



Government of India

R F D

(Results-Framework Document)
for

Department of Scientific and Industrial
(2013-2014)

Section 1: Vision, Mission, Objectives and Functions

Vision

Enabling India to emerge as global industrial research and innovation hub

Mission

Attracting industrial research in the country through industry and institution centric motivational measures and incentives; Creating an enabling environment for development and utilization of new innovations; Enhance innovations through its resources and channelize benefits thereof to the people.

Objectives

- 1 To promote and nurture research and development in industry with a view to enhance industry's share in national R&D expenditure;
- 2 Promoting Innovations in Individuals, Start-ups and MSMEs and channelize benefits for public good;
- 3 Patent Acquisition and Collaborative Research and Technology Development leading to industrial competitiveness;
- 4 Facilitating research by micro and small enterprises (MSEs)
- 5 Promoting access to Knowledge for industries for Technology Development and Dissemination;
- 6 Providing technology based support for programmes aimed at benefitting women ;
- 7 To access the outcome of major technologies of national importance developed by CSIR on a continuous basis;
- 8 Evaluation of outcome of erstwhile Schemes;
- 9 To track scientific innovations in the country;
- 10 To implement e-Governance and ERP initiatives;

Functions

- 1 All matters concerning the Council of Scientific & Industrial Research;
- 2 All matters relating to National Research Development Corporation;
- 3 All matters relating to Central Electronics Limited;
- 4 Registration and Recognition of R&D Units;
- 5 Technical matters relating to UNCTAD & WIPO;
- 6 National register for foreign collaborations;

Section 1: Vision, Mission, Objectives and Functions

- 7 Matters relating to creation of a pool for temporary placement of Indian Scientists & Technologists;
- 8 *****
- 9 Revised Proposal for Allocation of Business Rules with following entries sent to Cabinet Secretariat on 12/12/2012. This is pending approval.
- 10 All matters relating to Scientific and Industrial Research;
- 11 Overall Policy, Planning, Co-ordination, Evaluation and Review of the Developmental Programmes relating to enhancing the industrial self reliance and global competitiveness through scientific and industrial research;
- 12 Promoting inclusive innovations in Industrial Research for societal benefits;
- 13 Registration and recognition of organizations, industries and institutions for Scientific Research and Development including approvals for implementation of fiscal incentives;
- 14 Documentation of traditional knowledge for protection against misappropriation;
- 15 Promoting open innovations in Scientific and Industrial Research;
- 16 Administration of The Academy of Scientific and Innovative Research Act, 2011 (AcSIR);
- 17 All matters concerning Autonomous Organisations under the administrative control of the Department: i. Council of Scientific and Industrial Research (CSIR) ii. Consultancy Development Centre (CDC);
- 18 All matters concerning Public Sector Undertakings (PSUs) under the administrative control of the Department: i. National Research Development Corporation (NRDC) ii. Central Electronics Limited (CEL) ;
- 19 Matters relating to United Nations - Asian & Pacific Centre for Transfer of Technology.

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
[1] To promote and nurture research and development in industry with a view to enhance industry's share in national R&D expenditure;	22.00	[1.1] Recognition and renewal of R&D Centres	[1.1.1] Recognition & registration to new in-house R&D units; Scientific & Industrial Research Organisations (SIROs); and Public Funded Research Institutions (PFRIs)	Nos.	9.00	290	285	275	260	250
			[1.1.2] Renewal of recognition & registration to in-house R&D units; SIROs; PFRIs	Nos.	3.00	715	710	705	700	695
		[1.2] Fiscal incentives for Scientific Research	[1.2.1] Approving new companies for availing fiscal benefits	Nos.	10.00	80	75	70	65	60
[2] Promoting Innovations in Individuals, Start-ups and MSMEs and channelize benefits for public good;	18.00	[2.1] Encouraging innovations and creativity towards creating knowledge-based enterprises through implementation of PRISM scheme	[2.1.1] Support to innovative project proposals from individuals, start-ups and MSMEs	Nos	8.00	100	90	80	75	70
		[2.2] Evolving mechanisms to scout for innovative proposals from individuals, start-ups and MSMEs through implementation of PRISM scheme	[2.2.1] Establishment & sustenance of TePP Outreach cum Cluster Innovation Centres (TOICs) in collaboration with CSIR labs	Nos.	2.00	50	45	41	37	35

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
			[2.2.2] Organization of awareness-cum-training sessions on innovation and creativity.	Nos.	2.00	12	11	10	9	8
		[2.3] Completion of new innovative projects or the on-going TePP projects through implementation of PRISM scheme	[2.3.1] New innovations and prototypes demonstrated	Nos.	6.00	50	48	46	44	42
[3] Patent Acquisition and Collaborative Research and Technology Development leading to industrial competitiveness;	14.00	[3.1] Evolving mechanisms for facilitating patent acquisitions through implementation of PACE scheme	[3.1.1] Organization of workshops involving technology providers and technology seekers	Nos.	1.50	3	2	1	0	--
			[3.1.2] Organization of Expert Committee meetings for technology valuation and assessment.	Nos.	1.50	3	2	1	0	--
		[3.2] Development & demonstration of innovative product or process technologies through implementation of PACE scheme	[3.2.1] Support to innovative projects of industries with or without collaboration of R&D institutions	Nos.	10.00	5	4	3	2	1
		[3.3] Facilitating tie-ups of industries with R&D institutions for collaborative R&D	[3.3.1] Preparation of framework for a database on experts and IPs	Date	1.00	20/02/2014	01/03/2014	10/03/2014	20/03/2014	31/03/2014

