

## ANNEXURE - 1

## STATEMENT ON RECOGNITION OF IN-HOUSE R&amp;D UNITS

Month	Year	Receipts*	Cumulative Receipts	Disposal	Cumulative Disposal
January	2017	26	44	21	21
February	2017	42	86	22	43
March	2017	27	113	45	88
April	2017	37	150	23	111
May	2017	24	174	20	131
June	2017	18	192	24	155
July	2017	21	213	26	181
August	2017	18	231	31	212
September	2017	23	254	18	230
October	2017	09	263	18	248
November	2017	13	276	19	267

\* Includes 37 applications for additional R&D centres during the year 2017.

Note : A pendency of 18 applications was carried forward from year 2016





## ANNEXURE - 2

### STATEMENT ON RENEWAL OF RECOGNITION OF IN-HOUSE R&D UNITS WHO'S RECOGNITION WAS VALID UPTO 31.03.2017

Month	Year	Receipts	Cumulative Receipts	Disposal	Cumulative Disposal
January	2017	94	94	-	-
February	2017	200	294		
March	2017	92	386		
April	2017	70	456	132	132
May	2017	28	484	93	225
June	2017	11	495	95	320
July	2017	05	500	44	364
August	2017	09	509	40	404
September	2017	14	523	30	434
October	2017	06	529	30	464
November	2017	18	547	25	489
December	2017	5	552		



## ANNEXURE - 3

**LIST OF IN-HOUSE R&D UNITS IN INDUSTRY REPORTING  
ANNUAL R&D EXPENDITURE MORE THAN RS. 5000 LAKHS.**

Sl. No.	Name of the Firm	R&D Expenditure Reported (Rs. in lakhs) *
1.	Ajanta Pharma Ltd.	16109
2.	Alembic Pharmaceuticals Ltd.	12162
3.	Alkem Laboratories Ltd.	21250
4.	Apollo Tyres Ltd.	10427
5.	Aptuit Laurus Pvt. Ltd.	9065
6.	Ashok Leyland Ltd.	27970
7.	Asian Paints Ltd.	7164
8.	Astra Microwave Products Ltd.	8196
9.	Aurigene Discovery Technologies Ltd.	11100
10.	Aurobindo Pharma Ltd.	34163
11.	Avesthagen Ltd.	12500
12.	AVL Technical Centre Pvt. Ltd.	6463
13.	Bajaj Auto Ltd.	33000
14.	BEML Ltd.	6662
15.	Bharat Electronics Ltd.	65031
16.	Bharat Heavy Electricals Ltd.	38685
17.	Biocon Ltd.	14682
18.	Biocon Research Ltd.	15150
19.	Biological E Ltd.	12282
20.	Bioseed Research India (A Division Of DCM Shriram Consolidated Ltd.)	6334
21.	Bosch Ltd.	17460
22.	Cadila Health Care Ltd.	53789
23.	Cadila Pharmaceuticals Ltd.	8769
24.	Cipla Biotech Pvt. Ltd.	7194
25.	Cipla Ltd.	103057
26.	Comviva Technologies Ltd.	5100
27.	Curadev Pharma Pvt . Ltd.	10297
28.	Daikin Airconditioning India Pvt. Ltd.	5013
29.	Daimler India Commercial Vehicles Pvt. Ltd.	24028
30.	Defence Land Systems India Ltd.	5218





Sl. No.	Name of the Firm	R&D Expenditure Reported (Rs. in lakhs) *
31.	Delphi Automotive Systems Pvt. Ltd.	12892
32.	Dr. Reddy's Laboratories Ltd.	78761
33.	Edgeverve Systems Ltd (Transfer of in-house R&D units of M/s. Infosys Ltd )	16807
34.	E-I DuPont India Pvt. Ltd.	20893
35.	Eisai Pharmaceuticals India Pvt. Ltd	7352
36.	Emcure Pharmaceuticals Ltd.	15000
37.	Escorts Ltd.	10950
38.	Force Motors Ltd.	10183
39.	Fresenius Kabi Oncology Ltd.	21211
40.	Gland Pharma Ltd.	6100
41.	Glenmark Pharmaceuticals Ltd.	16200
42.	Grasim Industries Ltd.	9750
43.	Greaves Cotton Ltd.	5258
44.	Hero MotoCorp Ltd.	28990
45.	Hindustan Aeronautics Ltd.	12063
46.	Hindustan UniLever Ltd.	7230
47.	Hospira Healthcare India Pvt. Ltd.	22506
48.	Ind-Swift Laboratories Ltd.	5931
49.	Intas Pharmaceuticals Ltd.	26421
50.	IPCA Laboratories Ltd.	14042
51.	ITC Ltd.	15337
52.	John Deere India Pvt. Ltd	13300
53.	Johnson & Johnson Ltd.	6475
54.	JSW Steel Ltd.	7378
55.	Jubilant Biosys Ltd.	12789
56.	Jubilant Generics Ltd.	13526
57.	Kansai Nerolac Paints Ltd.	7000
58.	Landis+Gyr Ltd.	8385
59.	Larsen & Toubro Ltd.	25319
60.	LG Electronics India Pvt. Ltd.	6360
61.	Lupin Ltd.	61411
62.	Macleods Pharmaceuticals Ltd.	13062
63.	Maharashtra Hybrid Seeds Co. Pvt. Ltd.	8409
64.	Mahindra & Mahindra Ltd.	101582
65.	Mann And Hummel Filter Pvt. Ltd.	5165
66.	Maruti Suzuki India Ltd.	89028



Sl. No.	Name of the Firm	R&D Expenditure Reported (Rs. in lakhs) *
67.	Mazgaon Dock	7571
68.	Medha Servo Drives Pvt. Ltd.	15027
69.	Micro Labs Ltd.	7971
70.	Monsanto Holdings Pvt. Ltd.	6614
71.	MRF Ltd.	19968
72.	MSN Laboratories Pvt. Ltd.	8394
73.	Mylan Laboratories Ltd	59250
74.	Mylan Pharmaceuticals Pvt. Ltd.	9263
75.	Natco Pharma Ltd.	7765
76.	Nektar Therapeutics (India) Pvt. Ltd.	5715
77.	New Holland Fiat (India) Pvt. Ltd.	7052
78.	Oil and Natural Gas Corporation Ltd.	55093
79.	Oracle Financial Services Software Ltd.	31172
80.	Panacea Biotech Ltd.	6650
81.	PI Industries Ltd.	6536
82.	Pioneer Hi Bred Pvt. Ltd.	11013
83.	Piramal Enterprises Ltd.	16331
84.	Praj Industries Ltd.	5646
85.	Reliance Industries Ltd.	41097
86.	Reverse Logistics Company Pvt. Ltd.	5160
87.	Rolta India Ltd.	22500
88.	Serum Institute of India Ltd.	5240
89.	Shahi Exports Pvt. Ltd.	5468
90.	Shantha Biotechnics Ltd.	14763
91.	SRF Ltd.	5050
92.	Steel Authority Of India Ltd.	27700
93.	Stelis Biopharma Pvt. Ltd.	7495
94.	Strides Shasun Ltd.	15388
95.	Sun Pharmaceutical Industries Ltd.	96740
96.	Suven Life Sciences Ltd.	13050
97.	Syngene International Ltd.	76832
98.	Syngenta India Ltd.	9266
99.	Tata Chemicals Ltd.	5550
100.	Tata Consultancy Services Ltd.	10870
101.	Tata Hitachi Construction Machinery Company Pvt. Ltd.	11130
102.	Tata Motors Ltd.	221711
103.	Tata Steel Ltd.	12931
104.	Tejas Networks Ltd.	7654





Sl. No.	Name of the Firm	R&D Expenditure Reported (Rs. in lakhs) *
105.	The Himalaya Drug Company	5100
106.	The Tata Power Co. Ltd.	10183
107.	Torrent Pharmaceuticals Ltd.	23668
108.	Tractors & Farm Equipment Ltd.	7384
109.	TVS Motor Co. Ltd.	28153
110.	Unichem Laboratories Ltd.	6750
111.	UPL Ltd.	10621
112.	USV Pvt. Ltd.	19360
113.	VE Commercial Vehicles Ltd.	25062
114.	Veeda Clinical Research Pvt. Ltd.	7067
115.	Vihan Networks Ltd.	7487
116.	Watson Pharma Pvt. Ltd.	15768
117.	Wipro GE Healthcare Pvt. Ltd.	66080
118.	Wockhardt Ltd.	30080
119.	Zoetis Pharmaceutical Research Pvt Ltd	8773

\* R&D Expenditures Reported are as claimed by the firms in their available Annual reports in DSIR/renewal applications.



## ANNEXURE - 4

**LIST OF IN-HOUSE R&D UNITS IN INDUSTRY REPORTING  
ANNUAL R&D EXPENDITURE IN THE RANGE OF  
RS. 500 LAKHS TO RS. 5000 LAKHS**

Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
1.	Aarti Drugs Ltd.	1649
2.	Aarti Industries Ltd.	1358
3.	Accord Software & Systems Pvt. Ltd.	875
4.	Ace Designers Ltd.	780
5.	Action Construction Equipment Ltd.	680
6.	Adama India Pvt. Ltd.	1585
7.	Advanced Enzyme Technologies Ltd	1150
8.	Advanta India Ltd.	2521
9.	Advik Hi-Tech Pvt. Ltd.	715
10.	Agada Medical Technologies Pvt Ltd.	672
11.	Agappe Diagnostics Ltd.	523
12.	Aizant Drug Research Solutions Pvt. Ltd.	2100
13.	Ajeet Seeds Pvt. Ltd.	1894
14.	Akums Drugs And Pharmaceuticals Ltd.	750
15.	Alkyl Amines Chemicals Ltd.	535
16.	Allengers Medical Systems Ltd.	1000
17.	Alpha Design Technologies Pvt. Ltd.	1100
18.	Alphamed Formulations Pvt. Ltd.	557
19.	Amara Raja Batteries Ltd.	1470
20.	Amoli Organics Pvt. Ltd.	780
21.	AMW Motors Ltd.	4750
22.	Analogies Tech India Pvt. Ltd.	513
23.	Anand NVH Products Pvt. Ltd.	581
24.	Ankur Seeds Pvt. Ltd.	2250
25.	Anthem Biosciences Pvt. Ltd.	877
26.	Anu Industries Ltd.	982
27.	Apex Laboratories Pvt. Ltd	786
28.	Arvind Ltd.	3197
29.	Ashapura Minechem Ltd.	660
30.	Ashoka Biogreen Pvt Ltd.	690







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Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
31.	Aspiro Pharma Ltd	836
32.	Atul Ltd.	1689
33.	Aura Semiconductor Pvt. Ltd.	1950
34.	Aurangabad Electricals Ltd.	2147
35.	Autoliv India Pvt. Ltd.	780
36.	Autometers Alliance Ltd.	795
37.	Avantel Ltd.	510
38.	Avtec Ltd.	991
39.	AYM Syntex Ltd. (Formerly: Welspun Syntex Ltd.)	2884
40.	Bajaj Electricals Ltd.	1800
41.	Balaji Amines Ltd.	1000
42.	Balkrishna Industries Ltd.	3625
43.	Balmer Lawrie & Company Ltd.	1404
44.	Banco Products (India) Ltd.	664
45.	BASF Chemicals India Pvt. Ltd.	3760
46.	BASF India Ltd.	630
47.	Bata India Ltd.	699
48.	Bayer Bioscience Pvt. Ltd.	4608
49.	Bayer Vapi Pvt. Ltd.	641
50.	BDR Lifesciences Pvt. Ltd.	592
51.	Bejo Sheetal Seeds Pvt. Ltd.	750
52.	Berger Paints India Ltd.	2540
53.	Bg Li-In Electricals Ltd.	547
54.	Bharat Dynamics Ltd.	2943
55.	Bharat Forge Ltd.	4313
56.	Bharat Petroleum Corporation Ltd.	4553
57.	Bharat Seats Ltd.	930
58.	Bharat Serums And Vaccines Ltd.	2715
59.	Bilcare Ltd.	1027
60.	Bio Organics & Applied Materials Pvt. Ltd.	606
61.	Biogenomics Ltd.	2026
62.	Biophore India Pharmaceuticals Ltd.	2891
63.	Bisco Bio-Sciences (P) Ltd.	1216
64.	Bliss Gvs Pharma Ltd.	595
65.	Blue Star Ltd.	4879
66.	Brakes India Ltd.	4750





Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
67.	Britannia Industries Ltd.	1421
68.	Buhler (India) Pvt. Ltd.	660
69.	C&S Electric Ltd.	625
70.	C.R.I. Pumps Pvt. Ltd.,	678
71.	Camson Bio Technologies Ltd.	715
72.	Caplin Point Laboratories Ltd.	1181
73.	Case New Holland Construction Equipment (India) Pvt. Ltd.	826
74.	Cavinkare Pvt. Ltd.	1561
75.	Ceat Ltd.	1700
76.	Celon Laboratories Ltd.	740
77.	Centaur Pharmaceuticals Pvt. Ltd.	2002
78.	Central Electronics Ltd.	800
79.	Central Mine Planning & Design Inst Ltd	2247
80.	Charoen Pokphand Seeds (India) Pvt. Ltd.	650
81.	Chennai Petroleum Corpn. Ltd.	870
82.	Claas India Pvt. Ltd.	3702
83.	Clause (India) Pvt. Ltd.	785
84.	Clearsynth Labs Ltd.	990
85.	Comstar Automotive Technologies Pvt. Ltd.	1591
86.	Concord Biotech Ltd.	551
87.	Cooper Corporation Pvt. Ltd.	1741
88.	Coreel Technologies (India) Pvt. Ltd.	2711
89.	Coromandel International Ltd.	650
90.	Croda India Company Pvt. Ltd.	827
91.	Crompton Greaves Ltd.	3770
92.	CTX Lifesciences Pvt. Ltd.	515
93.	Cummins India Ltd.	2809
94.	Dabur India Ltd.	1050
95.	DCM Engineering Ltd.	887
96.	Deccan Fine Chemicals (India) Pvt. Ltd.	1560
97.	Deepak Nitrite Ltd.	835
98.	Delphi -TVS Diesel System Ltd.	3474
99.	Dishman Pharmaceuticals & Chemicals Ltd.	1183
100.	Divi's Laboratories Ltd.	3855
101.	Dow AgroSciences India Pvt. Ltd.	728
102.	DTL Ancillaries Ltd.	1915
103.	Duroshox Pvt. Ltd.	521
104.	East West Seeds India Pvt. Ltd.	2929





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Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
105.	Eastman Exports Global Clothing (P) Ltd.	4015
106.	Ecocat India Pvt. Ltd.	582
107.	Economic Explosives Ltd.	550
108.	Efftronics Systems Pvt. Ltd.	648
109.	Eicher Motors Ltd.	3870
110.	Eimco Elecon (India) Ltd.	520
111.	Elantas Beck India Ltd.	634
112.	Elcom Innovations Pvt. Ltd.	572
113.	Electronics Corporation of India Ltd.	4315
114.	Elgi Equipments Ltd.	3570
115.	Embio Ltd.	800
116.	Emco Ltd.	864
117.	Emerson Climate Technologies (India) Pvt. Ltd.	1033
118.	Emerson Network Power (India) Pvt. Ltd.	669
119.	Enaltec Labs Pvt. Ltd.	920
120.	Enaltec Pharma Research Pvt.Ltd	2149
121.	Endurance Technologies Ltd.	4522
122.	Engineers India Ltd.	1704
123.	Enzene Biosciences Pvt. Ltd.	2934
124.	EPR Centre For Cancer Research & Bioinformatics Pvt. Ltd.	957
125.	Essar Steel Ltd.	2536
126.	Essel Propack Ltd.	1318
127.	Eternis Fine Chemicals Ltd	833
128.	Eugia Pharma Specialities Ltd.	2810
129.	Everest Industries Ltd.	600
130.	Evolva Biotech Pvt. Ltd.	1189
131.	Excel Crop Care Ltd.	1033
132.	Excel Industries Ltd.	525
133.	Exicom Tele-Systems Ltd.	1100
134.	Exide Industries Ltd.	1444
135.	FDC Ltd.	2482
136.	Fermenta Biotech Ltd.	658
137.	Fibcom India Ltd.	1476
138.	Fiem Industries Ltd.	736
139.	Finoso Pharma Pvt Ltd.,	702
140.	Flash Electronics (India) Pvt. Ltd.	655
141.	Fleetguard Filters Pvt. Ltd.	3518



Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
142.	Flowmore Ltd.	1545
143.	Forbes Marshal Pvt. Ltd.	800
144.	FTF Pharma Pvt. Ltd.	1420
145.	G.G.Automotive Gears Ltd.	1477
146.	G.Surgiwear Ltd.	895
147.	Gabriel India Ltd.	1897
148.	Galaxy Surfactants Ltd.	680
149.	Ganga Kaveri Seeds Pvt. Ltd.	925
150.	General Industrial Controls Pvt. Ltd.	540
151.	Gennova Biopharmaceuticals Ltd.	1687
152.	Genus Power Infrastructures Ltd.	1123
153.	Gharda Chemicals Ltd.	3514
154.	Global Calcium Pvt Ltd.	552
155.	Goa Shipyard Ltd.	525
156.	Godavari Biorefineries Ltd.	773
157.	Godfrey Phillips India Ltd.	1479
158.	Godrej Agrovet Ltd.	945
159.	Godrej Consumer Products Ltd.	1734
160.	Gowrie Research Private Ltd.	923
161.	Granules India Ltd.	1469
162.	Grauer & Weil (India) Ltd.	1248
163.	Gujarat State Fertilizers & Chemicals Ltd.	960
164.	Gupta H.C. Overseas (I) Pvt. Ltd.	590
165.	Hamilton Housewares Pvt. Ltd.	696
166.	Harita Seating Systems Ltd.	685
167.	Havells India Ltd.	3074
168.	Hawa Valves (India) Pvt Ltd	1238
169.	HCL Services(Subsidiary of HCL infosystems)	823
170.	Hema Engineering Industries Ltd.	559
171.	Hero Cycles Ltd.	594
172.	Hetero Drugs Ltd.	4437
173.	Hetero Healthcare Ltd.	543
174.	Hetero Labs Ltd.	2615
175.	Hikal Ltd.	3500
176.	HIL Ltd.	550
177.	Hind Rectifiers Ltd.	585
178.	Hindalco Industries Ltd.	1036





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Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
179.	Hindustan Zinc Ltd.	655
180.	Hitachi Hi-Rel Electronics Pvt. Ltd.	590
181.	Hitachi Home & Life Solutions (India) Ltd.	1405
182.	Hitesh Plast Ltd.	517
183.	HLL Lifecare Ltd.	1296
184.	HPL Electric & Power Ltd.	811
185.	Huntsman International (India) Pvt. Ltd.	2846
186.	Hytech Seed India Pvt. Ltd.	1081
187.	ICOMM Tele Ltd.	1060
188.	IFB Automotive Pvt. Ltd.	680
189.	IFB Industries Ltd.	2450
190.	Incozen Therapeutics Pvt. Ltd.	1639
191.	India Glycols Ltd.	686
192.	Indian Immunologicals Ltd.	877
193.	Indian Oil Corporation Ltd.	595
194.	Indo Phyto Chemicals Pvt. Ltd.	695
195.	Indo-American Hybrid Seeds (India) Pvt. Ltd.	885
196.	Indoco Remedies Ltd.	4650
197.	Indofil Industries Ltd.	3150
198.	Innova Rubbers Pvt. Ltd.	650
199.	International Tractors Ltd.	3845
200.	Inventia Healthcare Pvt. Ltd.	2160
201.	Invictus Oncology Pvt. Ltd.	1122
202.	Ion Exchange (India) Ltd.	750
203.	J B Chemicals & Pharmaceuticals Ltd.	3850
204.	J Mitra & Co. Pvt. Ltd.	970
205.	J. K. Fenner (India) Ltd.	1240
206.	Jain Irrigation Systems Ltd.	2602
207.	Jay Ushin Ltd.	750
208.	Jayem Automotives Ltd.,	2250
209.	JBM Auto Ltd.	1250
210.	Jindal Steel & Power Ltd.	1808
211.	Jk Lakshmi Cement Ltd.	985
212.	JK Tyre & Industries Ltd.	3650
213.	JNS Instruments Ltd.	1334
214.	JSW Steel Ltd.	4060
215.	Jubilant Life Sciences Ltd.	1205



Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
216.	Jyoti Cnc Automation Ltd.	1050
217.	Kabra Extrusiontechnik Ltd.	850
218.	Kajaria Ceramics Ltd.	840
219.	Kalpataru Power Transmission Ltd.	972
220.	Kancor Ingredients Ltd.	815
221.	Kaveri Seed Company (P) Ltd.	1183
222.	Kaynes Technology India Pvt. Ltd.	1075
223.	KEC International Ltd.	1750
224.	Kemin Industries South Asia Pvt. Ltd.	694
225.	Kemwell Biopharma Pvt. Ltd.	650
226.	Kimplas Piping Systems Ltd.	1140
227.	Kirloskar Brothers Ltd.	1048
228.	Kirloskar Ferros Industries Ltd.	879
229.	Kirloskar Oil Engines Ltd.	3232
230.	Kirloskar Pneumatic Co. Ltd.	690
231.	Kluber Lubrication India Pvt. Ltd.	850
232.	Kokuyo Camlin Ltd.	605
233.	KPIT Techonologies Ltd.	2227
234.	Krish Biotech Research Pvt. Ltd.	899
235.	Krishidhan Seeds Pvt. Ltd.	1132
236.	Krishna Maruti Ltd.	599
237.	KSS Abhishek Safety Systems Pvt. Ltd.	3024
238.	Kuantum Papers Ltd	1572
239.	Kusam Healthcare Pvt. Ltd	586
240.	L&T Hydrocarbon Engineering Ltd.	1233
241.	L&T Valves Ltd.	1320
242.	Lakshmi Machine Works Ltd.	2372
243.	LG Balakrishnan & Brothers Ltd.	520
244.	Lincoln Pharmaceuticals Ltd.	714
245.	Linkwell Telesystems (P) Ltd.	795
246.	Lohia Crop Ltd.	850
247.	Lucas-Tvs Ltd.	3278
248.	LuK India Pvt. Ltd.	1203
249.	Lumax Industries Ltd.	2700
250.	Luminous Power Technologies (P) Ltd.	1900
251.	Magnasoft Consulting India Pvt. Ltd.	800
252.	Mahashakti Energy Ltd.	1090





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Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
253.	Mahindra Reva Electric Vehicles Pvt. Ltd.	3185
254.	Mahindra Agri Solutions Ltd.	837
255.	Mahindra Sona Ltd.	1017
256.	Mahle Behr India Pvt. Ltd.	1376
257.	Mahle Filter Systems (India) Ltd.	910
258.	Malladi Drugs & Pharmaceuticals Ltd.	686
259.	Manatec Electronics Pvt. Ltd.	610
260.	Mando Automotive India Pvt. Ltd.	2230
261.	Manipal Technologies Ltd.	552
262.	Manjushree Technopack Ltd.	1600
263.	Mankind Pharma Ltd.	3133
264.	Marico Ltd.	850
265.	Mark Exhaust Systems Ltd.	741
266.	Marksans Pharma Ltd.	1920
267.	Matrix Comsec Pvt. Ltd	1104
268.	Mayur Uniquoters Ltd.	820
269.	Medley Pharmaceuticals Ltd.	539
270.	Medreich Ltd.	2125
271.	Megafine Pharma Pvt. Ltd.	1440
272.	Meritor HVS (India) Ltd.	579
273.	Metahelix Life Sciences Ltd	1776
274.	Metrochem Api Pvt. Ltd.	670
275.	Mhindra Two Wheelers Ltd.	2224
276.	Micro Therapeutic Research Labs Pvt. Ltd.	725
277.	Minda Corporation Ltd	946
278.	Minda Industries Ltd.	2050
279.	Minda Stoneridge Instruments Ltd.	1477
280.	Mindarika Pvt. Ltd.	960
281.	Mirc Electronics Ltd.	837
282.	Mishra Dhatu Nigam Ltd.	1600
283.	Mistral Solution Pvt. Ltd.	1100
284.	MJ Biopharma Pvt. Ltd.	1895
285.	MMTC-Pamp India Pvt. Ltd.	661
286.	Modern Insulators Ltd.	670
287.	Monsanto India Ltd.	1403
288.	Mother Dairy Fruit & Vegetables Pvt. Ltd.	590
289.	MSD Wellcome Trust Hilleman Laboratories Pvt. Ltd.	4558
290.	Muez Hest India Pvt. Ltd.	925





Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
291.	Mybox Technologies Pvt. Ltd.	505
292.	Mylan Pharmaceuticals Pvt. Ltd.	1897
293.	Nagarjuna Agrichem Ltd.	725
294.	Nagarjuna Fertilizers & Chemicals Ltd.	1307
295.	Napino Auto and Electronics Ltd.	615
296.	Nath Biogene (I) Ltd.	1111
297.	National Aluminium Company Ltd.	4227
298.	National Engineering Industries Ltd.	1770
299.	Navin Fluorine International Ltd.	1905
300.	NELCAST LTD.	785
301.	Neuheit Pharma Technologies Pvt. Ltd.	700
302.	Neuland Laboratories Ltd.	1065
303.	Neyveli Lignite Corporation Ltd.	1650
304.	Nirmal Seeds Pvt. Ltd.	981
305.	Nissan Ashok Leyland Technologies Pvt. Ltd.	1148
306.	NMDC Ltd.	1734
307.	Nosch Labs Pvt. Ltd.	617
308.	Nova Integrated Systems Ltd.	872
309.	NRB Bearings Ltd.	850
310.	NTL Electronics India Ltd.	510
311.	Nucleus Software Exports Ltd.	4497
312.	Nunhems India Pvt. Ltd.	2628
313.	Nunhems Vegetable Seeds Pvt. Ltd.	990
314.	Nuziveedu Seeds Pvt. Ltd.	3055
315.	Oil India Ltd.	4676
316.	Olive Lifesciences Pvt. Ltd.	650
317.	Omniactive Health Technologies Pvt. Ltd.	1196
318.	Orbicular Pharmaceutical Technologies Pvt. Ltd.	1415
319.	Orchid Chemicals And Pharmaceuticals Ltd.	2763
320.	Padmini VNA Mechatronics Pvt. Ltd.	918
321.	Paramount Conductors Ltd.	2650
322.	Parle Global Technologies Pvt. Ltd.	1080
323.	Perfint Healthcare Pvt. Ltd.	1196
324.	Perrigo Laboratories India Pvt. Ltd.	2927
325.	Pest Control (India)Pvt. Ltd.	573
326.	Pharmazz India Pvt. Ltd.	1476
327.	PHI Seeds Ltd.	952







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Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
328.	Philips Lighting India Ltd.	2590
329.	Phillips Carbon Black Ltd.	921
330.	Piaggio Vehicles Pvt. Ltd.	2065
331.	Pidilite Industries Ltd.	2289
332.	Pinnacle Industries Ltd.	525
333.	Poddar Pigments Ltd.	520
334.	Poly Medicure Ltd.	950
335.	Polycab Wires Pvt. Ltd.	560
336.	Ppap Automative Ltd.	785
337.	PPG Asian Paints Pvt. Ltd.	1912
338.	Pranav Vikas (I) Ltd.	870
339.	Prathista Industries Ltd.	820
340.	Precision Automation and Robotics India Ltd.	800
341.	Prescient Color Ltd.	545
342.	Pricol Ltd.	3610
343.	Privi Organics Ltd.	750
344.	Promed Exports Ltd.	1804
345.	R R Kabel Ltd.	610
346.	RA Chem Pharma Ltd.	904
347.	Radiant Corporation Pvt. Ltd.	525
348.	Raj Petro Specialities Pvt. Ltd.	589
349.	Rallis India Ltd.	2875
350.	Ramco Systems Ltd.	3829
351.	Ramtech Software Solution Pvt. Ltd.	555
352.	Rane (Madras) Ltd.	1150
353.	Rane Brake Lining Ltd.	1700
354.	Rane TRW Steering Systems Pvt. Ltd.	772
355.	Raptakos, Brett & Co. Ltd.	610
356.	Rashtriya Ispat Nigam Ltd.	3309
357.	Rasi Hyveg Pvt. Ltd.	1247
358.	Rasi Seeds (P) Ltd.	2451
359.	Raychem RPPG (P) Ltd.	1750
360.	ReGen Powertech Pvt Ltd.	550
361.	Reliance Life Sciences Pvt. Ltd.	3570
362.	Reverse Logistics Company Pvt. Ltd.	2300
363.	Rico Auto Industries Ltd.	775
364.	Rishabh Instruments Pvt. Ltd.	683



Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
365.	RPG Life Sciences Ltd.	1498
366.	RRB Energy Ltd.	1400
367.	Sahajanand Laser Technology Ltd.	595
368.	Sai Life Sciences Ltd.	975
369.	Sami Labs Ltd.	765
370.	Sanden Vikas (India) Ltd.	684
371.	Sandhar Technologies Ltd.	521
372.	Sanofi-Synthelabo (India) Ltd.	3501
373.	Sanzyme Ltd.,	1015
374.	SAVA Healthcare Ltd.	509
375.	Savannah Seeds Pvt. Ltd.	934
376.	SEE Linkages Pvt. Ltd.	505
377.	Seedworks International Pvt. Ltd.	1291
378.	Selec Controls Pvt. Ltd.	650
379.	Semler Research Centre Pvt. Ltd.	622
380.	Sequent Scientific Ltd.	1138
381.	Setco Automotive Ltd.	750
382.	SFO Technologies Pvt. Ltd.	896
383.	Sh Kelkar & Company Pvt. Ltd.	1362
384.	Sharda Motor Industries Ltd.	735
385.	Shilpa Medicare Ltd.	3044
386.	Shipla Biotech Pvt. Ltd.	1296.
387.	Shree Cement Ltd.	1750
388.	Silab Tech Pvt. Ltd.	830
389.	Simpson & Co. Ltd.	1500
390.	Sipra Labs Ltd.	1457
391.	Skarray Technologies Pvt. Ltd.	1107
392.	Ski Carbon Black (India) Pvt. Ltd.	1228
393.	Smilax Laboratories Ltd.	840
394.	SML Isuzu Ltd.,	1959
395.	SMR Automotive Systems India Ltd.	725
396.	SMS Pharmaceuticals Ltd.	540
397.	Solar Industries India Ltd.	750
398.	Sphaera Pharma Pvt. Ltd.	608
399.	Spicer India Pvt. Ltd.	591
400.	Sri Krishna Pharmaceutical Ltd.	500
401.	Sripathi Paper And Boards Pvt. Ltd.	1893
402.	Steel Strips Wheels Ltd.	774





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Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
403.	Stelis Biopharma Pvt. Ltd.	4850
404.	Stellence Pharmscience Ltd.	608
405.	Stempeutics Research Pvt. Ltd.	737
406.	Sterlite Technologies Ltd.	2500
407.	Strand Life Sciences Pvt. Ltd.	1968
408.	Structwel Designers & Consultants Pvt. Ltd.	583
409.	Subros Ltd.	2950
410.	Sud Chemie India Ltd.	1275
411.	Sudarshan Chemical Industries Ltd.	989
412.	Suguna Foods Pvt. Ltd.	1216
413.	Su-Kam Power Systems Ltd.	2200
414.	Sundaram Brake Linings Ltd.	850
415.	Sundaram Clayton Ltd.	1100
416.	Sundaram Fastners Ltd.	1725
417.	Symed Labs Ltd.	1444
418.	Synapse Labs Pvt. Ltd.	535
419.	Syngenta Biosciences Pvt. Ltd.	861
420.	Tafe Motors And Tractors Ltd.	4909
421.	Tagros Chemicals India Ltd.	500
422.	Tally Solutions Pvt. Ltd.	1985
423.	Tamil Nadu Newsprint and Papers Ltd.	650
424.	Tata Advanced Systems Ltd.	623
425.	TATA Autocomp Hendrickson Suspensions Pvt. Ltd.	836
426.	Tata Autocomp Systems Ltd.	1478
427.	Tata Cummins Pvt. Ltd.	2142
428.	Tata Elxsi Ltd.	1631
429.	Tata International Ltd.	1682
430.	Tata Toyo Radiator Ltd.	818
431.	TD Power Systems Ltd.	840
432.	TEVA Api India Ltd.	3500
433.	Tevapharm India Pvt. Ltd.	4451
434.	The Century Textiles & Industries Ltd.	546
435.	Therdose Pharma Pvt. Ltd.	2488
436.	Thermax Ltd.	2799
437.	THINQ Pharma-Cro Ltd.	568
438.	Titan Company Ltd.	4070
439.	Titan Laboratories Pvt. Ltd.	550
440.	TML Drivelines Ltd.	1050



Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
441.	Transasia Bio-Medicals Ltd.	1579
442.	Transgene Biotek Ltd.	1200
443.	TRF Ltd.	935
444.	Trimurti Plant Sciences Pvt. Ltd.	610
445.	Triveni Turbine Ltd.	1250
446.	TRL Krosaki Refractories Ltd.	800
447.	Tube Investments Of India Ltd.	2120
448.	Turbo Energy Ltd.	2600
449.	Tuscano Equipments Pvt. Ltd.	845
450.	TVS Srichakra Ltd.	2359
451.	Ucal Fuel Systems Ltd.	850
452.	Uflex Ltd.	575
453.	Ultratech Cement Ltd.	2731
454.	Umedica Laboratories Pvt. Ltd.	2223
455.	Unison Pharmaceuticals Pvt. Ltd.	775
456.	United Genetics India Pvt. Ltd.	615
457.	United Spirits Ltd.	835
458.	United States Pharmacopeia India Pvt. Ltd.	3265
459.	USHA International Ltd.	539
460.	Uurmi Systems Pvt Ltd.	550
461.	Varroc Polymers Pvt. Ltd.,	1455
462.	Vector Bioscience Pvt. Ltd.	623
463.	Veera Vahana Udyog Pvt. Ltd.	683
464.	VEM Technologies Pvt. Ltd.	661
465.	Venco Research & Breeding Farm Ltd.	4197
466.	Venkateshwara Hatcheries Pvt. Ltd.	1702
467.	Venkateshwara Research & Breeding Farm (P) Ltd.	2255
468.	Venus Remedies Ltd.	2100
469.	VerGo Pharma Research Laboratories ., (Goa	1775
470.	V-Guard Industries Ltd.	910
471.	Videocon Industries Ltd.	840
472.	Virchow Biotech Pvt. Ltd.	1050
473.	Visteon Automotive Systems India Pvt. Ltd.	1317
474.	Vivimed Labs Ltd.	1670
475.	Vrinda Technologies Pvt. Ltd.	802
476.	VVDN Technologies Pvt. Ltd.	1258
477.	Vyome Biosciences Pvt. Ltd.	1545





Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
478.	WABCO-TVS (India) Ltd.	2791
479.	Wanbury Ltd.	1252
480.	Welspun India Ltd.	1758
481.	Wendt India Ltd.	800
482.	Wheels India Ltd.	1653
483.	Whirlpool of India Ltd.	2440
484.	WILO Mather And Platt Pumps Pvt. Ltd.	618
485.	Windlas Healthcare (P) Ltd.	1800
486.	Wipro Enterprises Ltd (Formerly Wipro Ltd.)	848
487.	Yazaki India Pvt. Ltd.	921
488.	Zen Technologies Ltd.	832
489.	ZIM Laboratories Ltd.	605
490.	Zuventus Healthcare Ltd.	575

\* R&D expenditures reported are as claimed by the firms in their available Annual reports in DSIR/renewal applications.



## ANNEXURE - 5

**LIST OF IN-HOUSE R&D UNITS IN INDUSTRY REPORTING  
ANNUAL R&D EXPENDITURE IN THE RANGE OF  
RS. 200 LAKHS TO RS. 500 LAKHS.**

Sl no	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
1.	20 Microns Nano Minerals Ltd.	220
2.	A2Z Filtration Specialities Pvt. Ltd.	368
3.	AAK Kamani Pvt. Ltd	205
4.	Aban Infrastructure Pvt. Ltd.	470
5.	ABI Showatech (India) Ltd.	291
6.	Ace Manufacturing Systems Ltd.	483
7.	Achira Labs Pvt Ltd.	418
8.	Acme Formulation Pvt. Ltd.	232
9.	Ador Welding Ltd.	410
10.	Advanced Microdevices Pvt. Ltd.	210
11.	Advanced Neuro-Science Allies Pvt. Ltd.	350
12.	Aeon Formulations Pvt. Ltd.	307
13.	Agro Tech Foods Ltd.	274
14.	Ahammune Biosciences Pvt. Ltd.	300
15.	Albert David Ltd.	480
16.	Alchem International Pvt. Ltd.	270
17.	Alicon Castalloy Ltd.	470
18.	Allied Nippon Ltd.	265
19.	ALP Nishikawa Company Pvt. Ltd.	475
20.	Ama Herbal Laboratories Pvt. Ltd.	341
21.	Ami Life Sciences Pvt. Ltd.	441
22.	Ami Organics Pvt. Ltd.	320
23.	Amol Pharmaceuticals Pvt. Ltd.	360
24.	Amtech Electronics (India) Ltd.	240
25.	Anabond Ltd.	260
26.	Anandnvh Products Pvt. Ltd.	412
27.	Anchor Mark Pvt. Ltd.	317
28.	Anuh Pharma Ltd.	250





