

Table 12

**EXPENDITURE ON RESEARCH AND DEVELOPMENT BY INDUSTRY GROUPS FOR PUBLIC SECTOR
(2005-06 TO 2009-10)**

Sl. No.	Industry Group	No. of R&D Units	R&D Expenditure (Rs. Lakhs)		R&D Expenditure as % of S.T.O.	
			2005-06	2006-07	2005-06	2006-07
1	Agriculture & Agricultural Machinery	3	805.67	1192.51	0.64	0.93
2	Biotechnology	1	10.08	0.00	2.86	0.00
3	Boilers & Steam Generating Plants	0	0.00	0.00	0.00	0.00
4	Cement & Gypsum	1	0.08	0.00	0.0003	0.00
5	Ceramics	1	40.00	43.00	0.40	0.39
6	Chemicals (Other than Fertilizers)	11	591.07	582.09	0.19	0.17
7	Commercial Offices, Household Equipments	0	0.00	0.00	0.00	0.00
8	Consultancy Services	3	714.26	879.93	0.68	0.73
9	Defence Industries	12	58322.04	66497.76	6.75	6.11
10	Drugs and Pharmaceuticals	4	115.93	154.31	0.65	0.60
11	Dyestuffs	0	0.00	0.00	0.00	0.00
12	Earth Moving Machinery	0	0.00	0.00	0.00	0.00
13	Electricals and Electronics Equipment	16	4953.78	5615.22	0.08	0.08
14	Fermentation Industries	0	0.00	0.00	0.00	0.00
15	Fertilizers	7	1058.20	915.78	0.06	0.06
16	Food Processing Industries	1	45.78	4.96	0.11	0.03
17	Fuels	11	27025.48	25635.47	0.05	0.04
18	Glass	0	0.00	0.00	0.00	0.00
19	Glue & Gelatine	0	0.00	0.00	0.00	0.00
20	Industrial Instruments	0	0.00	0.00	0.00	0.00
21	Industrial Machinery	2	15310.89	25426.91	1.05	1.34
22	Information Technology	1	1181.00	1166.00	1.38	1.17
23	Leather, Leather Goods & Pickers	0	0.00	0.00	0.00	0.00
24	Machine Tools	4	528.45	232.25	1.84	0.83
25	Math. Surveying & Drawing Instruments	0	0.00	0.00	0.00	0.00
26	Medical and Surgical Appliances	1	28.68	63.49	0.47	1.10
27	Metallurgical Industries	16	11742.16	12528.16	0.20	0.17
28	Misc. Mechanical Engineering Industries	1	6.00	0.00	0.06	0.00
29	Papers and Pulps	4	371.12	544.67	0.33	0.43
30	Photographic Raw Film and Paper	1	68.00	74.00	4.65	5.07
31	Prime Movers	0	0.00	0.00	0.00	0.00
32	Rubber Goods	1	12.40	13.00	0.33	0.36
33	Scientific Instruments	1	26.46	35.13	0.12	0.15
34	Soaps, Cosmetics and Toilet Preparations	1	13.75	26.75	0.12	0.22
35	Sugar	1	3.41	2.30	5.25	3.33
36	Telecommunications	5	5610.67	4794.27	2.17	1.76
37	Textiles (Dyed, Printed, Processed)	3	54.69	63.34	0.17	0.20
38	Timber Products	0	0.00	0.00	0.00	0.00
39	Transportation	4	80.09	49.46	0.03	0.01
40	Vegetable Oil & Vanaspati	0	0.00	0.00	0.00	0.00
41	Miscellaneous Industries	0	0.00	0.00	0.00	0.00
	Total	117	128720.14	146540.76	0.18	0.18

Table 12 (Contd.)

