



NATIONAL SCIENCE AND TECHNOLOGY MANAGEMENT INFORMATION SYSTEM
DEPARTMENT OF SCIENCE & TECHNOLOGY
MINISTRY OF SCIENCE & TECHNOLOGY
GOVERNMENT OF INDIA
NEW DELHI-110016 (INDIA)

S&T INDICATORS TABLES

RESEARCH AND DEVELOPMENT STATISTICS 2025-26

July 2026



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Disclaimer

The indicators presented in this publication are derived from the latest S&T data collected through national S&T surveys and secondary sources. Although rigorous measures have been taken to ensure accuracy and reliability, we welcome feedbacks and suggestions to further improve future editions.

डॉ० जितेन्द्र सिंह

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Minister of State in the Department of Atomic Energy and
Minister of State in the Department of Space
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MESSAGE

I am pleased to extend my warmest congratulations to the Department of Science and Technology (DST) for successfully completing the National S&T Survey, 2024-25, and bringing out its findings in the form of the publication titled *Science & Technology (S&T) Indicators Tables 2025-26*. This publication is a comprehensive compilation of key statistical indicators that reflect the status and progress of India's science, technology and research ecosystem. It provides valuable insights into emerging trends, sectoral performance, and the evolving capabilities of the country's research ecosystem, while also facilitating national and global benchmarking.

Science, technology, and innovation are central to India's aspirations of becoming a knowledge-driven and globally competitive economy. The Government of India has consistently prioritized strengthening the national research and innovation ecosystem through strategic investments, policy initiatives, and institutional support. As the country advances towards the vision of Viksit Bharat, robust and reliable S&T statistics are indispensable for informed policymaking, effective resource allocation, and evidence-based decision-making.

I am confident that this publication will serve as a valuable reference for policymakers, researchers, academia, industry, and other stakeholders engaged in strengthening India's scientific and technological capabilities.

I commend the National Science and Technology Management Information System (NSTMIS), DST for its continued efforts in developing a robust statistical foundation for India's science, technology, and innovation ecosystem and wish this publication every success.

(Dr. Jitendra Singh)

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सचिव
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FOREWORD

The Department of Science and Technology (DST), Government of India, is committed to strengthening the country's Science Technology and Innovation (STI) ecosystem through informed policymaking and strategic interventions. In this endeavor, reliable and comprehensive statistical indicators serve as an essential foundation for understanding the evolving landscape of science, technology, and research in the country.

This publication titled - *Science and Technology Indicators Tables 2025-26* is an outcome of National S&T Survey, 2024-25, which involves a mammoth task of collecting data from around 8000 R&D performing entities covering national laboratories, state research institutions, higher education institutions, public & private industries, scientific & industrial research organizations, etc. spread across the country. The planning and execution of the national S&T survey is an in-house exercise of NSTMIS programme of DST and reflects the dedicated efforts of the NSTMIS team led by Dr. Arvind Kumar with the support from Dr. Rabindra Kr. Panigrahy, Mr. Pramod Kr. Arya, Mr. Subrata Maiti and Ms. Hemlata.

I complement all the central ministries/departments, state governments, scientific agencies, research institutions, higher education institutions, industries, and industry associations for their active participation and valuable contribution to the national S&T survey exercise.

I hope that this publication will serve as a valuable reference for policymakers, researchers, academicians, industry representatives, and other stakeholders, supporting evidence-based policy planning, decision-making, benchmarking, and monitoring of India's progress in science, technology, and innovation.

(Umesh V. Waghmare)

July, 2026



डॉ. अरविंद कुमार
Dr. Arvind Kumar

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राष्ट्रीय विज्ञान एवं प्रौद्योगिकी प्रबंधन सूचना प्रणाली
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PREFACE

The publication titled - *Science and Technology Indicators Tables 2025–26* presents a comprehensive compilation of statistical indicators reflecting various dimensions of India's science, technology, and innovation (STI) ecosystem. It consolidates data on research and development (R&D) investments, scientific and technical human resources, and other related indicators essential for assessing the country's scientific and technological progress.

The indicators presented in this volume are derived from the National S&T Survey, 2024–25 and supplemented with data from various national and international sources. The compilation of the Indicator Tables follows internationally accepted concepts, definitions, classifications, and methodological frameworks recommended by UNESCO and the OECD.

We acknowledge the valuable support and cooperation extended by central ministries/departments, state governments, scientific agencies, research institutions, higher education institutions, industries, and industry associations in providing data and information for this compilation. We also sincerely appreciate the guidance and valuable inputs provided by the members of the duly constituted Expert Committee in enhancing the quality, robustness, and relevance of the indicators presented in this publication.

We hope that this publication will serve as a useful resource for understanding India's STI landscape and support informed policy formulation, research, and strategic planning.

(Arvind Kumar)

July, 2026

Acknowledgement

The publication of **Science and Technology Indicators Tables 2025–26** is the result of the collective efforts and contributions of various Ministries, Departments, R&D institutions, industry groups and associations, and implementing agencies involved in the National Science and Technology (S&T) Survey, 2024–25.

The National Science and Technology Management Information System (NSTMIS) Division of the Department of Science and Technology (DST) expresses its sincere gratitude to Prof. Umesh V. Waghmare, Secretary, DST, for his visionary leadership and guidance in bringing out this publication. NSTMIS also gratefully acknowledges the valuable guidance provided by Prof. Abhay Karandikar, Former Secretary, DST, throughout the survey process, and the support extended by Shri Sunil Kumar, Additional Secretary, DST, in facilitating responses from R&D institutions during the survey.

DST extends its heartfelt gratitude to the Secretaries of all ministries/departments of the Government of India especially Dr.(Mrs.) N. Kalaiselvi, Secretary, DSIR and DG, CSIR, for their continued support extended through the nominated nodal officers.

DST also sincerely acknowledges the support provided by Shri Vinay Kumar, Dr. (Ms.) Sarika Madan, and Dr. Anoop Singh from Department of Scientific and Industrial Research (DSIR) for their efforts in collection of information from the Scientific and Industrial Research Organisations (SIROs) and DSIR-registered industries.

The contributions of all the members of all industry groups & associations, particularly, Federation of Indian Chambers of Commerce & Industry (FICCI), India SME Forum, State S&T Councils and members of the duly constituted Expert Committee: Dr. Parveen Arora, Dr. Rajive Kumar, Prof. Ramakar Jha, Ms. Navanita Gogoi, Dr. Praveen Kumar, Prof Ankit Kumar, and Shri Vinay Kumar are gratefully acknowledged.

The NSTMIS also acknowledges the guidance provided by the Head, NSTMIS and the contribution of DST officials, namely: Dr. Nisha Mendirata, Dr. Praveen Roy, Dr. Pratishtha T Pandey and Dr. Ekta Kapoor.

The efforts of the implementing teams of the National S&T Survey, 2024–25—The Energy and Resources Institute (TERI), New Delhi led by Ms. N. Deepa with support from Dr. Anurag Anand, Ms. R. A. Maningdoula, Dr. Mithu Dey, and Ms. Jyoti Shukla; ICAR–National Academy of Agricultural Research Management (ICAR-NAARM) led by Dr. B. Ganesh Kumar with support from Ms. Asha; and Punjab Engineering College (PEC), Chandigarh led by Prof. Rajesh Bhatia with support from Dr. Sanjay K. Batish, Mr. Sushil Kumar, and Dr. Manish Kumar, in the timely collection and collation of S&T data and preparation of the R&D Statistics publication are duly acknowledged by NSTMIS, DST.

The NSTMIS, DST, gratefully acknowledges the wholehearted participation of R&D-performing entities and the valuable support of all stakeholders and contributors in this national S&T survey exercise.

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Abbreviations

AISHE	All India Survey of Higher Education
AYUSH	Ministry of Ayurveda, Yoga, Naturopathy, Unani, Siddha & Homoeopathy
BERD	Business Enterprise Research and Development
BRICS	Brazil, Russia, India, China, and South Africa
CAGR	Compound Annual Growth Rate
CPSUs	Central Public Sector Undertakings
CSIR	Council of Scientific & Industrial Research
DAE	Department of Atomic Energy
DBT	Department of Biotechnology
DoS	Department of Space
DRDO	Defence Research & Development Organisation
DSIR	Department of Scientific and Industrial Research
DST	Department of Science & Technology
FTE	Full Time Equivalent
GDP	Gross Domestic Production
GERD	Gross Expenditure on Research and Development / Gross Domestic Expenditure on Research and Development
GTO	Gross Turnover
ICAR	Indian Council of Agricultural Research
ICMR	Indian Council of Medical Research
ISRO	Indian Space Research Organisation
MeitY	Ministry of Electronics and Information Technology
MNRE	Ministry of New & Renewable Energy
MoE	Ministry of Education
MoEFCC	Ministry of Environment, Forest and Climate Change
MoES	Ministry of Earth Sciences
MoP	Ministry of Power
MoS	Ministry of Steel
MoWR	Ministry of Water Resources
MoSPI	Ministry of Statistics and Programme Implementation
NIRF	National Institutional Ranking Framework
NSF	National Science Foundation
NSTMIS	National Science and Technology Management Information System
OECD	Organisation for Economic Co-operation and Development

PCT	The Patent Cooperation Treaty
PSU	Public Sector Undertaking
R&D	Research and Development
S&E	Science and Engineering
S&T	Science and Technology
SAUs	State Agriculture Universities
STI	Science, Technology, and Innovation
SIROs	Scientific and Industrial Research Organizations
SPSUs	State Public Sector Undertakings
STO	Sales Turnover
UK	United Kingdom
UNESCO	United Nations Educational, Scientific and Cultural Organization
USA	United States of America
WIPO	World Intellectual Property Organization

Overview

The National Science and Technology Management Information System (NSTMIS), Department of Science and Technology (DST), serves as the nodal agency for the assessment, monitoring, and benchmarking of India's science, technology, and innovation (STI) ecosystem. To support evidence-based policymaking, NSTMIS has been conducting the National Science and Technology (S&T) Survey since 1973–74 on regular basis, creating a comprehensive repository of S&T data spanning over five decades.

The National S&T Survey, 2024–25 was conducted between December 2024 to December 2025 as census of R&D-performing institutions identified through the periodically updated Directory of R&D Institutions. The Survey covered more than 8,000 R&D-performing institutions across the country, representing six major sectors: Central Sector, State Sector, Public Sector Industry, Private Sector Industry, Scientific and Industrial Research Organisations (SIROs), and Higher Education Institutions (HEIs).

Data were collected through standardized questionnaires developed in accordance with the OECD Frascati Manual (2015), ensuring international comparability of the statistics. An online survey portal facilitated data submission while providing respondents with access to records from previous survey rounds, thereby improving reporting efficiency and data consistency.

The collected information underwent rigorous validation and was supplemented with data from authenticated secondary sources to address information gaps. These secondary sources include records from the Department of Scientific and Industrial Research (DSIR), the Centre for Monitoring Indian Economy (CMIE), Annual Reports, Business Responsibility and Sustainability Reporting (BRSR) reports, Public Enterprises Survey reports, the Agricultural Research Data Book, Demand for Grants, the National Institutional Ranking Framework (NIRF), the All India Survey on Higher Education (AISHE), National Assessment and Accreditation Council (NAAC), institutional websites, yearbooks, and other official publications.

