



Government of India

R F D

(Results-Framework Document)
for

Department of Science and Technology
(2013-2014)

Section 1: Vision, Mission, Objectives and Functions

Vision

To enable India becoming a global knowledge power by promoting basic research, development of cutting edge technologies and innovation for globally competitive and inclusive growth to power technology-led economic progress of the society.

Mission

To strengthen the R&D base of the country through funding, development and utilization of technologies, building entrepreneurship and innovation, fostering international S & T cooperation, popularization and demonstration, generating S&T database, mounting mission mode initiatives, attracting talent to science and rejuvenating research in university and promotion of public-private partnerships.

Objectives

- 1 Formulation of Policies relating to Science, Technology and Innovation
- 2 Strengthening Basic research and Expanding R&D base -Human Capacity
- 3 Strengthening Basic research and Expanding R&D base -Institutional Capacity
- 4 Implementing Technology Development Programs
- 5 Societal interventions of S&T
- 6 S&T co-operation / Partnerships and Alliance

Functions

- 1 Formulation of policies relating to Science and Technology.
- 2 Matters relating to the Scientific Advisory Committee of the Cabinet (SACC).
- 3 Promotion of new areas of Science and Technology with special emphasis on emerging areas. (i) Research and Development through its research institutions or laboratories for development of indigenous technologies concerning bio-fuel production, processing, standardization and applications, in co-ordination with the concerned Ministry or Department; (ii) Research and Development activities to promote utilization of by-products to development value added chemicals.
- 4 Futurology.
- 5 Coordination and integration of areas of Science & Technology having cross sectoral linkages in which a number of institutions and departments have interest and capabilities.
- 6 Undertaking or financially sponsoring scientific and technological surveys, research design and development, where necessary.

Section 1: Vision, Mission, Objectives and Functions

- 7 Support and Grants-in-aid to Scientific Research Institutions, Scientific Associations and Bodies.
- 8 All matters concerning: (a) Science and Engineering Research Board; (b) Technology Development Board and related Acts (c) National Council for Science and Technology Communication; (d) National Science and Technology Entrepreneurship Development Board; (e) International Science and Technology Cooperation including appointment of scientific attaches abroad (in close cooperation with the Ministry of External Affairs); (f) Autonomous Science and Technology Institutions relating to the subject under the Department of Science and Technology (g) Professional Science Academies promoted and funded by Department of Science and Technology; (h) The Survey of India, and National Atlas and Thematic Mapping Organisation; (i) National Spatial Data Infrastructure and promotion of G.I.S (j) The National Innovation Foundation, Ahmadabad.
- 9 Matters commonly affecting Scientific and technological departments /organisations/institutions, e.g., financial, personnel, purchase and import policies and practices.
- 10 Management Information Systems for Science and Technology and coordination thereof.
- 11 Matters regarding Inter-Agency/Inter-Departmental coordination for evolving science and technology missions.
- 12 Matters concerning domestic technology particularly the promotion of ventures involving the commercialization of such technology other than those under the Department of Scientific and Industrial Research.
- 13 All other measures needed for the promotion of science and technology and their application to the development and security of the nation.
- 14 Matters relating to institutional Science and Technology capacity building including setting up of new institutions and institutional infrastructure.
- 15 Promotion of Science and Technology at the State, District, and Village levels for grass-roots development through State Science and Technology Councils and other mechanisms.
- 16 Application of Science and Technology for weaker sections, women and other disadvantaged sections of Society.

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] Formulation of Policies relating to Science, Technology and Innovation	13.00	[1.1] Stakeholders enrollment for implementation of the Science, Technology and Innovation Policy	[1.1.1] Number of Workshops/ Seminars supported	Number	3.00	5	4	3	2	1
		[1.2] Preparation of performance reports on publications and patents for the science, technology and innovation output indicators	[1.2.1] Number of performance reports prepared	Number	3.00	5	4	3	2	1
		[1.3] Initiation of Policy Research Centres	[1.3.1] Number of Policy Research Centres initiated	Number	3.00	2	1	--	--	--
		[1.4] Development of suitable measurement systems for the science, technology and innovation output indicators for India	[1.4.1] Date of Publication of National Report on Development of the science, technology and innovation output indicators for India	Date	2.00	28/02/2014	07/03/2014	14/03/2014	21/03/2014	28/03/2014
		[1.5] Devising Performance related Incentive Systems for promoting basic research in the country	[1.5.1] Finalization/notification for the purpose of adaptation / Implementation by the concerned institutions	Date	2.00	28/02/2014	07/03/2014	14/03/2014	21/03/2014	28/03/2014
[2] Strengthening Basic research and Expanding R&D base -Human Capacity	17.00	[2.1] Number of INSPIRE awards released	[2.1.1] Number of students covered under INSPIRE award	Number	3.00	200000	190000	180000	170000	160000