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Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
29.	Apar Industries Ltd.	310
30.	Apcotex Industries Ltd.	415
31.	Appasamy Ocular Devices (P) Ltd.	210
32.	Aquatech Systems (Asia) Pvt. Ltd.	355
33.	Archimedis Healthcare Pvt. Ltd.	285
34.	Arjuna Natural Extracts Ltd.	437
35.	Arkray Healthcare Pvt. Ltd.	250
36.	Arya Vaidya Pharmacy (Coimbatore) Ltd.	250
37.	Ashida Electronics Pvt. Ltd.	290
38.	Aspiro Pharma Ltd.	492
39.	Associated Soapstone Distributing Company Pvt. Ltd.	260
40.	Astec Lifesciences Ltd.	325
41.	ATS Elgi Ltd.	350
42.	Auto Ignition Ltd.	452
43.	Ava Cholayil Healthcare Pvt. Ltd.	206
44.	Avra Laboratories Pvt. Ltd.	330
45.	AVT Natural Products Ltd.	435
46.	Axxonet System Technologies Pvt. Ltd.	262
47.	Bajaj Healthcare Ltd.	232
48.	Bangalore Biotech Labs Pvt. Ltd.	220
49.	Barrix Agro Sciences Pvt. Ltd.	429
50.	BDR Pharmaceutical International Pvt. Ltd.	473
51.	Beloorbayir Biotech Ltd.	220
52.	Bench Bio Pvt. Ltd.	439
53.	Bharat Aluminium Company Ltd.	378
54.	Bharat Bio-Tech International Ltd.	466
55.	Bharat Fritz Werner Ltd.	220
56.	Bhat Bio-Tech India (P) Ltd.	250
57.	Bimetal Bearings Ltd.	250
58.	Biogenex Life Sciences Pvt. Ltd., Hyderabad	317
59.	Bioneds India Pvt Ltd	495
60.	Biostadt India Ltd.	201
61.	Bioviz Technologies Pvt. Ltd.	261
62.	BMC Electroplast Pvt. Ltd.	340
63.	Bosch Chassis Systems India Pvt. Ltd.	391
64.	Botil Oil Tools India Pvt. Ltd.	224
65.	Brill Pharma Ltd.	356





Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
66.	Bry-Air (Asia) Pvt. Ltd.	225
67.	Camlin Fine Sciences Ltd.	280
68.	Canara Hydraulics Pvt. Ltd.	462
69.	Carborundum Universal Ltd.	450
70.	Centum Electronics Ltd.	397
71.	Centum Rakon India Pvt. Ltd.	360
72.	Charak Pharma Pvt. Ltd.	350
73.	Chembond Chemicals Ltd.	245
74.	Chheda Electricals And Electronics Pvt. Ltd.	351
75.	Cholayil Pvt. Ltd.	358
76.	Cikautxo India Pvt. Ltd.	220
77.	Clonz Biotech Pvt. Ltd.	220
78.	Colourtex Industries Pvt. Ltd.	237
79.	Concept Pharmaceuticals Ltd.	330
80.	Connectwell Industries Pvt. Ltd.	320
81.	Construction Catalysers Pvt. Ltd.	263
82.	Continental Carbon India Ltd.	245
83.	Coral Drugs Pvt. Ltd.	450
84.	Cosmo Films Ltd.	404
85.	Crest Biotech Pvt. Ltd.	325
86.	Crystal Crop Protection Pvt. Ltd.	421
87.	CTR Mfg Industries Ltd.	432
88.	Cyient Ltd.	228
89.	DataMetica Solution Pvt. Ltd.	254
90.	Deepak Fertilisers And Petrochemicals Corporation Ltd.	250
91.	Deepti Electronics & Electro-Optics Pvt. Ltd.	350
92.	Deki Electronics Ltd.	235
93.	Desiccant Rotors International Pvt. Ltd.	230
94.	Dhanuka Agritech Ltd.	275
95.	Dhoot Transmission Pvt. Ltd.	325
96.	Dhoot Transmission Pvt. Ltd.	235
97.	DIC India Ltd.	300
98.	Dixon Technologies India Pvt. Ltd.	366
99.	Doehler India Pvt. Ltd.	229
100.	Dorf Ketal Chemicals India Pvt. Ltd.	366
101.	Durovalves India Pvt. Ltd.	350
102.	Econ Metallic (India) Pvt. Ltd.	280





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Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
103.	E-Con Systems India Pvt. Ltd.	453
104.	Eesavyasa Technologies Pvt. Ltd.	325
105.	EICL Ltd.	368
106.	EID Parry (India) Ltd.	399
107.	Eldorado Agritech Pvt. Ltd.	295
108.	Elecon Engineering Company Ltd.	355
109.	Elecon Measurements Pvt. Ltd.	320
110.	Electrolab India Pvt. Ltd.	275
111.	Electropneumatics & Hydraulics (India) Pvt. Ltd.	325
112.	Elico Ltd.	250
113.	Elin Electronics Ltd.	450
114.	Elofic Industries Ltd.	220
115.	EMI Solutions Pvt. Ltd.	210
116.	Emmbi Industries Ltd.	425
117.	Encardio-Rite Electronics Pvt. Ltd.	250
118.	Encube Ethicals Pvt. Ltd.	365
119.	Enpro Industries Pvt. Ltd.	415
120.	Envision Scientific Pvt. Ltd.	383
121.	Essae- Teraoka Ltd.	370
122.	Esteem Industries Pvt. Ltd.	306
123.	Eveready Industries India Ltd.	490
124.	Everest Organics Ltd.	264
125.	Evolute Systems Pvt. Ltd.	450
126.	Ewac Alloys Ltd.	250
127.	Fertis India Pvt. Ltd.	280
128.	Filtra Catalysts & Chemicals Ltd.	285
129.	Fizzy Foodlabs Pvt. Ltd.	250
130.	Flamingo Pharmaceuticals Ltd.	325
131.	Forus Health Pvt. Ltd.	322
132.	Fowler Westrup (India) Pvt. Ltd.	230
133.	Frog Cellsat Ltd.	450
134.	Gammon India Ltd.	250
135.	Gandhar Oil Refinery India Ltd.	368
136.	Garware Wall Ropes Ltd.	239
137.	GCC Biotech India Pvt. Ltd.	250
138.	G-Cube Web wide Software Pvt. Ltd	351
139.	GeneSys Biologics Pvt. Ltd.	381



Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
140.	Genome Life Science Pvt. Ltd.	307
141.	Gland Chemicals Pvt. Ltd.	450
142.	Glaxo Smithkline Pharmaceuticals Ltd.	304
143.	Greensignal Bio Pharma Ltd.	275
144.	GSP Crop Science Pvt. Ltd.	260
145.	Gujarat Alkalies & Chemicals Ltd.	262
146.	Gujarat Metal Cast Industries Ltd.	291
147.	Gujarat Narmada Valley Fertilizers & Chemicals Ltd.	243
148.	Gulbrandsen Chemicals Pvt. Ltd.	394
149.	Gulf Oil Lubricants India Ltd.	364
150.	Gumpro Drilling Fluids Pvt. Ltd.,	276
151.	H&R Johnson (India)(A Division Of Prism Cement Ltd.)	289
152.	Hanon Climate System India Pvt. Ltd.	217
153.	Hawkins Cookers Ltd.	338
154.	HCL Learning ( Subsidiary of HCL Infosystems)	490
155.	Heinz India Pvt. Ltd.	489
156.	Hester Biosciences Ltd.	450
157.	Heubach Colour Pvt. Ltd.	321
158.	Himadri Chemicals and Industries Ltd.	430
159.	Hi-Media Laboratories Pvt. Ltd.	253
160.	Hindustan Shipyard Ltd.	480
161.	Hi-Tech Gears Ltd.	453
162.	HMC mm Auto Ltd.	415
163.	HMT Ltd.(Tractor Division)	310
164.	HPL Additives Ltd.	307
165.	Huber+Suhner Electronics Pvt. Ltd.	402
166.	Huhtamaki PPL Ltd.	225
167.	Hy-Gro Chemicals Pharmtek Pvt. Ltd.	440
168.	Ideal Cures Pvt. Ltd.	363
169.	IDMC Ltd.	349
170.	Igarashi Motors India Ltd.	400
171.	Imperial Auto Industries Ltd.	390
172.	Indbro Research and Breeding Farms Pvt. Ltd.	227
173.	Indfrag Ltd.	220
174.	India Japan Lighting (P) Ltd.	425
175.	India Nippon Electricals Ltd.	358
176.	India Pistons Ltd.	325





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Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
177.	Indo Colchem Pvt. Ltd.	295
178.	INDO US Bio Tech Pvt. Ltd.	235
179.	Indovax Pvt. Ltd.	220
180.	Ind-Swift Ltd.	311
181.	Ingersoll Rand India Pvt. Ltd.	210
182.	Innovassynth Technologies (India) Ltd.	361
183.	Inspiron Engineering Pvt. Ltd.	208
184.	Intelux Electronics Pvt.Ltd.,	345
185.	International Panaacea Ltd.	258
186.	Intervet India Pvt. Ltd.	490
187.	Inventys Research Company Pvt. Ltd.	231
188.	IOL Chemicals and Pharmaceuticals Ltd.	350
189.	ISMT Ltd.	350
190.	ISSAR Pharmaceuticals Pvt. Ltd.	340
191.	Ittiam Systems Pvt. Ltd.	474
192.	Jaipur Rugs Company Pvt. Ltd.	275
193.	Janatics India Pvt. Ltd.	450
194.	Jaya Hind Industries Ltd.	257
195.	Jayant Agro-Organics Ltd.	223
196.	Jayashree Polymers Pvt. Ltd.	462
197.	JCBL Ltd.	247
198.	Jesons Industries Ltd.	329
199.	JK Agri Genetics Ltd.	399
200.	JKPaper Ltd.	439
201.	JSL Lifestyle Ltd.	250
202.	JSW Steel Coated Products Ltd.	410
203.	Jyoti Ltd.	470
204.	Kaisha Lifesciences Pvt. Ltd.	338
205.	Kalash Seeds Pvt. Ltd	205
206.	Kalki Communication Technologies Pvt. Ltd.	430
207.	Kalyani Carpenter Special Steels Pvt. Ltd.	308
208.	Kalyani Maxion Wheels Ltd.	327
209.	Kandui Industries Pvt. Ltd.	302
210.	Kaypeeyes Biotech Pvt. Ltd.	278
211.	Kennametal India Ltd.	423
212.	Kesoram Industries Ltd.	450
213.	Kimia Biosciences Pvt. Ltd.	244
214.	Kinetic Green Energy & Power	260



Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
215.	Kiran Global Chems Ltd.	423
216.	Kirtiman Agro Genetics Ltd.	438
217.	Kritikal Securescan Pvt. Ltd.	250
218.	Kumar Organic Products Ltd.	220
219.	L&T Construction Equipment Ltd.	298
220.	LA Renon Health Care Pvt. Ltd.	237
221.	Labindia Analytical Instruments Pvt. Ltd.	280
222.	Lamco Industries Pvt. Ltd.	380
223.	Laxmi Hydraulics Pvt. Ltd.	320
224.	Laxmi Organic Industries Ltd.	253
225.	Leadinvent Technologies Pvt. Ltd.	250
226.	Lee Pharma Ltd.	235
227.	Lee Pharma Ltd.	225
228.	Lifecell International Pvt. Ltd.	231
229.	Loba Chemie Pvt. Ltd	304
230.	Lumax Mannoh Allied Technologies Ltd.	287
231.	Lyka Labs Ltd.	232
232.	Madras Engineering Industries Pvt. Ltd.	273
233.	Mahabal Metals Pvt. Ltd.	226
234.	Mahle Filter Systems (India) Pvt.Ltd.	386
235.	Mangalam Alloys Ltd.	394
236.	Manugraph India Ltd.	288
237.	Max Speciality Films Ltd.	275
238.	Mecon Ltd.	263
239.	Mediatronix Pvt. Ltd.	325
240.	Meghmani Industries Ltd.	250
241.	Meghmani Organics Ltd.	358
242.	Mehru Electrical And Mechanical Engineers Pvt. Ltd.	355
243.	Merck Ltd.	449
244.	Metallizing Equipment Co. Pvt. Ltd.	320
245.	Metalman Auto Pvt. Ltd.	493
246.	Mic Electronics Ltd.	375
247.	Micromatic Grinding Technologies Ltd.	225
248.	Minda Vast Access Systems Pvt. Ltd.	493
249.	Mitra Biotech Pvt. Ltd.	496
250.	MKU Pvt. Ltd.	277
251.	Modi Mundipharma Pvt. Ltd.	283





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Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
252.	Motwane Manufacturing Co. Pvt. Ltd.	210
253.	Mukand Ltd.	250
254.	Murugappa Morgan Thermal Ceramics Ltd.	255
255.	Napino Auto And Electronics Ltd.	466
256.	Naprod Life Sciences Pvt. Ltd.	410
257.	Natesan Synchrocones Pvt Ltd	350
258.	Natsol Laboratories Pvt. Ltd.	250
259.	Natural Remedies Pvt. Ltd.	440
260.	Navya Biologicals Pvt. Ltd.	460
261.	Nicco Corporation Ltd.	275
262.	Nitta Gelatin India Ltd.	470
263.	Noble Seeds Pvt. Ltd.	310
264.	NOCIL Ltd.	424
265.	Nongwoo Seed India Pvt. Ltd.	240
266.	Novalead Pharma Pvt. Ltd.	272
267.	O/E/N India Ltd.	341
268.	OCL India Ltd.	330
269.	Omax Autos Ltd.	271
270.	Omkar Speciality Chemicals Ltd.	325
271.	Optimus Drugs Pvt. Ltd.	260
272.	Opatrix Laboratories Pvt. Ltd.	425
273.	Orange Sorting Machines (India) Pvt. Ltd.	235
274.	Orient Paper and Industrial Ltd.	360
275.	Oswal Industries Ltd.	230
276.	Oxygen Healthcare Research Pvt. Ltd.	375
277.	Panacea Medical Technologies Pvt. Ltd.	412
278.	Paracoat Products Ltd.	370
279.	Paranjape Autocast Pvt. Ltd.	265
280.	Parason Machinery (I) Pvt. Ltd.	310
281.	Pathpartner Technology Pvt. Ltd.	324
282.	Paushak Ltd.	247
283.	Persistent Systems Ltd.	450
284.	Pitambari Products Pvt. Ltd.	279
285.	Plant Lipids (P) Ltd.	225
286.	Plastiblends India Ltd.	275
287.	Plazma Technologies Pvt. Ltd.	245
288.	Polyplastics Industries (India) Pvt. Ltd.	350
289.	Polyplex Corporation Ltd.	325





Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
290.	Porus Laboratories Pvt. Ltd.	280
291.	Prakruti Products Pvt. Ltd.	275
292.	Pratishthan Alloys Pvt. Ltd.	220
293.	Premas Biotech Pvt. Ltd.	250
294.	Premier Seals (India) Pvt. Ltd.	275
295.	Premium Transmission Ltd.	285
296.	Prima Telecom Ltd.	215
297.	Promptec Renewable Energy Solutions Pvt. Ltd.	275
298.	Psychotropics India Ltd.	496
299.	Pulse Pharmaceuticals Pvt. Ltd.	307
300.	Quad Lifesciences Pvt. Ltd.	350
301.	Radix Electrosystems Pvt. Ltd.	407
302.	Rajasthan Antibiotics Ltd.	434
303.	Rajasthan Electronics & Instruments Ltd.	270
304.	Rashtriya Chemicals & Fertilizers Ltd.	430
305.	Ravindranath G.E. Medical Associates Pvt. Ltd.	401
306.	Regenerative Medical Services Pvt. Ltd.	276
307.	Relisys Medical Devices Ltd.	350
308.	Renu Electronics Pvt. Ltd.	455
309.	Resil Chemicals Pvt. Ltd.	408
310.	Rex-Tone Industries Ltd.	465
311.	Rich Graviss Products Pvt. Ltd.	242
312.	River Engineering Pvt. Ltd.	350
313.	Rockman Industries Ltd.	221
314.	Rockwell Industries Ltd.	380
315.	Romsons Scientific and Surgical Industries Pvt. Ltd.	230
316.	Roop Automotive Ltd.	450
317.	Rossari Biotech Ltd.	235
318.	Ruchi Soya Industries Ltd.	345
319.	S.Kant Healthcare Ltd.	313
320.	S.V.A. Rikkon Lubes Pvt. Ltd.	338
321.	Sahajanand Medical Technologies Pvt. Ltd.	279
322.	Sahajanand Technologies Pvt. Ltd.	423
323.	Sakata Seed India (P) Ltd.	370
324.	Saksin Lifescience Pvt. Ltd.	300
325.	Salzer Electronics Ltd.	254
326.	San Engg & Locomotive Co. Ltd.	330
327.	Sandvik Asia Ltd.	300







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Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
328.	Sanika Chemical Pvt. Ltd.	300
329.	Sapala Organics Pvt. Ltd.	385
330.	Sasken Communication Technologies Ltd.	330
331.	Saurav Chemicals Ltd.	210
332.	Sea6 Energy Pvt. Ltd.	340
333.	Shaily Engineering Plastics Ltd.	225
334.	Shalimar Paints Ltd.	227
335.	Sheel Biotech Ltd.	350
336.	Shivashakti Biotechnologies Ltd.	235
337.	Siechem Technologies Pvt. Ltd.	265
338.	Sieger Spintech Equipments Pvt. Ltd.	250
339.	Sigma Electric Manufacturing Corporation Pvt. Ltd.	450
340.	SLN Technologies Pvt. Ltd.	216
341.	Snam Alloys Pvt. Ltd.	382
342.	Sona Koyo Steering Systems Ltd.	450
343.	Sowbhagya Biotech Pvt. Ltd.	260
344.	Span Diagnostics Ltd.	244
345.	Spray Engineering Devices Ltd.	402
346.	Sri Biotech Laboratories India Ltd.	220
347.	Sri Research For Tissue Engineering Pvt. Ltd.	260
348.	Sri Sathya Agri Biotech Pvt. Ltd.	275
349.	SSP Pvt. Ltd.	330
350.	Stabicon Life Sciences Pvt. Ltd.	426
351.	Stanadyne Amalgamations Pvt. Ltd.	340
352.	Star Engineering (I) Pvt Ltd.	238
353.	Steer Engineering Pvt. Ltd.	470
354.	Stumpp, Schuele and Somappa Springs Pvt. Ltd.	450
355.	Sumilon Industries Ltd.	301
356.	Sundaram Industries Pvt. Ltd.	230
357.	Sungro Seeds Ltd.	470
358.	Survival Technologies Pvt. Ltd.	317
359.	Surya Roshni Ltd.	313
360.	Swagene Pvt. Ltd.	276
361.	Symega Savoury Technology Ltd.	325
362.	Symmetrix Biotech Pvt. Ltd.	335
363.	Symphony Ltd.	440
364.	Synthite Industries Ltd.	330



Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
365.	T Stanes & Company Ltd.	320
366.	Talbro's Automotive Components Ltd.	301
367.	Tasty Bite Eatables Ltd.	268
368.	Tata Ficosa Automotive Systems Pvt. Ltd.	230
369.	Tecmuseh Products India Pvt. Ltd.	450
370.	The Andhra Sugars Ltd.	372
371.	The Hi-Tech Robotic Systemz Ltd.	492
372.	The India Cement Ltd.	225
373.	The Indian Hume Pipe Company Ltd.	279
374.	The Ugar Sugar Works Ltd.	249
375.	Thirumalai Chemicals Ltd.	270
376.	Thyssenkrupp Industries India Pvt. Ltd.	416
377.	Tirth Agro Technology Pvt Ltd.	300
378.	Tokita Seed India (P) Ltd.	224
379.	Toshiba Machine (Chennai) Pvt. Ltd.	310
380.	Transpek - Silox Industry Pvt. Ltd.	365
381.	Trimex Sands Pvt. Ltd.	272
382.	Triton Valves Ltd.	250
383.	Trivitron Healthcare Pvt. Ltd.	350
384.	Troikaa Pharmaceuticals Ltd.	485
385.	TTK Healthcare Ltd.	363
386.	TTK Prestige Ltd.	354
387.	TTP Technologies Pvt. Ltd.	484
388.	Ucam Pvt. Ltd.	209
389.	Ukb Electronics Pvt. Ltd.	450
390.	Ultra International Ltd.	225
391.	Uni-Tech Automation Pvt. Ltd.	263
392.	Unitech Machines Ltd.	312
393.	United Biotech (P) Ltd.	280
394.	United Telecoms Ltd.	406
395.	Universal Construction Machinery & Equipment Ltd.	320
396.	V Clinbio Labs Pvt. Ltd.	250
397.	V.B. Medicare Pvt. Ltd.	349
398.	Vaishnavi Biotech Ltd.	453
399.	Vanaz Engineers Ltd.	207
400.	Varuna Biocell Pvt. Ltd.	256
401.	Vasudha Pharma Chem Ltd.	384
402.	Vee Technologies Pvt. Ltd.	241





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Sl. No.	Name of the firm	R&D Expenditure Reported (Rs. in lakhs) *
403.	Vidya Herbs Pvt. Ltd.	226
404.	Viney Corporation Ltd.	400
405.	Vins Bioproducts Ltd.	310
406.	Vinvis Technologies Pvt. Ltd.	250
407.	VIP Industries Ltd.	235
408.	Viridis Biopharma Pvt Ltd.	238
409.	Vivo Bio Tech Ltd.	337
410.	Voltas Ltd.	440
411.	VST Tillers Tractors Ltd.	233
412.	Vulcan Industrial Engineering Company Ltd.	343
413.	Warade Packtech Pvt. Ltd.	415
414.	Windlas Biotech Ltd.	300
415.	Winsome Textile Industries Ltd.	387
416.	Wires And Fabriks (SA) Ltd.	450
417.	Wrig Nanoscience Pvt. Ltd.	400
418.	Xcelris Labs Ltd.	325
419.	Yashraj Biotechnology Ltd.	250
420.	ZCL Chemicals Ltd.	420

\*R&D expenditures reported are as claimed by the firms in their available Annual reports in DSIR/renewal applications.



## ANNEXURE - 6

**LIST OF SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATIONS (SIROS)  
RECOGNIZED BY DSIR DURING THE PERIOD  
JANUARY 2017 TO NOVEMBER 2017**

Sl. No.	Name of the organisation	Recognition granted up to
<b>Natural and Applied Sciences</b>		
1.	India Smart Grid Forum (ISGF), New Delhi	31.03.2019
2.	BML Munjal University, NH-8, Sidhrawali, Gurgaon, Haryana	31.03.2019
3.	Ankleshwar Rotary Education Society, Bharuch, Gujarat	31.03.2019
4.	Parthasarathy Seeniammal Educational Trust, Chennai	31.03.2019
5.	Ritnand Balved Education Foundation (RBEF), New Delhi	31.03.2019
6.	MITCON Foundation, Pune	31.03.2019
7.	Environment Protection Training & Research Institute (EPTRI), Telangana	31.03.2020
8.	Shrimanta Shankar Academy, Guwahati, Assam	31.03.2020
9.	Sathyabama University, Chennai	31.03.2020
10.	Manipal University Jaipur, Jaipur	31.03.2020
11.	Sri Krishna Trust, Coimbatore	31.03.2020
12.	Gramaudyogik Shikshan Mandal (G.S. Mandal), Aurangabad	31.03.2020
13.	Vellore Institute of Technology, Vellore	31.03.2020
14.	GDR Educational Society, Durg, Bhilai, Chhattisgarh	31.03.2020
15.	CMR Educational Society, Secunderabad	31.03.2020
16.	Siddhartha Academy of General & Technical Education (SAGATE), Vijayawada, Andhra Pradesh	31.03.2020
17.	Vivekanand Education Society, Mumbai	31.03.2020
18.	Bennett University, Greater Noida, Uttar Pradesh	31.03.2020
19.	Patanjali Research Foundation, Haridwar	31.03.2020
20.	Indian Institute of Information Technology (IIIT), Nagpur	31.03.2019
<b>Social Sciences</b>		
21.	Anusandhan Trust, Mumbai	31.03.2020
22.	Dharmagiri Jeevas Social Centre, Kaakayamchal, Kannur, Kerala	31.03.2020
<b>Medical Sciences</b>		
23.	Institute of Public Health, Bangalore	31.03.2019
24.	Centre for Liver Research & Diagnostics, Hyderabad, Telangana	31.03.2019
25.	Institute for Drug Delivery & Biomedical Research, Bangalore, Karnataka	31.03.2019





Sl. No.	Name of the organisation	Recognition granted up to
26.	SNR Sons and Charitable Trust, Coimbatore	31.03.2019
27.	Aditya Jyot Foundation for Twinkling Little Eyes, Mumbai	31.03.2019
28.	Indian Institute of Technology Tirupati, Tirupati, Andhra Pradesh	31.03.2017
29.	All India Children Care & Education Development Society, Azamgarh, Uttar Pradesh	31.03.2020
30.	Medical Research Foundation (MRF), Chennai	31.03.2020
31.	Indian Spinal Injuries Centre, New Delhi	31.03.2020
32.	Coorg Institutes of Dental Sciences, Virarjpet, Karnataka	31.03.2019
33.	MNR Educational Trust, Hyderabad	31.03.2020



## ANNEXURE - 7

**CERTIFICATES FOR CLAIMING ACCELERATED DEPRECIATION  
ALLOWANCE ISSUED BY DSIR UNDER RULE 5(2) OF I.T. RULES VIDE  
NOTIFICATION NO. 133/342/86-TPL DATED 1.4.1987**

Sl. No.	Name of the Company	Source of Know-how/ Technology	Item of Manufacture	Investments Certified (Rs. In Crores)
1.	Bharat Electronics Ltd,	Defence Research & Development Laboratories and In-house R&D centre	Electronic equipment & systems for Defence	F.Y. 2015-16 Rs. 56.36 Crores
2.	Indian Oil Corporation Ltd.,	Indigenous Technology developed in their recognized in-house R&D center.	Light olefins at I NDMAX unit, Paradip Refinery, Odisha	F.Y. 2015-16 Rs. 2842.64 Crores
3.	Numaligarh Refinery Ltd.,	Indigenous Technology Acquired from CSIR-IIP Dehradun.	Paraffin wax at Solvent De-oiling unit (SDU), Paraffin Wax Plant.	F.Y. 2014-15 Rs. 233.84 Crores F.Y. 2015-16 Rs. 51.43 Crores
Total				Rs. 3184.27 Crores







