100.0	829.9	100.0	1.7	
Developed Countries	28,256.5	59.4	1,195.1	19.3	645.8	77.8	2.3	540.4
Developing Countries	18,606.5	39.1	4,294.2	69.5	183.6	22.1	1.0	42.8
Less developed	736.4	1.5	686.9	11.1	0.5	0.1	0.1	0.7
European Union	10,706.4	22.5	453.7	7.3	195.9	23.6	1.8	431.8
Comm. of Ind. States in Asia	207.9	0.4	72.6	1.2	0.7	0.1	0.4	10.3
Newly Indust. Asia	2,305.5	4.8	374.6	6.1	53.5	6.4	2.3	142.8
Arab States Asia	556.0	1.2	103.9	1.7	0.6	0.1	0.1	6.2
Other Asia	1,720.0	3.6	653.7	10.6	1.4	0.2	0.1	2.1
Brazil*	1,300.3	2.7	174.5	2.8	13.1	1.6	1.0	75.0
China	5,791.7	12.2	1,280.4	20.7	72.0	8.7	1.2	56.2
Germany	2,226.1	4.7	82.5	1.3	56.0	6.7	2.5	678.3
India*	2,777.8	5.8	1,048.6	17.0	20.8	2.5	0.7	19.8
Israel	124.8	0.3	6.6	0.1	6.1	0.7	4.9	922.4
Japan	3,481.3	7.3	127.2	2.1	106.4	12.8	3.1	836.6
Russian Federation	1,164.7	2.4	144.1	2.3	14.7	1.8	1.3	102.3
South Africa	444.8	0.9	45.3	0.7	3.1	0.4	0.7	68.7
United Kingdom	1,574.5	3.3	59.2	1.0	29.0	3.5	1.8	490.4
United States of America	10,414.3	21.9	288.4	4.7	290.1	35.0	2.8	1,005.9

Source : UNESCO Institute for Statistics Estimations, December 2004.

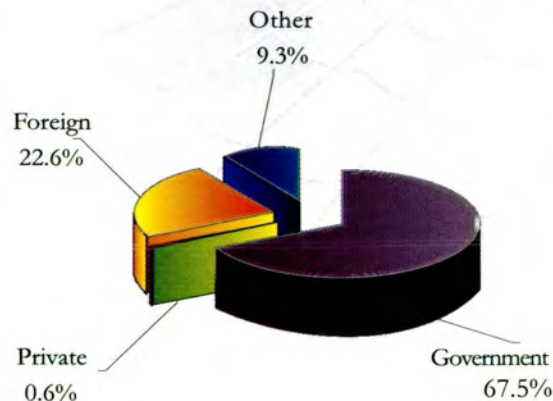
\* GERD figures for Brazil and India are for 2000.

Note : For Asia, the sub-regional totals do not include China, India or Japan

## 1.4 : National Expenditure on Research and Development (GERD) by Source of Funding 2004

Rs.million

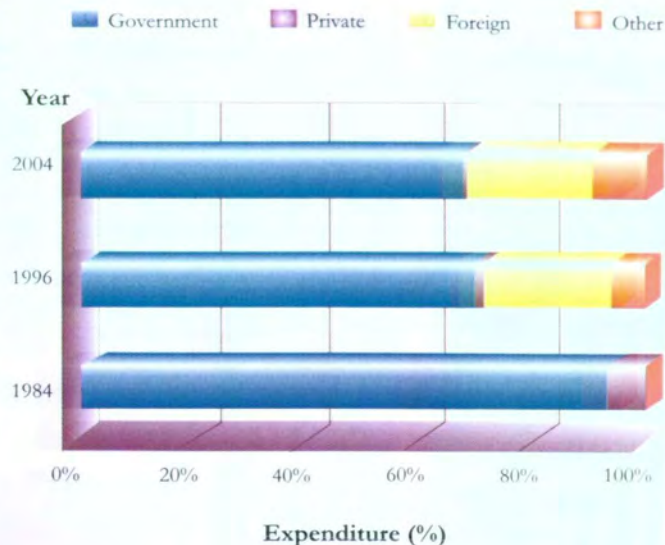
Source of Funding	Recurrent	Capital	Total
Government	2,115.3 (55.6 %)	456.0 (12.0%)	2,571.2 (67.5%)
Private	17.1 (0.5 %)	4.7 (0.1%)	21.9 (0.6 %)
Foreign	675.7 (17.7 %)	186.2 (4.9 %)	861.8 (22.6 %)
Other	276.4 (7.3 %)	76.1 (2.0 %)	352.5 (9.3 %)
<b>Total</b>	<b>3,084.5</b> (81.0%)	<b>723.1</b> (19.0%)	<b>3,807.5</b> (100.0 %)



## 1.5 : National R&D Expenditure by Source of Funding 1984-2004

Rs.million

Source of Funding	1984	1996	2004
Government	239.4 (93.2%)	981.0 (69.6 %)	2,571.3 (67.5 %)
Private	17.4 (6.8%)	21.5 (1.5 %)	21.9 (0.6 %)
Foreign	-	324.5 (23.0%)	861.8 (22.6 %)
Other		82.6 (5.9 %)	352.5 (9.3%)
<b>Total</b>	<b>256.8</b> <b>(100.0%)</b>	<b>2,647.7</b> <b>(100.0%)</b>	<b>3,807.5</b> <b>(100.0 %)</b>



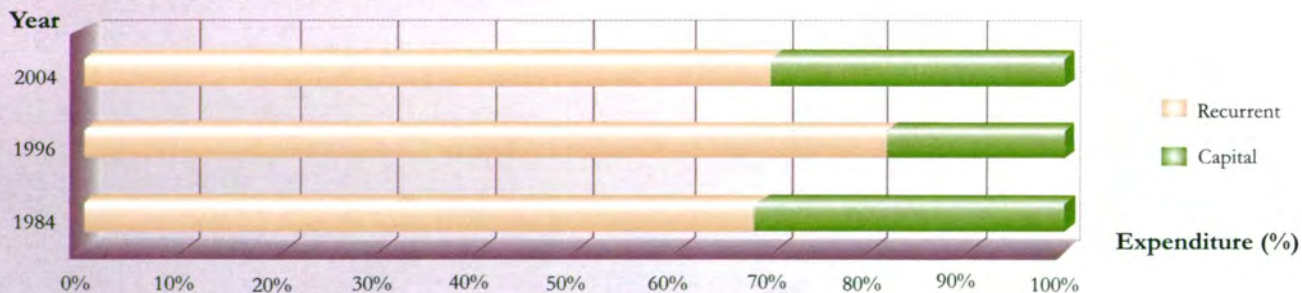
Source : National R&D Surveys Sri Lanka 1996 (NARESA) & 2004 (NSF)