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Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent	Very Good	Good	Fair	Poor
						100%	90%	80%	70%	60%
[3] Strengthening Basic research and Expanding R&D base -Institutional Capacity	13.00	[2.2] Number of INSPIRE internships covered through summer/ winter camps	[2.2.1] Number of youth attracted to summer /winter camps	Number	2.50	50000	45000	40000	35000	30000
		[2.3] Number of scholarships for Higher Education awarded	[2.3.1] Number of scholarships released	Number	2.50	10000	9500	9000	8500	8000
		[2.4] Number of INSPIRE Fellowship awarded	[2.4.1] Number of fellowships released	Number	3.00	900	800	700	650	600
		[2.5] Institution of INSPIRE faculty position	[2.5.1] Number of INSPIRE faculty position	Number	3.00	200	180	170	160	150
		[2.6] Mapping of the publications/ patents of the Indian researchers	[2.6.1] Number of status reports prepared	Number	1.50	2	1	--	--	--
		[2.7] Women scientists supported under the mobility scheme (DISHA)	[2.7.1] Number of projects / researchers supported	Number	1.50	10	9	8	7	6
		[3.1] Capacity building through Fund for infrastructure strengthening S&T (FIST)	[3.1.1] Level of utilization of competitive grants	%	6.00	100	98	95	92	90
		[3.2] Establishment of new Centers under the SAIF programme	[3.2.1] Number of Centers Established	Number	3.00	3	2	1	1	1
		[3.3] Review the performance of Promotion of University Research and Scientific Excellence (PURSE) scheme	[3.3.1] Date of submission of the review report	Date	2.00	31/12/2013	07/01/2014	14/01/2014	21/01/2014	28/01/2014

Section 2:
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Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value					
						Excellent	Very Good	Good	Fair	Poor	
						100%	90%	80%	70%	60%	
[4] Implementing Technology Development Programs	18.00	[3.4] Appraisal of Expenditure Finance Committee for Super Computing facility and Capacity building	[3.4.1] Date of appraisal of the EFC memo	Date	2.00	28/06/2013	05/07/2013	12/07/2013	19/07/2013	26/07/2013	
		[4.1] Number of technologies assisted for application and absorption	[4.1.1] Number of technologies applied and promoted	Number	2.00	40	35	30	25	20	
		[4.2] Number of convergent technology solutions for water challenges identified and selected	[4.2.1] Number of technology solutions for water found out	Number	2.00	6	5	4	3	2	
		[4.3] Initiation of Programmes envisaged in Detailed Project Report for Indigenous Solar Energy Research initiative	[4.3.1] Number of Solar Energy R&D professionals supported	Number	2.00	50	45	40	35	30	
		[4.4] PhD/M.Tech. students trained in the area of nano science and technology in the country under nano mission	[4.4.1] Quantitative number of PhD/PG outputs	Number	2.00	250	225	200	180	160	
		[4.5] Implementing new thrust areas: Cognitive science	[4.5.1] Number of researchers supported	Number	2.00	65	55	45	35	25	
		[4.6] R&D programmes for establishing knowledge networks in the areas of climate change and clean energy	[4.6.1] Number of programmes/projects taken up	Number	2.00	10	8	6	5	4	
		[4.7] Programme initiation for promotion of PPP for R&D areas and	[4.7.1] Number of projects initiated under PPP	Number	2.00	3	2	1	--	--	

Section 2:
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Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
[5] Societal interventions of S&T	14.00	Increased engagement of Private sector in R&D								
		[4.8] Biomedical devices engineering programme identified and initiated	[4.8.1] Number of prototypes of Biomedical devices demonstrated	Number	2.00	2	1	--	--	--
		[4.9] Preparing independent status report on impact/outcome of Technology Development Programmes	[4.9.1] Number of Projects reviewed and status reports submitted	Number	2.00	5	4	3	2	1
		[5.1] Assisting Technology Entrepreneurs under the National Science & Technology Entrepreneurship Development Board	[5.1.1] Number of entrepreneurs assisted	Number	2.00	140	130	120	110	100
		[5.2] Assisting micro enterprises under the National Science & Technology Entrepreneurship Development Board	[5.2.1] Number of micro enterprises assisted	Number	2.00	2650	2600	2550	2500	2450
		[5.3] Support to Women for gender parity in S&T	[5.3.1] Number of projects supported	Number	2.00	200	180	160	150	140
		[5.4] Projects supported for S&T inputs for developments of weaker sections for equity	[5.4.1] Number of projects supported	Number	2.00	70	65	60	55	50
		[5.5] Field projects and research programmes supported for science	[5.5.1] Number of projects supported	Number	1.00	225	220	215	210	200