## ANNEXURE - 8

### LIST OF COMPANIES APPROVED u/s 35(2AB) OF INCOME TAX ACT, 1961 DURING THE YEAR 2017

1.	Proec Energy Ltd.,	35.	Narayan Powertech Pvt. Ltd.,
2.	Brilliant Bio Pharma Pvt. Ltd.,	36.	E-Con Systems India Pvt. Ltd.,
3.	Durovalves India Pvt. Ltd.,	37.	Ajay Biotech (India) Ltd.,
4.	Visteon Automotive Systems India Pvt. Ltd.	38.	Aarti Industries Ltd.,
5.	TATA AutoComp Hendrickson Suspensions Pvt. Ltd.,	39.	Mando Automotive India Pvt. Ltd.,
6.	PathPartner Technology Pvt. Ltd.,	40.	MKU Ltd.,
7.	Frog Cellsat Ltd.,	41.	CNH Industries (India) Pvt. Ltd.,
8.	Mangalam Alloys Ltd.,	42.	Bajaj Auto Ltd.,
9.	UKB Electronics Pvt. Ltd.,	43.	Ramkrishna Forgings Ltd.,
10.	Revathi Equipment Ltd.,	44.	JCBL Ltd.,
11.	Medley Pharmaceuticals Ltd.,	45.	Cikautxo India Pvt. Ltd.,
12.	Comviva Technologies Ltd.,	46.	H&V Advanced Materials (India) Pvt. Ltd.,
13.	Porus Laboratories Pvt. Ltd.,	47.	Shivalik Bimtel Controls Pvt. Ltd.,
14.	Metalman Auto Pvt. Ltd.,	48.	Caprihans India Ltd.,
15.	Organica Aromatics Pvt. Ltd.,	49.	United Genetics India Pvt. Ltd.,
16.	BANCO Gaskets (India) Ltd.,	50.	Automobile Corporation of Goa Ltd.,
17.	Aastrid Life Sciences Pvt. Ltd.,	51.	Kamani Oil Industries Pvt. Ltd.,
18.	Ambernath Organics Pvt. Ltd.,	52.	EMMBI Industries Ltd.,
19.	Sahajanand Technologies Pvt. Ltd.,	53.	Rucha Engineers Pvt. Ltd.,
20.	Promptec Reweable Energy Solution Pvt. Ltd.,	54.	Minda Vast Access Pvt. Ltd.,
21.	Parle Global Technologies Pvt. Ltd.,	55.	Daikin Airconditioning India Pvt. Ltd.,
22.	Psychotropics India Ltd.,	56.	Huber+Suhner Electronics Pvt. Ltd.,
23.	Goldstab Organics Pvt. Ltd.,	57.	Zytext Biotech Pvt. Ltd.,
24.	Lava International Ltd.,	58.	Suraksha Pharma Pvt. Ltd.,
25.	Madhu Silica Pvt. Ltd.,	59.	Sea6 Energy Pvt. Ltd.,
26.	Ajeet Seeds Ltd.,	60.	Clearsynth Labs Ltd.,
27.	Strides Arcolabs Ltd.,	61.	Grind Master Machines Pvt. Ltd.,
28.	Elofic Industries Ltd.,	62.	Sparsh Pharma International Pvt. Ltd.,
29.	Trivitron Healthcare Pvt. Ltd.,	63.	Vidya Herbs Pvt. Ltd.,
30.	Toshiba Machine (Chennai) Pvt. Ltd.,	64.	Case New Holland Construction Equipment (India) Pvt. Ltd.,
31.	Beloorbayir Biotech Ltd.,	65.	Hetero Healthcare Ltd.,
32.	Indo Amines Ltd.,	66.	SKS Fasteners Ltd.,
33.	Bajaj Healthcare Ltd.,	67.	Mark Exhaust Systems Ltd.,
34.	DCM Engineering Ltd.,	68.	VST Tillers Tractors Ltd.,





69	Webfil Ltd.,
70	Manipal Technologies Ltd.,
71	Jain Farm Fresh Foods Ltd.,
72	Orbit Bearing (India) Pvt. Ltd.,
73	Matrix Clothing Pvt. Ltd.,
74	Corona Remedies Pvt. Ltd.,
75	Jindal Stainless (Hisar) Ltd.,
76	Optimus Drugs Pvt. Ltd.,
77	Shivani Scientific Industries Pvt. Ltd.,
78	GCC Biotech India Pvt. Ltd.,
79	Inoxpa India Pvt. Ltd.,
80	BEC Chemicals Pvt. Ltd.,
81	Meera Industries Ltd.,
82	Aadhaar Seeds Pvt. Ltd.,
83	Shakti Agrotech Pvt. Ltd.,
84	HMC MM Auto Ltd.,
85	Orient Paper and Industries Ltd.,
86	Ramelex Pvt. Ltd.,
87	Metallurgical Products (India) Pvt. Ltd.,
88	Rasi Hiveg Pvt. Ltd.,

89	IMCO Alloys Pvt. Ltd.,
90	KiTEC Industries (India) Pvt. Ltd.,
91	Tablest (India) Ltd.,
92	Signals & Systems Pvt. Ltd.,
93	Malwa Oxyzen & Industries Gases Pvt. Ltd.,
94	SBL Pvt. Ltd.,
95	Enpro Industries Pvt. Ltd.,
96	Mahashakti Energy Ltd.,
97	IP Rings Ltd.,
98	Nu-Cork Products Pvt. Ltd.,
99	Hi-Tech Pharmaceuticals Pvt. Ltd.,
100	Siddharth Grease & Lubes Pvt. Ltd.,
101	Gangwal Chemicals Pvt. Ltd.,
102	Mybox Technologies Pvt. Ltd.,
103	K.L.J. Polymers and Chemicals Ltd.,
104	Tropilite Foods Pvt. Ltd.,
105	Vaishnavi Bio-Tech Ltd.,
106	Shree R N Metals India Pvt. Ltd.,





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**ANNEXURE - 9**

**DETAILS OF PROJECTS SUPPORTED UNDER PROMOTING INNOVATIONS IN INDIVIDUALS,  
START-UPS and MSMEs (PRISM)  
[During the year 2017-2018]**

Sl. No.	Name of the Project
PRISM Phase I /Phase II	
i.	Automatic window washer & dryer machine for high rise building
ii.	Artificial human-skin as an alternative to animal model for drug and cosmetic testing
iii.	Retrofitted Kit for Disabled Persons
iv.	A Novel filtration system for water containing Paper Fibers and Filer material to achieve Filtered Water containing less than twenty ppm suspended solids
v.	Development of seed cum manure drill for row crop cultivation
vi.	Wave energy converter
vii.	Light weight portable folding stool
viii.	Conversion of vegetable/fruit market/kitchen/eating house waste into organic manure and bio-gas
ix.	Development of a new generation of nematicides, Cocktails to effectively target the plant parasitic pathogen, the root knot nematode <i>Meloidogyne incognita</i>
x.	Development of a Novel Animal free reagent based prototype Blood Test Kit for early heart attack diagnosis
xi.	Banned Ivory-its replacement
xii.	Real time 3D scanner based Psycho-physical rehabilitation
xiii.	Heat pipe based window mounted solar water heater for domestic apartments
xiv.	Design and development of Compact, Low-Cost Paper Carry Bag making machine
xv.	Automated Universal Perfect Spherical Shape making machine for eatables
xvi.	GAIT analysis based patient specific prosthetic polycentric knee joint and socket trans-femoral amputees to improve their walking pattern
xvii.	A next generation home appliance that automatically makes rotis and other flatbreads all by itself using wide varieties of flour
xviii.	Non-electric manually operated washing machine (NEMOW)
xix.	Digital paper infrastructure for a Secured Certificate with authentication and tracking
xx.	Effective & preventive prosthesis for treatment of multiple neck ailments
xxi.	Green diesel production from waste cooking oil by green technology



## ANNEXURE - 10

**DETAILS OF COMPLETED PROJECTS SUPPORTED UNDER PROMOTING  
INNOVATIONS IN INDIVIDUALS, START-UPS and MSMEs (PRISM)  
Completed Projects during the year 2017-2018**

Sl. No.	Name of the Project
PRISM Phase I /Phase II	
i.	Commercial Extraction of Bio- product from Biomass.
ii.	Development of bio-degradable sanitary napkin for women.
iii.	Scaled prototype development for a functionally upgraded 72NM3/day Bio-CNG Plant Indian Conditions.
iv.	Vision aid electronic wand.
v.	Transient 3D framework for seeding and expansion of cells towards delivery in vivo and therapeutics.
vi.	Efficient composting of Bio-degradable wastes through Mesophili Aerobic. Rapid Composting (MARC) Method.
vii.	Development of Kits for Direct-PCR Amplification of Plant DNA.
viii.	Development of novel DIVA ELISA Kit for detection of paratuberculosis infection, a major threat in animal husbandry.
ix.	Biomass based environmental friendly incubator for hatching of Fertile Poultry Eggs.
x.	Development of counter irritant against contact dermatitis among cashew not women workers.
xi.	Development of cost-effective, technically modified Liquid Chromatography Counter.
xii.	Solar multi-purpose handcarts for hawkers.
xiii.	Development of OBU for in-cab signaling and control of trains.
xiv.	Seven Omega Seven I.C. Engine.
xv.	Cost effective, Portable Chalk Board Eraser Cleaner.





## ANNEXURE - 11

### CUMULATIVE LIST OF TDDP/ PATSER PROJECTS COMMERCIALIZED SO FAR

Sl. No.	Company	Project title
1	Abilities India Pistons & Ring Limited, New Delhi	Development of Small Size Pistons for Two Stroke Engines by High Pressure Die Casting Process
2	ACE Designers Pvt. Ltd., Bengaluru	PC Based CNC System
3	Aesthetic Technologies Pvt. Ltd., Kolkata	Dev. of an Interactive Multimedia Package for Intellectual Property Rights Training
4	Aishwaraya Telecom Pvt. Ltd., Hyderabad	Design & Development of Optical Power Meter (Type A & B) and Optical Talk Set
5	Aishwaraya Telecom Pvt. Ltd., Hyderabad	Hand Held Optical Test Equipments (Optical Power Meter, Optical Light Source 1310/1550NM, and Fiber Identifier)
6	Andrew Yule & Co. Ltd., Kolkata	Dev. of Rough Top Conveyor Belting
7	Anu's Lab Ltd., Hyderabad	Development of process for manufacture of 1-Bromo-3-chloropropane (B.C.P.) and 1-3-dibromo Propane (D.B.P.) in pilot plant
8	Arch Pharmalabs Ltd., Mumbai	Scale up Studies for Polymorphic Form-I of Clopidogrel Bisulphate Process
9	Ardee Technologies Pvt. Ltd. (Formerly Ardee Business Services Pvt. Ltd.), Vishakhapatnam	Dev. of a Mobile, Four Channel Modular, RAM-DARS System for Dry Beneficiation of Coal
10	Ardee Technologies Pvt. Ltd. (Formerly Ardee Business Services Pvt. Ltd.), Vishakhapatnam	Development of Higher Dimension Aluminum Granules Coded Wire along with Complete High speed Wire Feeder
11	Ardee Technologies Pvt. Ltd. (Formerly Ardee Business Services Pvt. Ltd.), Vishakhapatnam	Manufacture of Magnesium & Calcium Metal Powder
12	Aron Universal Limited, Bengaluru	Bench and pilot Scale process Development for UV Reflective Security Inks and Pigments (UVRIP)
13	ATCOM Technologies Ltd., Mumbai	Dev. of Microbalance of 200 gm. Capacity with 1 mg. Accuracy
14	Bel Optronics Devices Ltd., Pune	Development of High Sensitivity Photo Cathode for 18mm SUPERGEN Image Intensifier Tubes
15	Bharat Earth Movers Ltd. (BEML), Bengaluru	Dev. of Crankshaft for Engines by Casting and machining process
16	Bharat Earth Movers Ltd. (BEML), Bengaluru	Upgradation of 50 T Dumper 200 HP Front end loader
17	Biocon Ltd., Bengaluru	Glargin Process Improvement
18	Celestial Labs Ltd., Hyderabad	Development of Toxicity Prediction Module and Integration with CELSUITE - A Computer Aided Drug Design Tool
19	Central Electronics Ltd., Sahibabad	Digital Axle Counter for Railway Signaling



