## CONTENTS

		CHAPTER	Page No.
I		AN OVERVIEW	1-10
	1	Introduction	1
	2	Technology Promotion, Development and Utilization	1
		Programmes	
	2.1	Major Achievements	2
	3	Autonomous Institutions	6
	3.1	Council of Scientific and Industrial Research (CSIR)	6
	3.2	Consultancy Development Centre (CDC)	8
	4	Public Sector Enterprises	9
	4.1	National Research Development Corporation (NRDC)	9
	4.2	Central Electronics Limited (CEL)	10
II		TECHNOLOGY PROMOTION, DEVELOPMENT AND	11
		UTILIZATION PROGRAMMES	
	1	Introduction	11
	2	Objectives	11
	3	Implementation	11
II-A.		INDUSTRIAL R&D PROMOTION PROGRAMME	12-28
	1	Objectives	12
	2	Areas of Coverage	12
	3	In-House R&D In Industry	12
	3.1	Recognition of In-House R&D Units	12
	3.2	Renewal of Recognition	13
	3.3	Zonal Distribution of In-House R&D Units	13
	3.4	R&D Expenditure	14
	3.5	R&D Infrastructure	14
	3.6	R&D Manpower	14
	3.7	Sector-wise Break-Up of In-House R&D Units	14
	3.8	Achievements of In-House R&D Units	14
	3.9	Imports Made by In-House R&D Units	18
	3.10	Other Benefits Availed by the Recognised R&D Units	18
	3.11	Conference, Awards and Publications	19
	4	Scientific and Industrial Research Organisations (SIROs)	20
	4.1	Recognition of Scientific And Industrial Research	20
		Organisations	
	5	Fiscal Incentives for Scientific Research	21
	5.1	Introduction	21

		CHAPTER	Page No.
	5.2	Depreciation Allowance on Plant and Machinery Setup Based on Indigenous Technology	21
	5.3	Reference Under Section 35(3) Of Income-Tax Act, 1961 Regarding Scientific Research	22
	5.4	Approval of Commercial R&D Companies	22
	5.5	Customs Duty Exemption to Recognised SIROs	23
	5.6	Central Excise Duty Exemption to Recognised SIROs	23
	5.7	Registration of Public Funded Research Institutions, Universities, Etc	23
	5.8	Approval of In-House R&D Centres under Section 35(2AB) of IT Act 1961	24
II-B.		TECHNOLOGY DEVELOPMENT AND INNOVATION PROGRAMME	29-41
	1	Technology Development and Demonstration Programme	29
	1.1	Objectives	29
	1.2	Activities	29
	1.3	Customs Duty Exemption Certificate	38
	2	Technopreneur Promotion Programme	38
	3	Other Activities	38
	4	Expected Outputs and Benefits	38
II-C.		TECHNOLOGY MANAGEMENT PRORGRAMME	42-51
	1	Preamble	42
	2	Objectives	42
	3	Activities	42
	4	Work completed/under taken during the Year	43
	4.1	Database on approved foreign collaborations	43
	4.2	Analytical, Technology Status and Development Studies	43
	4.3	Studies on Technology and Innovation Management Issues	45
	4.4	Targeted research studies on specific issues in technology transfer, technology and innovations management	46
	4.5	Case Studies Covering Technology Management Aspects	48
	4.6	Collaborative work with Academic and Research Institutes	48
	4.7	Industry-Institute Networking with state level, research and other agencies on Technology Management	48
	4.8	Centres for Technology Management (CTM)	48
	4.9	Curriculum Development	49
	4.10	Information Dissemination	50
	4.11	Training/Interaction Meets/Seminars/Management Development Programs	50

		CHAPTER	Page No.
II-D.		INTERNATIONAL TECHNOLOGY TRANSFER PROGRAMME	52-56
	1	Objectives	52
	2	Projects / Activities	52
	2.1	INDIATECH 2005 (9 <sup>th</sup> Technology Trade Pavilion) at India International Trade Fair, New Delhi, November 14-27, 2005	52
	2.2	Technology Export Development Organisation	53
	2.3	Centre for International Trade in Technology (CITT)	53
	2.4	Promoting high Technology Co-operation and Trade between India and CIS Countries	53
	2.5	Technology Trade Facilitation Centre at National Research Development Corporation (NRDC)	54
	2.6	Design Clinics-cum-Awareness Programmes – NID	54
	2.7	Third International Design Aware-ness-cum-Training Programme on Strategic Design Intervention for Developing Economies	55
	2.8	Second International Awareness-cum-Training Programme on Packaging Conversion Technologies	55
	2.9	Workshops on Enhancing Export Competitiveness of Small and Medium Enterprises through IPR Awareness – WITT	55
	2.10	Export Capability Assessment of Indian Tooling Industry	56
	2.11	Compendium on Technology Exports – An Illustrative Compilation of Exported and Exportable Technologies from India	56
	2.12	Profiles of Exportable Technologies from SMEs – State-wise	56
II-E.		INTERNATIONAL COOPERATION	57-60
	1	Activities of APCTT	57
	2	Current Projects	59
	3	New Initiatives	59
II-F.		<b>CONSULTANCY PROMOTION PROGRAMME</b>	61-63
	1	Objectives	61
	2	Activities	61
	2.1	Documentation of Consultancy Capabilities and Experiences	61
	2.2	Promotion of Design Engineering Service Centres and Consultancy Clinics	62
	2.3	Institutional Programme Support	62
	3	Advisory Services	62
	3.1	Committees	62