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%
[6] S&T co-operation / Partnerships and Alliance	10.00	popularization and communication								
		[5.6] Child Scientists participation in National Children Science Congress	[5.6.1] Number of children participating the event	Number	1.00	1100000	1000000	950000	900000	850000
		[5.7] Outreach to Science Express Biodiversity Special	[5.7.1] Number of Visitors	Number	1.00	2000000	1900000	1800000	1700000	1600000
		[5.8] Implementation of programme on S&T backed interventions for tribal population	[5.8.1] Number of programme on S&T backed interventions for tribal population	Number	1.00	5	4	3	2	1
		[5.9] Launching of model demonstration projects through CSTRP for rural application	[5.9.1] Number of demonstration projects launched	Number	2.00	4	3	2	1	--
		[6.1] Signing agreements, MOUs and protocols for S&T cooperation and partnership	[6.1.1] Number of agreements signed	Number	2.00	50	45	40	35	30
		[6.2] Development and synergy of National Knowledge Network for S&T cooperation	[6.2.1] Number of Nodes developed and synergized	Number	2.00	30	28	26	24	22
		[6.3] Exchange of professional for international cooperation	[6.3.1] Number of exchange visit facilitated	Number	2.00	1200	1150	1100	1050	1000
		[6.4] Developing State S&T Councils mechanisms for S&T outreach	[6.4.1] Ratio of programmatic fund released to state S&T	Ratio	1.00	1.10	1.08	1.06	1.04	1.02

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Objective	Weight	Action	Success Indicator	Unit	Weight	Target / Criteria Value				
						Excellent 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
			Councils as a percentage of core grants sanctioned for manpower							
		[6.5] Projects sanctioned through the Joint research fund	[6.5.1] Number of research Projects funded under the Joint research fund	Number	1.00	25	22	20	18	16
		[6.6] Design of a scheme for fostering international S&T co-operation for Indian universities	[6.6.1] Preparation of DPR for the scheme	Date	0.50	28/06/2013	05/07/2013	12/07/2013	19/07/2013	26/07/2013
		[6.7] Cabinet Approval of the SFC memo on National Geographical Information System (NGIS)	[6.7.1] Date of Cabinet Approval	Date	0.50	30/09/2013	07/10/2013	14/10/2013	21/10/2013	28/10/2013
		[6.8] Improving pedagogy of science teachers under the Building Educators for Science Teaching (BEST)	[6.8.1] No of Science teachers covered	Number	1.00	2500	2450	2400	2350	2300
* 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' Charter (CCC)	% 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 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
* Administrative Reforms	6.00	Independent Audit of implementation of Public Grievance Redressal System	% of implementation	%	1.0	100	95	90	85	80
		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
		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

* 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 100%	Very Good 90%	Good 80%	Fair 70%	Poor 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] Formulation of Policies relating to Science, Technology and Innovation	[1.1] Stakeholders enrollment for implementation of the Science, Technology and Innovation Policy	[1.1.1] Number of Workshops/ Seminars supported	Number	--	--	4	6	8
	[1.2] Preparation of performance reports on publications and patents for the science, technology and innovation output indicators	[1.2.1] Number of performance reports prepared	Number	2	2	4	5	5
	[1.3] Initiation of Policy Research Centres	[1.3.1] Number of Policy Research Centres initiated	Number	--	--	1	2	2
	[1.4] Development of suitable measurement systems for the science, technology and innovation output indicators for India	[1.4.1] Date of Publication of National Report on Development of the science, technology and innovation output indicators for India	Date	--	--	07/03/2014	--	--
	[1.5] Devising Performance related Incentive Systems for promoting basic research in the country	[1.5.1] Finalization/notification for the purpose of adaptation / Implementation by the concerned institutions	Date	--	--	07/03/2014	--	--
[2] Strengthening Basic research and Expanding R&D base -Human Capacity	[2.1] Number of INSPIRE awards released	[2.1.1] Number of students covered under INSPIRE award	Number	243501	219403	190000	200000	200000
	[2.2] Number of INSPIRE internships covered	[2.2.1] Number of youth attracted to	Number	50330	55896	45000	50000	50000

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
	through summer/ winter camps	summer /winter camps						
	[2.3] Number of scholarships for Higher Education awarded	[2.3.1] Number of scholarships released	Number	5032	14050	9500	10000	10500
	[2.4] Number of INSPIRE Fellowship awarded	[2.4.1] Number of fellowships released	Number	750	871	800	900	950
	[2.5] Institution of INSPIRE faculty position	[2.5.1] Number of INSPIRE faculty position	Number	48	196	180	200	250
	[2.6] Mapping of the publications/ patents of the Indian researchers	[2.6.1] Number of status reports prepared	Number	5	4	1	2	2
	[2.7] Women scientists supported under the mobility scheme (DISHA)	[2.7.1] Number of projects / researchers supported	Number	--	--	9	10	12
	[3.1] Capacity building through Fund for infrastructure strengthening S&T (FIST)	[3.1.1] Level of utilization of competitive grants	%	100	100	98	100	100
[3] Strengthening Basic research and Expanding R&D base -Institutional Capacity	[3.2] Establishment of new Centers under the SAIF programme	[3.2.1] Number of Centers Established	Number	--	2	2	3	3
	[3.3] Review the performance of Promotion of University Research and Scientific Excellence (PURSE)	[3.3.1] Date of submission of the review report	Date	--	--	07/01/2014	--	--