The outcome of the Survey resulted in national estimates of major indicators such Gross Expenditure on Research and Development (GERD), Business Enterprises Expenditure on Research and Development (BERD) and Full time Equivalent (FTE) researchers engaged in R&D activities in the country and many other Indicators. The draft reports were reviewed, validated finalized in consultations with a duly constituted Expert Committee.

The National S&T Survey, 2024–25 culminated in the publication of two flagship reports: *Science and Technology Indicator Tables 2025-26* and *Research and Development Statistics at a Glance 2025-26*. The indicators presented in these publications cover key dimensions of the national R&D ecosystem, including R&D expenditure, human resources, institutional participation, research output, and sectoral performance. Developed using standardized definitions and internationally accepted methodologies, these indicators provide a reliable statistical framework for assessing the country's STI landscape. They serve as an important evidence base for policy formulation, strategic planning, resource allocation, performance monitoring, and international benchmarking.



S&T INDICATORS **TABLES**

Table 1

NATIONAL EXPENDITURE ON RESEARCH AND DEVELOPMENT BY SECTOR

(Rs. Crore)

Sector	1970-71	1980-81	1990-91	2001-02	2010-11	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25*	2025-26*
Central Sector	112.47	580.49	3058.27	11536.33	33095.18	38879.89	43094.90	46887.17	50219.42	56920.02	65423.90	69317.09	61281.48	79355.80	81183.38	85711.50	89130.71	92725.43
State Sector	12.58	59.34	365.92	1494.33	4457.81	5951.15	6327.32	6447.94	6866.96	7264.81	8029.21	8554.79	8476.35	8394.24	9193.28	9796.10	10582.52	11432.07
Private Sector	14.59	120.69	549.98	3292.69	19337.02	30514.80	32538.39	36022.15	39124.71	41855.88	42489.95	44753.54	46388.13	82974.99	95422.17	118351.68	141355.00	168834.00
Higher Education Sector	-	-	-	714.80	3306.74	4010.05	5512.83	6095.18	6888.17	7784.33	8797.08	9941.59	11235.00	24085.80	27579.29	30908.53	35127.90	40015.52
Total	139.64	760.52	3974.17	17038.15	60196.75	79355.89	87473.44	95452.44	103099.26	113825.03	124740.14	132567.01	127380.96	194810.83	213378.12	244767.81	276196.13	313007.02

Source : Data collected and compiled by National Science and Technology Management Information System (NSTMIS), Department of Science and Technology (DST), Government of India (GoI).

Note : 1. Central Sector data includes Research and Development (R&D) expenditure of Central Government R&D Labs/Institutes and Central Public Sector Enterprises/ Joint Sector companies.

2. State Sector data includes R&D expenditure of State Agricultural Universities (SAUs) and State Government R&D labs/Institutions.

3. Private Sector data includes in-house Private Sector R&D units and Scientific and Industrial Research Organisations (SIROs). SIROs are research-oriented entities recognized by the Department of Scientific and Industrial Research, GoI.

4. Higher Education Sector data includes R&D expenditure by Public and Private Sector Higher Education Institutes.

5. *2024-25 and 2025-26 data is estimated by applying sector-wise CAGR based on period from 2021-22 to 2023-24.

6. - Not available

Table 2

NATIONAL EXPENDITURE ON R&D BY INSTITUTIONAL AND INDUSTRIAL SECTORS

(Rs. Crore)

Sl No.	Sector	2021-22	2022-23	2023-24
A	INSTITUTIONAL SECTOR			
1	Institutions under Central Government	71022.31	72381.52	75655.72
2	Institutions under State Government	8394.24	9193.28	9796.10
3	Higher Education			
	<i>Higher Education (Public)</i>	18383.28	20573.11	22353.61
	<i>Higher Education (Private)</i>	5702.52	7006.18	8554.92
	Total Higher Education (Public + Private)	24085.80	27579.29	30908.53
4	Scientific and Industrial Research Organisation (SIRO)	5709.44	6739.10	7798.28
	TOTAL (A)	109211.79	115893.19	124158.63
B	INDUSTRY SECTOR			
7	Industry (Private)	77265.55	88683.07	110553.40
8	Industry (Public)	8333.49	8801.86	10055.78
	TOTAL (B)	85599.04	97484.93	120609.18
	Total (A+B)	194810.83	213378.12	244767.81

Source : Data collected and compiled by NSTMIS, DST, GoI.

Note : 1. Institutions under Central Government data includes R&D expenditure of Central Government R&D Labs/ Institutions.
 2. Institutions under State Government data include R&D expenditure of State Agricultural Universities (SAUs) and other State Government R&D labs/institutions.
 3. Higher Education Sector data includes R&D expenditure by Public and Private Higher Education Institutes.

Table 3

NATIONAL EXPENDITURE ON R&D IN RELATION TO GDP

Year	R&D Expenditure at current prices (Rs. Crore)	GDP at current prices (Rs. Crore)	R&D as % of GDP
Series: 2004-05			
1995-96	7483.88	1226725	0.61
1996-97	8913.61	1419277	0.63
1997-98	10611.34	1572394	0.67
1998-99	12473.17	1803378	0.69
1999-00	14397.60	2023130	0.71
2000-01	16198.80	2177413	0.74
2001-02	17038.15	2355845	0.72
2002-03	18088.16	2536327	0.71
2003-04	20086.34	2841503	0.71
2004-05	24117.24	3242209	0.74
2005-06	29932.58	3693369	0.81
2006-07	34238.39	4294706	0.80
2007-08	39437.77	4987090	0.79
2008-09	47353.38	5630063	0.84
2009-10	53041.30	6477827	0.82
2010-11	60196.75	7784115	0.77
Series: 2011-12			
2011-12	65961.33	8736329	0.76
2012-13	73982.79	9944013	0.74
2013-14	79355.89	11233522	0.71
2014-15	87473.44	12467959	0.70
2015-16	95452.44	13771874	0.69
2016-17	103099.26	15391669	0.67
2017-18	113825.03	17090042	0.67
2018-19	124740.14	18899668	0.66
2019-20	132567.01	20103593	0.66
2020-21	127380.96	19854096	0.64
2021-22	194810.83	23597398	0.83
Series: 2022-23			
2022-23	213378.12	26117627	0.82
2023-24	244767.81	28983909	0.84
2024-25*	276196.13	31807309	0.87
2025-26*	313007.02	34635638	0.90

Source : Data collected and compiled by NSTMIS, DST, GoI.

- Note :**
1. Data on GDP from 1995-96 to 2010-11- Economic Survey 2018-19.
 2. Data on GDP from 2011-12 to 2021-22 - Economic Survey 2025-26.
 3. Data on GDP from 2022-23 to 2025-26- MoSPI New GDP Series, June 2026.
 4. R&D/GDP ratio have been revised as per the new GDP figures.
 5. *Estimated

Table 4

NATIONAL EXPENDITURE ON R&D AT CURRENT AND CONSTANT PRICES

(Rs. Crore)

Year	National Expenditure on Research and Development	
	Current Prices	Constant Prices
Base Year: 2004-05		
1985-86	2068.78	7960.98
1990-91	3974.17	10085.15
1995-96	7483.88	11627.32
1996-97	8913.61	12873.45
1997-98	10611.34	14393.25
1998-99	12473.17	15663.93
1999-00	14397.60	17542.37
2000-01	16198.80	19042.89
2001-02	17038.15	19405.60
2002-03	18088.16	21563.84
2003-04	20086.34	21236.36
2004-05	24117.24	24117.24
2005-06	29932.58	28715.90
2006-07	34238.39	30864.41
2007-08	39437.77	33616.38
2008-09	47353.38	37145.07
2009-10	53041.30	39228.08
2010-11	60196.75	40850.18
Base Year: 2011-12		
	Current Prices	Constant Prices
2011-12	65961.33	65961.33
2012-13	73982.79	68544.23
2013-14	79355.89	69238.88
2014-15	87473.44	73680.67
2015-16	95452.44	78801.61
2016-17	103099.26	82444.97
2017-18	113825.03	87547.03
2018-19	124740.14	92354.96
2019-20	132567.01	95844.26
2020-21	127380.96	87864.27
2021-22	194810.83	124014.45
Base Year: 2022-23		
	Current Prices	Constant Prices
2022-23	213378.12	213378.12
2023-24	244767.81	236465.22
2024-25*	276196.13	260403.69
2025-26*	313007.02	292008.30

Source : Data collected and compiled by NSTMIS, DST, Gol.

- Note** : 1. Data on GDP from 1995-96 to 2010-11- Economic Survey 2018-19.
2. Data on GDP from 2011-12 to 2021-22- Economic Survey 2025-26.
3. Data on GDP from 2022-23 to 2025-26- MoSPI New GDP Series, June 2026.
4. *Estimated

Table 5

PUBLIC AND PRIVATE INVESTMENT IN NATIONAL R&D AND PERCENTAGE SHARE IN GDP

(Rs. Crore)

Year	Public Investment in R&D	% share of Public Investment in total R&D	Private Investment in R&D	% share of Private Investment in total R&D	Total Investment in R&D
2004-05	18078.28(0.5)	75.0	6038.96(0.2)	25.0	24117.24(0.7)
2005-06	21460.63(0.6)	71.7	8471.95(0.2)	28.3	29932.58(0.8)
2006-07	23752.81(0.6)	69.4	10485.58(0.2)	30.6	34238.39(0.8)
2007-08	26511.64(0.5)	67.2	12926.14(0.3)	32.8	39437.77(0.8)
2008-09	32987.98(0.5)	69.7	14365.40(0.3)	30.3	47353.38(0.8)
2009-10	37735.75(0.6)	71.1	15305.55(0.2)	28.9	53041.30(0.8)
2010-11	40859.73(0.6)	67.9	19337.02(0.2)	32.1	60196.75(0.8)
2011-12	42665.62(0.5)	64.7	23295.71(0.3)	35.3	65961.33(0.8)
2012-13	46886.28(0.5)	63.4	27096.51(0.3)	36.6	73982.79(0.7)
2013-14	48841.09(0.4)	61.5	30514.80(0.3)	38.5	79355.89(0.7)
2014-15	54935.05(0.4)	62.8	32538.39(0.3)	37.2	87473.44(0.7)
2015-16	59430.29(0.4)	62.3	36022.15(0.3)	37.7	95452.44(0.7)
2016-17	63974.55(0.4)	62.1	39124.71(0.3)	37.9	103099.26(0.7)
2017-18	71969.15(0.5)	63.2	41855.88(0.2)	36.8	113825.03(0.7)
2018-19	82250.19(0.4)	65.9	42489.95(0.2)	34.1	124740.14(0.7)
2019-20	87813.47(0.4)	66.2	44753.54(0.2)	33.8	132567.01(0.7)
2020-21	80992.83(0.4)	63.6	46388.13(0.2)	36.4	127380.96(0.6)
2021-22	106133.32(0.45)	54.48	88677.51(0.38)	45.52	194810.83(0.83)
2022-23	110949.77(0.42)	52.00	102428.35(0.39)	48.00	213378.12(0.82)
2023-24	117861.21(0.41)	48.15	126906.6(0.44)	51.85	244767.81(0.84)
2024-25*	124362.83(0.39)	45.03	151832.85(0.48)	54.97	276196.13(0.87)
2025-26*	131338.93(0.38)	41.96	181667.88(0.52)	58.04	313007.02(0.90)

Source : Data collected and compiled by NSTMIS, DST, GoI.

