

GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENCE AND TECHNOLOGY
RAJYA SABHA
STARRED QUESTION No.72
TO BE ANSWERED ON 17/12/2018

SHARE OF GDP FOR SCIENCE AND TECHNOLOGY

†*72. DR. ASHOK BAJPAI:

Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

- (a) the percentage share of Gross Domestic Product (GDP) being spent for development of Science and Technology in the country;
- (b) the comparative details of other developing and developed countries in terms of expenditure being made towards this end; and
- (c) the steps being taken by Government to increase allocation in the field of Science and Technology?

ANSWER

MINISTER OF SCIENCE AND TECHNOLOGY, MINISTER OF EARTH SCIENCES AND
MINISTER OF ENVIRONMENT, FOREST AND CLIMATE CHANGE
(DR. HARSH VARDHAN)

(a) to (c): A statement is laid on the Table of the House.

STATEMENT AS REFERRED IN REPLY TO PARTS (a) TO (c) OF RAJYA SABHA STARRED QUESTION NO.72 FOR 17/12/2018 REGARDING SHARE OF GDP FOR SCIENCE AND TECHNOLOGY

(a) The percentage share of Gross Domestic Product (GDP) being spent on R&D in S&T for the country is 0.69%.

(b) The comparative details of other developing and developed countries in terms of percentage R&D expenditure against their GDP being made towards S&T are: Republic of Korea – 4.29%; Japan – 3.58%, Germany – 2.87%; USA – 2.73%; China – 2.05%; UK – 1.70%; Canada – 1.61%; Brazil – 1.24%; Russia – 1.19%; and South Africa – 0.73%.

(c) The Government has been constantly engaged in the promotion and growth of scientific research in the country through various measures such as successive increase in plan allocations for scientific departments, setting up of new institutions for science education and research, creation of Centres of Excellence and Facilities in emerging and frontline areas of S&T in academic and national institutions, supporting Mega Facilities for Basic Research, launching of new fellowships and schemes namely, Visiting Advanced Joint Research (VAJRA) for distinguished overseas scientists and academicians including Non-Resident Indians (NRIs) and Overseas Citizens of India (OCIs), Teacher Associateship for Research Excellence (TARE), Overseas Visiting Doctoral Fellowship (OVDF) and Distinguished Investigator Award (DIA), substantial grant to potential scientists through extramural research funding, scaled up funding in the new areas such as Clean Energy and Water including Energy Efficiency, Clean Coal Technology, Smart Grids, Methanol, Desalination, Genome Engineering Technology, National Mission on Interdisciplinary Cyber Physical System (ICPS) etc, promotion of innovation, entrepreneurship and start-ups grant for young scientists, Funds for Improvement of S&T Infrastructure (FIST), encouraging public-private partnerships, fiscal incentives and support measures for enhancing the participation of industry in R&D etc.

The steps taken by the Government has led to an increase of budget allocation of select major scientific agencies by 60% from Rs.17,406 crores in 2014-15 to Rs.27,945 crores in 2017-18 and the same is increased further to Rs.30,617 crores in 2018-19 as given below:

Agency	(Rupees Crore)				
	2014-15 Actual	2015-16 Actual	2016-17 Actual	2017-2018* Actual	2018-2019 Allotted
DST	2889.84	3835.70	4217.08	4726.71	5114.78
DSIR/CSIR	3393.53	4020.98	4030.48	4629.70	4795.97
DBT	1346.97	1554.27	1895.50	2260.11	2411.53
DOS	5798.81	6920.01	7988.87	9155.52	10783.42
DAE (R&D Sector)	2683.08	4891.13	5073.79	5575.83	5712.16
MoES	1293.87	1292.45	1361.28	1597.69	1800.00
Total	17406.10	22514.54	24567.00	27945.56	30617.86

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

Note : Total funds includes plan + non plan figures

* Revised Estimates figure; allotted figures available for current year 2018-19

1. DST - Deptt. of Science & Technology.
2. DSIR/CSIR - Deptt. of Scientific & Industrial Research/ Council of Scientific and Industrial Research.
3. DBT - Deptt. of Biotechnology
4. DOS - Deptt. of Space.
5. DAE - Deptt. of Atomic Energy
6. MoES - Ministry of Earth Sciences formerly Deptt. of Ocean Development