Sl. No.	Company	Project title
20	Delta Agro Chemicals Ltd., Krishna	Dev.of process for manufacture of Furfural Alcohol by Hydrogenation of Furfural
21	Dolphin Industrial Co-operative Society Ltd., Vizianajaram	Glazing of terra-cotta Clay Products
22	Eddy Current Controls Ltd., Kerala	Development of 90KW Brushless Eddy Current Clutch Gear Unit for Radiator Cooling fans in diesel electric locomotives of the Indian Railways
23	ELICO Ltd., Hyderabad	Development of Indigenous development of FT-IR Spectrophotometer
24	Elkay Chemicals Limited, Pune	Development of Next Generation Amino Silicone based on Hydrosilation Technology
25	Encon Thermal Engineers (P) Ltd., Faridabad	Dev. of Technology for Design and Manufacture of Improved Industrial Natural Gas Burners
26	Enercon Systems Pvt. Ltd., Bengaluru	Development of Centralised Electrical Energy Management System
27	Engineers India Ltd. (EIL) , New Delhi	Development of Membrane Technology for Natural Gas Separation
28	Genus Power Infrastructure Ltd., Jaipur	Smart Closed Loop Energy Management Solution
29	Gland Pharma Ltd., Hyderabad	Hyaluronic Acid and Formulation
30	Gujarat Mineral and Dev. Corporation	Dev. of Column Flotation Technology
31	Gujarat Narmada Valley Fertilizers Co.Ltd., Bharuch	Dev.and Demo. of Liquid Phase Oxidation Process for Hydrogen Sulfide Removal
32	Haryana Leather Chemicals Ltd., Haryana	Technology Development and Demonstration for application of Cross Linkables Aqueous Aliphatic Polyurethane Dispersions for Leather and Shoe Finishing
33	Haryana Leather Chemicals Ltd., Jind	Development of technology for polymeric fatliquors for upholstery leather
34	HERO Cycles Ltd., Ludhiana	Design,Development,Installation and Commissioning of 6-Hi Cold Rolling Mill
35	Hindustan Zinc Ltd., Udaipur	Extraction of Cobalt to Extract Copper Sulphate
36	Hi-Tech Robotic Systemz Ltd., Bhiwadi	Smarter Material Handling Automated Guided Vehicles (AGVs)
37	IBP Co. Ltd., Gurgaon	Detonating Cord for Shaped Charges
38	Innovation Communications Systems Ltd., Hyderabad	Development of Interactive Voice Response System With Multilingual Capability
39	Insecticides (India) Limited, Bhiwadi	A new approach to synthesis of an import substitute 3-methyl-N-nitroimino perhydro-1,3,5-oxadiazine (MNIO), an intermediate for the manufacture of Thiamethozam.
40	Intas Pharmaceuticals Ltd., Ahmedabad	Development of Endoxifen as a new efficacious and safe therapeutic agent for the treatment of breast cancer





Sl. No.	Company	Project title
41	JSL Industries Ltd., Anand	Dev. of Air Circuit Breaker
42	Klas Technology Ventures Ltd., Bengaluru	Research & Development of Aluminium Cylinders for Liquefied Gases for Domestic, Automotive Applications
43	Lifecare Innovations Pvt. Ltd., New Delhi	Liposomal Amphotericin-B
44	Litex Electricals Ltd., Pune	Laser Pumping Lamps
45	The Maharashtra State Seeds Corporation Ltd., Mumbai	Design, Development and Fabrication of Mini Dry Gas Cotton Seed Delinting Plant (0.5 TPH Capacity)
46	Maini Materials Movement Pvt. Ltd., Bengaluru	Development of In-plant Material Handling Equipments
47	MECPRO Heavy Engineering Ltd., New Delhi	Demonstration of on Efficient Solvent Extraction Plant & Technology with the Vent Air Cracking system
48	MECPRO Heavy Engineering Ltd., New Delhi	Development and Demonstration of Eco-friendly and Efficient Edible Oil Refining technology of Twin Bleaching system and Deacidification-cum-Deodorization System
49	MIC Electronics Ltd., Hyderabad	Development of Fraud Management and Control Centre (FMCC)
50	Minda Industries Ltd., Delhi	Development of Auto Electrical Switches using Rapid Prototyping Facility of I.I.Sc.
51	Minda Industries Ltd., Delhi	Innovative electronic control system for PNG (Pipeline Natural Gas) Fueled Stationary Engine.
52	Mishra Dhatu Nigam Ltd., Hyderabad	Development of Technology for Welding Molybdenum Coils to make coils in single coil weight of 20 kgs.
53	Mishra Dhatu Nigam Ltd., Hyderabad	Development of Technology for producing Wires With Superior Surface Finish employing Wet Drawing Technique
54	NALCO, Bhuvneshwar	Dev. of Technology at Pilot Scale Production of Special Grade Alumina
55	Natco Pharma Ltd., Hyderabad	Dev. of Anaerobic Reactor System for Pharmaceutical waste at pilot plant level
56	NED Energy Ltd., Bengaluru	Development of High Energy Density Valve Regulated Lead Acid Batteries
57	Neuland Laboratories Ltd., Hyderabad	Innovative process development for the manufacture of peptide APIs
58	Nirmal Seeds Pvt. Ltd., Jalgaon	Development of novel Biopesticides from antagonistic microbes Bacillus subtilis and Trichoderma viride using Dextrose as a Carrier
59	Ogene system India P. Ltd., Hyderabad	Nano Labelled DNA/RNA compounds
60	Organic Coatings Ltd., Mumbai	Development of (I) Water-based flexo inks used for alsortgent stock (craft paper) and Coated Stock (aat paper) (ii) U.V. radiation curing inks used for coated stock and non-alsarlent sufistrates such as PVC Polyester etc.





Sl. No.	Company	Project title
61	Oriental Engg. Works Pvt. Ltd., Yamunanagar	Solid Handling Fluid Transfer Pump
62	Pan India Electromech Pvt. Ltd., Gurgaon	Development and Demonstration of Complete Automated Solution for Hydrography
63	Pennwalt Ltd., Mumbai	Development of Tech. for coating of Chemical process equmt. with fluoropolymers and other high performance polymeric products.
64	Poona Health Services Ltd., Pune	Development of Implants for Knee Joints
65	Praj Industries Ltd., Pune	Development of Energy Efficient Pilot Ring Dryer
66	Pricol Limited, Coimbatore	Design and Development of Capacitance Type Fuel Level Sensor for Flexi Fuels
67	Priya Klay Pvt. Ltd., New Delhi	Development of Technology, Equipment and related "Product(s)" for Production of Stone Ware/ Vitrified Clay Pipes and other Pipes of other materials, made/produced as a result of this Project having large Diameters of 600 mm to 1000 mm and above and length
68	Pure Tech India, Trichy	Liquid Coolant Recovery Systems
69	Radiant Cables Pvt. Ltd., Hyderabad	Development of (a) Low loss RF cables for higher frequency above 10GHZ,(b) Data Bus cable with fire survival, low capacitance dielectric properties and © Laser marked loom assemblies.
70	Rajasthan Electronics & Instruments Limited	Development of small PV-Wind Hybrid power plant for rural application
71	Rishabh Instruments Pvt. Ltd., Mumbai	Design, development & manufacture of (i.) 5 3/4 digit multimeter & (ii) 6 3/4 digit multimeters
72	Rishang Keishing Foundation for Management of Tribal Areas, New Delhi	Ginger Oil
73	Sai Life Sciences Limited (formerly Sai Advantium Pharma Limited), Hyderabad	Manufacture of Corey's Lactone and Prostanoids: Iloprost, Lubiprostone and Travoprost
74	Sami Labs Limited, Bengaluru	Development and Pilot Plant Trials Towards Commercialisation of two Products, namely (I) A pentapeptide with a Natural Triterpenoid Conjugate (ii) Extraction of Pterostilbene from Pterocarpus Marsupium & Conversion to Resveratrol
75	Sami Labs Limited, Bengaluru	Optimization and Pilot Plant Trials Towards Commercialisation of standardized Colcynthin extract from the medicinal plant "Citruillus colocynthin"
76	Select Packaging Machines Ltd., Thane	Special Blister Packaging Machines/Form Fill-seal Machine
77	Sequent Scientific Ltd., Thane	Development of Nitroscanate
78	Sequent Scientific Ltd., Thane	Development of Dorzolamide HCl
79	SM Telesys Ltd (SMTL), Noida	Dev. of Two Line Indian Language Multilingual Pager (ILP)







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Sl. No.	Company	Project title
80	Solaris Chemtech Ltd. (formerly BILT Chemicals), Mumbai	Dev.and demo. of Technology for the manu. of Tetra Bromo Bisphenol-A (TBBA ) on a pilot plant level
81	Som Shiva (Impex) Ltd., Ahmedabad	New Process Development for Special Elastomer compound
82	Sonodyne Technologies Pvt. Ltd., Kolkata	DSP Based High-end professional Audio Speakers
83	Steel Strips Wheel Ltd., Chandigarh	Technology Development and Demonstration of Improved Manufacturing Process for Automotive Wheel Discs
84	Sundaram Clayton Limited, Chennai	Development of Magnesium alloy pressure die castings for automotive applications
85	T. Stanes & Company Ltd., Coimbatore	Establishing and Producing bio Control Agents on Pilot Plant Scale
86	T. Stanes and Company Limited, Coimbatore	Development of Biofertilizers (Emulsifiable concentrate) for Nutrient Management of Agricultural Crops
87	T. Stanes and Company Ltd., Coimbatore	Dev. of technology for manufacture of Digested Organic Supplement (DORs)
88	Tejas Networks Limited, Bengaluru	Development of LTD Macro eNodeB Base Stations
89	Transasia Bio-Medicals Ltd., Mumbai	Fully automated high speed blood chemistry analyser for through put of around 1000 tests/hour
90	Tropilite Foods Pvt. Ltd., Gwalior	Upscaling and commercial production of Lactic Acid Bacteria Starter culture for Yogurt/Curd production
91	Uday Computer Aided Manufacturing (P) Ltd, Bengaluru	Develop and demonstrate the Large Size CNC Rotary Table 2500 x 2500 with Translation Movement – Model URH –
92	Uniproducts (India) Ltd.	Development of UNI-Density Insulator for Vehicles
93	United Telecom Ltd., Bengaluru	Asymmetric Digital Subscriber Line (ADSL) System
94	United Telecom Ltd., Bengaluru	Development of AAM (ATM Access Multiplexer)
95	VINS Biproducts Ltd., Hyderabad	Purification of Gas Gangrene Causing Clostridium Toxins and Development of Monovalent and Poly-valent Antitoxins
96	Zen Technologies Ltd., Hyderabad	Design and Development of 6 DoF Electrical Motion Platform
97	Zen Technologies Ltd., Hyderabad	Interactive Small Arms Training Simulator (ISAT)
98	Zim Laboratories Ltd., Nagpur	Development and demonstration of technology to manufacture a new dosage form namely – Oral Thin Films



## ANNEXURE - 12

## REPRESENTATION OF SCs, STs AND OBCs

Groups	Number of Employees					Number of appointments made during the Calendar year											
	(As on 01-12-2017)					By Direct Recruitment				By Promotion			By other Methods				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Group A	27*	4	1	4	36*	-	-	1	1	-	-	-	-	-	-	-	
Group B	17	6	1	3	27	-	-	-	-	-	-	-	-	-	-	-	
Group C	03	7	1	3	14	-	-	-	-	-	-	-	-	-	-	-	
<b>Total</b>	<b>47*</b>	<b>17</b>	<b>3</b>	<b>10</b>	<b>77</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	

Note: 1. DSIR recruits only Scientific and Technical posts.

2. \*Excluding one post of JS (Admn.) which is on notional basis.

## REPRESENTATIONS OF THE PERSONS WITH DISABILITIES

AS ON 1<sup>ST</sup> December, 2017

Group	Number of Employees				Direct Recruitment						Promotion							
					No. of Vacancies reserved			No. of Appointments Made			No. of Vacancies reserved			No. of Appointments Made				
	Total	VH	HH	OH	VH	HH	OH	Total	VH	HH	OH	VH	HH	OH	Total	VH	HH	OH
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Group A	36*	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Group B	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Group C	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>77*</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>

\*Excluding one post of JS (Admn.) which is on notional basis.





## EXTRACTS OF AUDIT OBSERVATIONS BY CAG

Following Audit paras pertaining to DSIR appeared in the CAG report of 2017:  
Audit Observations on Autonomous Bodies under DSIR - Council of Scientific & Industrial Research (CSIR)

Report No. 17 of 2017

**Para 5.1: Management of Human Resources in Council of Scientific and Industrial Research**

Council of Scientific and Industrial Research (CSIR) failed to comply with Government instructions on abolition of vacant posts, grant of advance increments on initial appointment, surrender of posts, grant of promotions to scientific staff, upgraded posts and granted higher pay and allowances without the approval of MoF which result in irregular expenditure Rs. 24.31 crore.

**Para 5.2: Non-installation of equipment**

Failure of National Metallurgical Laboratory, Jamshedpur to assess site and logistics requirements resulted in non-installation of equipment (IMSW) procured at a cost of Rs. 1.44 crore. Further, expenditure of Rs. 2.68 crore was made on additional items for its installation, all of which remained uninstalled.

**Para 5.3: Non-operationalisation of Automatic Visual Range Assessor Systems**

National Aerospace Laboratories, Bengaluru could not successfully operationalise Automatic Visual Range Assessor Systems at Indian Navy establishments even after more than 14 years resulting in unfruitful expenditure of Rs. 1.10 crore.