Note : 1. Public Investments in R&D = Central Government Ministries/Department Institutions + State Government. Department/ State Agricultural Universities + Public Sector/joint sector Industries + Public Higher Education Institutes.
2. Private Investment in R&D = Private Sector Industries + SIROs + Private Higher Education Institutes .
3. Number in paranthesis indicate percentage share in GDP.
4. * Estimated

Table 6

BUSINESS ENTERPRISE INVESTMENT IN NATIONAL R&D AND PERCENTAGE SHARE IN GERD AND GDP

(Rs. Crore)

Year	Investment in R&D by Business Enterprises	% of BERD in total GERD	Total GERD
2004-05	7296.84(0.2)	30.3	24117.24(0.7)
2005-06	9759.15(0.3)	32.6	29932.58(0.8)
2006-07	11950.99(0.3)	34.9	34238.39(0.8)
2007-08	14803.39(0.3)	37.5	39437.78(0.8)
2008-09	16822.42(0.3)	35.5	47353.38(0.8)
2009-10	18120.11(0.3)	34.2	53041.30(0.8)
2010-11	22648.83(0.3)	37.6	60196.75(0.8)
2011-12	27058.28(0.3)	41.0	65961.33(0.8)
2012-13	33414.70(0.3)	45.2	73982.79(0.7)
2013-14	34936.55(0.3)	44.0	79355.89(0.7)
2014-15	37188.03(0.3)	42.5	87473.44(0.7)
2015-16	40475.99(0.3)	42.4	95452.44(0.7)
2016-17	43830.93(0.3)	42.5	103099.26(0.7)
2017-18	47109.08(0.3)	41.4	113825.03(0.7)
2018-19	48083.72(0.3)	38.5	124740.14(0.7)
2019-20	49943.69(0.2)	37.7	132567.01(0.7)
2020-21	51983.68(0.3)	40.8	127380.96(0.6)
2021-22	85599.04(0.36)	43.9	194810.83(0.83)
2022-23	97484.93(0.37)	45.7	213378.12(0.82)
2023-24	120609.18(0.42)	49.3	244767.81(0.84)
2024-25*	143286.85(0.45)	51.9	276196.13(0.87)
2025-26*	170316.47(0.49)	54.4	313007.02(0.90)

Source : Data collected and compiled by NSTMIS, DST, Gol.

Note : 1. Investment in R&D by Business Enterprise/ Industry includes R&D Expenditure by Public sector industry and Private sector industry.
2. Number in paranthesis indicate percentage share in GDP.
3. * Estimated

Table 7

EXPENDITURE ON R&D BY SELECT MAJOR SCIENTIFIC AGENCIES

(Rs. Crore)

Sl No.	Agency	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24
1	Council of Scientific & Industrial Research (CSIR)	4548.78	4871.63	4198.82	5110.35	5831.31	6128.87
2	Defence Research & Development Organisation (DRDO)	17049.02	17425.60	15807.08	18290.95	20586.18	22927.58
3	Department of Atomic Energy (DAE)	6323.78	7151.63	5839.02	9245.71	10496.21	10109.49
4	Department of Biotechnology (DBT)	2379.10	2358.77	2259.10	2819.98	2088.68	1499.75
5	Ministry of Electronics and Information Technology (MEITY)	951.35	1157.86	1155.95	956.61	942.16	1924.81
6	Ministry of New and Renewable Energy (MNRE)	55.82	48.97	59.80	65.64	72.58	70.93
7	Ministry of Earth Sciences (MoES)	1004.59	1163.31	793.23	1160.71	1068.85	1329.51
8	Department of Science & Technology (DST)	3768.33	4053.38	3514.23	4562.33	3940.55	3516.42
9	Department of Space (DoS)	11135.41	12966.54	9452.72	12427.72	10026.00	10567.89
10	Indian Council of Agricultural Research (ICAR)	6223.80	6152.02	6358.66	8214.02	8410.82	9176.45
11	Indian Council of Medical Research (ICMR)	1436.62	1521.17	1580.78	1841.36	2056.04	2343.18
12	Ministry of Environment, Forest and Climate Change (MoEFCC)	440.48	456.53	422.66	356.90	441.34	625.01
	Total	55317.08	59327.41	51442.05	65052.28	65960.72	70219.89

Source : Data collected and compiled by NSTMIS, DST, Gol.

Note : Not including Public Sector Industries Research and Development Expenditure.

Table 8

EXPENDITURE ON R&D BY CENTRAL MINISTRIES/ DEPARTMENTS OTHER THAN MAJOR SCIENTIFIC AGENCIES

(Rs. Crore)

Sl No.	Ministry/Departments	Research and Development Expenditure		
		2021-22	2022-23	2023-24
1	Animal Husbandry and Dairying	9.82	15.09	16.33
2	AYUSH	538.3	606.52	644.04
3	Chemicals and Petrochemicals	3.14	3.41	3.31
4	Civil Aviation	82.98	168.03	56.15
5	Coal	58.9	111.67	119.40
6	Commerce	76.13	79.79	78.72
7	Consumer Affairs	13.5	14.17	14.88
8	Culture	33.48	49.58	51.37
9	Defence	0	0.22	74.03
10	Defence Production	3623.58	4202.15	4870.46
11	Empowerment of Persons with Disabilities	25.02	25.37	31.11
12	Fertilizers	41.57	56.22	53.03
13	Finance	2.41	2.26	29.04
14	Food and Public Distribution	13.76	23.97	15.39
15	Food Processing Industries	76.86	88.48	81.90
16	Health and Family Welfare	2775.74	2860.79	1540.42
17	Health Research*	324.10	340.15	475.82
18	Heavy Industry	1144.43	1110.93	1250.64
19	Home Affairs	3.17	1.51	4.25
20	Housing and Urban Affairs	5.02	8.75	17.48
21	Information and Broadcasting	11.43	11.2	10.97
22	Labor and Employment	4.74	6.14	6.80
23	Micro, Small and Medium Enterprises	8.90	9.20	9.26
24	Mines	174.00	290.40	262.37
25	Petroleum and Natural Gas	2065.62	2143.71	2609.49
26	Pharmaceuticals	126.83	128.58	141.57
27	Power	399.20	608.27	1031.45
28	Promotion of Industry and Internal Trade	137.02	165.13	183.56
29	Railways	257.54	323.10	336.30
30	Road Transport and Highways	14.63	18.44	23.11

Table 8 Contd...

Table 8 (Contd.)

EXPENDITURE ON R&D BY CENTRAL MINISTRIES/ DEPARTMENTS OTHER THAN MAJOR SCIENTIFIC AGENCIES

(Rs. Crore)

Sl No.	Ministry/Departments	Research and Development Expenditure		
		2021-22	2022-23	2023-24
31	Shipping	0	8.64	20.77
32	Statistics and Programme Implementation	218.30	231.93	238.44
33	Steel	1191.06	625.34	374.81
34	Telecommunications	319.19	325.96	338.05
35	Textiles	260.13	290.61	209.83
36	Water Resources, River Development and Ganga Rejuvenation	98.82	107.61	103.99
37	Public Sector under Major Scientific Agencies	117.01	105.67	105.71
38	Joint Sector under State Undertaking	46.84	53.36	56.97
	Total	14303.17	15222.35	15491.22

Source : Data collected and compiled by NSTMIS, DST, GoI.

Note : 1. Expenditure on R&D by central ministries/departments other than major scientific agencies includes data of public sector enterprises under the respective ministries/departments.

2. Departments/Ministries with no R&D expenditure are not shown in this Table.

3. * Excludes ICMR

Table 9

EXPENDITURE ON R&D BY STATE GOVERNMENTS

(Rs. Crore)

Sl No.	State	Research and Development Expenditure		
		2021-22	2022-23	2023-24
1	Andhra Pradesh	114.70	128.38	154.09
2	Assam	87.14	100.61	169.02
3	Bihar	187.64	185.22	152.73
4	Chhattisgarh	189.36	211.50	354.59
5	Gujarat	661.76	781.67	814.79
6	Haryana	506.71	525.80	595.03
7	Himachal Pradesh	322.28	373.78	374.68
8	Jammu & Kashmir	111.76	143.65	153.03
9	Jharkhand	79.75	96.97	94.09
10	Karnataka	1090.38	1075.88	1130.15
11	Kerala	391.75	369.84	326.46
12	Madhya Pradesh	132.21	170.49	155.90
13	Maharashtra	460.85	545.97	528.37
14	Manipur	0.90	0.94	0.38
15	Meghalaya	9.00	9.09	9.17
16	Odisha	225.00	271.10	320.60
17	Punjab	872.17	960.06	994.78
18	Rajasthan	512.96	650.53	640.65
19	Tamil Nadu	898.22	1008.63	1214.50
20	Telangana	647.74	667.89	652.02
21	Uttar Pradesh	404.20	403.60	433.99
22	Uttarakhand	203.13	213.50	220.34
23	West Bengal	284.62	298.18	306.74
	Total	8394.23	9193.28	9796.10

Source : Data collected and compiled by NSTMIS, DST, GoI.

Note : 1. Data includes State Agricultural Universities and state R&D labs/research institutes.
2. States/Union Territories with no R&D Expenditure or R&D Units are not shown in this Table.

Table 10

EXPENDITURE ON R&D BY COOPERATIVE RESEARCH ASSOCIATIONS

(Rs. Crore)

Sl No.	Name	2021-22	2022-23	2023-24
1	Ahmedabad Textile Industry's Research Association	9.35	10.29	11.32
2	Dudhsagar Research and Development Association	9.82	10.70	11.65
3	Electrical Research & Development Association	81.55	93.33	91.30
4	Indian Jute Industries' Research Association	5.64	6.10	10.57
5	Northern India Textile Research Association	9.13	8.87	13.98
6	The Automotive Research Association of India	382.36	354.86	489.83
7	The Bombay Textile Research Association	8.48	14.95	9.58
8	The Man-Made Textiles Research Association	2.82	3.90	3.91
9	The Sima Cotton Development & Research Association	0.08	0.10	0.10
10	The South India Textile Research Association	13.30	18.02	17.85
11	The Synthetic & Art Silk Mills' Research Association	18.16	17.94	17.50
12	Tea Research Association*	29.15	29.85	29.81
13	Wool Research Association	2.50	2.69	6.95
	Total	572.34	571.60	714.35

Source : Data collected and compiled by NSTMIS, DST, Gol

Note : * Includes data for all Tea Research Institutes.

