



Government of India

R F D

(Results-Framework Document)
for

Department of Bio-Technology
(2013-2014)

Section 1: Vision, Mission, Objectives and Functions

Vision

To take bioscience to new heights, promote interdisciplinary research, create biotechnology tools and technologies that address the problems of agriculture productivity, food production, nutrition security, health care and environmental sustainability by providing new and emerging technology, products and services at affordable prices, generate employment opportunities and make India globally competitive in the emerging bio-economy.

Mission

Accelerating the pace of research, innovation, development and technology transfer to advance biotechnology as strategic area by taking India's strengths in foundational sciences to globally competitive levels and expanding the application of biotechnologies for overall growth of bio-economy within the framework of inclusive development to: (i) ensure availability of required numbers of world class scientists and professionals relevant to R&D and technology development alongwith a well trained and skilled technical work force for industry. (ii) establish adequate infrastructure, biotechnology incubators and clusters. (iii) catalyze early stage innovation through investments and support services. (iv) engage public-private partnerships for development of products of social relevance for applications in agriculture, healthcare, environment and industry. (v) provide a fiscal, regulatory and legal framework that encourages risk taking by investors.

Objectives

- 1 Promotion of specialized human resource for frontier research and education.
- 2 Setting up of high-end specialized centres/units for basic and translational research across sectors.
- 3 Major programmes on science for societal benefit in the context of food security, climate resilient crops, affordable healthcare and nutrition.
- 4 Promote translation R&D and Technology development / transfer agriculture / health care technologies.
- 5 Reforms in process and infrastructure for implementation of biotechnology regulation.
- 6 Promoting Institutional framework for public awareness and understanding.

Functions

- 1 To evolve policies and integrated programmes in biotechnology and ensure their implementation and monitoring.
- 2 To identify specific programmes of Research and Development and manufacturing in biologicals and biotechnology and oversee the initiation and pursuit of related research and manufacturing activities.
- 3 To identify, set up and support Centres of Excellence for Research and Development in biotechnology and ensure proper dovetailing of their activities as per national priorities and objectives.

Section 1: Vision, Mission, Objectives and Functions

- 4 To act as a screening, advising and approving agent of the Government with regard to import and transfer of new technologies for the manufacture of biologicals, biotechnological products and their intermediates.
- 5 Evolve safety guidelines for biotechnology Research and Development and manufacturing in India.
- 6 To act as the central agency for the import of genetically manipulated materials, culture, cells, specimens, tissues and biotech products including DNA and RNA of any type or size and for promoting their production in the country.
- 7 Serve as the inter-ministerial and interagency nodal point for all specific international bilateral and multilateral Research and Development collaborations and agreements in the area of biotechnology; act as the nodal point for all technology transfers in the area of biotechnology.
- 8 Manufacture and ensure application of recombinant, cell-based and DNA vaccines, diagnostics and other biotechnological products.
- 9 To evolve programmes for Human Resource Development in the area of biotechnology.
- 10 Serve as an administrative and implementing Department of agencies, commissions, boards, etc. specifically formed by the Government for fulfilling the national objectives in biotechnology and also to serve as the nodal point for Bio-informatics including training and creation of infrastructure, collection, dissemination and exchange of information relating to biotechnology.
- 11 Establishment of National Biotechnology Regulatory Authority.
- 12 Matters relating to: International Centre for Genetic Engineering and Biotechnology, New Delhi; National Institute of Immunology, New Delhi; National Centre for Cell Sciences, Pune; Centre for DNA Fingerprinting & Diagnostics, Hyderabad; National Institute for Plant Genome Research, New Delhi; National Brain Research Centre, Manesar, Gurgaon; Institute for Bioresource and Sustainable Development, Imphal; Institute of Life Sciences, Bhubneshwar; Translational Research in Health Science and Technology Institute Faridabad; Rajiv Gandhi Centre for Biotechnology, Trivanthapuram; UNESCO Regional Centre for Education, Training & Innovation in Biotechnology, Faridabad; National Institute of Biomedical Genomics, Kolkata; Institute for Stem Cell Science and Regenerative Medicine, Bangalore; National Agri-Food Biotechnology Institute and Bioprocessing Unit at Mohali, Punjab; National Institute of Animal Biotechnology, Hyderabad.
- 13 Matters relating to: Bharat Immunologicals and Biologicals Corporation Limited (BIBCOL), Bulandshahar, Uttar Pradesh; and Indian Vaccines Corporation Limited (IVCOL), Manesar, Gurgaon.