EXPENDITURE ON RESEARCH AND DEVELOPMENT BY INDUSTRY GROUPS FOR PUBLIC SECTOR

Sl. No.	Industry Group	No. of R&D Units	R&D Expenditure (Rs. Lakhs)		R&D Expenditure as % of S.T.O.	
			2007-08	2008-09	2007-08	2008-09
1	Agriculture & Agricultural Machinery	3	1057.42	1124.56	0.78	0.62
2	Biotechnology	1	30.00	30.00	2.11	4.42
3	Boilers & Steam Generating Plants	0	0.00	0.00	0.00	0.00
4	Cement & Gypsum	1	0.00	2.47	0.00	0.01
5	Ceramics	1	43.00	43.00	0.36	0.32
6	Chemicals (Other than Fertilizers)	11	524.01	680.48	0.14	0.17
7	Commercial Offices, Household Equipments	0	0.00	0.00	0.00	0.00
8	Consultancy Services	3	884.10	954.48	0.66	0.65
9	Defence Industries	12	75329.17	91610.55	6.80	6.80
10	Drugs and Pharmaceuticals	4	170.37	176.22	0.43	0.43
11	Dyestuffs	0	0.00	0.00	0.00	0.00
12	Earth Moving Machinery	0	0.00	0.00	0.00	0.00
13	Electricals and Electronics Equipment	16	4535.49	5883.81	0.06	0.07
14	Fermentation Industries	0	0.00	0.00	0.00	0.00
15	Fertilizers	7	996.84	1352.70	0.05	0.05
16	Food Processing Industries	1	3.34	28.12	0.01	0.04
17	Fuels	11	35930.14	48254.00	0.05	0.06
18	Glass	0	0.00	0.00	0.00	0.00
19	Glue & Gelatine	0	0.00	0.00	0.00	0.00
20	Industrial Instruments	0	0.00	0.00	0.00	0.00
21	Industrial Machinery	2	46399.01	69055.91	2.15	2.46
22	Information Technology	1	796.00	683.00	0.80	0.81
23	Leather, Leather Goods & Pickers	0	0.00	0.00	0.00	0.00
24	Machine Tools	4	258.63	313.06	1.07	1.41
25	Math. Surveying & Drawing Instruments	0	0.00	0.00	0.00	0.00
26	Medical and Surgical Appliances	1	88.50	113.80	1.85	1.92
27	Metallurgical Industries	16	16734.7	20301.32	0.20	0.23
28	Miscellaneous Industries	0	0.00	0.00	0.00	0.00
29	Papers and Pulps	4	346.72	928.94	0.14	0.38
30	Photographic Raw Film and Paper	1	71.00	76.00	4.14	0.03
31	Prime Movers	0	0.00	0.00	0.00	0.00
32	Rubber Goods	1	13.60	14.40	0.34	0.55
33	Scientific Instruments	1	33.59	25.68	0.14	0.10
34	Soaps, Cosmetics and Toilet Preparations	1	26.22	51.63	0.18	0.30
35	Sugar	1	14.31	0.63	20.44	1.85
36	Telecommunications	5	3216.98	3630.99	1.69	1.30
37	Textiles (Dyed, Printed, Processed)	3	80.36	91.97	0.25	0.32
38	Timber Products	0	0.00	0.00	0.00	0.00
39	Transportation	4	141.91	274.03	0.04	0.06
40	Vegetable Oil & Vanaspati	0	0.00	0.00	0.00	0.00
41	Misc. Mechanical Engineering Industries	1	0.00	0.00	0.00	0.00
	Total	117	187725.41	245701.75	0.20	0.23

Table 12 (Contd.)

EXPENDITURE ON RESEARCH AND DEVELOPMENT BY INDUSTRY GROUPS FOR PUBLIC SECTOR

Sl. No.	Industry Group	No. of R&D Units	R&D Expenditure (Rs. Lakhs)	R&D Expenditure as % of S.T.O.
		R&D	2009-10	2009-10
1	Agriculture & Agricultural Machinery	3	1294.06	0.53
2	Biotechnology	1	25.00	8.80
3	Boilers & Steam Generating Plants	0	0.00	0.00
4	Cement & Gypsum	1	3.12	0.01
5	Ceramics	1	43.00	0.29
6	Chemicals (Other than Fertilizers)	11	750.12	0.20
7	Commercial Offices, Household Equipments	0	0.00	0.00
8	Consultancy Services	3	1305.78	0.83
9	Defence Industries	12	98027.42	5.95
10	Drugs and Pharmaceuticals	4	207.12	0.40
11	Dyestuffs	0	0.00	0.00
12	Earth Moving Machinery	0	0.00	0.00
13	Electricals and Electronics Equipment	16	7166.72	0.07
14	Fermentation Industries	0	0.00	0.00
15	Fertilizers	7	1786.98	0.08
16	Food Processing Industries	1	18.70	0.04
17	Fuels	11	61195.84	0.08
18	Glass	0	0.00	0.00
19	Glue & Gelatine	0	0.00	0.00
20	Industrial Instruments	0	0.00	0.00
21	Industrial Machinery	2	83031.13	2.42
22	Information Technology	1	744.00	1.05
23	Leather, Leather Goods & Pickers	0	0.00	0.00
24	Machine Tools	4	357.78	1.43
25	Math. Surveying & Drawing Instruments	0	0.00	0.00
26	Medical and Surgical Appliances	1	55.64	0.88
27	Metallurgical Industries	16	19740.73	0.24
28	Misc. Mechanical Engineering Industries	1	12.67	0.05
29	Papers and Pulps	4	1350.08	0.60
30	Photographic Raw Film and Paper	1	78.00	2.97
31	Prime Movers	0	0.00	0.00
32	Rubber Goods	1	15.00	2.84
33	Scientific Instruments	1	28.62	0.11
34	Soaps, Cosmetics and Toilet Preparations	1	83.11	0.46
35	Sugar	1	3.57	4.46
36	Telecommunications	5	3805.29	0.58
37	Textiles (Dyed, Printed, Processed)	3	80.56	0.23
38	Timber Products	0	0.00	0.00
39	Transportation	4	245.99	0.05
40	Vegetable Oil & Vanaspati	0	0.00	0.00
41	Miscellaneous Industries	0	0.00	0.00
	Total	117	281456.03	0.27

Source : Data collected and compiled by DST.

Note : S.T.O - Sales Turnover

: R&D - Research and Development

: Maruti Udyog Ltd. Shifted to Private Sector.

: Indian Petrochemicals Corporation Ltd. Shifted to Private Sector.