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
		projects through implementation of PACE scheme	available in institutions							
[4] Facilitating research by micro and small enterprises (MSEs)	5.00	[4.1] Enabling setting up of Common Research & Technology Development Facilities for micro and small enterprises (MSEs) through implementation of BIRD scheme	[4.1.1] Evolving a framework for establishing common research & Technology Development facilities	Date	2.00	31/01/2014	10/02/2014	20/02/2014	01/03/2014	15/03/2014
			[4.1.2] Setting-up of one common research & Technology Development Centres	Date	3.00	20/02/2014	01/03/2014	11/03/2014	21/03/2014	31/03/2014
[5] Promoting access to Knowledge for industries for Technology Development and Dissemination;	14.00	[5.1] Facilitating access to e-journals by in-house R&D units of industries and SIROs through implementation of A2K+ scheme	[5.1.1] No. of scientific journals accessed online	Nos.	2.00	5	4	3	2	1
			[5.1.2] No. of In-house R&D units and SIROs having online access to scientific journals	Nos.	2.00	35	34	33	32	31
		[5.2] To keep abreast of latest technological developments and innovations through implementation of A2K+ scheme	[5.2.1] Sponsoring studies in futuristic areas related to technology and innovation and showcasing technological achievements and	Nos.	2.00	4	3	2	1	0

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
			success stories through exhibitions, conferences etc.							
		[5.3] Completion of on-going TDDP projects	[5.3.1] New products / processes demonstrated	Nos.	8.00	10	9	8	7	6
[6] Providing technology based support for programmes aimed at benefitting women ;	2.00	[6.1] Empowering and training women through technological interventions	[6.1.1] Support technology based proposals from a Non-Governmental Organisations (NGOs), Women Self-Help Groups (SHGs) and other concerned agencies	Nos.	2.00	14	13	12	11	10
[7] To access the outcome of major technologies of national importance developed by CSIR on a continuous basis;	2.00	[7.1] To carry out an economic impact assessment of major technologies of national importance developed by CSIR	[7.1.1] Identification of technologies of national importance developed by CSIR	Nos.	1.00	2	1	0	--	--
			[7.1.2] Preparation of impact assessment reports	Nos.	1.00	2	1	0	--	--
[8] Evaluation of outcome of erstwhile Schemes;	4.00	[8.1] Independent evaluation of Technology Development and Demonstration Programme (TDDP)	[8.1.1] Submission of evaluation report to the department	Date	2.00	01/02/2014	15/02/2014	01/03/2014	15/03/2014	31/03/2014
		[8.2] Independent evaluation of Technopreneur	[8.2.1] Submission of evaluation report	Date	2.00	01/02/2014	15/02/2014	01/03/2014	15/03/2014	31/03/2014

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
		Promotion Programme (TePP)	to the department							
[9] To track scientific innovations in the country;	2.00	[9.1] Creation of a Scientific Innovations Database	[9.1.1] Scientific innovations added in the database	Nos.	1.00	300	270	250	225	205
			[9.1.2] Uploading scientific innovation database in DSIR website	Date	1.00	20/02/2014	01/03/2014	11/03/2014	21/03/2014	31/03/2014
[10] To implement e-Governance and ERP initiatives;	2.00	[10.1] Design, Development, Validation and Certification of Enterprise Resource Planning (ERP) solution for e-Office	[10.1.1] Percentage of processes in the ERP initiative going on-line by 31/03/2014	%	2.00	100	95	90	85	80
* Efficient Functioning of the RFD System	3.00	Timely submission of Draft RFD 2014-15 for Approval	On-time submission	Date	2.0	05/03/2014	06/03/2014	07/03/2014	08/03/2014	11/03/2014
		Timely submission of Results for 2012-13	On-time submission	Date	1.0	01/05/2013	02/05/2013	03/05/2013	06/05/2013	07/05/2013
* Transparency/Service delivery Ministry/Department	3.00	Independent Audit of implementation of Citizens'/Clients' Charter (CCC)	% of implementation	%	2.0	100	95	90	85	80
		Independent Audit of implementation of Public Grievance Redressal System	% of implementation	%	1.0	100	95	90	85	80
* Administrative Reforms	6.00	Implement mitigating strategies for reducing potential risk of corruption	% of implementation	%	1.0	100	95	90	85	80
		Implement ISO 9001 as per the approved action plan	% of implementation	%	2.0	100	95	90	85	80

* Mandatory Objective(s)

Section 2: Inter se Priorities among Key Objectives, Success indicators and Targets

Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
		Implement Innovation Action Plan (IAP)	% of milestones achieved	%	2.0	100	95	90	85	80
		Identification of core and non-core activities of the Ministry/Department as per 2nd ARC recommendations	Timely submission	Date	1.0	27/01/2014	28/01/2014	29/01/2014	30/01/2014	31/01/2014
* Improving Internal Efficiency/Responsiveness.	2.00	Update departmental strategy to align with 12th Plan priorities	Timely updation of the strategy	Date	2.0	10/09/2013	17/09/2013	24/09/2013	01/10/2013	08/10/2013
* Ensuring compliance to the Financial Accountability Framework	1.00	Timely submission of ATNs on Audit paras of C&AG	Percentage of ATNs submitted within due date (4 months) from date of presentation of Report to Parliament by CAG .during the year.	%	0.25	100	90	80	70	60
		Timely submission of ATRs to the PAC Sectt. on PAC Reports.	Percentage of ATRS submitted within due date (6 months) from date of presentation of Report to Parliament by PAC .during the year.	%	0.25	100	90	80	70	60
		Early disposal of pending ATNs on Audit Paras of C&AG Reports presented to Parliament before 31.3.2012.	Percentage of outstanding ATNs disposed off during the year.	%	0.25	100	90	80	70	60
		Early disposal of pending ATRs on PAC Reports presented to Parliament before 31.3.2012	Percentage of outstanding ATRS disposed off during the year.	%	0.25	100	90	80	70	60

* Mandatory Objective(s)

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 11/12	Actual Value for FY 12/13	Target Value for FY 13/14	Projected Value for FY 14/15	Projected Value for FY 15/16
[1] To promote and nurture research and development in industry with a view to enhance industry's share in national R&D expenditure;	[1.1] Recognition and renewal of R&D Centres	[1.1.1] Recognition & registration to new in-house R&D units; Scientific & Industrial Research Organisations (SIROs); and Public Funded Research Institutions (PFRIs)	Nos.	220	322	285	290	295
		[1.1.2] Renewal of recognition & registration to in-house R&D units; SIROs; PFRIs	Nos.	720	715	710	715	720
	[1.2] Fiscal incentives for Scientific Research	[1.2.1] Approving new companies for availing fiscal benefits	Nos.	72	110	75	80	85
[2] Promoting Innovations in Individuals, Start-ups and MSMEs and channelize benefits for public good;	[2.1] Encouraging innovations and creativity towards creating knowledge-based enterprises through implementation of PRISM scheme	[2.1.1] Support to innovative project proposals from individuals, start-ups and MSMEs	Nos	--	0	90	105	120
	[2.2] Evolving mechanisms to scout for innovative proposals from individuals, start-ups and MSMEs through implementation of PRISM scheme	[2.2.1] Establishment & sustenance of TePP Outreach cum Cluster Innovation Centres (TOCICs) in collaboration with CSIR labs	Nos.	--	30	45	48	50

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 11/12	Actual Value for FY 12/13	Target Value for FY 13/14	Projected Value for FY 14/15	Projected Value for FY 15/16
		[2.2.2] Organization of awareness-cum-training sessions on innovation and creativity.	Nos.	--	6	11	11	11
	[2.3] Completion of new innovative projects or the on-going TePP projects through implementation of PRISM scheme	[2.3.1] New innovations and prototypes demonstrated	Nos.	--	42	48	48	50
[3] Patent Acquisition and Collaborative Research and Technology Development leading to industrial competitiveness;	[3.1] Evolving mechanisms for facilitating patent acquisitions through implementation of PACE scheme	[3.1.1] Organization of workshops involving technology providers and technology seekers	Nos.	--	0	2	4	4
		[3.1.2] Organization of Expert Committee meetings for technology valuation and assessment.	Nos.	--	0	2	4	4
	[3.2] Development & demonstration of innovative product or process technologies through implementation of PACE scheme	[3.2.1] Support to innovative projects of industries with or without collaboration of R&D institutions	Nos.	--	0	4	5	6
	[3.3] Facilitating tie-ups of industries with R&D institutions for collaborative R&D projects through	[3.3.1] Preparation of framework for a database on experts and IPs available in institutions	Date	--	--	01/03/2014	--	--

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 11/12	Actual Value for FY 12/13	Target Value for FY 13/14	Projected Value for FY 14/15	Projected Value for FY 15/16
	implementation of PACE scheme							
[4] Facilitating research by micro and small enterprises (MSEs)	[4.1] Enabling setting up of Common Research & Technology Development Facilities for micro and small enterprises (MSEs) through implementation of BIRD scheme	[4.1.1] Evolving a framework for establishing common research & Technology Development facilities	Date	--	--	10/02/2014	--	--
		[4.1.2] Setting-up of one common research & Technology Development Centres	Date	--	--	01/03/2014	01/03/2015	01/03/2016
[5] Promoting access to Knowledge for industries for Technology Development and Dissemination;	[5.1] Facilitating access to e-journals by in-house R&D units of industries and SIROs through implementation of A2K+ scheme	[5.1.1] No. of scientific journals accessed online	Nos.	--	4	4	4	4
		[5.1.2] No. of In-house R&D units and SIROs having online access to scientific journals	Nos.	--	30	34	60	85
	[5.2] To keep abreast of latest technological developments and innovations through implementation of A2K+ scheme	[5.2.1] Sponsoring studies in futuristic areas related to technology and innovation and showcasing	Nos.	--	0	3	3	3