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%
[1] Promotion of specialized human resource for frontier research and education.	10.00	[1.1] Independent evaluation of ongoing programmes and future human resource requirements in life sciences in biotechnology.	[1.1.1] Date of completion	Date	5.00	31/12/2013	31/01/2014	28/02/2014	31/03/2014	--
		[1.2] Launching of training programme for regulatory science capacity.	[1.2.1] Date of launching	Date	2.50	30/09/2013	31/10/2013	30/11/2013	31/12/2013	31/01/2014
		[1.3] Re-design of selected university life science departments for advanced research and education.	[1.3.1] Number of Universities benefitted	Number	2.50	5	4	3	2	1
[2] Setting up of high-end specialized centres/units for basic and translational research across sectors.	20.00	[2.1] Specialized centres/units for bioenergy (1), HIV-TB (2), Drug Development (1), Human Metabolome (1), Animal Facilities (3), High-end DNA sequencing services (1).	[2.1.1] Date of launching	Date	10.00	31/01/2014	28/02/2014	31/03/2014	--	--
			[2.1.2] Number of units	Number	10.00	9	7	5	3	1
[3] Major programmes on science for societal benefit in the context of food security, climate resilient crops, affordable healthcare and nutrition.	10.00	[3.1] Launching social innovation schemes through public private partnership.	[3.1.1] Date of launching	Date	2.50	30/09/2013	31/10/2013	30/11/2013	31/12/2013	31/01/2014
			[3.1.2] Number of Network Programme started	Number	2.50	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 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
[4] Promote translation R&D and Technology development / transfer agriculture / health care technologies.	20.00	[3.2] Launching of Billgate and Melinda foundation – DBT partnership programme for development of affordable biotech solutions in agriculture, animal husbandry and healthcare.	[3.2.1] Date of launching	Date	2.50	30/09/2013	31/10/2013	30/11/2013	31/12/2013	31/01/2014
			[3.2.2] Number of Network Programme started	Number	2.50	4	3	2	1	0
		[4.1] Validation and clinical trial of vaccines for dengue (Phase-I); malaria (preclinical); and rotavirus diarrhea (Phase-IV) and swine fever (Phase-I) by 31/03/2014.	[4.1.1] Number of vaccines	Number	8.00	4	3	2	1	0
			[4.2.1] Number of entries in National Breeding Programme for commercial use.	Number	5.00	20	18	16	14	12
		[4.2] Validation of field trials of varieties developed by molecular breeding in chickpea with wilt resistance; drought tolerant wheat and soybean with low level of trypsin and salt tolerant rice.								
		[4.3] Validation and clinical trial of therapeutic formulations for acute malnutrition and related infections.	[4.3.1] Number of formulation	Number	5.00	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 100%	Very Good 90%	Good 80%	Fair 70%	Poor 60%
[5] Reforms in process and infrastructure for implementation of biotechnology regulation.	20.00	[4.4] Evaluation of scientific and socio-economic impact of projects implemented and technologies developed by the autonomous institutions of DBT.	[4.4.1] Date of Completion	Date	2.00	31/01/2014	28/02/2014	31/03/2014	--	--
		[5.1] Establishment of biosafety assessment unit with multi-disciplinary experts for scrutiny of safety dossiers.	[5.1.1] Date of launching	Date	10.00	31/12/2013	31/01/2014	28/02/2014	31/03/2014	31/03/2014
		[5.2] Setting up of coordinating agency for notification / accreditation of regulatory testing facilities.	[5.2.1] Date of launching	Date	5.00	31/12/2013	31/01/2014	28/02/2014	31/03/2014	31/03/2014
		[5.3] Launching of comprehensive biosafety portal for online submission of applications and knowledge dissemination on biosafety issues.	[5.3.1] Date of launching	Date	5.00	30/09/2013	31/10/2013	30/11/2013	31/12/2013	31/01/2014
[6] Promoting Institutional framework for public awareness and understanding.	5.00	[6.1] Institutionalization of biotechnology communication system through inter-ministerial participation.	[6.1.1] Date of launching	Date	5.00	30/11/2013	31/12/2013	31/01/2014	28/02/2014	31/03/2014

* 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%
* 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
		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
		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

* 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%
		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] Promotion of specialized human resource for frontier research and education.	[1.1] Independent evaluation of ongoing programmes and future human resource requirements in life sciences in biotechnology.	[1.1.1] Date of completion	Date	--	--	31/01/2014	--	--
	[1.2] Launching of training programme for regulatory science capacity.	[1.2.1] Date of launching	Date	--	--	31/10/2013	--	--
	[1.3] Re-design of selected university life science departments for advanced research and education.	[1.3.1] Number of Universities benefitted	Number	--	--	4	--	--
[2] Setting up of high-end specialized centres/units for basic and translational research across sectors.	[2.1] Specialized centres/units for bioenergy (1), HIV-TB (2), Drug Development (1), Human Metabolome (1), Animal Facilities (3), High-end DNA sequencing services (1).	[2.1.1] Date of launching	Date	--	--	28/02/2014	--	--
		[2.1.2] Number of units	Number	--	--	7	--	--
[3] Major programmes on science for societal benefit in the context of food security, climate resilient crops, affordable healthcare and	[3.1] Launching social innovation schemes through public private partnership.	[3.1.1] Date of launching	Date	--	--	30/09/2013	--	--