Table 11

SCIENCE & TECHNOLOGY EXPENDITURE BY TYPE OF WORK BY CENTRAL AND STATE GOVERNMENTS & SIROS

(Rs. Crore)

Year	Central Government					State Government					SIRO					Total				
	Basic Research	Applied Research	Experimental Development	Other Related S&T Activities	Total S&T	Basic Research	Applied Research	Experimental Development	Other Related S&T Activities	Total S&T	Basic Research	Applied Research	Experimental Development	Other Related S&T Activities	Total S&T	Basic Research	Applied Research	Experimental Development	Other Related S&T Activities	Total S&T
2021-22	15163.99	23349.07	32476.88	1200.70	72190.64	1613.08	3858.92	2922.24	1265.09	9659.33	1235.35	2641.81	1797.18	1082.25	6756.59	18012.42	29849.80	37196.30	3548.04	88606.56
2022-23	15168.73	23816.37	33347.87	1373.48	73706.45		4219.29	3206.04	1359.31	10552.59	1478.38	3062.93	2167.00	1340.61	8048.92		31098.59	38720.91	4073.40	92307.96
2023-24	15174.79	24897.45	35536.39	1536.69	77145.32	1892.19	4479.65	3424.26	1430.98	11227.08	1689.66	3550.56	2535.22	1535.08	9310.52	18756.64	32927.66	41495.87	4502.75	97682.92

Source : Data collected and compiled by NSTMIS, DST, GoI.**Note :** 1. R&D- Research and Development = Basic Research + Applied Research + Experimental Development.

2. S&T- Science and Technology = R&D + Other related S&T activities.

Table 12

EXPENDITURE ON R&D BY OBJECTIVES

(Rs. Crore)

Sl No	Objective	Central Government			State Government			SIRO			Private Sector Industry			Public Sector Industry			Total		
		2021-22	2022-23	2023-24	2021-22	2022-23	2023-24	2021-22	2022-23	2023-24	2021-22	2022-23	2023-24	2021-22	2022-23	2023-24	2021-22	2022-23	2023-24
1	Defence	18290.95	20586.18	22927.58	-	-	-	0.42	0.57	0.58	744.41	691.32	906.67	3623.58	4202.37	4944.49	22659.36	25480.44	28779.32
2	Development of Agriculture, Forestry and Fishing	8967.62	9324.18	10197.37	2611.20	2816.54	3065.91	85.56	100.26	103.66	2670.42	3092.24	3422.67	10.43	11.69	14.14	14345.23	15344.91	16803.75
3	Education	1082.04	1200.15	1365.63	5734.87	6326.73	6678.84	1601.19	1992.25	2214.11	1.06	1.06	1.10	-	-	-	8419.16	9520.19	10259.68
4	Energy	6680.23	6416.01	6778.40	-	-	-	201.26	256.34	270.66	1149.04	1479.77	1773.58	2444.20	2454.83	3266.41	10474.73	10606.95	12089.05
5	Environment	500.33	645.23	656.90	-	-	-	109.27	137.95	145.3	127.24	108.56	129.11	-	-	-	736.84	891.74	931.31
6	Exploration and Exploitation of Space	12538.04	10153.49	10712.31	-	-	-	58.54	75.79	79.41	-	-	-	-	-	-	12596.58	10229.28	10791.72
7	Exploration and Exploitation of the Earth	1795.74	1698.44	1872.25	-	-	-	7.24	10.16	18.92	65.61	79.97	82.22	674.31	841.73	926.84	2542.9	2630.30	2900.23
8	General Advancement of Knowledge	7668.34	7716.31	7513.24	0.90	0.94	0.38	427.28	482.05	598.93	575.09	683.27	820.70	2.41	2.26	29.04	8674.02	8884.83	8962.29
9	Health	8510.58	8123.68	6757.48	11.32	11.40	11.48	2415.92	2655.46	3254.12	28205.62	32039.74	35775.78	10.34	12.04	13.20	39153.78	42842.32	45812.06
10	Industrial Production and Technology	2503.44	3833.11	3299.46	-	-	-	58.42	97.14	75.06	32041.75	37343.34	49636.98	1449.22	1053.05	736.79	36052.83	42326.64	53748.29
11	Other Aims	1309.81	1560.47	1571.27	-	-	-	602.86	698.71	850.77	712.45	810.07	878.75	-	-	-	2625.12	3069.25	3300.79

Table 12 Contd...

Table 12 (Contd.)

EXPENDITURE ON R&D BY OBJECTIVES

(Rs. Crore)

Sl No	Objective	Central Government			State Government			SIRO			Private Sector Industry			Public Sector Industry			Total		
		2021-22	2022-23	2023-24	2021-22	2022-23	2023-24	2021-22	2022-23	2023-24	2021-22	2022-23	2023-24	2021-22	2022-23	2023-24	2021-22	2022-23	2023-24
12	Political & Social Systems, Structures & Processes (including socio-economic services)	13.72	12.27	13.50	30.28	31.74	33.27	67.64	67.94	65.62	0.57	6.53	10.00	2.12	3.48	3.22	114.33	121.96	125.61
13	Transport, Telecommunication and other Infrastructures	1161.47	1111.99	1990.35	5.66	5.93	6.22	73.84	164.47	121.13	10972.29	12347.18	17115.84	116.88	220.41	121.67	12330.14	13849.98	19355.21
	Total	71022.31	72381.51	75655.74	8394.23	9193.28	9796.1	5709.44	6739.09	7798.27	77265.55	88683.05	110553.4	8333.49	8801.86	10055.8	170725.02	185798.79	213859.31

Source : Data collected and compiled by NSTMIS, DST, GoI

Note : 1. Higher Education sector is not included.

2. Objectives standardised as per UNESCO Classification.

3. '-' represent 'NIL'.

Table 13

RESEARCH AND DEVELOPMENT EXPENDITURE, ADVERTISING EXPENDITURE, NEW PLANT AND MACHINERY EXPENDITURE VERSUS SALES TURNOVER IN PUBLIC AND PRIVATE SECTOR INDUSTRY

Year	Research and Development Expenditure		Advertising Expenditure		New Plant Machinery Expenditure		Sales Turnover		Research and Development Expenditure as % of Sales Turnover	Advertising Expenditure as % of Sales Turnover		New Plant Machinery Expenditure as % of Sales Turnover	
	(Rs. Crore)		(Rs. Crore)		(Rs. Crore)		(Rs. Crore)		(%)	(%)		(%)	
	Public Sector	Private Sector	Public Sector	Private Sector	Public Sector	Private Sector	Public Sector	Private Sector	Public Sector	Private Sector	Public Sector	Private Sector	Private Sector
2021-22	8333.49	77265.55	766.72	45825.68	91922.38	3077337.05	2646492.14	14176345.40	0.31	0.03	0.32	3.47	21.71
2022-23	8801.86	88683.07	731.99	83492.18	112517.15	2676834.75	3323288.44	17589542.03	0.26	0.02	0.47	3.39	15.22
2023-24	10055.78	110553.16	739.63	119395.90	121345.12	2401930.65	3165657.62	20764662.69	0.32	0.02	0.57	3.83	11.57

Source : Data collected and compiled by NSTMIS, DST, Gol

Note : 1. Data for Public Sector refers to 104 industrial R&D units.

2. Data for Private Sector refers to 2732 industrial R&D units.

Table 14

EXPENDITURE ON R&D BY PUBLIC/JOINT SECTOR UNDERTAKINGS 2023-24

Ministry/ Department	Public/Joint Sector Undertaking	R&D Expenditure (Rs.Crore)	R&D Expenditure as % of S.T.O.
Atomic Energy	Electronics Corporation of India Ltd.	34.72	1.12
	IREL (India) Ltd.	37.41	1.78
	Nuclear Power Corporation of India Ltd.	20.57	0.11
	Uranium Corporation of India Ltd.	12.35	0.53
Scientific and Industrial Research	Central Electronics Ltd.	0.66	0.19
Fertilizers	Fertilisers and Chemicals Travancore Ltd.	0.58	0.01
	Indian Farmers Fertiliser Cooperative Ltd., Kalol	8.70	0.33
	Indian Farmers Fertiliser Cooperative Ltd., Kandla unit	0.54	0.01
	National Fertilizers Ltd.	0.07	0
	Rashtriya Chemicals & Fertilizers Ltd.	43.14	0.25
Pharmaceuticals	Bengal Chemicals & Pharmaceuticals Ltd.	0.08	0.07
	Hindustan Antibiotics Ltd.	0.73	0.38
	Karnataka Antibiotics & Pharmaceuticals Ltd.	1.22	0.26
Civil Aviation	Airports Authority of India	56.15	0.38
Coal	Central Mine Planning & Design Institute Ltd.	61.21	3.53
	Mahanadi Coalfields Ltd.	0.05	0
	NLC India Ltd.,	43.37	0.38
	Northern Coalfields Ltd.	8.58	0.03
	Singareni Collieries Company Ltd.	6.19	0.02
Telecommunications	ITI Ltd.	20.44	1.25
Food and Public Distribution	Central Warehousing Corporation	13.38	0.58
Defence	BEL Optronics Devices Ltd.	1.03	0.74
	Munitions India Ltd.	73.00	1.01
Defence Production	Advanced Weapons & Equipment India Ltd.	35.25	1.73
	Armoured Vehicles Nigam Ltd.	13.09	0.28
	BEML Ltd. (Formerly Bharat Earth Movers Ltd.)	86.71	2.14
	Bharat Dynamics Ltd.	90.79	3.83

Table 14 Contd...

Table 14 (Contd.)

EXPENDITURE ON R&D BY PUBLIC/JOINT SECTOR UNDERTAKINGS 2023-24

Ministry/ Department	Public/Joint Sector Undertaking	R&D Expenditure (Rs.Crore)	R&D Expenditure as % of S.T.O.
	Bharat Electronics Ltd.	1325.21	6.69
	Garden Reach Shipbuilders & Engineers Ltd.	24.08	0.67
	Gliders India Ltd.	2.43	1.23
	Goa Shipyard Ltd.	15.00	0.86
	Hindustan Aeronautics Ltd.	2826.24	9.3
	Hindustan Shipyard Ltd.	9.21	0.65
	India Optel Ltd.	19.07	1.38
	Mazagon Dock Shipbuilders Ltd.	399.68	3.78
	Mishra Dhatu Nigam Ltd.	18.36	1.71
	Yantra India Ltd.	5.35	0.19
Health and Family Welfare	HLL Lifecare Ltd. (HLL) (Formerly Hindustan Latex Ltd.)	5.61	0.15
Heavy Industry	Bharat Heavy Electricals Ltd.	697.60	3.04
	Bridge and Roof Company (India) Ltd.	3.04	0.08
	HMT Machine Tools Ltd.,	0.19	0.19
	NEPA Ltd.	0.32	0.26
	Rajasthan Electronics & Instruments Ltd.	3.36	1.78
	Sambhar Salts Ltd.	0.32	0.49
Housing and Urban Affairs	Hindustan Steelworks Construction Ltd.	0.61	0.08
	Hospital Services Consultancy Corporation Ltd. (India)	1.11	0.08
	Housing and Urban Development Corporation Ltd.	0.10	0
	NBCC India Ltd.	9.67	0.09
Micro, Small and Medium Enterprises	The National Small Industries Corporation Ltd.	3.22	0.02
Mines	F C I Aravali Gypsum and Minerals India Ltd.	0.64	2.10
	Hindustan Copper Ltd.	8.04	0.48
	Mineral Exploration and Consultancy Ltd	0.02	0.01
	National Aluminium Company Ltd.	106.36	0.81

Table 14 Contd...