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 11/12	Actual Value for FY 12/13	Target Value for FY 13/14	Projected Value for FY 14/15	Projected Value for FY 15/16
		technological achievements and success stories through exhibitions, conferences etc.						
	[5.3] Completion of on-going TDDP projects	[5.3.1] New products / processes demonstrated	Nos.	3	9	9	16	16
[6] Providing technology based support for programmes aimed at benefitting women ;	[6.1] Empowering and training women through technological interventions	[6.1.1] Support technology based proposals from a Non-Governmental Organisations (NGOs), Women Self-Help Groups (SHGs) and other concerned agencies	Nos.	8	9	13	14	15
[7] To access the outcome of major technologies of national importance developed by CSIR on a continuous basis;	[7.1] To carry out an economic impact assessment of major technologies of national importance developed by CSIR	[7.1.1] Identification of technologies of national importance developed by CSIR	Nos.	--	5	3	3	3
		[7.1.2] Preparation of impact assessment reports	Nos.	--	5	3	3	3
[8] Evaluation of outcome of erstwhile Schemes;	[8.1] Independent evaluation of Technology Development and Demonstration Programme (TDDP)	[8.1.1] Submission of evaluation report to the department	Date	--	--	15/02/2014	--	--

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 11/12	Actual Value for FY 12/13	Target Value for FY 13/14	Projected Value for FY 14/15	Projected Value for FY 15/16
	[8.2] Independent evaluation of Technopreneur Promotion Programme (TePP)	[8.2.1] Submission of evaluation report to the department	Date	--	--	15/02/2014	--	--
[9] To track scientific innovations in the country;	[9.1] Creation of a Scientific Innovations Database	[9.1.1] Scientific innovations added in the database	Nos.	--	120	270	280	290
		[9.1.2] Uploading scientific innovation database in DSIR website	Date	--	--	01/03/2014	--	--
[10] To implement e-Governance and ERP initiatives;	[10.1] Design, Development, Validation and Certification of Enterprise Resource Planning (ERP) solution for e-Office	[10.1.1] Percentage of processes in the ERP initiative going on-line by 31/03/2014	%	--	--	95	--	--
* Efficient Functioning of the RFD System	Timely submission of Draft RFD 2014-15 for Approval	On-time submission	Date	--	--	06/03/2014	--	--
	Timely submission of Results for 2012-13	On-time submission	Date	--	--	02/05/2013	--	--
* Transparency/Service delivery Ministry/Department	Independent Audit of implementation of Citizens'/Clients' Charter	% of implementation	%	--	--	95	--	--
	Independent Audit of implementation of Public Grievance Redressal System	% of implementation	%	--	--	95	--	--

* Mandatory Objective(s)

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 11/12	Actual Value for FY 12/13	Target Value for FY 13/14	Projected Value for FY 14/15	Projected Value for FY 15/16
* Administrative Reforms	Implement mitigating strategies for reducing potential risk of corruption	% of implementation	%	--	--	95	--	--
	Implement ISO 9001 as per the approved action plan	% of implementation	%	--	--	95	--	--
	Implement Innovation Action Plan (IAP)	% of milestones achieved	%	--	--	95	--	--
	Identification of core and non-core activities of the Ministry/Department as per 2nd ARC recommendations	Timely submission	Date	--	--	15/10/2013	--	--
* Ensuring compliance to the Financial Accountability Framework	Timely submission of ATNs on Audit paras of C&AG	Percentage of ATNs submitted within due date (4 months) from date of presentation of Report to Parliament by CAG .during the year.	%	--	--	90	--	--
	Timely submission of ATRs to the PAC Sectt. on PAC Reports.	Percentage of ATRS submitted within due date (6 months) from date of presentation of Report to Parliament by PAC .during the year.	%	--	--	90	--	--
	Early disposal of pending ATNs on Audit Paras of C&AG Reports presented to Parliament before 31.3.2012.	Percentage of outstanding ATNs disposed off during the year.	%	--	--	90	--	--
	Early disposal of pending ATRs on PAC Reports presented to Parliament	Percentage of outstanding ATRS disposed off during the year.	%	--	--	90	--	--

* Mandatory Objective(s)

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value for FY 11/12	Actual Value for FY 12/13	Target Value for FY 13/14	Projected Value for FY 14/15	Projected Value for FY 15/16
	before 31.3.2012							

* Mandatory Objective(s)

Section 4: Acronym

Sl.No	Acronym	Description
1	A2K+	Access to Knowledge for industries for Technology Development and Dissemination
2	AcSIR	Academy of Scientific and Innovative Research
3	APCTT	Asian and Pacific Centre for Transfer of Technology
4	ARC	Administrative Reforms Committee
5	BIRD	Building Industrial Research and Development
6	CCC	Citizen's / Client's Charter

Section 4: Acronym

Sl.No	Acronym	Description
7	CDC	Consultancy Development Centre
8	CEL	Central Electronics Limited
9	CSIR	Council of Scientific and Industrial Research
10	DGIT(E)	Director General Income Tax (Exemptions)
11	DSIR	Department of Scientific and Industrial Research
12	ERP	Enterprise Resource Planning

