

Table 18
INDUSTRIAL SECTOR EXPENDITURE ON R&D BY SUB-SECTOR OF ECONOMIC ACTIVITY

Economic Activity	NIC Code	No. of R&D Units	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	140	191.24	210.25	258.51	341.30	423.28
2. Forestry, Logging and Related Service Activities	02	1	4.65	6.98	8.47	10.05	8.39
3. Fishing, Operation of Fish Hatcheries and Fish Farms	03	0	0.00	0.00	0.00	0.00	0.00
4. Mining of Coal and Lignite, Extraction of Peat	05	7	35.55	29.27	37.68	37.15	55.48
5. Extraction of Crude Petroleum and Natural Gas	06	4	137.43	138.19	416.78	443.07	480.32
6. Mining of Metal Ores, Other Mining and Quarrying	07	15	18.73	17.84	25.44	45.33	39.05
Total R&D Expenditure(Rs Crore) (A) (1+2+...+6)		167	387.61	402.54	746.87	876.89	1006.52
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 (%)			0.05	0.05	0.08	0.08	0.08
(B) Manufacturing, Construction, Electricity Gas & Water Supply							
1. Manufacture of Food Products and Beverages	10	59	113.25	129.25	147.83	179.96	225.20
2. Manufacture of Tobacco Products	12	4	67.50	80.76	142.48	134.64	109.58
3. Manufacture of Textiles	13	28	19.97	22.19	24.64	20.97	23.08
4. Manufacture of Wearing Apparel, Dressing and Dyeing of Fur	14	2	20.21	21.16	25.24	26.46	30.46
5. Tanning and Dressing of Leather, Luggage Handbags etc.	15	3	21.54	21.33	20.26	20.57	22.14
6. Manufacture of Wood and Products of Wood and Cork	16	3	0.86	0.86	1.17	1.07	1.16
7. Manufacture of Paper and Paper Products	17	27	14.72	18.32	18.42	23.59	28.71
8. Manufacture of Coke, Refined Petroleum Products and Nuclear Fuel	19	16	147.44	135.67	187.86	261.20	349.75
9. Manufacture of Chemicals, Chemical Products & Fertilizers	20	226	424.15	670.78	750.77	820.48	874.50
10. Drugs & Pharmaceuticals	21	339	2843.77	3521.43	4280.27	4918.63	5269.49
11. Manufacture of Rubber and Plastic Products	22	39	47.64	64.60	77.83	102.65	98.22
12. Manufacture of other Non-Metallic Mineral Products	23	28	46.72	51.64	53.35	81.68	76.99
13. Manufacture of Basic Metals	24	24	116.77	148.83	202.86	219.21	207.52
14. Manufacture of Fabricated Metal Products	25	55	66.32	74.62	78.95	91.35	84.95
15. Manufacture of Medical, Precision and Optical Instruments	26	43	108.97	108.94	137.29	130.80	127.19
16. Manufacture of Electrical Machinery and Apparatus	27	99	237.68	309.26	354.85	398.48	458.59

Table 18 (Contd.)

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

Economic Activity	NIC Code	No. of R&D Units	Research & Development Expenditure				
			2005-06	2006-07	2007-08	2008-09	2009-10
17. Manufacture of Machinery and Equipment	28	113	458.45	611.64	966.76	1272.16	1391.84
18. Other Manufacturing (Gems & Jewellery)	32	~	0.97	1.10	1.23	1.29	0.97
19. Electricity, Gas, Steam and Water Supply	35	40	50.90	59.86	90.26	98.46	105.41
20. Land Transport, Transport via Pipelines	49	1	3.59	3.81	3.79	5.67	10.74
Total R&D Expenditure (Rs Crore) (B) (1+2+...+20)		1149	4811.42	6056.03	7566.10	8809.31	9496.48
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 (%)			0.56	0.59	0.63	0.65	0.62
(C) Transport & Communication							
1. Manufacture of Motor Vehicles	29	31	1048.01	1500.68	2076.71	2547.11	2440.00
2. Manufacture of other Transport Equipment	30	81	300.87	334.69	392.08	347.79	406.21
3. Telecommunications	61	38	123.63	140.33	177.97	212.44	235.53
4. Computer and Related Activities	62	35	1746.90	2024.63	2077.31	1970.00	2272.73
Total R&D Expenditure(Rs in Crore) (C) (1+2+...+4)		185	3219.41	4000.32	4724.08	5077.34	5354.48
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 (%)			0.38	0.40	0.41	0.39	0.36
(D) Public Administration & Defence and other Services							
1. Public Administration and Defence	84	24	590.94	671.22	761.20	925.62	992.65
2. Education	85	89	206.28	213.45	262.37	376.83	407.02
3. Health and Social Work	86	185	334.33	363.11	444.48	486.43	533.96
4. Service Sector	94	64	209.15	244.32	298.26	270.03	329.00
5. Others Please Specify	99	0	0.00	0.00	0.00	0.00	0.00
Total R&D Expenditure (Rs Crore) (D) (1+2+...+5)		362	1340.71	1492.10	1766.31	2058.91	2262.63
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 (%)			0.29	0.30	0.31	0.29	0.26
Total R&D Expenditure(Rs in Crore) (A+B+C+D)		1863	9759.15	11950.99	14803.36	16822.46	18120.10

Source : Data collected and compiled by DST.

- Note : 1. Industrial Sector Comprises of Private, Public Sector, Scientific and Industrial Research organisations (SIRO) & MSME's.
2. Projected Data of 10584 MSME's units amounting to Rs. 214.06 crores, Rs. 223.24 crores, 232.82 crores, 234.81 crores & 253.36 crores for the year 2005-06, 2006-07, 2007-08, 2008-09 & 2009-10 respectively has been added to private sector R&D expenditure.
3. ~ MSME units not reflected