## 1.6 : National R&D Expenditure by Sector of Performance

Rs.million

Sector	1984			1996			2004		
	Recurrent	Capital	Total	Recurrent	Capital	Total	Recurrent	Capital	Total
Higher Education	14.6	1.6	16.2 (6.3%)	299.3	58.4	357.7 (25.4%)	1,150.0	127.6	1,277.6 (33.5%)
State	143.8	72.5	216.3 (84.3%)	827.2	203.2	1,030.4 (73.1%)	1,319.9	1,001.2	2,321.1 (61.0%)
Private	15.9	8.3	24.2 (9.4%)	3.0	18.5	21.5 (1.5%)	132.4	76.4	208.8 (5.5%)
<b>Total</b>	<b>174.3 (67.9%)</b>	<b>82.4 (32.1%)</b>	<b>256.7 (100.0%)</b>	<b>1,129.5 (80.1%)</b>	<b>280.1 (19.9%)</b>	<b>1,409.6 (100.0%)</b>	<b>2,602.3 (68.3%)</b>	<b>1,205.2 (31.7%)</b>	<b>3,807.5 (100.0%)</b>

Source : National R&D Surveys Sri Lanka 1996 (NARESA) & 2004 (NSF)

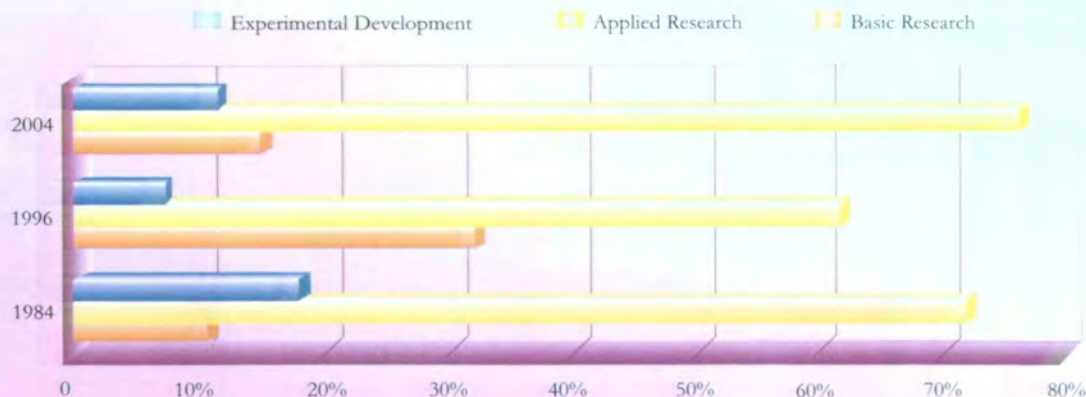


## 1.7 : National R&D Expenditure by Nature of Research Activity

Rs.million

Nature of Research	1984		1996		2004	
	Amount	%	Amount	%	Amount	%
Basic Research	24.8	10.0	446.3	32.0	519.6	13.6
Applied Research	185.2	72.0	867.3	61.0	2,886.1	75.8
Experimental Development	46.9	18.0	96.0	7.0	401.8	10.6
<b>Total</b>	<b>256.8</b>	<b>100.0</b>	<b>1,409.6</b>	<b>100.0</b>	<b>3,807.5</b>	<b>100.0</b>

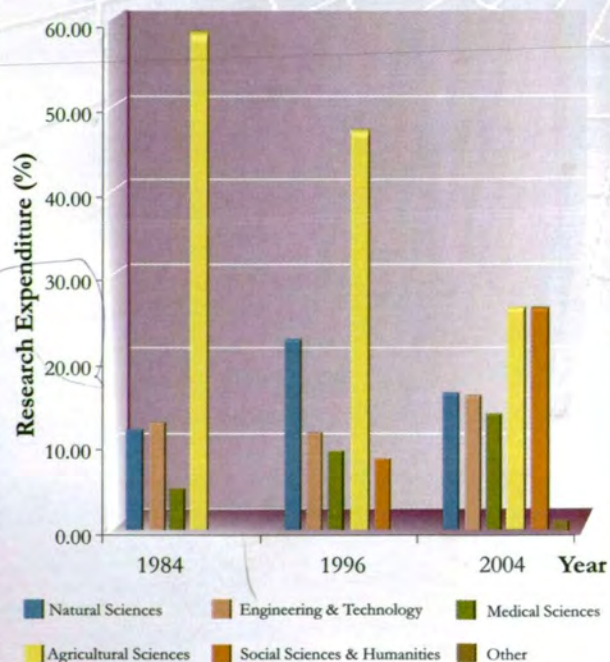
Source : National R&D Surveys Sri Lanka 1996 (NARESA) & 2004 (NSF)



## 1.8 : National R&D Expenditure by Discipline 1984-2004

Rs.million

Discipline	Year		
	1984	1996	2004
Natural Sciences	30.7 (12.0%)	318.3 (22.6%)	627.6 (16.5%)
Engineering & Technology	32.8 (12.8%)	164.3 (11.6%)	614.0 (16.1%)
Medical Sciences	13.3 (5.2%)	136.6 (9.7%)	531.4 (14.0%)
Agricultural Sciences	153.4 (59.8%)	669.2 (47.4%)	1002.5 (26.3%)
Social Sciences & Humanities	26.5	121.2 (8.6%)	999.5 (26.3%)
Other	-	-	32.4 (0.9%)
<b>Total</b>	<b>256.7</b>	<b>1,409.6</b>	<b>3,807.5</b>



Source : National R&D Surveys Sri Lanka 1996 (NARESA) & 2004 (NSF)

NA-325-11



**HUMAN RESOURCES  
IN  
SCIENCE AND TECHNOLOGY PERSONNEL**

## 2.1 : Science and Technology Personnel (STP) by Category

STP Category	1996			2004		
	Total number	Per cent of STP	Per million inhabitants	Total number	Percent of STP	Per million inhabitants
Scientists	13,286	48.7	726	9,746	34.3	502
Technicians	14,514*	52.2*	793*	12,302	43.3	634
Other Supporting Staff				6,384	22.5	329
STP	27,800	100.0	1,519	28,432	100.0	1,465

Source : National R&D Surveys Sri Lanka 1996 (NARESA) & 2004 (NSF)

\*Includes Technicians and Other Supporting Staff

## 2.2 : World Researchers - 2002

	Researchers (thousands)	% World Researchers	Researchers per million inhabitants	GERD per Researcher (US\$ thousands)
World	5,521.4	100.0	894.0	150.3
Developed countries	3,911.1	70.8	3,272.7	165.1
Developing countries	1,607.2	29.1	374.3	114.3
Less -developed countries	3.1	0.1	4.5	153.7
Europe	1,843.4	33.4	2,318.8	122.7
Africa	60.9	1.1	73.2	76.2
Comm. of Ind. State in Asia	83.9	1.5	1,155.0	8.9
Newly Indust. Asia	291.1	5.3	777.2	183.7
Arab States Asia	9.7	0.2	93.5	66.6
Other Asia	65.5	1.2	100.2	20.9
China	810.5	14.7	633.0	88.8
India*	117.5	2.1	112.1	176.8
Israel*	9.2	0.2	1,395.2	661.1
Japan	646.5	11.7	5,084.9	164.5
Russian Federation	491.9	8.9	3,414.6	30.0
<b>South Africa</b>	8.7	0.2	192.0	357.6
<b>United Kingdom*</b>	157.7	2.9	2,661.9	184.2
<b>United States of America*</b>	1,261.2	22.8	4,373.7	230.0
<b>Sri Lanka (2004)**</b>	4.60	0.08	237.2	8.9