Section 4: Acronym

Sl.No	Acronym	Description
13	IAP	Innovation Action Plan
14	MSEs	Micro and Small Enterprises
15	MSME	Micro, Small and Medium Enterprises
16	NGOs	Non-Governmental Organizations
17	NRDC	National Research and Development Corporation
18	PACE	Patent Acquisition and Collaborative Research and Technology Development

Section 4: Acronym

Sl.No	Acronym	Description
19	PFRI	Public Funded Research Institutions
20	PRISM	Promoting Innovations in Individuals, Start-ups and MSMEs
21	SHGs	Self-Help Groups
22	SIRO	Scientific and Industrial Research Organisations
23	TAC	Technical Advisory Committee
24	TDDP	Technology Development and Demonstration Programme

Section 4: Acronym

Sl.No	Acronym	Description
25	TePP	Technopreneur Promotion Programme
26	UNCTAD	United Nations Conference on Trade and Development
27	UN ESCAP	United Nations Economic and Social Commissions for Asia and the Pacific
28	WIPO	World Intellectual Property Organization

Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
1	[1.1.1] Recognition & registration to new in-house R&D units; Scientific & Industrial Research Organisations (SIROs); and Public Funded Research Institutions (PFRIs)	Applications for recognition / registration of in-house R&D units of industries, SIROs and PFRIs are received on-line or thru post, which are scrutinized in the department and those recommended by the Screening Committee are approved by the Competent authority for recognition / registration.	In-house R&D unit of industry is a separate entity within the industry, having its independent space, manpower, equipment and facilities solely devoted to R&D. SIROs are non-commercial R&D organizations whose output is solely scientific R&D. PFRIs are universities, colleges and institutes funded in a major way by the tax-payers money.	Only those units of industries and institutes find place in the database of recognized / registered organizations which pass the prescribed standards. The units / institutes are retained in the database and their status is renewed if they continue to do R&D.	Recognition / registration results in benchmarking of industries and is an assurance that the recognized / registered unit / institute has certain minimum R&D facilities and has the capability to do research. DSIR recognition is also a pre-requisite for certain other government funding programmes.
2	[1.2.1] Approving new companies for availing fiscal benefits	An important fiscal benefit available to industry is 200% weighted tax deduction on in-house R&D expenditure.	Companies are issued forms 3CM if they qualify to claim weighted tax deduction. The R&D expenditure qualifying for weighted tax deduction is notified to DGIT(E) in forms 3CL.	The nos. of forms 3CMs issued in any year indicate the number of companies who have incurred R&D expenditure and forms 3CLs indicate the quantum of R&D expenditure by companies qualifying for weighted tax deduction.	This success indicator gives the R&D expenditure trends in industry.
3	[2.1.1] Support to innovative project proposals from individuals, start-ups and MSMEs	The innovative project proposals of individuals, start-ups and MSMEs receive DSIR grant-in-aid support up to Rs. 50 lakh under the PRISM scheme. PRISM is a	Innovative project proposals aim at developing a prototype, one of its kind from a creative idea.	The proposals once recommended by screening committee and concurred by Finance are supported with DSIR grant.	Support to the innovative projects result in setting up of new start-ups.

Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
3	[2.1.1] Support to innovative project proposals from individuals, start-ups and MSMEs	new 12th Plan Scheme that nurtures innovations and creativity in individuals incubatee companies start-ups and MSMEs.	Innovative project proposals aim at developing a prototype, one of its kind from a creative idea.	It is proposed to support around 100 proposals every year.	Support to the innovative projects result in setting up of new start-ups.
4	[2.2.1] Establishment & sustainance of TePP Outreach cum Cluster Innovation Centres (TOCICs) in collaboration with CSIR labs	TOCICs assist in formulation of innovative proposals by individuals, start-ups and MSMEs, get the proposals evaluated by domain experts and forward the recommended proposals to DSIR for support. TOCICs are the first contact points for applicants seeking support under PRISM scheme.	TOCIC is a small centre in an academic institution, R&D laboratory or inside a MSME cluster manned by 2-3 persons and scouts for innovative proposals and organizes innovation related awareness programmes in vicinity of their location.	It is proposed to re-designate the existing 35 odd TePP outreach centres as TOCICs as well as establish 15 new TOCICs in MSME clusters.	TOCICs help in creating awareness about the PRISM scheme among potential beneficiaries.
5	[2.3.1] New innovations and prototypes demonstrated	The output of the proposals supported under the erstwhile TePP scheme is new prototypes and models.	A prototype is said to be successfully demonstrated in any project when a Project Review Committee constituted for the project witnesses and accepts the same.	Acceptance of the project completion report by DSIR signifies the project completion as well as successful demonstration of the prototype.	New prototypes demonstrated are published in a 'Creative India' booklet.
6	[3.1.1] Organization of workshops involving technology providers and technology seekers	The workshops are organized to bring together institutions and experts having technologies for transfer as well as SMEs looking for technologies to improve their competitiveness with a view to	Complete rights of the early stage technology are proposed to be acquired by DSIR for licensing to industries on non-exclusive as well as	The number of technologies decided to be acquired and the number of SMEs to whom the technologies will be licensed shall be	The acquired technologies are expected to help in development of 'Made in India' products by the industries.

Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
6	[3.1.1] Organization of workshops involving technology providers and technology seekers	facilitate technology acquisition by industries under the PACE Scheme. PACE is a new 12th Plan Scheme aimed at facilitating technology acquisition, development and demonstration.	exclusive basis.	measured.	The acquired technologies are expected to help in development of 'Made in India' products by the industries.
7	[3.2.1] Support to innovative projects of industries with or without collaboration of R&D institutions	The industries are provided loan and the institutions (in case of a collaborative projects) are offered grant. Industries are supposed to return 1.1 times the DSIR fund upon project completion.	Projects of industries having majority Indian shareholding and preferably with DSIR recognition are supported for developing and demonstrating an innovative technology.	New projects sanctioned every year are measured which give an indication of the expected payback 2-3 years after completion of the project.	New product and process technologies demonstrated by industries result in increased turnover and competitiveness of industries.
8	[3.3.1] Preparation of framework for a database on experts and IPs available in institutions	The database shall be evolved in collaboration with an external agency. The database shall be dynamic in nature with facility for continuous updation by the experts.	The database will give the complete contact details of the source (Indian as well as foreign), brief details of the IP and its commercialization potential.	Evolution of the database involves several stages and preparation of framework for database shall be monitored during this year.	The database will serve as a ready source for industries desirous of formulating collaborative projects.
9	[4.1.2] Setting-up of one common research & Technology Development Centres	Common Research & Technology Development Centres shall be set up for micro and small enterprises to select focus areas such as healthcare, renewable energy etc. to enable them to complete globally under BIRD Scheme. BIRD is a new 12th Plan Scheme aimed at establishment	Common Research & Technology Development Centres will be publicly owned by privately operated and shall bring the R&D facilities within the reach of micro and small enterprises.	Date by which the Common Research and Technology Development Centre shall be established will be monitored.	The centres are expected to bring R&D culture in MSEs and enhance the competitiveness of the micro and small enterprises.

Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
9	[4.1.2] Setting-up of one common research & Technology Development Centres	of common research facilities for facilitating R&D by micro and small enterprises.	Common Research & Technology Development Centres will be publicly owned by privately operated and shall bring the R&D facilities within the reach of micro and small enterprises.	Date by which the Common Research and Technology Development Centre shall be established will be monitored.	The centres are expected to bring R&D culture in MSEs and enhance the competitiveness of the micro and small enterprises.
10	[5.1.1] No. of scientific journals accessed online	Scientific e-journals having high impact factor will be made accessible to in-house R&D units of industries and SIROs under A2K+ Scheme. A2K+ is a new 12th Plan Scheme mainly aimed at facilitating access of scientific e-journals by industries/SIROs.	Five scientific journals in the engineering and life sciences areas shall be made accessible to 100 select in-house R&D units of industries recognized by DSIR.	DSIR recognized industries shortlisted based on turnover shall be given access and access shall be continued based on industries meeting the minimum performance criterion.	This is expected to improve quality of research and result in higher number of publications and patents by industries.
11	[5.2.1] Sponsoring studies in futuristic areas related to technology and innovation and showcasing technological achievements and success stories through exhibitions, conferences etc.	Studies shall be commissioned in futuristic areas of technology and innovation based on stakeholder discussions. Achievements of DSIR beneficiaries shall be showcased in exhibitions and discussed in conferences.	Studies shall relate to India's present status, future targets, gap areas and the road map for future. Exhibitions to be participated shall be those where India is able to benchmark its achievements vis-à-vis international achievements.	The number of studies commissioned and exhibitions participated will be measured.	The events will give direction and identify the focus areas where India should work in future.

Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
12	[5.3.1] New products / processes demonstrated	Completion of on-going Technology Development and Demonstration Programme (TDDP) projects, spilling over from previous plan.	Projects only with innovative technological content are supported which involve up-scaling of proof of concept / laboratory stage R&D upto the pilot plant stage and demonstrating the commercialization potential of the product / process developed.	Projects that result into commerciali-zation are measured which indicates the outcome.	Commercialized projects yield royalty/ lumpsum payback.
13	[6.1.1] Support technology based proposals from a Non-Governmental Organisations (NGOs), Women Self-Help Groups (SHGs) and other concerned agencies	Projects from NGOs and other organizations aimed at evolving technological solutions for the benefit of women are invited which are considered by TAC before support by DSIR.	The proposals aim at training women and equipping them with improved techniques, tools, advanced technologies etc. with a view to improve their livelihood.	The numbers of projects approved are the ones recommended by Technical Advisory Committee (TAC) and concurred by IFD.	This will create business and employment opportunities for women.
14	[7.1.2] Preparation of impact assessment reports	Council of Scientific Industrial Research (CSIR) is engaged in development of a large number of technologies having a variety of industrial applications. These technologies impact the lives of common man in a significant way. This success indicator will assesses the outcome of a select number of technologies of national importance developed by CSIR and tracks preparation	Technology Impact Assessment Reports estimates the outcome in terms of value to : the CSIR laboratory generating the technology (in terms of lump-sum/royalty payments); the licensee industries (income from commercialization of technology) and the	Preparation of Impact Assessment Report is a year long exercise. Impact Assessment Reports for 1-2 technologies shall be prepared simultaneously.	Technology Impact Assessment Reports document the benefits that accrue to the society due to the commercialization of CSIR technologies.

Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
14	[7.1.2] Preparation of impact assessment reports	of Technology Impact Assessment Reports.	users/common man (improved quality of life e.g. access to affordable healthcare & housing, sustainable energy, etc.)	Preparation of Impact Assessment Report is a year long exercise. Impact Assessment Reports for 1-2 technologies shall be prepared simultaneously.	Technology Impact Assessment Reports document the benefits that accrue to the society due to the commercialization of CSIR technologies.
15	[8.1.1] Submission of evaluation report to the department	Technology Development and Demonstration Programme (TDDP) was continued in the 11th Five Year Plan with an objective to assist industries in upscaling of the lab scale technologies upto pilot plant level before commerciali-zation. The programme is being discontinued in the 12th Five Year Plan in its present form. Experiences of the department in running the programme and its outcome shall be evaluated by an external agency.	The evaluation shall examine issues such as, whether the programme has achieved its objectives, whether the programme utilized the resources optimally and what has been the societal impact of the programme.	Periodic meetings with the agency engaged for carrying out the independent evaluation shall be held to monitor the achievement of agreed milestones.	The exercise will give an outcome of operation of the TDDP scheme.
16	[8.2.1] Submission of evaluation report to the department	Technopreneur Promotion Programme (TePP) was continued in the 11th Five Year Plan with an objective to assist individual innovators in conversion of their innovative ideas into workable prototypes / models. The programme is being discontinued in the 12th Five Year Plan in its present form.	The evaluation shall examine issues such as, whether the programme has achieved its objectives, whether the programme utilized the resources optimally and what has been the societal impact of the programme.	Periodic meetings with the agency engaged for carrying out the independent evaluation shall be held to monitor the achievement of agreed milestones.	The exercise will give an outcome of operation of the TePP scheme.

Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
16	[8.2.1] Submission of evaluation report to the department	Experiences of the department in running the programme and its outcome shall be evaluated by an external agency.	The evaluation shall examine issues such as, whether the programme has achieved its objectives, whether the programme utilized the resources optimally and what has been the societal impact of the programme.	Periodic meetings with the agency engaged for carrying out the independent evaluation shall be held to monitor the achievement of agreed milestones.	The exercise will give an outcome of operation of the TePP scheme.
17	[9.1.1] Scientific innovations added in the database	Scientific Innovations Database shall include parameters such as title, source, description, utility, commercialization details and impact of innovations. The sources for compilation of innovations shall include the patent database, National Innovation Foundation's Grass-root Innovations, Technology Business Incubators, Science & Technology Entrepreneurship Parks, Innovation awards given by various agencies and the various programmes of the Govt. of India leading to innovative products / services.	Scientific Innovations captured in the database could be grass-root innovation, institutional innovation, industrial innovation or a patented innovation.	The innovations compiled from various sources shall be assessed by an expert committee before uploading the same on the database. The committee shall also study and benchmark the proposed database with similiary innovation databases existing elsewhere.	The exercise will give information about the complete journey of an innovation from mind to market.

Section 4: Description and Definition of Success Indicators and Proposed Measurement Methodology

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
18	[10.1.1] Percentage of processes in the ERP initiative going on-line by 31/03/2014	The Department is implementing an Enterprise Resource Planning (ERP) system which will automate Projects, Planning, Administrative and other functions of the Department and make the system more transparent and efficient. The ERP includes System Study, Requirement Specifications, Process Information Architectures and Development of ERP, Graphical User Interface (GUI) Validation, User Acceptance Test (UAT) and Certification	The ERP processes include e-Office (Employee Records and Services, etc.), Stores and Purchases, Audit, Planning, Court Cases, Budget, Parliament, Recognition and Renewal of In-house R&D Units, SIROs & PFRIs, Fiscal Incentives, Plan Schemes (PRISM, PACE, BIRD & A2K+), etc.	Percentage of Processes going online will be measured.	This will improve efficiency and transparency in operations.