Table 14 (Contd.)

EXPENDITURE ON R&D BY PUBLIC/JOINT SECTOR UNDERTAKINGS 2023-24

Ministry/ Department	Public/Joint Sector Undertaking	R&D Expenditure (Rs.Crore)	R&D Expenditure as % of S.T.O.
Petroleum and Natural Gas	Balmer Lawrie & Company Ltd.	9.80	0.41
	Bharat Petroleum Corporation Ltd.	189.97	0.04
	Chennai Petroleum Corporation Ltd. (Madras Refineries Ltd.)	10.72	0.01
	Engineers India Ltd.	29.12	0.90
	Gail (India) Ltd.	250.20	0.19
	Hindustan Petroleum Corporation Ltd.	352.50	0.08
	Indian Oil Corporation Ltd.	946.14	0.11
	Mangalore Refinery & Petrochemicals Ltd.	5.11	0
	Numaligarh Refinery Ltd.	3.00	0.01
	Oil & Natural Gas Corporation Ltd.	617.16	0.45
	Oil India Ltd.	185.34	0.76
	ONGC Videsh Ltd.	10.42	0.19
Power	Grid Controller of India Ltd.	2.22	0.45
	NHPC Ltd.	11.55	0.14
	North Eastern Electric Power Corporation Ltd	0.23	0.01
	NTPC Ltd.	483.63	0.27
	Power Grid Corporation of India Ltd.	218.07	0.46
	SJVN Ltd.	1.54	0.06
	THDC India Ltd	15.57	0.79
Railways	Braithwaite & Company Ltd.	1.15	0.10
	Container Corporation of India Ltd.	71.43	0.83
Shipping	Cochin Shipyard Ltd.	20.77	0.57
Empowerment of Persons with Disabilities	Artificial Limbs Manufacturing Corporation of India	4.27	0.67
Steel	KIOCL Ltd.	0.20	0.01
	MECON Ltd.	1.93	0.21
	MOIL Ltd. (Formerly Manganese Ore India Ltd.)	27.26	1.88

Table 14 Contd...

Table 14 (Contd.)

EXPENDITURE ON R&D BY PUBLIC/JOINT SECTOR UNDERTAKINGS 2023-24

Ministry/ Department	Public/Joint Sector Undertaking	R&D Expenditure (Rs.Crore)	R&D Expenditure as % of S.T.O.
	NMDC Ltd.	24.49	0.12
	Rashtriya Ispat Nigam Ltd.	13.86	0.06
	Research & Development Centre for Iron & Steel (RDCIS), SAIL	307.08	28.83
Textiles	National Textile Corporation (Southern Regional Office) Ltd.	0.18	12.48
Finance	Security Printing and Minting Corporation Of India Ltd.	29.04	57.18
Gujarat	Gujarat Alkalies & Chemicals	3.17	0.09
	Gujarat Insecticides Ltd.	1.17	0.46
	Gujarat Narmada Valley Fertilizers and Chemicals Ltd.	3.54	0.04
	Gujarat State Fertilizers & Chemicals Ltd. Fertilizer Unit	13.33	0.15
	Gujarat Urja Vikas Nigam Ltd.	4.00	0
Haryana	Haryana Leather Chemicals Ltd.	1.47	3.06
	Haryana State Electronics Development. Corporation Ltd.	2.66	0
Karnataka	Karnataka Soaps & Detergents Ltd.	0.61	0.04
	Karnataka State Seed Corporation Ltd.	0.55	0.16
Kerala	Keltron Component Complex Ltd.	0.65	0.63
	Kerala Electrical & Allied Engg. Co. Ltd.	0.01	0.01
	Travancore Titanium Products Ltd	2.76	1.23
Maharashtra	Haffkine Bio-Pharmaceutical Corporation Ltd.	0.16	0.09
	Maharashtra State Seeds Corporation Ltd., Akola	1.83	0.34
Tamil Nadu	Tamil Nadu Co-Operative Sugar Federation Ltd.	0.69	42.72
	Tamil Nadu Newsprint & Papers Ltd.	19.01	0.40
West Bengal	Webfil Ltd.	1.36	2.91
	Total	10055.77	0.32

Source : Data collected and compiled by NSTMIS, DST, Gol.

Table 15

EXPENDITURE ON RESEARCH AND DEVELOPMENT BY INDUSTRY GROUPS FOR PUBLIC SECTOR

Sl No.	Industry Group	No. of R&D Units	R&D Expenditure			R&D Expenditure		
			(Rs. Crore)			as % of S.T.O.		
			2021-22	2022-23	2023-24	2021-22	2022-23	2023-24
1	Agricultural Machinery	1	0.53	0.40	0.55	0.19	0.08	0.16
2	Bio-technology	1	1.24	1.26	1.83	0.28	0.32	0.34
3	Boilers & Steam Generating Plants	1	222.48	283.45	483.63	0.17	0.16	0.27
4	Cement & Gypsum Products	1	0	0.10	0.64	0	0.18	2.10
5	Chemicals (other than fertilizers)	8	19.85	25.51	22.23	0.13	0.14	0.15
6	Consultancy Services	6	62.25	109.9.0	103.32	0.16	0.27	0.27
7	Defence Industries	16	3616.76	4182.11	4926.14	5.70	5.29	5.33
8	Drugs & Pharmaceuticals	6	3.63	4.36	3.30	0.13	0.20	0.13
9	Electricals & Electronics	10	106.38	85.75	292.58	0.08	0.05	0.17
10	Fertilizers	6	51.77	66.77	66.36	0.09	0.07	0.10
11	Fuels	15	2067.96	2154.29	2641.08	0.10	0.08	0.11
12	Industrial Equipment	2	700.00	690.85	697.60	3.47	3.11	3.04
13	Industrial Machinery	2	2.00	2.27	0.80	0.29	0.25	0.09
14	Medical & Surgical Appliances	2	6.71	7.67	9.88	0.02	0.18	0.23
15	Metallurgical Industries	11	1296.88	866.93	558.38	1.61	1.32	0.80
16	Misc. Mechanical Engineering Industries	3	36.90	34.06	52.65	0.20	0.19	0.23
17	Paper & Pulp	2	12.87	15.11	19.33	0.31	0.29	0.40
18	Scientific Instruments	2	3.07	2.98	2.68	0.65	1.40	0.85
19	Soaps, Cosmetics, Toilet Preparations	1	0.26	0.31	0.61	0.03	0.03	0.04
20	Sugar	1	0.98	0.86	0.70	45.79	37.72	43.21
21	Telecommunications	2	20.83	18.82	21.80	0.98	1.15	1.29
22	Textiles (Dyed, Printed, Processed)	1	0.18	0.18	0.18	0.33	1.71	12.50
23	Transportation	4	99.98	247.91	149.5	0.56	1.08	0.53
	Total	104	8333.51	8801.85	10055.77	0.31	0.26	0.32

Source : Data collected and compiled by NSTMIS, DST, GoI.

Table 16

EXPENDITURE ON RESEARCH AND DEVELOPMENT BY INDUSTRY GROUPS FOR PRIVATE SECTOR

SI No.	Industry Group	No. of R&D Units	R&D Expenditure			R&D Expenditure		
			(Rs. Crore)			as % of S.T.O.		
			2021-22	2022-23	2023-24	2021-22	2022-23	2023-24
1	Agricultural Machinery	152	1460.91	1617.61	1846.28	1.79	1.81	2.09
2	Bio-technology	186	6274.60	9752.36	10321.00	7.87	16.01	16.84
3	Boilers & Steam Generating Plants	6	11.00	13.95	13.40	0.30	0.36	0.45
4	Cement & Gypsum Products	29	429.21	93.52	119.47	0.39	0.07	0.08
5	Ceramics	15	81.73	87.83	83.01	0.44	0.40	0.36
6	Chemicals (other than fertilizers)	279	2615.24	3032.35	3345.76	0.62	0.66	0.76
7	Commercial, Office, Household Equipment	14	253.22	273.40	389.63	0.46	0.38	0.44
8	Consultancy Services	21	64.16	73.00	108.26	0.63	0.59	0.78
9	Defence Industries	28	721.38	666.86	867.79	5.15	4.73	5.77
10	Drugs & Pharmaceuticals	492	22117.44	22421.6	25846.63	0.31	3.23	5.22
11	Dyestuffs	7	47.81	54.62	59.18	0.80	0.95	1.07
12	Earth Moving Machinery	6	92.05	107.74	151.38	1.03	0.94	1.11
13	Electricals & Electronics	355	4239.41	5354.57	6779.18	0.93	0.75	1.10
14	Fermentation Industries	11	22.87	37.02	37.81	0.07	0.13	0.14
15	Fertilizers	31	120.86	160.59	161.47	0.29	0.26	0.38
16	Food Processing Industries	137	729.10	809.63	893.43	0.03	0.04	0.04
17	Fuels	32	2677.06	3073.63	3727.38	2.00	2.02	0.52
18	Glass	5	184.64	171.56	189.05	2.28	0.94	0.91
19	Glue & Gelatine	3	5.00	4.37	10.47	1.33	0.94	2.15
20	Industrial Equipment	111	895.15	1032.37	1182.75	0.50	0.01	0.01
21	Industrial Machinery	130	529.99	597.55	697.05	0.49	0.53	0.59
22	Information Technology	63	5593.33	6367.25	9587.44	0.81	1.02	1.43

Table 16 Contd...

Table 16 (Contd.)

EXPENDITURE ON RESEARCH AND DEVELOPMENT BY INDUSTRY GROUPS FOR PRIVATE SECTOR

SI No.	Industry Group	No. of R&D Units	R&D Expenditure			R&D Expenditure		
			(Rs. Crore)			as % of S.T.O.		
			2021-22	2022-23	2023-24	2021-22	2022-23	2023-24
23	Leather, Leather goods & Pickers	16	23.20	22.26	23.05	0.64	0.80	1.02
24	Machine Tools	20	188.00	348.27	461.07	0.85	0.81	2.66
25	Math. Surveying & Drawing Instruments	1	0.27	0.30	0.16	0.06	0.06	0.03
26	Medical & Surgical Appliances	40	207.19	223.75	291.94	3.21	3.11	3.34
27	Metallurgical Industries	57	537.58	647.07	705.64	0.10	0.10	0.11
28	Misc. Mechanical Engineering Industries	62	213.85	292.95	313.48	0.41	0.43	0.45
29	Miscellaneous Industries	72	212.91	198.51	225.18	0.36	0.38	0.39
30	Paper & Pulp	20	34.40	37.57	41.44	0.30	0.26	0.30
31	Photographic Raw Film & Paper	4	14.51	13.24	8.84	0.50	0.47	0.36
32	Prime Movers	2	9.51	12.21	10.03	0.68	0.66	0.45
33	Rubber Goods	55	771.66	986.15	1148.43	0.89	0.98	1.12
34	Scientific Instruments	21	194.56	218.42	219.3	24.56	25.43	23.21
35	Soaps, Cosmetics, Toilet Preparations	12	106.29	158.17	194.24	0.34	0.49	0.77
36	Sugar	10	8.49	10.38	28.03	0.08	0.07	0.21
37	Telecommunications	28	266.82	538.16	796.72	2.13	4.03	9.47
38	Textiles (Dyed, Printed, Processed)	45	304.68	355.75	408.26	0.36	0.36	0.42
39	Timber Products	6	86.20	102.71	108.68	1.08	1.02	1.02
40	Transportation	142	24906.24	28698.48	39136.95	2.16	2.10	3.39
41	Vegetable Oil & Vanaspati	6	13.02	15.46	14.23	0.42	0.53	0.65
	Total	2732	77265.54	88683.19	110553.49	0.55	0.50	0.53

Source : Data collected and compiled by NSTMIS, DST, Gol.

