

Table 16

NATIONAL EXPENDITURE ON R&D BY SUB-SECTOR OF ECONOMIC ACTIVITY

Economic Activity	NIC Code	Research & Development Expenditure				
		2005-06	2006-07	2007-08	2008-09	2009-10
(A) Agriculture, Forestry & Fishing, Mining & Quarrying						
1. Agriculture, Hunting and Related Service Activities	01	3909.12	4611.77	4813.63	6050.56	6619.47
2. Forestry, Logging and Related Service Activities	02	305.22	357.35	365.62	462.45	497.82
3. Fishing, Operation of Fish Hatcheries and Fish Farms	03	153.26	163.42	162.00	213.28	272.72
4. Mining of Coal and Lignite, Extraction of Peat	05	50.39	35.27	50.54	47.15	66.48
5. Extraction of Crude Petroleum and Natural Gas	06	156.52	164.83	429.33	451.12	507.89
6. Mining of Metal Ores, Other Mining and Quarrying	07	55.39	54.69	65.36	80.13	89.44
Total R&D Expenditure(Rs Crore) (A) (1+2+...+6)		4629.90	5387.33	5886.49	7304.69	8053.82
GDP by industry of origin (at factor cost Rs. Crores)		732234	829771	961330	1083032	1236765
Ratio of R&D expenditure to GDP by industry of origin (%)		0.63	0.65	0.61	0.67	0.65
(B) Manufacturing, Construction, Electricity Gas & Water Supply						
1. Manufacture of Food Products and Beverages	10	210.10	231.96	251.74	350.14	437.25
2. Manufacture of Tobacco Products	12	67.50	80.76	142.48	134.64	109.58
3. Manufacture of Textiles	13	110.06	105.69	121.98	153.59	180.09
4. Manufacture of Wearing Apparel, Dressing and Dyeing of Fur	14	20.21	21.16	25.24	26.46	30.46
5. Tanning and Dressing of Leather, Luggage Handbags etc.	15	45.27	45.31	45.93	57.65	65.14
6. Manufacture of Wood and Products of Wood and Cork	16	7.54	10.20	10.96	11.00	12.21
7. Manufacture of Paper and Paper Products	17	40.43	40.60	43.34	58.07	78.88
8. Manufacture of Coke, Refined Petroleum Products and Nuclear Fuel	19	147.44	135.67	187.86	261.20	349.75
9. Manufacture of Chemicals, Chemical Products & Fertilizers	20	478.60	717.59	806.14	873.65	973.71
10. Drugs & Pharmaceuticals	21	3408.42	4231.74	5098.01	5896.76	6475.92
11. Manufacture of Rubber and Plastic Products	22	58.45	92.23	92.09	123.81	125.46
12. Manufacture of other Non-Metallic Mineral Products	23	73.98	93.21	90.25	116.50	110.90
13. Manufacture of Basic Metals	24	154.54	201.11	264.01	310.04	278.12
14. Manufacture of Fabricated Metal Products	25	66.32	74.62	78.95	91.35	84.95
15. Manufacture of Medical, Precision and Optical Instruments	26	58.16	55.90	61.52	63.59	67.37
16. Manufacture of Electrical Machinery and Apparatus	27	288.87	362.83	431.14	466.14	519.11
17. Manufacture of Machinery and Equipment	28	458.45	611.64	966.76	1272.16	1391.84

Table 16 (Contd.)

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Economic Activity	NIC Code	Research & Development Expenditure				
		2005-06	2006-07	2007-08	2008-09	2009-10
18. Other Manufacturing (Gems & Jewellery)	32	0.97	1.10	1.23	1.29	0.97
19. Electricity, Gas, Steam and Water Supply	35	1606.56	1873.85	2008.26	2673.89	3536.17
20. Land Transport, Transport via Pipelines	49	60.45	84.62	79.62	111.98	155.51
Total R&D Expenditure (Rs Crore) (B) (1+2+...+20)		7362.32	9071.77	10807.52	13053.93	14983.39
GDP by industry of origin (at factor cost Rs. Crores)		859410	1033410	1205458	1360426	1521744
Ratio of R&D expenditure to GDP by industry of origin (%)		0.86	0.88	0.90	0.96	0.98
(C) Transport & Communication						
1. Manufacture of Motor Vehicles	29	1111.36	1555.02	2142.75	2637.87	2533.31
2. Manufacture of other Transport Equipment	30	300.87	334.69	392.08	347.79	406.21
3. Telecommunications	61	281.18	321.03	358.55	436.13	444.18
4. Computer and Related Activities	62	1970.41	2276.78	2369.46	2317.44	2747.20
Total R&D Expenditure(Rs in Crore) (C) (1+2+...+4)		3663.82	4487.52	5262.84	5739.23	6130.90
GDP by industry of origin (at factor cost Rs. Crores)		846606	998379	1150044	1310845	1485476
Ratio of R&D expenditure to GDP by industry of origin (%)		0.43	0.45	0.46	0.44	0.41
(D) Public Administration & Defence and other Services						
1. Public Administration and Defence	84	5890.35	6051.71	6885.18	8646.07	9491.54
2. Education	85	1885.44	2150.42	2426.27	3089.96	3430.91
3. Health and Social Work	86	938.06	1110.12	1111.88	1568.85	1683.28
4. Service Sector	94	5197.53	5573.62	6532.94	7231.90	8521.51
5. Others Please Specify	99	358.42	397.76	514.75	707.42	732.54
Total R&D Expenditure (Rs Crore) (D) (1+2+...+5)		14269.81	15283.62	17471.03	21244.20	23859.78
GDP by industry of origin (at factor cost Rs. Crores)		459151	505121	573790	703895	885314
Ratio of R&D expenditure to GDP by industry of origin (%)		3.11	3.03	3.04	3.02	2.70
Total R&D Expenditure(Rs in Crore) (A+B+C+D)		29925.84	34230.24	39427.88	47342.04	53027.89

Source :1. Data collected and compiled by DST.

2. GDP at factor cost and by industry of origin taken from Economic Survey 2011-12