Section 5 : Specific Performance Requirements from other Departments

Location Type	State	Organisation Type	Organisation Name	Relevant Success Indicator	What is your requirement from this organisation	Justification for this requirement	Please quantify your requirement from this Organisation	What happens if your requirement is not met.
Central Government		Ministry	Ministry of Finance	[1.2.1] Approving new companies for availing fiscal benefits	Certification of expenditure u/s 35(2AB)through DGIT(E)	Necessary for recording of R and D expenditure	75 certificates	R and D expenditure by industries will not be recorded
		others	Others	[6.1.1] Support technology based proposals from a Non-Governmental Organisations (NGOs), Women Self-Help Groups (SHGs) and other concerned agencies	Peer review of proposals by experts.	To screen the proposals received.	20 Peer reviews	Target set may not be met.
				[3.2.1] Support to innovative projects of industries with or without collaboration of R&D institutions	Peer review of proposals by experts	To screen the proposals received	10 Peer reviews	Target set may not be met
				[2.1.1] Support to innovative project proposals from individuals, start-ups and MSMEs	Peer review of proposals through TePP Outreach cum Cluster Innovation Centres (TOCICs)		150 Peer reviews	
				[5.1.1] No. of scientific journals accessed online	Readiness to offer e-journals at negotiated price by publishers. Interest to access e-journals by industry	Budget provided in the scheme limited. Access to be provided only to interested industries	To negotiate access for 10 journals to fianlize 5. Generate interest from 200 industries for providing access to 100 industries.	Target set may not be met;
[3.1.1] Organization of workshops involving technology	Need to acquire technologies by Industry;	To enable transfer of early stage technologies	50 technology seekers(industries); 10 Technology providers	Technolo-gies may not be licensed				

Section 5 : Specific Performance Requirements from other Departments

Location Type	State	Organisation Type	Organisation Name	Relevant Success Indicator	What is your requirement from this organisation	Justification for this requirement	Please quantify your requirement from this Organisation	What happens if your requirement is not met.
				providers and technology seekers	Technologies for Transfer by Technology Transfer Agencies	To enable transfer of early stage technologies	50 technology seekers(industries); 10 Technology providers	Technolo-gies may not be licensed

Section 6: Outcome/Impact of Department/Ministry

Outcome/Impact of Department/Ministry	Jointly responsible for influencing this outcome / impact with the following department (s) / ministry(ies)	Success Indicator	Unit	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16
1 Contribution towards making India a truly technology and innovation driven society through the PRISM scheme.	TePP Outreach cum Cluster Innovation Centres; Innovators and Industry	No. of knowledge-based enterprises and start-ups created	Nos.			1	3	4
		No. of Innovative products / processes successfully demonstrated by Industries	Nos.	3	8	10	12	12
2 Increased R&D spend by industry	Director General of Income Tax (E)	R&D expenditure certified u/s. 35(2AB) of Income Tax	Rs. in Crore	3500	3800	4000	4200	4400
3 Enhancing research publications and patents by industries through A2K+ Scheme.	Publishers Patent Offices Industry	No. of research papers published	Nos.			40	55	65
		No. of patents filed by Industries	Nos.			5	10	15
4 Enabling industries to manufacture "Made in India" products	Institutions & agencies having technologies for transfer; Industry	No. of "Made in India" products developed	Nos.			0	3	2
5 Improvement in business and employment opportunities for women	NGOs and SHGs	No. of businesses established by women	Nos.			1	2	3
		Employment Generated for Women	Nos.			5	10	15
6 Economic Impact Analysis of CSIR Technologies	Economic Agencies	No. of technologies for which Economic Impact Analysis (EIA) done;	Nos.		6	2	3	4

Section 6: Outcome/Impact of Department/Ministry

Outcome/Impact of Department/Ministry	Jointly responsible for influencing this outcome / impact with the following department (s) / ministry(ies)	Success Indicator	Unit	FY 11/12	FY 12/13	FY 13/14	FY 14/15	FY 15/16
		EIA for following 6 technologies completed in 2012-13: Tractor; Streptokinase; Soft Coke Oven; Rice Bran Oil; Terafil Water Filter; Ukraine Clay replacement;						
7 Contribution to S&T manpower by CSIR		Number of students awarded Junior Research Fellowships (JRFs), Senior Research Fellowships (SRFs) for Ph.Ds. including Post Doctoral and other Fellowships	Nos.	3389				

Department of Scientific and Industrial Research
RFD 2013-14: Annexure to Section 6

Measurable Parameters during 11th Five Year Plan

S.No.	Parameter	Unit	Measure/Value				
			2007-08	2008-09	2009-10	2010-11	2011-12
1.	R&D Expenditure by industry on which weighted tax deduction claimed	Rs. in Crore	667.57	1222.52	2768.78	4035.03	3590
2.	Papers Published by CSIR (Ref: CSIR Research Papers 2011 – A Report prepared by CSIR-NISCAIR and CSIR-NIIST August 1, 2012)	Nos.	3833 (2007)	3837 (2008)	3918 (2009)	4350 (2010)	4716 (2011)
3.	CSIR Papers as a percentage of total papers published from India	%age	11.83	10.47	10.28	9.41	9.43
4.	Patents filed by CSIR in India	Nos.	207	183	161	174	197
5.	Patents filed by CSIR Abroad	Nos.	256	404	179	220	290
6.	No. of fellowships awarded by CSIR for Ph.Ds, postdoctoral research etc.	Nos.	3187	4687	3952	3544	3389
7.	World Ranking (by SCIMAGO) of CSIR among Global Scientific Institutions	Rank	--	98/2124 (2009)	121/2823 (2010)	73/3042 (2011)	82/3290 (2012)
8.	National Ranking (by SCIMAGO) of CSIR among all Indian Public Funded Institutions	Rank	--	1 (2009)	1 (2010)	1 (2011)	1 (2012)