Table 17

RESEARCH AND DEVELOPMENT EXPENDITURE BY MULTINATIONAL ENTERPRISES

(Rs. Crore)

Type of Multinationals	No.of R&D Units	2021-22	2022-23	2023-24
Private Sector- India	252	46379.39	51502.48	69336.22
Private Sector- Foreign	124	9612.11	11341.68	12912.88
Public Sector	14	2922.80	3087.38	3707.94
Total	390	58914.30	65931.54	85957.04

Source : Data collected and compiled by NSTMIS, DST, Gol.

Table 18

NATIONAL EXPENDITURE ON R&D BY ECONOMIC ACTIVITY

(Rs. Crore)

S.No.	Economic Activity	NIC Code	R&D Expenditure		
			2021-22	2022-23	2023-24
1	Agriculture, Forestry and Fishing	1	16208.54	17343.58	18707.14
2	Mining and Quarrying	5	1069.21	1077.71	1035.14
3	Manufacture of Food Products	10	452.27	477.70	524.82
4	Manufacture of Beverages	11	60.73	65.53	55.76
5	Manufacture of Tobacco Products	12	20.98	22.48	26.23
6	Manufacture of Textiles	13	427.02	500.13	528.32
7	Manufacture of Wearing Apparel	14	6.62	8.70	11.64
8	Manufacture of Leather and Related Products	15	41.66	77.50	53.16
9	Manufacture of Wood and of Products of Wood & Cork, except Furniture	16	0.54	0.64	1.41
10	Manufacture of Paper and Paper Products	17	382.19	275.19	496.42
11	Manufacture of Coke and Refined Petroleum Products	19	3262.53	3574.89	4299.10
12	Manufacture of Chemicals and Chemical Products	20	3146.21	3732.02	4334.52
13	Manufacture of Basic Pharmaceutical Products and Pharmaceutical Preparations	21	21964.70	22128.42	25501.54
14	Manufacture of Rubber and Plastic Products	22	962.93	1175.02	1194.45
15	Manufacture of Other Non-Metallic Mineral Products	23	401.46	60.52	67.41
16	Manufacture of Basic Metals	24	1221.81	1044.79	892.98
17	Manufacture of Fabricated Metal Products, except Machinery and Equipment	25	312.94	349.03	426.68
18	Manufacture of Computer, Electronic and other Optical Products	26	3692.14	4744.58	6100.88
19	Manufacture of Electrical Equipment	27	1639.86	2200.43	2658.10
20	Manufacture of Machinery and Equipment n.e.c	28	2598.23	2826.59	2989.35
21	Manufacture of Motor Vehicles, Trailers and Semi-Trailers	29	8865.69	7350.07	8581.74
22	Manufacture of Other Transport Equipment	30	0969.62	1082.70	1348.53
23	Manufacture of Furniture	31	0.15	0.15	0.15
24	Other Manufacturing	32	1780.84	1935.71	2367.80
25	Repair and Installation of Machinery and Equipment	33	0.30	0.32	0.34
26	Electricity, Gas, Steam and Air Conditioning Supply	35	4554.66	4653.75	4787.75
27	Water Supply, Sewerage, Waste Management and Remediation activities	36	8.02	9.40	11.00

Table 18 Contd...

Table 18 (Contd.)

NATIONAL EXPENDITURE ON R&D BY ECONOMIC ACTIVITY

(Rs. Crore)

S.No.	Economic Activity	NIC Code	R&D Expenditure		
			2021-22	2022-23	2023-24
28	Construction	41	237.82	273.76	331.90
29	Transportation and Storage	49	15599.55	20706.21	29861.78
30	Professional, Scientific and Technical Activities	69	48311.18	50374.32	54935.75
31	Public Administration and Defence, Compulsory Social Security	84	2255.42	2944.59	3347.65
32	Education	85	4833.19	5556.16	6332.45
33	Human Health and Social Work Activities	86	14222.73	17219.26	16662.45
34	Service Sector	90	5231.87	6014.36	8926.80
35	Others	91	5981.51	5992.76	6457.95
	Total		170725.12	185798.97	213859.09

Source : Data collected and compiled by NSTMIS, DST, GoI.

Note : National expenditure covers expenditure by organisations under Central Government, State Government, Private, Public Sector, SIROs (excludes Higher Education Sector).

Table 19

GOVERNMENT EXPENDITURE ON R&D BY ECONOMIC ACTIVITY

(Rs. Crore)

S.No.	Economic Activity	NIC Code	Research & Development Expenditure		
			2021-22	2022-23	2023-24
1	Agriculture, Forestry and Fishing	1	14692.53	15639.62	16817.53
2	Mining and Quarrying	5	22.11	23.81	25.03
3	Manufacture of Food Products	10	23.15	27.14	24.92
4	Manufacture of Textiles	13	127.12	146.32	125.02
5	Manufacture of Paper and Paper Products	17	10.24	10.05	12.37
6	Manufacture of Basic Pharmaceutical Products and Pharmaceutical Preparations	21	28.92	28.82	32.54
7	Manufacture of Rubber and Plastic Products	22	59.77	60.00	69.96
8	Manufacture of Electrical Equipment	27	130.75	280.45	298.64
9	Manufacture of Machinery and Equipment n.e.c	28	49.08	50.26	51.10
10	Electricity, Gas, Steam and Air Conditioning Supply	35	3923.70	4050.81	3825.93
11	Construction	41	101.37	111.20	115.97
12	Transportation and Storage	49	3.91	4.11	4.31
13	Professional, Scientific and Technical Activities	69	45004.68	46272.10	49919.61
14	Public Administration and Defence, Compulsory Social Security	84	40.00	41.04	42.00
15	Education	85	3077.91	3419.44	3816.39
16	Human Health and Social Work Activities	86	7793.58	7322.09	5991.73
17	Service Sector	90	35.64	35.78	35.95
18	Others	91	4292.09	4051.76	4242.83
	Total		79416.55	81574.80	85451.83

Source : Data collected and compiled by NSTMIS, DST, Gol.

Note : Government expenditure covers expenditure by organisations under Central Government and State Government.

Table 20

INDUSTRIAL SECTOR AND SIROs EXPENDITURE ON R&D BY ECONOMIC ACTIVITY

(Rs. Crore)

S.No.	Economic Activity	NIC Code	Research & Development Expenditure		
			2021-22	2022-23	2023-24
1	Agriculture, Forestry and Fishing	1	1516.01	1703.96	1889.61
2	Mining and Quarrying	5	1047.10	1053.90	1010.11
3	Manufacture of Food Products	10	429.12	450.56	499.90
4	Manufacture of Beverages	11	60.73	65.53	55.76
5	Manufacture of Tobacco Products	12	20.98	22.48	26.23
6	Manufacture of Textiles	13	299.90	353.81	403.30
7	Manufacture of Wearing Apparel	14	6.62	8.70	11.64
8	Manufacture of Leather and Related Products	15	41.66	77.50	53.16
9	Manufacture of Wood and of Products of Wood & Cork, except Furniture	16	0.54	0.64	1.41
10	Manufacture of Paper and Paper Products	17	371.95	265.14	484.05
11	Manufacture of Coke and Refined Petroleum Products	19	3262.53	3574.89	4299.10
12	Manufacture of Chemicals and Chemical Products	20	3146.21	3732.02	4334.52
13	Manufacture of Basic Pharmaceutical Products and Pharmaceutical Preparations	21	21935.78	22099.61	25469.00
14	Manufacture of Rubber and Plastic Products	22	903.16	1115.02	1124.49
15	Manufacture of Other Non-Metallic Mineral Products	23	401.46	60.52	67.41
16	Manufacture of Basic Metals	24	1221.81	1044.79	892.98
17	Manufacture of Fabricated Metal Products, except Machinery and Equipment	25	312.94	349.03	426.68
18	Manufacture of Computer, Electronic and other Optical Products	26	3692.14	4744.58	6100.88
19	Manufacture of Electrical Equipment	27	1509.11	1919.98	2359.46
20	Manufacture of Machinery and Equipment n.e.c	28	2549.15	2776.33	2938.25
21	Manufacture of Motor Vehicles, Trailers and Semi-Trailers	29	8865.69	7350.07	8581.74
22	Manufacture of Other Transport Equipment	30	969.62	1082.70	1348.53
23	Manufacture of Furniture	31	0.15	0.15	0.15
24	Other Manufacturing	32	1780.84	1935.71	2367.80
25	Repair and Installation of Machinery and Equipment	33	0.30	0.32	0.34
26	Electricity, Gas, Steam and Air Conditioning Supply	35	630.96	602.94	961.82
27	Water Supply, Sewerage, Waste Management and Remediation activities	36	8.02	9.40	11.00
28	Construction	41	136.45	162.56	215.93
29	Transportation and Storage	49	15595.64	20702.10	29857.47

Table 20 Contd...

Table 20 (Contd.)

INDUSTRIAL SECTOR AND SIRO EXPENDITURE ON R&D BY ECONOMIC ACTIVITY

(Rs. Crore)

S.No.	Economic Activity	NIC Code	Research & Development Expenditure		
			2021-22	2022-23	2023-24
30	Professional, Scientific and Technical Activities	69	3306.50	4102.22	5016.14
31	Public Administration and Defence, Compulsory Social Security	84	2215.42	2903.55	3305.65
32	Education	85	1755.28	2136.72	2516.06
33	Human Health and Social Work Activities	86	6429.15	9897.17	10670.72
34	Service Sector	90	5196.23	5978.58	8890.85
35	Others	91	1689.42	1941.00	2215.12
	Total		91308.57	104224.18	128407.26

Source : Data collected and compiled by NSTMIS, DST, Gol.

Note : The R&D expenditure data covers Private Sector Industries, Public Sector Industries, and SIROs.