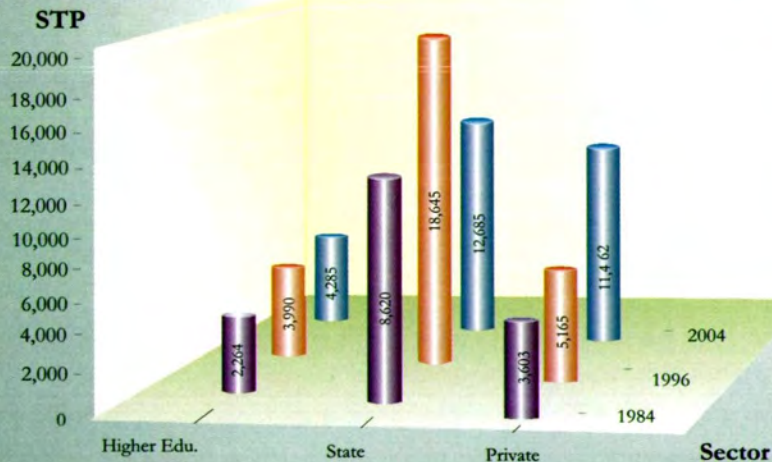
Source : UNESCO Institute for Statistics estimations, December 2004

\*India 1998, Israel 1997, United States 1999, United Kingdom 1998 \*\* R&D survey Sri Lanka - 2004

## 2.3 : Distribution of S&T Personnel (STP) by Sector -2004

Sector	1984		1996		2004	
	STP	Percent	STP	Percent	Total	Percent
Higher Education	2,264	15.6	3,990	14.3	4,285	15.1
State	8,620	59.5	18,645	67.1	12,685	44.6
Private	3,603	24.9	5,165	18.6	11,462	40.3
<b>Total</b>	<b>14,487</b>	<b>100.0</b>	<b>27,800</b>	<b>100.0</b>	<b>28,432</b>	<b>100.0</b>

Source : National R&D Surveys Sri Lanka 1996 (NARESA) & 2004 (NSF)

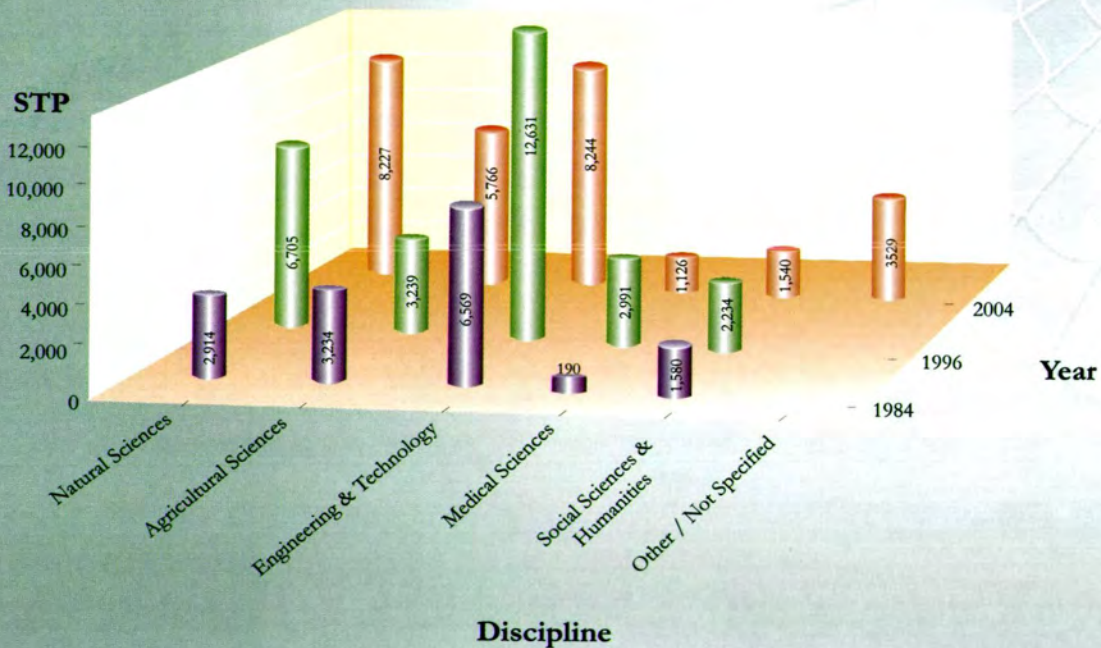


## 2.4 : Distribution of STP by Discipline 1984-2004

Discipline	1984		1996		2004	
	No	%	No	%	No	%
Natural Sciences	2,914	20.1	6,705	24.1	8,227	28.9
Agricultural Sciences	3,234	22.3	3,239	11.7	5,766	20.3
Engineering & Technology	6,569	45.4	12,631	45.4	8,244	29.0
Medical Sciences	190	1.3	2,991	10.8	1,126	4.0
Social Sciences & Humanities	1,580	10.9	2,234	8.0	1,540	5.4
Other / Not Specified	-	-	-	-	3,529	12.4
<b>Total</b>	<b>14,487</b>	<b>100.0</b>	<b>27,800</b>	<b>100.0</b>	<b>28,432</b>	<b>100.0</b>

Source : National R&D Surveys Sri Lanka 1996 (NARESA) & 2004 (NSF)

## Distribution of STP by Discipline 1984 - 2004



## 2.5 : Distribution of R&D Scientists (Head Count) by Sector

Sector	1996				2004			
	Scientists		Technicians		Scientists		Technicians	
	No.	%	No.	%	No.	%	No.	%
Higher Education	3,993	66.9	402	40.2	2,920	62.3	622	30.6
State	1,916	32.2	533	53.4	1,413	31.9	1,043	51.3
Private and NGO	56	0.9	64	6.4	269	5.8	369	18.1
<b>Total</b>	<b>5,965</b>	<b>100.0</b>	<b>999</b>	<b>100.0</b>	<b>4,602</b>	<b>100.0</b>	<b>2,034</b>	<b>100.0</b>

Source : National R&D Surveys Sri Lanka 1996 (NARESA) & 2004 (NSF)

## 2.6 : Distribution of R&amp;D Scientists (Head Count) by Discipline and Sex

Discipline	Head Count of R&D Scientists (1996)						Head Count of R&D Scientists (2004)					
	Male		Female		Total		Male		Female		Total	
	No	%	No	%	No	%	No.	%	No.	%	No.	%
Natural Sciences	923	23	564	29	1,487	25	1032	35	696	43	1,728	37
Agricultural Sciences	547	14	119	6	666	11	569	19	288	18	857	19
Engineering & Technology	344	9	69	3	413	7	774	26	193	12	967	21
Medical Sciences	939	23	524	27	1,463	24	369	12	318	19	687	15
Social Sciences & Humanities	1,251	31	685	35	1,936	33	167	6	109	7	276	6
Other / Not Specified							63	2	24	1	87	2
<b>Total</b>	<b>4,004</b>	<b>100</b>	<b>1,961</b>	<b>100</b>	<b>5,965</b>	<b>100</b>	<b>2,974</b>	<b>100</b>	<b>1,628</b>	<b>100</b>	<b>4,602</b>	<b>100</b>