**Para 5.4: Avoidable expenditure due to non-disposal of unutilized land**

Failure of Central Fuel Research Institute, Dhanbad to dispose of land after closure of its Regional Unit at Raniganj, West Bengal for 13 years resulted in avoidable recurring expenditure of Rs. 97 lakh towards security and maintenance expenses.

Audit Observations on Public Sector Enterprises (PSEs) under DSIR

Report No. 9 of 2017: Compliance Audit Observations - Union Government (Commercial)

**Para 13.1: Infructuous expenditure of Rs. 20.21 crore on Integrated Security System at Old Delhi Railway Station**

Central Electronics Limited awarded (February 2008) a contract on nomination basis to M/s Kline Technical Consulting, USA for installing security system to address terrorist threats at Old Delhi Railway Station. The security system was installed in December 2010 without four key equipment valuing Rs.1.91 crore which were not delivered by the contractor. CEL did not prepare closure report and the project remained non-operative even after lapse of more than six years. This resulted in infructuous expenditure of Rs.20.21 crore.

\* The pendency position of ATNs in respect of Audit observations is given in the Annexure.



## ANNEXURE - 14

## ORGANIZATIONS THAT OBSERVED SWACHHTA PAKHWADA FORTNIGHT

Sl. No.	Organization
1	A G Bio Systems Private Limited, Hyderabad
2	APAR Industries Ltd., Mumbai
3	Balmer Lawrie & Co.Ltd. Applications Research Laboratory (ARL), Kolkata
4	Birla Research Institute For Applied Sciences, Nagda (M.P.)
5	CbS Technologies Pvt Ltd., Greater Noida
6	Central Himalayan Environment Association (CHEA), Nainital, Uttarakhand
7	Chennai Petroleum Corporation Ltd., Chennai
8	DCM Shriram Ind Limited, New Delhi
9	Development Consultants Pvt. Ltd, Kolkata
10	Enaltech Pharma Research Pvt Ltd., Thane
11	Formulated Polymers Ltd., Chennai
12	Foundation for Democratic Reforms (FDR), Hyderabad
13	Foundation for Environment & Economic Development (FEEDS), Senapati District, Manipur
14	Frog CellSat Limited., Noida
15	GeneOmbio Technologies Pvt. Ltd., Pune
16	Gujarat Energy Research Management Institute (GERMI), Gandhinagar
17	Gujarat Institute of Development Research, Ahmedabad
18	Gujarat Narmada Valley Fertilizers & Chemicals Ltd., Bharuch, Gujarat
19	GVK Emergency Management and Research Institute, Secundrabad, Telangana
20	H&R Johnson(India) ( A Division of Prism Cement Ltd), Raigad, Maharashtra
21	Hester Biosciences limited, Merda-Adraj, Jetpura & Ahmedabad
22	Hyderabad Chemical Pvt. Ltd., Balanagar, Hyderabad
23	InspirOn Engineering Pvt. Ltd., Ahmedabad
24	Jay Research & Biotech I Pvt Ltd., Pune
25	JNS Instruments Ltd., Gurugram, Haryana
26	JSW Steel coated Products Limited., Thane, Tarapur & Kalmeshwar
27	Karpaga Vinayaga college of Engineering and Technology, Padalam, Tamil Nadu
28	Kramski Stamping & Molding India Private Limited, Vellore, TamilNadu
29	L&T Hydrocarbon Engineering Limited, Powai, Mumbai
30	Lakshmi Machine Works Ltd, Coimbatore
31	Lona Industries Ltd., Raigad, Maharashtra
32	Mann & Hummel Filter Private Ltd., Bangalore
33	Matrix Comsec Pvt Ltd., Makarpura, Vadodara
34	MEPCO Schlenk Engineering College, Sivakasi, Tamil Nadu





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Sl. No.	Organization
35	Mosil Lubricants Pvt. Ltd., Navi Mumbai
36	Nitta Gelatin India Limited, Kakkanad, Kochi
37	NJP Healthcare Private Limited, Valsad, Gujarat
38	Noble Seeds Private Ltd., Kundali, Sonipat
39	Novartis Healthcare Private Limited, Shamirpet, Hyderabad
40	OCT Therapies & Research Pvt. Ltd., Bhandup West, Mumbai
41	Parry Agro Industries Ltd., Valparai – Coimbatore
42	PI Industries Ltd., Udaipur
43	Premium Transmission Ltd., Pune, Maharashtra
44	Raychem Innovation Center , Panchmahal, Gujarat
45	Romsons Scientific and Surgical Industries, Pvt. Ltd., Nunhai, Agra
46	Sami Labs Ltd., Bangalore
47	Shree Cement Ltd., Ras & Beawar Units
48	Süd-Chemie India Pvt. Ltd., Binanipuram, Cochin
49	TATA Autocomp Systems Ltd., Pune
50	The DMCC Ltd., Roha
51	Uniphos Envirotronic Pvt . Ltd., Valsad, Gujarat
52	Venus Remedies Ltd., Panchkula
53	V-Guard Industries Ltd., Kochi, Kerala
54	Vikky's Agrisciences Pvt., Ltd., Patancheru Mandal, Sangareddy Dist.



## CSIR Establishments

### BIOLOGICAL SCIENCES

CSIR-CCMB	Centre for Cellular and Molecular Biology, Hyderabad
CSIR-CDRI	Central Drug Research Institute, Lucknow
CSIR-CFTRI	Central Food Technological Research Institute, Mysore
CSIR-CIMAP	Central Institute of Medicinal & Aromatic Plants, Lucknow
CSIR-IGIB	Institute of Genomics & Integrative Biology, Delhi
CSIR-IHBT	Institute of Himalayan Bioresource Technology, Palampur
CSIR-IICB	Indian Institute of Chemical Biology, Kolkata
CSIR-IIIM	Indian Institute of Integrative Medicine, Jammu
CSIR-IMTECH	Institute of Microbial Technology, Chandigarh
CSIR-IITR	Indian Institute of Toxicology Research, Lucknow
CSIR-NBRI	National Botanical Research Institute, Lucknow

### CHEMICAL SCIENCES

CSIR-CLRI	Central Leather Research Institute, Chennai
CSIR-CECRI	Central Electrochemical Research Institute, Karaikudi
CSIR-CSMCRI	Central Salt & Marine Chemicals Research Institute, Bhavnagar
CSIR-CIMFR	Central Institute of Mining & Fuel Research, Dhanbad
CSIR-IICT	Indian Institute of Chemical Technology, Hyderabad
CSIR-IIP	Indian Institute of Petroleum, Dehradun
CSIR-NCL	National Chemical Laboratory, Pune
CSIR-NEIST	North-East Institute of Science and Technology, Jorhat
CSIR-NIIST	National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram







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## ENGINEERING SCIENCES

CSIR-AMPRI	Advanced Materials and Processes Research Institute, Bhopal
CSIR-CBRI	Central Building Research Institute, Roorkee
CSIR-CGCRI	Central Glass and Ceramic Research Institute, Kolkata
CSIR-CMERI	Central Mechanical Engineering Research Institute, Durgapur
CSIR-CRRI	Central Road Research Institute, New Delhi
CSIR-IMMT	Institute of Minerals and Materials Technology, Bhubaneswar
CSIR-NAL	National Aerospace Laboratories, Bengaluru
CSIR-NEERI	National Environmental Engineering Research Institute, Nagpur
CSIR-NML	National Metallurgical Laboratory, Jamshedpur
CSIR-SERC	Structural Engineering Research Centre, Chennai

## INFORMATION SCIENCES

CSIR-NISCAIR	National Institute of Science Communication and Information Resources , New Delhi
CSIR-NISTADS	National Institute of Science Technology and Development Studies, New Delhi
CSIR-4-PI	Fourth Paradigm Institute, Bengaluru

## PHYSICAL SCIENCES

CSIR-CEERI	Central Electronics Engineering Research Institute, Pilani
CSIR-CSIO	Central Scientific Instruments Organisation, Chandigarh
CSIR-NGRI	National Geophysical Research Institute, Hyderabad
CSIR-NIO	National Institute of Oceanography, Goa
CSIR-NPL	National Physical Laboratory, New Delhi

## UNITS

CSIR-HRDC	Human Resource Development Centre, Ghaziabad
CSIR-TKDL	Traditional Knowledge Digital Library, Ghaziabad
CSIR-URDIP	Unit for Research and Development of Information Products, Pune
CSIR-OSDD	Open Source Drug Delivery, New Delhi
CSIR-TRISUTRA	Translational Research and Innovative Science through Ayurgenomics, New Delhi





**ABBREVIATIONS / ACRONYMS**

AMPRI	Advanced Material and Processes Research Institute
APCTT	Asian and Pacific Centre for Transfer of Technology
CBDT	Central Board of Direct Taxes
CBRI	Central Building Research Institute
CCMB	Centre for Cellular and Molecular Biology
CDC	Consultancy Development Centre
CDRI	Central Drug Research Institute
CDS/ISIS	Computerized Data Services/Integrated Set of Information Systems
CECRI	Central Electrochemical Research Institute
CEERI	Central Electronics Engineering Research Institute
CFTRI	Central Food Technological Research Institute
CGCRI	Central Glass and Ceramic Research Institute
CII	Confederation of Indian Industry
CIMAP	Central Institute of Medicinal & Aromatic Plants
CIMFR	Central Institute of Mining and Fuel Research
CITT	Centre for International Trade in Technology
CLRI	Central Leather Research Institute
CMERI	Central Mechanical Engineering Research Institute
CRRI	Central Road Research Institute
CSIO	Central Scientific Instruments Organisation
CSIR	Council of Scientific & Industrial Research
CSMCRI	Central Salt & Marine Chemicals Research Institute
DBT	Department of Bio-Technology
DCPC	Department of Chemicals & Petrochemicals
DCSSI	Development Commissioner, Small Scale Industries
DRDO	Defence Research and Development Organization
DSIR	Department of Scientific & Industrial Research
ESCAP	Economic and Social Commission for Asia and the Pacific
EXIM	Export-Import
FC	Foreign Collaborations
FICCI	Federation of Indian Chambers of Commerce and Industry
GST	Good and Services Tax
ICAR	Indian Council of Agricultural Research
ICAS	Indian Council of Ayurveda & Siddha





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ICMR	Indian Council of Medical Research
ICSSR	Indian Council of Social Sciences Research
ICSTI	International Centre for Science & Technology Information
IDAMS	Internationally Developed Data Management System
IGIB	Institute of Genomics & Integrative Biology
IGNOU	Indira Gandhi National Open University
IHBT	Institute of Himalayan Bioresource Technology
IICB	Indian Institute of Chemical Biology
IICT	Indian Institute of Chemical Technology
IIFT	Indian Institute of Foreign Trade
IIIM	Indian Institute of Integrative Medicine
IIP	Indian Institute of Petroleum
IISc	Indian Institute of Science
IIT	Indian Institute of Technology
IITR	Indian Institute of Toxicology Research
IMMT	Institute of Minerals and Materials Technology
IMT	Institute of Microbial Technology
INFLIBNET	Information Library Network
INSA	Indian National Science Academy
IPR	Intellectual Property Rights
ISRO	Indian Space Research Organization
ITPO	India Trade Promotion Organization
LAN	Local Area Network
LCA	Light Combat Aircraft
MDR	Multi Drug Resistance
MIT	Ministry of Information Technology
MoU	Memorandum of Understanding
NACIDS	National Access Centres to International Database Services
NAFEN	National Foundation of Indian Engineers
NAL	National Aerospace Laboratories
NBRI	National Botanical Research Institute
NCAER	National Council of Applied Economic Research
NCL	National Chemical Laboratory
NCSI	National Centre for Science Information
NEERI	National Environmental Engineering Research Institute
NEIST	North-East Institute of Science & Technology



NGRI	National Geophysical Research Institute
NICMAR	National Institute of Construction Management and Research
NID	National Institute of Design
NIDC	National Industrial Development Corporation
NIFT	National Institute of Fashion Technology
NIIST	National Institute for Inter-disciplinary Science and Technology
NIO	National Institute of Oceanography
NISCAIR	National Institute of Science Communication and Information Resources
NISTADS	National Institute of Science Technology and Development Studies
NMCC	National Manufacturing Competitiveness Council
NML	National Metallurgical Laboratory
NPL	National Physical Laboratory
NRDC	National Research Development Corporation
NRFC	National Register of Foreign Collaborations
NSTMIS	National Science and Technology Management Information System
PSE	Public Sector Enterprise
SERC	Structural Engineering Research Centre
SIRO	Scientific and Industrial Research Organization
SME	Small and Medium Enterprise.
TCO	Technical Consultancy Organization
TDB	Technology Development Board
TEDO	Technology Export Development Organization
TePP	Technopreneur Promotion Programme
TIFAC	Technology Information Forecasting and Assessment Council
TM	Technology Management
TQM	Total Quality Management
UGC	University Grants Commission
UNCTAD	United Nations Conference on Trade and Development
UNDP	United Nations Development Programme
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNIDO	United Nations Industrial Development Organization
WIPO	World Intellectual Property Organization