Table 21

FULL TIME EQUIVALENT OF MANPOWER EMPLOYED IN R&D ESTABLISHMENTS AS ON 01.04.2024

(Number)

S.No.	Name of Establishment	Personnel Engaged in			Total (1+2+3)
		R&D Activities (1)	Auxilliary Activities (2)	Administrative Activities (3)	
1	INSTITUTIONAL SECTOR				
A	GOVERNMENT INSTITUTIONS				
	Major Central Ministries Scientific Agency/ Department	56252	35622	28104	119979
	Other Central Ministry/ Department	11090	7520	6832	25442
	State Government/UT	10415	207	393	11015
	Total Government Institutions	77757	43349	35329	156436
B	Higher Education Sector	238728	50657	168479	457864
C	Scientific and Industrial Research Organisation (SIRO)	41482	23571	31378	96431
	Total Institutional Sector (1= A+B+C)	357967	117577	235186	710730
2	INDUSTRIAL SECTOR				
A	Industry (Private)	140318	32618	13931	186867
B	Industry (Public)	9066	1673	602	11341
	Total Industrial Sector (2)	149384	34291	14533	198208
	TOTAL (1+2)	507351	151868	249719	908938

Source : Data collected and compiled by NSTMIS, DST, Gol.

Table 22

FULL TIME EQUIVALENT OF WOMEN EMPLOYED IN RESEARCH AND DEVELOPMENT ESTABLISHMENTS AS ON 01.04.2024

(Number)

S.No.	Name of Establishment	Personnel Engaged in			Total (1+2+3)
		R&D Activities (1)	Auxilliary Activities (2)	Administrative Activities (3)	
1	INSTITUTIONAL SECTOR				
A	GOVERNMENT INSTITUTIONS				
	Major Central Ministries Scientific Agency/Department	12294	6652	7245	26191
	Other Central Ministry/Department	3203	1902	1557	6662
	State Government/UT	2912	65	91	3068
	Total Government Institutions	18409	8619	8893	35921
B	Higher Education Sector	85997	17871	67958	171826
C	Scientific And Industrial Research Organisation (SIRO)	15748	10762	13425	39935
	Total Institutional Sector (1= A+B+C)	120154	37252	90276	247682
2	INDUSTRIAL SECTOR				
A	Industry (Private)	25039	6227	3634	34900
B	Industry (Public)	1926	224	153	2303
	Total Industrial Sector (2)	26965	6451	3787	37203
	Total (1+2)	147119	43703	94063	284885
	Percentage share of total FTE	29.0%	28.8%	37.7%	31.3%

Source : Data collected and compiled by NSTMIS, DST, Gol.

Table 23

FIELD OF SPECIALIZATION OF FULL TIME PERSONNEL EMPLOYED IN RESEARCH AND DEVELOPMENT AS ON 01.04.2024

(Number)

Field/Education	Male	Female	Total
Agricultural Sciences	20886	6383	27269
Engineering Technology	115702	25442	141144
Medical Sciences	44464	17446	61910
Natural Sciences	23248	9280	32528
Social Sciences	3201	2571	5772
Total	207501	61122	268623

Source : Data collected and compiled by NSTMIS, DST, Gol.

Note : Data is based on the Survey responses. Data includes all sectors except Higher Education. In case of Higher Education, field of specialization of full time personnel employed in R&D is not available.

Table 24

RESEARCHERS PER MILLION INHABITANTS (FTE) FOR SELECT COUNTRIES, 2023

SI No	Country	Reseachers Per Million People	Population in Million
1	Australia	4569	26.32
2	Brazil	903	209.91
3	Canada	5624	39.06
4	China	2107	1424.26
5	Germany	5926	84.40
6	Denmark	8838	5.93
7	Spain	3654	47.91
8	Finland	8315	5.59
9	France	5369	66.38
10	United Kingdom	4473	68.44
11	Hungary	4567	9.68
12	India	354	1431.70
13	Israel	8342	9.19
14	Italy	2855	59.56
15	Japan	5609	124.67
16	Republic of Korea	9472	51.76
17	Sri Lanka	94	22.90
18	Mexico	419	129.17
19	Malaysia	1218	34.91
20	Netherlands	6563	18.02
21	New Zealand	5435	5.15
22	Norway	5489	5.49
23	Pakistan	474	245.67
24	Philippines	320	114.41
25	Sweden	8911	10.52
26	South Africa	444	62.80
27	Switzerland	6108	8.84
28	Russia	2653	145.68
29	USA	4937	340.59
30	Venezuela, RB	180	28.25

Source : UNESCO, UIS website accessed March, 2026 ; India-R&D Statistics 2025-26, DST, Gol.

Note : S&T Indicator- Reference years:

1. Researcher per Million People: 2010- Australia, 2012-Israel, 2014-Brazil, 2017-UK, 2020- Phillipines, 2022- Canada, Sri Lanka, Malaysia, USA, South Africa
2. Population: 2022- USA

Table 25

R&D EXPENDITURE AND R&D TO GDP (%) FOR SELECT COUNTRIES, 2023

Country	R&D Expenditure (billion curent PPP US\$)	R&D Expenditdure as % of GDP	Per Capita GDP (current PPP US\$)	Per Capita R&D (current PPP US\$)
Australia	33.7	1.86	72273	1264.3
Brazil	NA	1.19	21176	N/A
Canada	50.4	1.81	64219	1256.3
China	915.5	2.58	25179	648.9
Denmark	14.1	3.05	77892	2374.5
Finland	11.0	3.09	63415	1961.9
France	90.6	2.18	60839	1325.3
Germany	188.3	3.15	71684	2260.8
Hungary	6.2	1.38	46592	641.8
India	120.6	0.84	10323	84.3
Israel	37.9	6.35	55171	3848.4
Italy	48.8	1.38	60030	828.0
Japan	217.1	3.44	50662	1743.4
Korea	146.8	4.94	57430	2839.1
Mexico	8.1	0.27	25243	62.3
Netherlands	33.1	2.27	81729	1852.9
New Zealand	4.4	1.55	54697	847.0
Norway	10.6	NA	103638	1918.8
Russia	48.0	0.94	44269	333.4
Singapore	17.2	1.81	143786	2912.4
South Africa	5.9	0.61	15200	93.8
Spain	40.2	1.49	55682	831.7
Sweden	26.3	3.60	69226	2492.0
Switzerland	25.9	3.22	95142	2915.7
United Kingdom	114.7	2.68	59911	1674.5
USA	952.1	3.45	82305	2826.9

Source : Main Science and Technology Indicators (MSTI), OECD, UNESCO website & World Bank website, accessed on June 2026, and India- R&D Statistics 2025-26, DST, Gol.

Note : S&T Indicator- Reference years:

1. R&D Exp. Billion Current PPP US\$ (MSTI)
2. R&D Expenditure as a % of GDP, UNESCO, 2023; 2022-Singapore, South Africa; 2021- Australia; 2017- Mexico
3. Per Capita GDP (Current PPP US\$), World Bank, 2023
4. NA- Not available

Table 26

UNIVERSITIES / COLLEGES AND THEIR ENROLMENT FROM 1976-77 TO 2022-23

(Number)

Year	Universities	Institutions/ Deemed to be Universities	Colleges	Total Enrolment
1976-77	105	9	4317	2431563
1977-78	108	9	4375	2564972
1978-79	108	10	4460	2618228
1979-80	112	10	4558	2648579
1980-81	116	12	4722	2752437
1981-82	120	12	4880	2952066
1982-83	125	14	5039	3133093
1983-84	126	14	5246	3307649
1984-85	132	16	5590	3404096
1985-86	136	17	5816	3605029
1986-87	143	21	6040	3757158
1987-88	144	22	6685	4020159
1988-89	145	27	6773	4285489
1989-90	149	28	7145	4602680
1990-91	150	29	7346	4924868
1991-92	155	31	7761	5265886
1992-93	159	31	7993	5534966
1993-94	163	34	8441	5817249
1994-95	168	36	9019	6113929
1995-96	171	37	9252	6574005
1996-97	172	38	9940	6842598
1997-98	182	39	10678	7260418
1998-99	182	40	11397	7705520
1999-00	189	42	11865	8050607
2000-01	193	47	12806	8399443
2001-02	196	52	15437	8964680
2002-03	200	81	16206	9516773
2003-04	213	89	16742	10201981
2004-05	229	96	18080	11038543
2005-06	241	101	19327	12043050
2006-07	249	109	21170	13163054
2007-08	272	103	23206	14400381
2008-09	300	128	25951	15768417
2009-10	363	130	31812	17243352
2010-11	621	131	32974	27499749

Table 26 Contd...

Table 26 (Contd.)

UNIVERSITIES / COLLEGES AND THEIR ENROLMENT FROM 1976-77 TO 2022-23

(Number)

Year	Universities	Institutions/ Deemed to be Universities	Colleges	Total Enrolment
2011-12	642	128	34852	29184331
2012-13	667	127	35525	30152417
2013-14	723	127	36634	32336234
2014-15	760	122	38498	34211637
2015-16	799	122	39071	34584781
2016-17	864	122	40026	35705905
2017-18	903	123	39050	36642378
2018-19	993	124	39931	37399388
2019-20	1043	126	42343	38536359
2020-21	1113	124	43796	41380713
2021-22	1043	126	46207	43268181
2022-23	1162	136	48291	42993064

Source : University Grants Commission (UGC) Annual Reports and All India Survey on Higher Education (AISHE), Ministry of Education (MoE) Survey Reports.

Note : 1. Series revised from 2010-11 as per the various AISHE, MoE survey reports.
 2. The number of Universities since 2010-11 onwards also includes institutions of National Importance.
 3. Figures of students enrolment pertain to regular/distance mode courses in universities and colleges including standalone institutions such as polytechnics, Institutes under central ministries, nursing institutes, teacher training Institutes etc awarding diploma and certificate.

Table 27

DOCTORATE DEGREES AWARDED FACULTY-WISE, 2012-13 TO 2021-22

(Number)

Sl No.	Faculty	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22
A	Science & Technology										
	Science	4381	5910	5721	6678	8089	8914	10055	9172	6232	7732
	Engineering/ Technology	2477	3074	2918	3272	3749	5289	7659	6627	5001	6913
	Medicine	1644	900	985	1226	1507	1422	1606	2120	1757	2073
	Agriculture	3473	2346	1810	2062	1951	4465	4748	4990	1793	1738
	Veterinary Science	200	281	279	291	295	298	406	444	200	316
	Total S&T- (A)	12175	12511	11713	13529	15591	20388	24474	23353	14983	18772
B	Others	11455	11350	10117	10642	13188	14012	16339	15633	10567	13816
	Total (A+B)	23630	23861	21830	24171	28779	34400	40813	38986	25550	32588
	% in Science & Technology(S&T) Disciplines										
	Science	36.0	47.2	48.8	49.4	51.9	43.7	41.1	39.3	41.6	41.2
	Engineering/ Technology	20.3	24.6	24.9	24.2	24.0	25.9	31.3	28.4	33.4	36.8
	Medicine	13.5	7.2	8.4	9.1	9.7	7.0	6.6	9.1	11.7	11.0
	Agriculture	28.5	18.8	15.5	15.2	12.5	21.9	19.4	21.4	11.8	9.3
	Veterinary Science	1.6	2.2	2.4	2.2	1.9	1.5	1.7	1.9	1.3	1.7
	Total (S&T) - A	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)

Source : UGC Annual Reports and AISHE, MoE Survey Reports

Note : Engineering/Technology includes Engineering Science, IT & Computer; Agriculture includes Fisheries Science, Science includes Criminology & Forensic Science, Marine Science/Oceanography; Others includes Arts, Commerce, Law, Education, Library & Information Science; Music, Performing/Visual Arts, Journalism & Mass Communication, Physical Education & Social Work etc.