Source : National R&D Surveys Sri Lanka 1996 (NARESA) & 2004 (NSF)

## 2.7 : Educational Qualifications of R&D Scientists - 2004

Qualification	Male		Female		Total	
	No.	No.	%	No.	%	
Ph.D.	730	321	19.7	1,051	22.9	
M.Phil./ M.Sc.	723	429	26.4	1,152	25.0	
B.Sc. + P.G. Diploma	184	111	6.8	295	6.4	
B.Sc. (Special)	905	536	32.9	1,441	31.3	
B.Sc. (General)	432	231	14.2	663	14.4	
<b>Total</b>	<b>2,974</b>	<b>1,628</b>	<b>100.0</b>	<b>4,602</b>	<b>100.0</b>	

## 2.8 : Distribution of FTE of R&amp;D Scientists by Sector - 2004

Sector	Full Time Equivalent of R&D Scientists			
	Male	Female	Total	% Female
Higher Education	1,104	465	1,569	29.6
State	535	306	841	36.4
Private & NGO	179	90	269	33.5
<b>Total</b>	<b>1,818</b>	<b>861</b>	<b>2,679</b>	<b>32.1</b>

## 2.9 : Distribution of FTE of R&amp;D Scientists by Sector - 2004

Sector	Full Time Equivalent of R&D Scientists			
	Male	Female	Total	% Female
Natural Sciences	445	285	730	39.0
Agricultural Sciences	394	180	574	31.4
Engineering & Technology	625	148	773	19.1
Medical Sciences	124	115	239	48.1
Social Sciences & Humanities	167	109	276	39.5
Other / Not Specified	63	24	87	27.6
<b>Total</b>	<b>1,818</b>	<b>861</b>	<b>2,679</b>	<b>32.1</b>

**PERFORMANCE INDICATORS  
FOR  
SCIENCE AND TECHNOLOGY**

## 3.1 : Number of Patents registered locally during 1995 - 2004

Year	Resident	Non resident	Total
1995	64	95	159
1996	98	107	205
1997	65	96	161
1998	44	97	141
1999	78	101	179
2000	59	69	128
2001	71	104	175
2002	62	56	118
2003	59	53	112
2004	99	91	190

Source : National R&D Surveys Sri Lanka 1996 (NARESA) & 2004 (NSF)

## 3.2 : Number of Patents registered locally during the period 2001- 2004 by Sector

Sector	2001	2002	2003	2004
S&T Institutes	5	5	8	5
Higher Education	1	1	4	4
Private	4	7	8	13
Individual	64	49	41	75
<b>Total</b>	<b>74</b>	<b>62</b>	<b>61</b>	<b>97</b>

### 3.3 : Distribution of Patents according to classification

Classification	Year				Total
	2001	2002	2003	2004	
Dryers/Dehydration Technology	3	0	1	1	5
Food and Beverage Process Technology	2	2	4	5	13
Rubber Production and Processing Technology	1	3	0	2	6
Agricultural Systems and Development Technology	7	5	5	7	24
Construction Technology and Materials	3	1	3	4	11
Packaging and Packing Materials	3	1	1	7	12
Energy Saving/ Generating Devices	10	9	3	5	27
Process Technology - Manufacturing Sector	5	2	4	5	16
Process Technology - Miscellaneous	3	3	6	5	17
Innovations in Domestic Appliances/Utilities	7	19	9	11	46
Innovations - Miscellaneous	23	7	11	19	60
Product Development	7	10	14	26	57
<b>Total</b>	<b>74</b>	<b>62</b>	<b>61</b>	<b>97</b>	<b>294</b>

### 3.4 : Summary of Technological Innovations and New Processes Developed in 2001-2004

Type	2001 - 2002	2003 - 2004
Technological Innovations	39	70
New Processes Developed	22	45
High Technology Products Produced	24	44
Technology Transfer Activities	1,572	2,324

## 3.5 : Performance of S&amp;T sector 2001-2004

	National		International	
	2001 - 2002	2003 - 2004	2001 - 2002	2003 - 2004
Articles (newspaper, newsletter, web etc.)	490	545	104	142
Books	13	170	40	49
Journal articles	67	73	22	52
Publications	171	187	64	83
Other publications	11	2	9	16
Papers presented	892	944	257	312
Seminars attended	759	1,000	174	225
Workshops participated	840	1,227	294	192
Meetings attended	618	819	146	172
Other meetings	278	279	42	83
No. of Consultancies involved	552	870	38	59
Consultancy projects undertaken	124	177	13	19
No. of Special Awards	87	83	7	23
Visiting Fellowships - Within the country	16	20	20	21
Visiting Fellowships - Overseas	90	51	19	79

### 3.6 : Authorship pattern of Sri Lankan papers in SCI according to main fields for the Year 2004

	Sri Lankan only	%	With foreign co-authorship	%	Total
Agricultural Sciences	8	66.7	4	33.3	12
Biological Sciences	11	37.9	18	62.1	29
Biotechnology	3	42.9	4	57.1	7
Chemical Sciences	7	28.0	18	72.0	25
Computer Science & ICT	0	0.0	0	0.0	0
Earth Sciences	1	14.3	6	85.7	7
Education	0	0.0	0	0.0	0
Energy	3	75.0	1	25.0	4
Engineering & Technology	4	100.0	0	0.0	4
Environmental Sciences	3	37.5	5	62.5	8
Fisheries/ Aquaculture	0	0.0	2	100.0	2
Food Science	4	50.0	4	50.0	8
Forestry	0	0.0	5	100.0	5
Industries/Trade	0	0.0	1	100.0	1
Mathematics	0	0.0	0		0
Medical & Health Sciences	37	52.9	33	47.1	70
Natural Resources	1	9.1	10	90.9	11
Physics	8	30.8	18	69.2	26
Social Sciences	1	25.0	3	75.0	4
Veterinary Sciences	1	12.5	7	87.5	8
<b>Total</b>	<b>92</b>	<b>39.8</b>	<b>139</b>	<b>60.2</b>	<b>231</b>

## 3.7 : Postgraduate output in 2000-2004

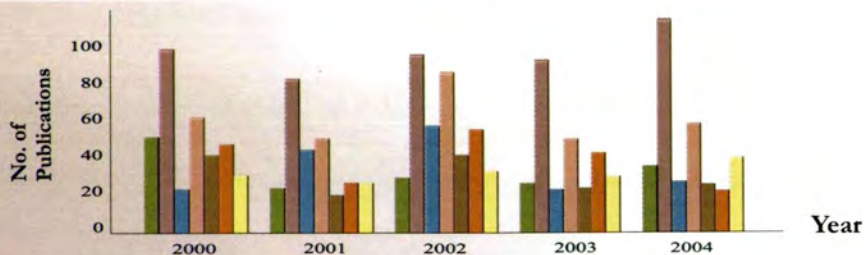
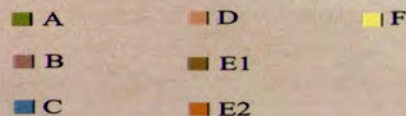
Degree	Year	Medical	Computer	Agriculture	Science	Engineering	Total
PG Dip.	2000	112	37	1	2	-	152
	2004	167	20	2	5	105	299
MSc./MEng.	2000	101		21	18	-	140
	2004	37	44	130	83	206	500
M.Phil.	2000	0		9		-	9
	2004	5		11	8	18	42
Ph.D.	2000	102		3		-	105
	2004	205		1	4	2	212
<b>Total</b>	<b>2000</b>	<b>315</b>	<b>37</b>	<b>34</b>	<b>20</b>	<b>-</b>	<b>406</b>
	<b>2004</b>	<b>414</b>	<b>64</b>	<b>144</b>	<b>100</b>	<b>331</b>	<b>1053</b>