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
[4] Implementing Technology Development Programs	scheme							
	[3.4] Appraisal of Expenditure Finance Committee for Super Computing facility and Capacity building	[3.4.1] Date of appraisal of the EFC memo	Date	--	--	05/07/2013	--	--
	[4.1] Number of technologies assisted for application and absorption	[4.1.1] Number of technologies applied and promoted	Number	42	46	35	50	50
	[4.2] Number of convergent technology solutions for water challenges identified and selected	[4.2.1] Number of technology solutions for water found out	Number	6	5	5	4	4
	[4.3] Initiation of Programmes envisaged in Detailed Project Report for indigenous Solar Energy Research initiative	[4.3.1] Number of Solar Energy R&D professionals supported	Number	--	--	45	50	60
	[4.4] PhD/M.Tech. students trained in the area of nano science and technology in the country under nano mission	[4.4.1] Quantitative number of PhD/PG outputs	Number	140	284	225	250	275
	[4.5] Implementing new thrust areas: Cognitive science	[4.5.1] Number of researchers supported	Number	80	65	55	65	75

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
	[4.6] R&D programmes for establishing knowledge networks in the areas of climate change and clean energy	[4.6.1] Number of programmes/projects taken up	Number	12	6	8	8	8
	[4.7] Programme initiation for promotion of PPP for R&D areas and increased engagement of Private sector in R&D	[4.7.1] Number of projects initiated under PPP	Number	1	2	2	4	4
	[4.8] Biomedical devices engineering programme identified and initiated	[4.8.1] Number of prototypes of Biomedical devices demonstrated	Number	--	--	1	2	2
	[4.9] Preparing independent status report on impact/outcome of Technology Development Programmes	[4.9.1] Number of Projects reviewed and status reports submitted	Number	4	3	4	5	5
[5] Societal interventions of S&T	[5.1] Assisting Technology Entrepreneurs under the National Science & Technology Entrepreneurship Development Board	[5.1.1] Number of entrepreneurs assisted	Number	138	140	130	140	150
	[5.2] Assisting micro enterprises under the National Science & Technology Entrepreneurship	[5.2.1] Number of micro enterprises assisted	Number	2560	2650	2600	2650	2700

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
	Development Board							
	[5.3] Support to Women for gender parity in S&T	[5.3.1] Number of projects supported	Number	283	332	180	190	200
	[5.4] Projects supported for S&T inputs for developments of weaker sections for equity	[5.4.1] Number of projects supported	Number	60	94	65	70	75
	[5.5] Field projects and research programmes supported for science popularization and communication	[5.5.1] Number of projects supported	Number	230	225	220	230	235
	[5.6] Child Scientists participation in National Children Science Congress	[5.6.1] Number of children participating the event	Number	1000000	1100000	1000000	1000000	1000000
	[5.7] Outreach to Science Express Biodiversity Special	[5.7.1] Number of Visitors	Number	--	--	1900000	2000000	2000000
	[5.8] Implementation of programme on S&T backed interventions for tribal population	[5.8.1] Number of programme on S&T backed interventions for tribal population	Number	--	5	4	5	5
	[5.9] Launching of model demonstration projects through CSTRI for rural application	[5.9.1] Number of demonstration projects launched	Number	--	3	3	4	5

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
[6] S&T co-operation / Partnerships and Alliance	[6.1] Signing agreements, MOUs and protocols for S&T cooperation and partnership	[6.1.1] Number of agreements signed	Number	47	49	45	50	55
	[6.2] Development and synergy of National Knowledge Network for S&T cooperation	[6.2.1] Number of Nodes developed and synergized	Number	28	30	28	30	32
	[6.3] Exchange of professional for international cooperation	[6.3.1] Number of exchange visit facilitated	Number	1250	1300	1150	1250	1300
	[6.4] Developing State S&T Councils mechanisms for S&T outreach	[6.4.1] Ratio of programmatic fund released to state S&T Councils as a percentage of core grants sanctioned for manpower	Ratio	1.10	1.10	1.08	1.10	1.10
	[6.5] Projects sanctioned through the Joint research fund	[6.5.1] Number of research Projects funded under the Joint research fund	Number	15	25	22	20	22
	[6.6] Design of a scheme for fostering international S&T co-operation for Indian universities	[6.6.1] Preparation of DPR for the scheme	Date	--	--	05/07/2013	--	--
	[6.7] Cabinet Approval of the SFC memo on National Geographical Information System (NGIS)	[6.7.1] Date of Cabinet Approval	Date	--	--	07/10/2013	--	--

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
	[6.8] Improving pedagogy of science teachers under the Building Educators for Science Teaching (BEST)	[6.8.1] No of Science teachers covered	Number	--	--	2450	2500	2600
* 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' Charter	% of implementation	%	--	--	95	100	100
	Independent Audit of implementation of Public Grievance Redressal System	% of implementation	%	--	--	95	100	100
* Administrative Reforms	Implement mitigating strategies for reducing potential risk of corruption	% of implementation	%	--	--	95	100	100
	Implement ISO 9001 as per the approved action plan	% of implementation	%	--	--	95	100	100
	Implement Innovation Action Plan (IAP)	% of milestones achieved	%	--	--	95	100	100
	Identification of core and non-core activities of the Ministry/Department as per 2nd ARC recommendations	Timely submission	Date	--	--	15/10/2013	--	--
* Improving Internal Efficiency/Responsiveness.	Update departmental strategy to align with 12th	Timely updation of the strategy	Date	--	--	17/09/2013	--	--

