

Table 1

NATIONAL EXPENDITURE ON RESEARCH AND DEVELOPMENT BY SECTOR

(Rs. Crores)																				
Sector	1970-71	1975-76	1980-81	1985-86	1990-91	1995-96	2001-02	2004-05	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16*	2016-17*
Central Sector	112.47	287.63	580.49	1654.06	3058.27	5199.79	11536.33	15079.95	17872.02	19551.80	21898.88	27513.88	31670.54	33095.18	34021.44	37894.46	38879.89	43094.9	46033.97	49173.49
State Sector	12.58	26.73	59.34	162.78	365.92	657.02	1494.33	1941.53	2334.60	2757.79	2951.80	3562.54	3865.24	4457.81	5137.56	5282.86	5951.15	6327.32	6982.83	7706.25
Private Sector	14.59	42.35	120.69	251.94	549.98	1627.07	3292.69	6038.96	8471.95	10485.58	12926.14	14365.40	15305.55	19337.02	23295.71	27096.51	30514.8	32538.39	37835.64	43995.28
Higher Education Sector							714.80	1056.80	1254.01	1443.21	1660.96	1911.56	2199.97	3306.74	3506.62	3708.96	4010.05	3365.49	3664.01	3989.01
Total	139.64	356.71	760.52	2068.78	3974.17	7483.88	17038.15	24117.24	29932.58	34238.39	39437.77	47353.38	53041.30	60196.75	65961.33	73982.79	79355.89	85326.10	94516.45	104864.03

Source : Data collected and compiled by DST.

: Private sector also includes data taken from CMIE database, DSIR records and Annual Report of Industries.

Note : 1. * Estimated

2. Central Sector data includes 117 R&D units of Public Sector/Joint Sector companies.

3. State Sector includes R&D expenditure of State Agricultural Universities and other state departments/organisations.

4. The number of R&D units in the Private Sector varies from year to year as per the DSIR recognition and estimation from other sources.

5. Private Sector industries data for the year 2003-04 onwards comprised of R&D units/firms recognised by DSIR and industries /multi-national companies from CMIE database not registered with DSIR.

6. Data refers to 2039 in-house Private R&D units which include 360 SIRO units.

7. Based on the NSTMIS sponsored study the projected R&D Expenditure of 10584 MSME's units amounting to Rs. 264.97 crores, Rs. 278.22 crores, 292.13 crores, 306.73 crores & 322.07 crores for the year 2010-11, 2011-12, 2012-13, 2013-14 & 2014-15 respectively has been added to private sector R&D expenditure.

9. Data for the year 2015-16 and 2016-17 has been estimated by applying the rate of growth for the 5 year period 2009-10 to 2014-15, sector-wise.

10. Higher Education Sector data is based on the DST sponsored study on quantification of resources in higher education in India (derived from AISHE database, MHRD) carried out by BHU (2016-17)

10 a. Higher Education - R&D Expenditure includes data from 470, 486, 509 and 533 universities for the year 2011-12, 2012-13, 2013-14 and 2014-15 respectively.

11. Central Sector = Central Government Ministries/Department + Public Sector/joint sector industries