Source : University Statistics 2005, UGC

### 3.8 : Number of SLAAS presentations at Annual Proceedings and Number of Scientists involved during 2000-2004

	No. of publications					No. of Scientists involved				
	2000	2001	2002	2003	2004	2000	2001	2002	2003	2004
A (Medical Sciences)	52	25	30	27	36	189	118	87	111	104
B (Agricultural Sciences)	102	85	98	95	118	197	224	49	241	135
C (Engineering)	24	46	59	24	28	31	99	23	70	60
D (Life Sciences)	64	52	89	52	61	129	165	97	114	105
E1 (Physical Sciences)	43	21	43	24	27	103	48	87	44	71
E2 (Chemical Sciences)	49	28	57	44	23	127	82	90	95	59
F (Social Sciences)	31	28	34	31	41	34	49	52	65	93
<b>Total</b>	<b>365</b>	<b>285</b>	<b>410</b>	<b>297</b>	<b>334</b>	<b>810</b>	<b>785</b>	<b>485</b>	<b>740</b>	<b>627</b>

Source : SLAAS proceedings 2000-2004



**3.9 : Performance of NSF Research Grants Scheme (2000-2004)**

Category	(2000- 2004) by Discipline					Total
	Natural Sciences	Agriculture	Engineering	Medical Sciences	Social Sciences	
Completed Grants	85	15	41	9	7	157
Total Expenditure in Rs. million	40	6	30	27	1	104
Masters & Doctoral Degrees	13	3	8	9	2	35
Publications (Foreign)	29	4	13	6	7	59
Publications (Local)	43	10	21	6	10	90
Communications	93	7	22	29	6	157

Source : NSF Annual Reports & National R&D Survey 2004

NA-325-2A

# KEY SOCIO-ECONOMIC INDICATORS

## 4.1 : Demography

Item	1996	2000	2002	2004 (a)
Mid-Year Population, '000 (b)	18,336	19,359	19,007	19,462
0-14 Years	6,456	6,815	5,062	5,185
15-54 Years	10,146	10,714	11,410	11,678
55 Years and Over	1,734	1,830	2,535	2,599
Density of Population, Persons per Sq. km.	279	295	304	310
Total Labour Force	6,241	6,827	7,145	7,654
Labour Force Participation rate	48.7	50.3	50.3	48.9
Unemployment Rate			8.8	7.7
Growth of Population %	1.2	1.3	1.2	1.2
Crude Birth Rate, per 1,000 Population	19.5	18.4	19.1	18.5
Crude Death Rate, per 1,000 Population	7.0	6.1	5.8	5.8
Rate of Natural Increase, per 1,000 Population	12.5	12.3	13.3	12.7
Net Migration Rate, per 1,000 Population	0.3	1.5	-0.9	-1.2
Infant Mortality Rate, per 1,000 Live Births	17.3	13.3	11.2	n.a.

Source : Central Bank of Sri Lanka 2005

(a) Provisional data

(b) Historical estimates of mid-year population from the Registrar General's Department.

## 4.2 : Human Development Indicators – Comparative Statistics

Indicator	Sri Lanka	India	Pakistan	Bangladesh	Malaysia	Singapore	UK	Japan
Life expectancy at birth (2003)	74	63.3	63.0	62.8	73.2	78.7	78.4	82.0
Human Development Index (2003)	0.751	0.602	0.527	0.520	0.796	0.907	0.939	0.943
GDP per Capita (US\$) 2002	873	487	408	351	3,905	20,886	26,444	31,407
Health Expenditure (*PPP US\$) 2001	122	80	85	58	345	993	1,989	2,131
Health Expenditure (% of GDP) 2001								
Public	1.8	0.9	1.0	1.6	2.1	1.3	6.2	6.2
Private	1.9	4.2	3.0	2.0	1.8	2.6	1.4	1.8
Education Expenditure (% of GDP) 2001								
Public	3.1	4.9	1.8	1.5	5.1	3.7	5.3	3.5
Physicians (per 100,000 people) 1993-2003	43	51	68	23	68	140	164	202
Adult Literacy Rate (% ages 15 and above)	90.4	61.0	48.7	41.1	88.7	92.5		

Source : Human Development Report 2005 , UNDP , UNESCO - Global Education Digest 2005

\*PPP – Purchasing Power Parity

## 4.3 : Key Indicators on Household Income

Percentage of Poor Households based on the Official Poverty Line by Sector

Sector	1990/91	1995/96	2002
All Island	21.8	24.3	19.2
Urban	12.9	11.0	6.2
Rural	24.7	25.9	20.8
Estate	16.7	32.2	24.3

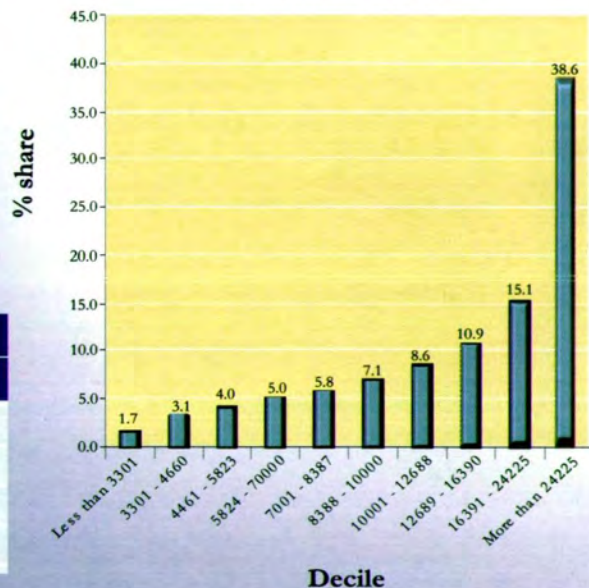
Source : Department of Census and Statistics, Sri Lanka 2004

Gini Coefficient of Household Income By Sector

Sector	Survey Period				
	2002	1995/96	1990/91	1985/86	1980/81
All Island	0.48	0.46	0.47	0.46	0.43
Urban	0.51	0.47	0.62	0.48	0.44
Rural	0.46	0.46	0.42	0.43	0.38
Estate	0.32	0.34	0.25	0.31	0.27