* 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
* Ensuring compliance to the Financial Accountability Framework	Plan priorities							
	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 before 31.3.2012	Percentage of outstanding ATRS disposed off during the year.	%	--	--	90	--	--

* Mandatory Objective(s)

Section 4: Acronym

Sl.No	Acronym	Description
1	BEST	Building Educators for Science Teaching
2	CSTRI	Council of Science & Technology for Rural India
3	EFC	Expenditure Finance Committee
4	FIST	Fund for Infrastructure strengthening in S&T
5	INSPIRE	Innovation in Science Pursuit for Inspired Research
6	MoU	Memorandum of Understanding
7	NGIS	National Geospatial Information System
8	PPP	Public-Private Partnership
9	PURSE	Promotion of University Research and Scientific Excellence
10	SAIF	Sophisticated Analytical Instrument Facilities
11	SEBS	Science Express- Biodiversity Special

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] Number of Workshops/ Seminars supported	Different stakeholders: civil society, science, technology and engineering practitioners; industry and business executives; NGOs and decision makers in government and publicly funded institutions and organizations.	STI Policy 2013 necessitates wide ranging national consultations with different stakeholders. Department thus seeks to organize a series of 5 regional Conferences to elicit inputs of diverse stakeholders for implementation and operationalizing the specific policy measures and mechanisms.	Number	
2	[1.2.1] Number of performance reports prepared	A number target (No. of the reports Prepared) is chosen as unit for success indicator.	Department is committed for preparation of performance reports on publications and patents for the science, technology and innovation.	Number	
3	[1.3.1] Number of Policy Research Centres initiated	New Policy Research Centres in elite institutions/ universities would be in a better position to undertake several studies as they have necessary infrastructure, facilities and expertise.	Initiation to establish of Policy Research Centres in the elite institutions/ universities to undertake several studies and efforts to be engaged in: Commissioned Study Reports, commissioning policy research studies, development of STI	Number	

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
3	[1.3.1] Number of Policy Research Centres initiated	New Policy Research Centres in elite institutions/ universities would be in a better position to undertake several studies as they have necessary infrastructure, facilities and expertise.	indicators for India, inter-country policy comparison studies.	Number	
4	[1.4.1] Date of Publication of National Report on Development of the science, technology and innovation output indicators for India	Department will publish a National Report on Development of the science, technology and innovation output indicators for India	Department has already developed the suitable measurement systems for the science, technology and innovation output indicators for India. Date of Publication of National Report on Development of the science, technology and innovation output indicators for India will be the appropriate success indicator.	Date	
5	[1.5.1] Finalization/notification for the purpose of adaptation / Implementation by the concerned institutions	Devising Performance related Incentive Systems for promoting basic research in the country	Devising Performance related Incentive Systems for promoting basic research in the country has been already complemented by the Department. Date of finalization/notification for the purpose of	Date	

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
5	[1.5.1] Finalization/notification for the purpose of adaptation / Implementation by the concerned institutions	Devising Performance related Incentive Systems for promoting basic research in the country	adaptation / implementation by the concerned institutions will be the appropriate success indicator.	Date	
6	[2.1.1] Number of students covered under INSPIRE award	The number of such components clearly demonstrates the depth of penetration and reach of these schemes across the country. Selection is done through a competitive process with transparency.	The implementation of INSPIRE Awards are captured by number of awards.	Number	In order to seed and experience the joy of innovation, every year two lakh school children in the age-group of 10 to 15 years i.e., 6th to 10th standards are being identified for the INSPIRE award. Each INSPIRE Award envisions an investment of Rs.5,000/- per child.
7	[2.2.1] Number of youth attracted to summer /winter camps	The number of such components clearly demonstrates the depth of penetration and reach of these schemes across the country. Selection is done through a competitive process with transparency.	The implementation of INSPIRE Internships, are captured by number of students attracted and motivated to the study of science at an early age.	Number	The basic objective of INSPIRE internship is to attract and motivate young talent to the study of science at an early age and to take-up research as a personal undertaking and thus build the required critical human resource pool. This scheme attracts youth to summer /winter camps for 5 days in which they get opportunity to interact with eminent scientists and academicians of all science