Table 28

SCIENCE AND ENGINEERING (S&E) DOCTORAL DEGREES AWARDED BY SELECT COUNTRIES, 2022

(Number)

Sl No.	Country	All S&E
1	China	53,385
2	United States	44,739
3	India	18,772
4	United Kingdom	16,017
5	Germany	14,019
6	Brazil	10,571
7	France	10,411
8	South Korea	8,571
9	Japan	6,474

Source : 1. Science and Engineering Indicators 2024, NSF, USA
2. Data for India- AISHE, MoE Survey report 2021-22

Note : India- All S&E include Science (including Criminology & Forensic Science, Marine Science/Oceanography), Engineering/Technology (including Engineering Science, IT & Computer), Medicine, Agriculture (including Fisheries Science) and Veterinary Science.

Table 29

SCIENCE AND ENGINEERING (S&E) ARTICLES IN ALL FIELDS, FOR REGIONS, COUNTRIES, OR ECONOMIES, 2012 AND 2022

Rank	Region, country, or economy	2012 (Number)	2022 (Number)	2022 World Total (%)	Average compound annual growth rate, 2012-22 (%)
1	China	3,29,067	8,98,949	26.88	10.57
2	United States	4,30,164	4,57,335	13.68	0.61
3	India	78,135	2,07,390	6.20	10.25
4	Germany	1,05,639	1,13,976	3.41	0.76
5	United Kingdom	98,685	1,05,584	3.16	0.68
6	South America	68,065	1,05,062	3.14	4.44
7	Japan	1,09,040	1,03,723	3.10	-0.50
8	Italy	64,131	90,586	2.71	3.51
9	Russia	36,532	84,252	2.52	8.72
10	South Korea	56,101	76,936	2.30	3.21
11	Canada	59,762	69,052	2.06	1.46
12	Spain	54,680	67,100	2.01	2.07
13	Brazil	48,166	67,031	2.00	3.36
14	France	72,431	65,888	1.97	-0.94
15	Australia	46,728	62,305	1.86	2.92
16	Iran	31,462	60,940	1.82	6.83
17	Turkey	27,962	52,658	1.57	6.53
	World	21,05,157	33,44,037	100.00	4.74

Source : National Center for Science and Engineering Statistics; Science-Metrix; Elsevier, Scopus abstract and citation database, accessed May 2026; Science and Engineering Indicators 2024, NSF, USA

Note : 1. The countries or economies are ranked based on the 2022 total.
2. Article counts refer to publications from conference proceedings and peer-reviewed journal articles in S&E and indexed in Scopus.
3. Articles are classified by their year of publication and are assigned to a region, country, or economy on the basis of the institutional address(es) of the author(s) listed in the article. Articles are credited on a fractional count basis.

Table 30

PATENT APPLICATIONS FROM PERSONS IN INDIA AND ABROAD, 2014-15 TO 2024-25

(Number)

	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
India	12071	13066	13219	15550	17005	20843	24326	29508	43301	51574	68201
Foreigners Resident abroad	30692	33838	32225	32304	33654	35625	34177	36932	39510	40594	42174
Total	42763	46904	45444	47854	50659	56468	58503	66440	82811	92168	110375

Source : Annual Reports of the Controller General of Patents, Designs and Trade Marks.

Note : Foreigners Resident Abroad includes Ordinary, Convention & National Phase Applications under PCT.

Table 31

PATENT APPLICATIONS FILED IN INDIA BY FOREIGN COUNTRIES, 2014-15 TO 2024-25

(Number)

Sl. No.	Country	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21	2021-22	2022-23	2023-24	2024-25
1.	U.S.A.	9702	11815	10883	10179	9959	10564	10487	12087	14701	13907	13376
2.	Germany	3089	2965	2818	2773	2702	2700	2589	2681	2562	3035	3019
3.	U.K.	1059	1165	1008	1136	1097	959	965	1072	1163	1242	1157
4.	France	1469	1263	1214	1184	1213	1176	1045	1186	1068	1176	1332
5.	Japan	5425	4835	4275	4487	4698	4908	4782	4833	4544	4764	5415
6.	Switzerland	1549	1385	1467	1268	1330	1072	1084	1334	1401	1567	1301
7.	Italy	583	612	551	577	586	569	556	556	564	645	617
8.	Russia	90	93	67	93	65	80	56	101	103	103	86
9.	Netherlands	1323	1498	1359	1387	1130	1252	994	1015	947	951	951
10.	Others	6403	8207	8583	9220	10874	12345	11619	12067	12457	13204	14920
	Total #	30692	33838	32225	32304	33654	35625	34177	36932	39510	40594	42174

Source : Annual Reports of the Controller General of Patents, Designs and Trade Marks.

Note : # Includes Ordinary, Convention & National Phase Applications under PCT.

Table 32

PATENT APPLICATIONS FILED BY DIFFERENT STATES IN INDIA, 2020-21 TO 2024-25

(Number)

Sl No.	State/Union Territory	2020-21	2021-22	2022-23	2023-24	2024-25
1	Andhra Pradesh	709	934	1445	2134	3582
2	Bihar	62	80	169	235	324
3	Delhi	1608	1673	1960	2002	2520
4	Gujarat	921	1067	1215	2718	2743
5	Haryana	765	998	959	1014	1521
6	Karnataka	2784	3222	5408	6086	8371
7	Kerala	426	454	497	637	827
8	Madhya Pradesh	398	488	646	726	971
9	Maharashtra	4214	4566	5626	7251	7893
10	Punjab	1650	2197	3405	4604	4461
11	Rajasthan	449	465	1278	1466	2003
12	Tamil Nadu	3945	5262	7686	9565	15440
13	Telangana	1662	1750	2438	2807	4293
14	Uttar Pradesh	2317	3622	5564	5779	5703
15	West Bengal	505	453	808	874	1415
	Others (States/UTs)	1911	2277	4197	3676	6134
	TOTAL	24326	29508	43301	51574	68201

Source : Annual Reports of the Controller General of Patents, Designs and Trade Marks.

Table 33

PATENTS FILED AND SEALED IN INDIA, 2013-14 TO 2024-25

(Number)

Year	No. of applications made	Total No. of applications to be examined	No. of applications deemed to have been abandoned filing of complete specifications	No. of applications deemed to have been abandoned non-acceptance of Complete Specifications	No. of patents sealed		No. of patents in force	
					Indian	Foreign	Indian	Foreign
2013-14	42951	37474	224	6418	634	3592	7464	35168
2014-15	42763	34958	12	6970	684	5294	7561	35695
2015-16	46904	35960	1226	12782	918	5408	7306	37218
2016-17	45444	38578	4357	10408	1315	8532	7660	41105
2017-18	47854	37208	184	24992	1937	11108	8830	47934
2018-19	50659	38665	3779	30458	2511	12772	9787	54899
2019-20	56267	42007	3761	23291	4003	20933	12181	69098
2020-21	58503	42196	295	17944	5629	22756	15687	83211
2021-22	66440	46230	0	1	6397	23676	19700	96216
2022-23	82811	48373	0	19303	9239	24895	26165	111168
2023-24	92168	56905	4393	4305	25082	77975	47335	175910
2024-25	110375	90971	755	0	10682	22822	50848	179632

Source : Annual Reports of the Controller General of Patents, Design and Trade Marks.

Table 34

TOP FOREIGN RESIDENT PATENT APPLICANTS IN INDIA, 2022-23 TO 2024-25

(Number)

Name of Organisation	2022-23	2023-24	2024-25
Qualcomm Incorporated	3482	3017	2949
Nokia Technologies OY	359	517	1582
Samsung Electronics Co. Ltd.	979	1555	1563
Beijing Xiaomi Mobile Software Co. Ltd.	237	457	700
LG Electronics Inc.	326	#	675
Google LLC	#	479	626
Huawei Technologies Co.Ltd.	936	681	521
Apple Inc.	575	516	409
Mercedes-Benz Group AG	#	407	391
Interdigital Patent Holdings, Inc	#	#	349
Telefonaktiebolaget L M Ericsson (Publ)	434	462	#
Microsoft Technology Licensing LLC	428	#	#
LG Energy Solution, Ltd.	288	458	#

Source : Annual Report of Controller General of Patents, Design and Trade Marks.

Note : 1. The figures are arranged in the descending order by the reference year 2024-25.

2. # During the period under reference these organisations did not fall among top patentees.

Table 35

BUDGET ALLOCATION (BE) FOR SELECT CENTRAL SCIENTIFIC DEPARTMENTS DURING LAST 5 YEARS

(Rs. Crore)

Department/Ministry	2022-23	2023-24	2024-25	2025-26	2026-27
Department of Science & Technology (DST)	6000.00	7931.05	8029.01	28508.90	28049.32
Department of Scientific & Industrial Research (DSIR) / Council of Scientific & Industrial Research (CSIR)	5636.46	5746.51	6323.41	6657.78	6765.62
Department of Biotechnology (DBT)	2581.00	2683.86	2275.70	3446.64	3446.00
Department of Space (DoS)	13700.00	12543.91	13042.75	13416.20	13705.63
Department of Atomic Energy (R&D Sector)	7257.91	7618.13	8846.29	9627.94	10411.39
Ministry of Earth Sciences (MoES)	2653.51	3319.88	3064.80	3649.81	3789.23
Total	37828.88	39843.34	41581.96	65307.27	66167.19

Source : Demands for Grants of Central Government, Expenditure Budget, GoI (various years)

Note : BE = Budget Estimate

Institutional Coverage of R&D Data

The R&D data presented in the Science & Technology Indicator Tables are compiled from a broad spectrum of research-performing institutions across all major sectors of the national innovation system.

- **Central Government Sector:** Data cover 590 Central Government R&D laboratories and institutions engaged in scientific research and technological development.
- **State Government Sector:** Coverage includes 75 State Agricultural Universities (SAUs) and State Government R&D laboratories and research institutions.
- **Public Sector Industry:** Information has been collected from 104 Central Public Sector Enterprises and Joint Sector Companies undertaking in-house R&D activities.
- **Private Sector Industry:** Data encompass 2732 private-sector R&D units engaged in research and innovation activities across diverse industrial sectors.
- **Scientific and Industrial Research Organisations (SIROs):** The compilation includes data from 690 SIROs, which are research-oriented organizations recognized by the Department of Scientific and Industrial Research (DSIR), Government of India.
- **Higher Education Sector:** R&D expenditure data have been compiled from 721 higher education institutions undertaking research activities which includes Institutes of National Importance, Central Universities, Private Universities, Deemed Universities and State Universities.
- **Several indicators have been compiled from secondary sources,** including the All India Survey on Higher Education (AISHE), University Grants Commission, Ministry of Education (MoE), Office of the Controller General of Patents, Designs and Trade Marks, international databases of UNESCO Institute for Statistics, OECD, National Science Foundation (NSF), and other official national and international sources.



सत्यमेव जयते

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