Source : Department of Census and Statistics, Sri Lanka 2004

Percentage Income share by Household income Decile



#### 4.4 : Land, Energy & Environment Indicators

	Sri Lanka	South Asia
<b>Land</b>		
Land area(000sq.km)	65	4,781
Land use, permanent crop land (% of total land area)	15.8	2.1
Irrigated land (% of crop land)	31.8	40.9
Fertilizer consumption (100 grams/ha of arable land)	2,429	999
Food production index (1989-91=100)	114.3	122.7
Population density, rural (people per sq.km)	1,652	531
<b>Forests</b>		
Forest area (000 sq.km)	18	744
Forest area (% of total land area)	27.8	15.6
Annual deforestation rate (% change, 1990-95)	1.1	0.2
<b>Biodiversity</b>		
Mammal species, total known	88	
Mammal species, threatened	14	
Bird species, total known	250	
Bird species, threatened	11	
Nationally protected area (% of land area)	13.3	4.5
<b>Energy</b>		
GDP per unit of energy use (PPP \$ per kg of oil equivalent)	7.6	
Commercial energy use per capita (kg)	386	443
Energy imports, net (% of commercial energy use)		
Electric power consumption per capita (kwh)	227	324
Share of electricity generated by Oil (%)	33.0	7.0
<b>Environment</b>		
CO <sub>2</sub> emissions per unit of GDP (kg per PPP \$ of GDP)	0.1	0.5
Total CO <sub>2</sub> emissions, industrial (000 kt)	7.1	1,125.1
CO <sub>2</sub> emissions per capita (mt)	0.4	0.9

## 4.5 : Major River Basins

Name of Basin	Catchments Area Sq. Km.	Name of Basin	Catchment Area Sq. Km.
Mahaweli Ganga	10,327	Rekawa Oya	755
Bentota Ganga	6,622	Attanagala Oya	727
Malvatu Oya	3,246	Heda Oya	604
Kala Oya	2,772	Karambala Oya	589
Kaluganga	2,688	Nay Aru	560
Deduru Oya	2,616	Andella Oya	522
Walawe Ganga	2,442	Wila Ara	484
Kelani Ganga	2,278	Pali Aru	451
Gal Oya	1,792	Kantalai Basin Per	445
Maduru Oya	1,541	Karanda Oya	422
Yan Oya	1,520	Malala Oya	399
Mi Oya	1,516	Pankulam Aru	382
Maha Oya	1,510	Bolgoda Lake	374
Mundeni Aru	1,280	Per Aru	374
Menik Ganga	1,272	Uruhokke Oya	348
Kumbukkan Oya	1,218	Magalawatavan Aru	346
Kirindi Oya	1,165	Mendekal Aru	297
Ma Oya	1,024	Polwatta Ganga	233
Kanakarayan Aru	986	Miyangolla Ela	225
Nilwala Ganga	960	Kirama Oya	223
Moderagama Aru	932	Kachigalan Oya	220
Gin Ganga	922	Pantampola Oya	215
Parangi Aru	832	Ratmal Oya	215

Source : Hydrology Division, Irrigation Department, Colombo

Note : Ganga = river, Oya = small river, Ela/Aru = Stream

#### 4.6 : Summary Indicators of Government Expenditure on Education 2000-2003

Rs.million

Year		2000	2001	2002	2003
Government Expenditure	Recurrent	254,279	303,362	330,847	334,693
	Capital	67,769	67,902	58,595	75,089
	<b>Total</b>	<b>3,22,048</b>	<b>3,71,264</b>	<b>389,442</b>	<b>409,782</b>
Expenditure on Education	Recurrent	26,084	32,044	35,239	35,616
	Capital	6,296	5,531	4,606	4,615
	<b>Total</b>	<b>32,380</b>	<b>37,575</b>	<b>39,845</b>	<b>40,231</b>
Total Education Expenditure as % of GNP	Recurrent	2.37	2.62	2.56	2.31
	Capital	0.57	0.45	0.33	0.30
	<b>Total</b>	<b>2.94</b>	<b>3.08</b>	<b>2.89</b>	<b>2.61</b>
Expenditure on Higher Education	Recurrent	3,947	4,945	5,214	5,538
	Capital	1,464	1,439	1,098	1,173
	<b>Total</b>	<b>5,411</b>	<b>6,384</b>	<b>6,312</b>	<b>6,711</b>
Total Higher Education Expenditure as % of GNP	Recurrent	0.36	0.40	0.38	0.36
	Capital	0.13	0.12	0.08	0.08
	<b>Total</b>	<b>0.49</b>	<b>0.52</b>	<b>0.46</b>	<b>0.44</b>
Expenditure on University Education	Recurrent	3,832	4,729	5,071	5,405
	Capital	1,279	1,432	1,037	1,092
	<b>Total</b>	<b>5,111</b>	<b>6,161</b>	<b>6,108</b>	<b>6,497</b>

Source : Department of Education

## 4.7 : Statistics on Secondary Education 2000-2003

Indicator	2000	2001	2002	2003
Total no. of Schools	10,615	10,552	1,0508	10,475
No. of Schools with classes up to A/L	2,360	2,367	2,347	2,358
No. of Schools with Science up to A/L	575	600	602	606
Percent of A/L Schools with Science	24.4	25.3	25.6	25.7
Total no. of Students	4,340,447	4,337,314	4,179,217	4,096,886
Total no. of Teachers	194,718	198,410	196,407	194,931
Student/Teacher ratio	22.3	21.9	21.3	21.0
Total no. of Graduate teachers (1)	45,454	47,426	47,436	48,009
Graduate teachers/ Total teachers	23.3	23.9	24.2	24.6
No. of Science Graduate teachers	5,638	6,229	6,294	6,594
Science Graduates/Total Graduates	12.4	13.1	13.3	13.7
Certificated Science/Math teachers (2)	22,350	23,669	23,526	24,498
Uncertificated Science teachers (3)		1,227	753	1,126
All Science teachers (1), (2) & (3)	27,988	31,125	30,573	32,218

Source : Department of Education

#### 4.8 : Total Enrolment in Science & Technology Courses at Universities 2003-2004

Course	Undergraduates				Post Graduate			
	Enrolment		Output		Enrolment		Output	
	2003	2004	2003	2004	2003	2004	2003	2004
Science	8,588	8,652	1,726	1,875	493	359	98	147
Medicine/Dental/Veterinary	7,483	7,425	1,408	1,427	45	71	8	42
Agricultural sciences	2,658	2,853	394	402	41	28	2	2
Engineering	5,073	5,269	629	683	32	117	22	94
Architecture /Quantity surveying	513	812	81	92	27	66	14	62
Computer science & IT	150	201						

Source: University Statistics 2005, UGC

## 4.9 : Statistics on Higher Education - Funds, Students Enrolment and Staff 2004

Institution	Recurrent funds (Rs million)	Total Enrolment Undergraduate	Total Enrolment Post graduate	Academic Staff	Academic support staff	Admin. Support staff
<b>a) Universities</b>	<b>3,841.9</b>	<b>68,258</b>	<b>5,786</b>	<b>3,525</b>	<b>1,004</b>	<b>7,703</b>
Colombo	440.3	8,784	1,213	431	45	843
Peradeniya	862.8	9,903	258	730	174	2,089
Sri Jayawardanapura	384.1	9,376	308	360	110	660
Kelaniya	394.9	8,110	597	410	72	637
Moratuwa	277.4	4,181	183	226	17	522
Jaffna	258.0	4,640	146	281	101	528
Ruhuna	428.8	6,746	129	392	140	814
Eastern	151.2	1,950	46	166	29	312
South Eastern	103.0	1,154	22	91	26	157
Rajarata	108.2	1,802	98	81	34	158
Sabaragamuwa	130.0	2,395	48	103	31	251
Wayamba	92.9	1,309		75	24	176
Open University	210.3	7,908	2,738	179	145	556
<b>b) Institutes</b>	<b>278.0</b>	<b>4,451</b>	<b>2,838</b>	<b>241</b>	<b>225</b>	<b>224</b>
Post graduate	40.8		2,639	41	161	89
Other	237.1	4,451	199	200	64	135
<b>c) University Grants</b>	<b>52.6</b>					
<b>d) Financial Assistance</b>	<b>430.0</b>					
<b>Total Recurrent funds</b>	<b>4,602.5</b>					