		CHAPTER	Page No.
	3.2	Seminars/Workshops/Meetings	63
II-G.		TECHNOLOGY INFORMATION FACILITATION	64-69
	4	PROGRAMME	<b>C 1</b>
	1	Introduction	64
	2	Objectives	64
	3	Achievements	64
	3.1	Promotion of content development	64
	3.2	National Websites/Servers	65
	3.3	Indian Digital Library of Theses and R&D Publications	67
	3.4	Documentation of traditional knowledge and Folk Wisdom	67
	3.5	Virtual Systems	68
	3.6	Open Archives initiative: An alternative to Scholarly	68
	3.7	Communication Other Achievements	68
	5.7		00
II-H.		<b>INFORMATION TECHNOLOGY &amp; E-GOVERNANCE</b>	70-73
	1	Introduction	70
	2	IT-Action Plan	70
	3	Achievements	70
	3.1	Infrastructure Development	70
	3.2	Website	70
	3.3	Networking & Automation	70
II-I		GENDER BUDGETING CELL	74
	1	Introduction	74
	2	Activities	74
	3	Others	74
II-J		PUBLICITY AND PROMOTION	75-76
	1	Preamble	75
	2	Objectives	75
	3	Activities	75
III		AUTONOMOUS BODIES	77-98
III-A		COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH	77-93
	1	Introduction	77
	2	Significant Developments	77

		CHAPTER	Page No.
	3	S&T Contributions	79
	3.1	Aerospace Science & Technology	79
	3.2	Biology & Biotechnology	79
	3.3	Chemical Sciences & Technology	80
	3.4	Earth Resources & Natural Hazards Assessment	82
	3.5	Ecology & Environment	83
	3.6	Electronics & Instrumentation	84
	3.7	Energy	85
	3.8	Food & Food Processing	86
	3.9	Health Care, Drugs & Pharmaceuticals	87
	3.10	Information Dissemination & Products	88
	3.10	Leather	88 89
	3.12	Material, Minerals, Metals & Manufacturing	90 01
	3.13	Human Resource Development	91 01
	3.14	New Millennium Indian Technology Leadership Initiative	91
III-B		CONSULTANCY DEVELOPMENT CENTRE	94-98
	1	Introduction	94
	1.1	Background	94
	1.2	DSIR Support	94
	1.3	Technical Consultancy Development Programme for Asia and Pacific (TCDPAP)	94
	2	Activities	94
	2.1	Workshop / Seminar / Conference	94
	2.2	Training/Skill Upgradation Programme	95
	2.3	Consultancy and Facilitation in ISO-9000 QMS	95
	2.4	Study/Assignments	95
	2.5	Database and Information Services	96
	2.6	Developmental Services	96
	2.7	Scheme for Financial Assistance and Skill Upgradation of	96
		Consultants	
	2.8	Documents on "Procedures For Selection Of Consultants, Fee	96
		Structure for Consultancy Services and Standard Contract	
	-	Agreement"	_
	3	Chapters of CDC	96
	4	Publications	97
	5	Financial Performance	97

		CHAPTER	Page No.
IV		PUBLIC SECTOR ENTERPRISES	99-108
IV-A.		NATIONAL RESEARCH DEVELOPMENT	99-105
	1	CORPORATION	00
	1	Introduction	99
	2	Profit	99
	3	Processes assigned and license agreements concluded	99
	4	Major Technologies licensed	100
	5	Technology Development Projects	100
	6	Technology Trade Facilitation Centre	101
	7	Intellectual Property Rights Consultancy Services	101
	8	Projects Supported by DSIR	101
	9 10	Market Surveys	102
	10	Invention Promotion Programme	102
	11	Development & Promotion of Rural & Household Technology	102
	12	Technology & Project Export	103
	13	Foreign Exchange Earnings	103
	14	Publications	103
	15	Exhibitions & Publicity	103
	16	Human Resources Development	104
	17	Technology Absorption, Adaptation and Innovation	104
	18	Implementation of Official Language	104
IV-B.		CENTRAL ELECTRONICS LIMITED	106-108
	1	Introduction	106
	2	Performance in 2004-05	106
	2.1	Operating Results	106
	2.2	Exports	106
	2.3	Major achievements of CEL during 2004-05	106
	3	Performance in 2005-06	107
	3.1	Operating Results	107
	3.2	Exports	107
	4	Future Strategy	107
	5	Foreign Exchange Receipts & Outgo	107
	6	Energy / Environment Conservation	108
	7	Particulars of Employees	108
	8	Implementation of Hindi, Industrial Relations & Human Relations	108
	9	Welfare of Reserved Categories	108

		CHAPTER	Page No.
V		ADMINISTRATION & FINANCE	109-110
	1.	Administration	109
	1.1	Promotion of Hindi	109
	1.2	Staff Strength	110
	2.	Finance	110
	3.	CAG's Report	110
		TABLES	111
	Ι	FINANCIAL SUMMARY	111
		ANNEXURES	112-133
	1	Statement on Recognition of in-house R&D Units	112
	2	Statement on Renewal of Recognition of in-house R&D Units whose recognition was valid upto 31.03.2005	113
	3	List of In-house R&D Units in Industry Reporting Annual	114
		Expenditure more than Rs. 500lakhs	
	4	List of In-house R&D Units in Industry Reporting Annual Expenditure in the range of Rs. 100 lakhs to Rs. 500 lakhs	118
	5	List of Scientific and Industrial Research Organizations	125
	<i>.</i>	Approved during the year 2005	10.6
	6	Certificates for Claiming Accelerated Depreciation Allowance Issued by DSIR Under Rule 5(2) Of The I.T. Rules vide	126
		Notification No. 133/342/86-TPL dated 1.4.1988	
	7	Details of Projects Supported under Technopreneur Promotion	127
		Programme during the Year	
	8	List of CSIR Laboratories	130
	9	Extracts of Audit Observations by C&AG	132
		ABBREVIATIONS / ACRONYMS USED	134-135