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
7	[2.2.1] Number of youth attracted to summer/winter camps	The number of such components clearly demonstrates the depth of penetration and reach of these schemes across the country. Selection is done through a competitive process with transparency.	The implementation of INSPIRE Internships, are captured by number of students attracted and motivated to the study of science at an early age.	Number	subjects.
8	[2.3.1] Number of scholarships released	The number of such components clearly demonstrates the depth of penetration and reach of these schemes across the country. Selection is done through a competitive process with transparency.	The implementation of INSPIRE Scholarships for Higher Education (SHE), are captured by number of scholarships awarded.	Number	Scheme offers 10,000 scholarships every year @ Rs.80,000/- each for undertaking Bachelor and Masters level education in the Natural & Basic sciences.
9	[2.4.1] Number of fellowships released	The number of such components clearly demonstrates the depth of penetration and reach of these schemes across the country. Selection is done through a competitive process with transparency.	The implementation of INSPIRE Fellowships are captured by number of Fellowships awarded.	Number	The INSPIRE Fellowship scheme aims at enhancing research fellowships for doctoral studies and opening up partnerships with private sector for topping the Government's efforts in nurturing talents for scientific research.
10	[2.5.1] Number of INSPIRE faculty position	The number of such components clearly demonstrates the depth of penetration and reach of these schemes across the country. Selection is done through a competitive process with transparency.	The implementation of INSPIRE Faculty positions are captured by number of faculty positions awarded.	Number	INSPIRE Faculty Scheme opens up an 'Assured Opportunity for Research Career (AORC)' for young researchers in the age group of 27-32 years. It is expected to augment high quality

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
10	[2.5.1] Number of INSPIRE faculty position	The number of such components clearly demonstrates the depth of penetration and reach of these schemes across the country. Selection is done through a competitive process with transparency.	The implementation of INSPIRE Faculty positions are captured by number faculty positions awarded.	Number	scientific manpower in scientific and educational institutions. It provides attractive opportunities to young achievers for developing independent scientific profiles and intends helping them emerge as S&T leaders in the long term. The Scheme offers contractual research positions.
11	[2.6.1] Number of status reports prepared	A number of status reports prepared per year as an indicator of competitiveness of India will give the right measurement method.	To measure the R&D competitiveness of the country, the Department generates some status reports on mapping of the publications/patents of the Indian researchers in Indexed Journals.	Number	
12	[2.7.1] Number of projects / researchers supported	To increase the contribution of women scientists to science, technology and development. Number of women scientists supported is appropriate success indicator.	Programme for the employed women scientists for mid-career mobility within the country.	Number	
13	[3.1.1] Level of utilization of competitive grants	The level of funds utilized is appropriate success indicator.	A developmental programme in universities & higher educational institutions where the infrastructure building is a centre of	% of fund utilized.	

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
13	[3.1.1] Level of utilization of competitive grants	The level of funds utilized is appropriate success indicator.	concern.	% of fund utilized.	
14	[3.2.1] Number of Centers Established	The programme provides facilities of sophisticated analytical instruments to researchers so as to help them in R&D activities.	Department proposes to establishment some new Centers under SAIF during 2013-14.	Number	
15	[3.3.1] Date of submission of the review report	Review of the performance of the universities is under process. Date of submission of the review report is appropriate success indicator.	To Support Research Infrastructure in Performing Universities under PURSE is based on h-index of the universities.	Date	
16	[3.4.1] Date of appraisal of the EFC memo	Preparation and circulation of Expenditure Finance Committee (EFC) Memo for Super Computing facility and Capacity building in collaboration with Department of Electronics and Information Technology (DeitY). Date of appraisal of the EFC memo is appropriate success indicator.	To make India a leader in supercomputing and make petaflop supercomputer a programme has been initiated in 12th Plan.	Date	

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
17	[4.1.1] Number of technologies applied and promoted	Number target in technology assisted and promoted, will clearly demonstrate the progressive development, reach and depth of penetration of the programme.	The Department is implementing Technology Development Programmes aimed at technology development and transfer in identified niche areas. The programme supports activities at developing and integrating technologies to evolve technology systems both in the advanced/emerging areas and in traditional sectors/areas. Under the programme, feasibility of newer ideas/concept is assessed for their potential conversion into useful technology/product.	Number	
18	[4.2.1] Number of technology solutions for water found out	Number target in convergent water technology solutions, will clearly demonstrate the progressive development, reach and depth of penetration of the programme.	The programme supports activities at developing and integrating technologies to evolve technology systems for convergent water technology solutions.	Number	

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

Sl.No	Success Indicator	Description	Definition	Measurement	General Comments
19	[4.3.1] Number of Solar Energy R&D professionals supported	Projects supported under Solar Energy Initiative, using a number target shows the progressive development, reach and depth of penetration of the programme.	The Department is implementing Technology Development Programmes aimed at technology development and transfer in identified niche areas. The programme supports activities at developing and integrating technologies to evolve technology systems both in the advanced/emerging areas and in traditional sectors/areas. Under the programme, feasibility of newer ideas/concept is assessed for their potential conversion into useful technology/product.	Number	
20	[4.4.1] Quantitative number of PhD/PG outputs	Using a number target to train and nurture human resource in the area of Nano Science and Technology, in Nano Mission programmes, will clearly demonstrate the progressive development, reach and depth of penetration of the programme.	In order to train and nurture human resource in the area of Nano Science and Technology, the Nano Mission provides effective education and training to researchers and professionals in	Number	