Source : University Statistics 2005, UGC

#### 4.10 : Statistics on Technical Training 2001-2004

Item	2001	2002	2003	2004
<b>Total No. of Technical Colleges</b>	<b>36</b>	<b>37</b>	<b>36</b>	<b>36</b>
Grade 1 teaching colleges	36	37	36	36
<b>Number of Staff</b>	<b>1,675</b>	<b>1,675</b>	<b>1,817</b>	<b>1,692</b>
Teaching Staff	574	538	542	515
Others	1,101	1,137	1,275	1,177
<b>New Admissions</b>	<b>11,377</b>	<b>13,197</b>	<b>13,108</b>	<b>11,866</b>
<b>Total enrolment</b>	<b>16,263</b>	<b>17,850</b>	<b>18,265</b>	<b>17,200</b>
Higher National Diploma (HND)	*	*	*	*
National Diploma (ND)	83	93	101	108
National Certificate	7,432	8,515	8,657	7,750
National Craft (Trade)	2,931	3,354	3,308	3,025
Others	931	1,235	1,042	983
<b>Total Expenditure on Technical Education (Rs. million)</b>	<b>413</b>	<b>444</b>	<b>410</b>	<b>515</b>
Recurrent Expenditure ( Rs. million)	309	319	330	394
Capital Expenditure (Rs. million)	104	125	80	121

Source : Department of Census and Statistics, Sri Lanka 2004

\* All HND and ND courses (except Diploma in Jewellery design) were taken over by SLIATE (Sri Lanka Institute of Advanced Technical Education)

\*PPP - Purchasing Power Parity

## 4.11 : Salient Features of Health Services 2001-2004

	2001	2002	2003	2004	
<b>Expenditures</b>	Annual State National Health Expenditure Per Capita (Rs.)	1,222	1,339	1,417	1,764
	Total Health Expenditure as % of GNP	1.6	1.9	1.5	1.7
	% of Public Spending on Health	4.9	4.6	4.1	
	Life Expectancy (yrs)	73	73	73	73
<b>Health Facilities</b>	No. of Hospitals	729	736	779	791
	No. Public Hospitals	569	576	607	617
	No. Private Hospitals	160	160	172	174
	Total Beds	57,946	59,144	67,746	68,978
	No. in Public Hospitals	57,946	59,144	59,246	60,328
	No. in Private Hospitals			8,500	8,650
	Primary Care Units	1,006	1,012	1,043	1,094
	Public (First contact treatment centres) (PU+RH+CDMH+CD)	741	751	761	777
	Private (Clinics)	n/a	n/a	21	21
	Preventive care (Health) Centres (MOH)	265	261	261	296
Pharmacies (private out -patient)	468	520	599	692	

Source: Ministry of Healthcare and Nutrition;  
Central Bank of Sri Lanka

#### 4.12 : Distribution of Manpower in Health Sector

Item	2004
<b>Western Medical System</b>	
Total No. of Administrative staff	424
Total No. of Administrative Supporting staff	4,495
Total No. of Specialists	730
Total No. of Consultants	79
Total No. of Medical Officers	8,749
Total No. of Assistant Medical Practitioners	1,276
Total No. of Dental Surgeons	805
Total No. of Nurses	27,138
Total No. of Midwives	8,861
Total No. of Statisticians	50
Total No. of Attendants	6,696
Total No. of Other Supporting Staff	31,311
Total No. of Technical Staff	3,244
Total No. of Health Education Officers	49
Total No. of Public Health Inspectors	1,579
Total No. of Pharmacists	980
Total No. of Dispensers	886
<b>Ayurvedic Medical System:</b>	
Teaching Hospitals	3
Central Dispensaries	124
Provincial Hospitals	47
Local Dispensaries	231
Research Institutes	1
National Institute of Traditional Medicine	1
Herbal Gardens	5
Total Number of Ayurvedic Physicians	17,038

Source :  
Ministry of Healthcare  
& Nutrition, Department of  
Ayurveda, Central Bank  
of Sri Lanka

## 4.13 : Trends in Economic Activity in South Asia, 1980-2002

	Sectoral composition of Production (% GDP)						Sectoral share of Labour Force (% of total)					
	Agriculture		Industry		Services		Agriculture		Industry		Services	
	1980	1995 - 2002	1980	1995 - 2002	1980	1995 - 2002	1985 - 1986	2002	1985 - 1986	2002	1985 - 1986	2002
Bangladesh	49.4	17.6	14.8	27.9	35.8	54.6	56.5	62.0	11.5	10.0	33.7	24.0
Bhutan	56.7	30.3	12.2	39.2	31.1	33.6	-	94.0	-	1.0	-	5
India	38.1	23.4	25.9	23.8	36.0	54.9	65.0	67.0	10.0	13.0	26.6	20.0
Iran	18.0	12.0	32.0	39.0	50.0	49.0	36.4	23.0	32.8	32.0	30.8	45.0
Maldives	31.0	7.2	6.0	20.8	63.0	72.0	-	22.0	-	18.0	-	60
Mongolia	15.0	33.0*	33.0	28.0*	52.0	-	39.8	32.0*	21.0	23.0*	39.2	45.0*
Myanmar	47.0	59.0*	13.0	10.0*	40.0	-	-	63.0	-	21.0	-	16
Nepal	61.8	39.2	11.9	20.8	26.3	43.9	93.0	81.0	0.6	3.0	6.4	6.0
Pakistan	30.6	22.3	25.6	21.2	43.8	56.4	49.6	48.0	12.4	18.0	38.0	34.0
Sri Lanka	26.6	21.4	27.2	24.7	46.2	54.0	49.8	42.0	18.8	23.0	32.2	35.0
South Asia	37.8	24.6*	25.0	30.2*	37.2	55.2*	62.8	64.6*	10.6	14.8*	27.2	18.6*

Sources : UNESCO World Science Report (1998)