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
20	[4.4.1] Quantitative number of PhD/PG outputs	Using a number target to train and nurture human resource in the area of Nano Science and Technology, in Nano Mission programmes, will clearly demonstrate the progressive development, reach and depth of penetration of the programme.	diversified fields through its Ph.D./M.Sc./M. Tech. programmes.	Number	
21	[4.5.1] Number of researchers supported	Number of researchers for Ph.D. and Post Doc fellowships supported is appropriate success indicator.	A special initiative has been taken to revolutionize research in Cognitive Science.	Number	
22	[4.6.1] Number of programmes/projects taken up	Number of programmes/ projects taken up is appropriate success indicator.	For the programme of strengthening of human capacity in research in identified thrust areas in Atmospheric Sciences and knowledge networks in the areas of climate change and clean energy.	Number	
23	[4.7.1] Number of projects initiated under PPP	Number of projects initiated under PPP is the suitable success indicator.	Initiative has been taken for promotion of PPP for R&D areas and increased engagement of Private sector in R&D.	Number	

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
24	[4.8.1] Number of prototypes of Biomedical devices demonstrated	Department has decided to identify and initiate a few programmes for Development of Biomedical devices engineering.	Number of prototypes of Biomedical devices demonstrated is the suitable success indicator.	Number	
25	[4.9.1] Number of Projects reviewed and status reports submitted	Number of Projects reviewed and status reports submitted is the right measurement method.	The Department has committed to preparing independent status report on impact/ outcome of Technology Development Programmes.	Number	
26	[5.1.1] Number of entrepreneurs assisted	All activities under the societal interventions are measured in number terms which show a visible impact of the objective.	NSTEDB promotes and develops high-end entrepreneurship for S&T manpower as well as self-employment by utilizing S&T infrastructure and by using S&T methods. NSTEDB networks agencies of the support system, academic institutions and R&D organizations to foster entrepreneurship and self-employment using S&T with special focus on backward areas as well.	Number	All activities under the societal interventions are measured in number terms which show a visible impact of the objective. The number of entrepreneurs assisted, support to women, field projects for science popularization, projects developed for tribal and other weaker sections and S&T backed entrepreneurship for tribal population indicates the reach of the programme. Launching of model demonstration projects through CSTRl for rural application included under this objective also has the

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
26	[5.1.1] Number of entrepreneurs assisted	All activities under the societal interventions are measured in number terms which show a visible impact of the objective.	NSTEDB promotes and develops high-end entrepreneurship for S&T manpower as well as self-employment by utilizing S&T infrastructure and by using S&T methods. NSTEDB networks agencies of the support system, academic institutions and R&D organizations to foster entrepreneurship and self-employing using S&T with special focus on backward areas as well.	Number	number target as the success indicator.
27	[5.2.1] Number of micro enterprises assisted	All activities under the societal interventions are measured in number terms which show a visible impact of the objective.	NSTEDB promotes and develops high-end entrepreneurship for S&T manpower as well as self-employment by utilizing S&T infrastructure and by using S&T methods. NSTEDB networks agencies of the support system, academic institutions and R&D organizations to foster entrepreneurship and self-employing using S&T with special focus on	Number	

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
27	[5.2.1] Number of micro enterprises assisted	All activities under the societal interventions are measured in number terms which show a visible impact of the objective.	backward areas as well.	Number	
28	[5.3.1] Number of projects supported	All activities under the societal interventions are measured in number terms which show a visible impact of the objective.	The broad objectives are providing opportunities to motivated scientists and field level workers to take up action oriented and location specific projects aiming towards socio-economic upliftment of poor and disadvantaged sections of the society through appropriate technological interventions especially in the rural areas.	Number	
29	[5.4.1] Number of projects supported	same as above	Same as above	number	
30	[5.5.1] Number of projects supported	Same as above	Same as above	Number	

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
31	[5.6.1] Number of children participating the event	The number clearly demonstrates the depth of penetration and reach of these schemes across the country.	To communicate science and technology among the young children and people and inculcate scientific temper among them.	Number	
32	[5.7.1] Number of Visitors	The number of Visitors will clearly demonstrates popularization of the Scheme.	To communicate science and technology among the young children and people and inculcate scientific temper among them. DST, in a unique collaboration with Ministry of Environment & Forests launched an innovative exhibition mounted on its Science Express rake as Biodiversity Special.	Number	
33	[5.8.1] Number of programme on S&T backed interventions for tribal population	The number of such components clearly demonstrates the depth of penetration and reach of these schemes across the country.	Implementation of programmes on S&T backed interventions for tribal population	Number	
34	[5.9.1] Number of demonstration projects launched	The number of such components clearly demonstrates the depth of penetration and reach of these schemes across the country.	Model demonstration of several projects through CSTRJ for rural application included under this objective also has the number target as the	Number	