\* Data for 1997

#### 4.14: Composition of Gross Domestic Product 2002 - 2004

Rs.million

Sector	Current Price					Constant (1996)			
	2002	2003	2004	2002	%	2003	%	2004	%
<b>Agriculture, Forestry and Fishing</b>	287,840	297,342	320,201	173,623	20	176,450	19	175,852	18
Mining and Quarrying	25,821	27,489	35,965	14,857	2	15,699	2	16,946	2
Manufacturing	221,970	243,596	275,834	145,864	17	151,951	16	159,721	16
Electricity and water	20,314	28,405	27,678	12,044	1	14,651	2	14,287	1
Construction	100,590	113,284	142,429	60,796	7	64,115	7	68,332	7
<b>Industry Sector</b>	368,695	412,774	481,906	233,562	27	246,417	26	259,286	26
Wholesale and Retail Trade, Hotels and Restaurants	295,485	323,285	380,870	191,505	22	206,507	22	219,041	22
Transport, Storage and Communication	175,711	216,059	260,272	113,525	13	125,538	13	142,727	15
Financial Services, Real Estate and Business Services	158,054	192,688	217,609	99,820	11	108,590	12	114,661	12
Public Administration, Defence and other Services	117,500	120,588	139,570	65,213	7	66,556	7	69,153	7
<b>Services Sector</b>	746,751	852,621	998,321	470,063	53	507,191	55	545,582	56
<b>Gross Domestic Product</b>	1,403,286	1,562,737	1,800,750	877,248	100	930,057	100	980,720	100

## 4.15 : Realised Investments in BOI Projects in 2003-2004

Categories	Rs.million					
	No. of Enterprises		Foreign Investment		Total investment potential	
	2003	2004	2003	2004	2003	2004
Food Beverages and Tobacco products	148	155	9,773	12,493	15,774	21,184
Textile, Wearing apparel and leather products	500	518	26,806	26,313	40,110	42,700
Wood and wood products	24	27	3,680	5,218	3,916	5,458
Paper and paper products	25	27	497	504	1,638	1,644
Chemical, petroleum, rubber and plastic products	138	140	15,058	14,660	29,640	21,259
Non metallic Mineral products	66	65	5,217	9,703	12,486	17,669
Basic metal products	—	—	—	—	—	—
Fabricated metal products, machinery and transport equipment	75	88	6,390	7,189	8,088	9,454
Manufactured products	166	163	6,763	8,176	9,907	10,703
Services	624	684	112,598	124,440	165,921	189,394

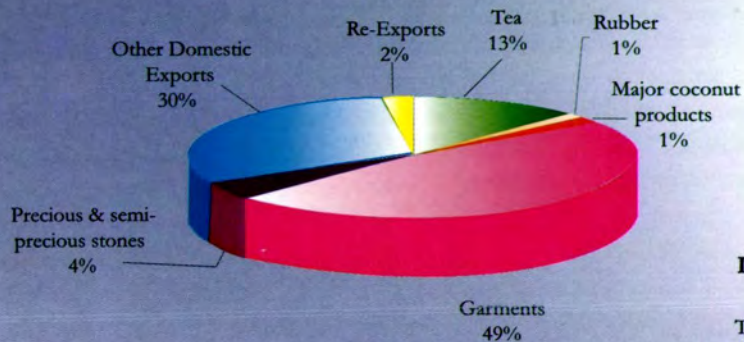
#### 4.16 : Industrial Production by Sub-Sectors

Sub sector	Value of Industrial Production (Rs. million)				Value Added in industry (Rs. million)			Capacity utilization	
	2000	%	2004	%	2000	%	2004	%	2004
Food, Beverages & Tobacco products	105,671	23	172,424	25	49,031	29	72,636	31	91
Textile, Wearing apparel and leather products	215,686	47	295,379	42	69,451	41	91,308	39	88
Wood & wood products	3,084	1	4,277	1	1,554	1	2,007	1	74
Paper & paper products	6,516	1	9,869	1	2,808	2	3,374	1	86
Chemical, petroleum, rubber & plastic products	74,670	16	123,491	18	17,771	11	26,179	11	76
Non metallic mineral products	28,198	6	47,231	7	14,240	9	19,881	8	87
Basic metal products	3,378	1	5,366	1	959	1	1,593	1	59
Fabricated metal products, machinery and transport equipment	15,678	3	24,964	4	7,714	5	11,679	5	89
Manufactured products	9,839	2	14,088	2	3,965	2	5,425	2	89
<b>Total</b>	<b>462,720</b>	<b>100</b>	<b>697,089</b>	<b>100</b>	<b>167,493</b>	<b>100</b>	<b>234,082</b>	<b>100</b>	

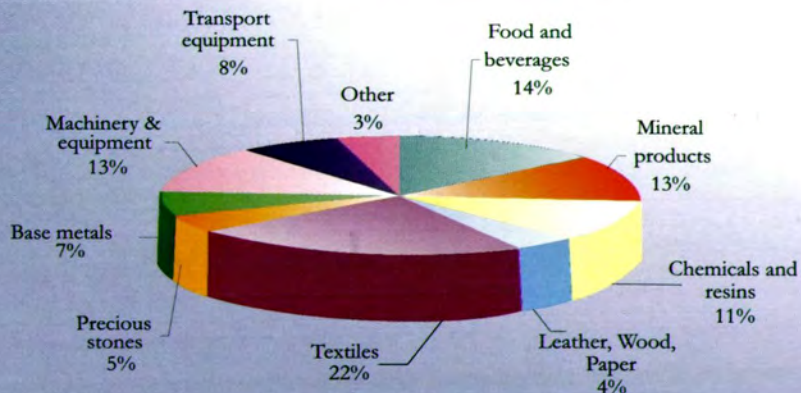
Source : Department of Census and Statistics 2005

## 4.17 : Composition (Value) of Exports &amp; Imports 2003

Exports by Principal Commodity - 2003



Imports by Principal Commodity - 2003



Source : Central Bank, Sri Lanka 2004

#### 4.18 : Principal indicators of Industrial Activities classified by different Categories – 2001\*

Industrial Category	No. of establishments (No)	Persons engaged (No)	Employees (No)	Salaries & Wages (Rs. m)	Value of output (Rs. m)	Value of input (Rs. m)	Value added (Rs. m)
Other Mining	1,656	13,879	12,831	232	780	214	566
Food, Beverages & Tobacco	3,865	45,433	28,881	656	9,215	5,608	3,607
Textile, Wearing Apparel & Leather	2,112	25,114	23,066	796	3,624	2,157	1,467
Wood, Wood Products & Furniture	902	8,561	7,491	188	701	226	475
Paper Products, Printing & Publishing	264	1,870	1,498	50	2,896	1,985	911
Chemicals, Petroleum, Rubber & Plastic	656	7,963	7,312	202	1,528	916	611
Non-metallic Mineral Products	1,599	16,712	14,857	344	722	308	414
Metal Products, Machinery & Equipment	475	2,927	2,422	98	484	175	308
Other Manufacturing Industries	225	1,681	1,219	40	732	241	490
<b>Total</b>	<b>11,754</b>	<b>124,140</b>	<b>99,577</b>	<b>2,606</b>	<b>20,682</b>	<b>11,830</b>	<b>8,849</b>

Source : Department of Census and Statistics 2004

\* Establishments with 5 or more persons engaged

## Glossary

### Abbreviations Used

GERD	Gross Expenditure on R&D
GDP	Gross Domestic Product
GNP	Gross National Product
HND	Higher National Diploma
IT	Information Technology
NA	Not Applicable
NGO	Non Government Organization
NSF	National Science Foundation
R&D	Research and Development
S&T	Science and Technology
SCI	Science Citation Index
SLAAS	Sri Lanka Association for the Advancement of Science
STP	Science and Technology Personnel
STPRD	Science & Technology Policy Research Division
UGC	University Grants Commission