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
34	[5.9.1] Number of demonstration projects launched	The number of such components clearly demonstrates the depth of penetration and reach of these schemes across the country.	success indicator.	Number	
35	[6.1.1] Number of agreements signed	Well captured in terms of the number target.	International S&T cooperation are well captured in terms of the number of MoUs signed.	Number	
36	[6.2.1] Number of Nodes developed and synergized	Well captured in terms of the number target.	International S&T cooperation was well captured in terms of the number of MoUs signed, project sanctioned through Joint research fund and exchange of professional for international cooperation.	Number	
37	[6.3.1] Number of exchange visit facilitated	Well captured in terms of the number target.	International S&T cooperation are well captured in terms of the number of exchange of professional for international cooperation.	Number	

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
38	[6.4.1] Ratio of programmatic fund released to state S&T Councils as a percentage of core grants sanctioned for manpower	Every state has its own S&T programme DST as a nodal Department extends necessary expertise and financial assistance to strengthen their R&D base.	For improving State-Center cooperation in S&T, a parameter like ratio of programmatic fund to core fund has been designed for measuring S&T outreach.	Ratio of fund release	
39	[6.5.1] Number of research Projects funded under the Joint research fund	Well captured in terms of the number target.	International S&T cooperation are well established in terms of the number of projects sanctioned through Joint research fund.	Number	
40	[6.6.1] Preparation of DPR for the scheme	Preparation of DPR in correct format is an established procedure to obtain approval of the competent authority.	It has been proposed to design a scheme for international S&T co-operation for Indian universities. Preparation of a DPR for this scheme is required and a date target has been assigned for this.	Date of Preparation of the DPR	
41	[6.7.1] Date of Cabinet Approval	An established procedure to obtain approval of the Cabinet.	Cabinet Approval of the SFC memo on National Geospatial Information System (NGIS) is sought.	Date of approval	

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
42	[6.8.1] No of Science teachers covered	New initiative to improve the quality of science teachers at the gross-root level.	No. of Science teachers covered from Kendriya Vidyalaya, Jawahar Navodaya Vidyalaya for improving pedagogy of science teachers under the BEST scheme is right measurement method.	Number	

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	Departments		Department of Information Technology	[3.4.1] Date of appraisal of the EFC memo	Partnership in implementation	They are the main partner Department/ Ministry in Super Computing facility and Capacity building	Their full co-operation in implementing the project	Their support is vital and critical
			Department of Higher Education	[2.3.1] Number of scholarships released		They are the controlling department for and would help in identification of students to be supported	Their partnership would increase the reach and spread of the Programme	
				[2.4.1] Number of fellowships released [2.5.1] Number of INSPIRE faculty position				
	Ministry		Ministry of Railways	[5.7.1] Number of Visitors	Partnership for implementation	They are the main partner Ministry for providing Rail Coaches and its operation across country	Their partnership would increase the outreach and spread of the Science Express (Biodiversity Special)	
			Ministry of External Affairs	[6.1.1] Number of agreements signed [6.2.1] Number of Nodes developed and synergized [6.3.1] Number of exchange visit facilitated [6.5.1] Number of research Projects	Partnership in implementation	They are the main Ministry for external relations and our agreements are within the frame work of country cooperation	For enhancing Technology Diplomacy with relevant Nations their support is required	The number of agreements, MoUs and protocols will get affected

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.
				funded under the Joint research fund				
			Ministry of Environment and Forests	[5.7.1] Number of Visitors	Partnership, MoU for implementation	They are the main partner Ministry for providing materials inside the coaches	Their partnership would increase the outreach and spread of the Science Express (Biodiversity Special)	Their support is vital and critical
State Government	Assam	Departments	State Departments	[2.1.1] Number of students covered under INSPIRE award [2.3.1] Number of scholarships released	Partnership in implementation	They have presence at the implementation levels and are linked to the State mechanism	Their partnerships would enhance the effectiveness of the Programme	We will have to identify alternate mechanisms

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 Global share of publications	R&D organizations, Universities, and Scientific institutions/ colleges research centers	% share of publication	%	3.5	3.5	3.5-3.7		
2 CAGR of S&T output in Publications	R&D organizations, Universities, and Scientific institutions/ colleges	% growth of publication	%	10.0	10.0	12.0		
3 CAGR of S&T output in Patents	R&D organizations, Universities, and Scientific institutions/ colleges	% growth of patents	%	8.0	8.0	8.0		
4 Ph.D. output in Science sector	R&D organizations, Universities, and Scientific institutions/ colleges	Total no. of Ph.D. produced	Number	5809		8800		
5 Private sector engagement in R&D	Industries/ Private Institutions and R&D organizations	% of Private sector investment in R&D	%	26	26	33		
6 Technology Scoping on per capita income (district level)	Central and State Government, NGO's, R&D organizations	% Growth in per capita income (district level)	%					
7 Technology commercialization for public funded R&D	Central Government, R&D organizations, Universities, Scientific institutions	% share of high technology content in import from India (US Index)	%					