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
nutrition.	[3.2] Launching of Billgate and Melinda foundation – DBT partnership programme for development of affordable biotech solutions in agriculture, animal husbandry and healthcare.	[3.1.2] Number of Network Programme started	Number	--	--	3	--	--
		[3.2.1] Date of launching	Date	--	--	31/10/2013	--	--
[4] Promote translation R&D and Technology development / transfer agriculture / health care technologies.	[4.1] Validation and clinical trial of vaccines for dengue (Phase-I); malaria (preclinical); and rotavirus diarrhea (Phase-IV) and swine fever (Phase-I) by 31/03/2014.	[3.2.2] Number of Network Programme started	Number	--	--	3	--	--
		[4.1.1] Number of vaccines	Number	--	--	3	--	--
	[4.2] Validation of field trials of varieties developed by molecular breeding in chickpea with wilt resistance; drought tolerant wheat and soybean with low level of trypsin and	[4.2.1] Number of entries in National Breeding Programme for commercial use.	Number	--	--	18	--	--

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
[5] Reforms in process and infrastructure for implementation of biotechnology regulation.	salt tolerant rice.							
	[4.3] Validation and clinical trial of therapeutic formulations for acute malnutrition and related infections.	[4.3.1] Number of formulation	Number	--	--	3	--	--
	[4.4] Evaluation of scientific and socio-economic impact of projects implemented and technologies developed by the autonomous institutions of DBT.	[4.4.1] Date of Completion	Date	--	--	28/02/2014	--	--
	[5.1] Establishment of biosafety assessment unit with multi-disciplinary experts for scrutiny of safety dossiers.	[5.1.1] Date of launching	Date	--	--	31/01/2014	--	--
	[5.2] Setting up of coordinating agency for notification / accreditation of regulatory testing facilities.	[5.2.1] Date of launching	Date	--	--	31/01/2014	--	--
	[5.3] Launching of comprehensive biosafety portal for online submission of applications and knowledge dissemination on	[5.3.1] Date of launching	Date	--	--	31/10/2013	--	--

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
	biosafety issues.							
[6] Promoting Institutional framework for public awareness and understanding.	[6.1] Institutionalization of biotechnology communication system through inter-ministerial participation.	[6.1.1] Date of launching	Date	--	--	31/12/2013	--	--
* 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	--	--
* 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	Timely submission	Date	--	--	15/10/2013	--	--

* 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	2nd ARC recommendations							
	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	1	The objectives will be met as proposed in the 12th Plan (2012-2017) and Annual Plan (2013-2014) under the schemes "biotech facilities". Pending the enactment of Biotechnology Regulatory Authority of India (BRAI) Bill 2013 in the Parliament, steps are being taken to strengthen the regulatory system as per the directives of Parliamentary Standing Committee on cultivation of GM crops and developments in the supreme court case hearings on the subject. All the actions are in synergy with proposed elements of BRAI Bill, therefore these establishments could be merged with BRAI at later date.

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] Date of completion	The other two activities are part of the schemes biotech facilities and research and development to address the needs of capacity building in regulatory aspects of safety assessment of biotech products and building interdisciplinary research capacity in universities.	The activity undertaken as a part of suggestion by the ATC in the previous reviews through a bidding process of potential agencies. The result will be presented as they are ready as per the timeline.	Timelines are based on ongoing commitments. The number of universities through a competitive grant system selected for upgradation is as per the targets of Annual Plan 2013-2014.	Nil
2	[2.1.2] Number of units	The activities are implemented under the following schemes: biotech facilities; promotion for excellence & innovation and research & development as per the targets proposed in the Annual Plan (2013-2014).	The activities are implemented under the following schemes: biotech facilities; promotion for excellence & innovation and research & development as per the targets proposed in the Annual Plan (2013-2014).	The number of such units / facilities and time taken to start in the Annual Plan 2013-2014 as proposed to Planning Commission justify measurement indicators chosen.	Nil
3	[3.1.1] Date of launching	These programmes require extensive planning and targeted investments involving several stakeholders alongwith participatory value chain therefore international collaboration and partnership with private sector are envisaged before launching the projects to fulfill the articulated vision of the 12th Plan of the Department.	These activities covered under "i&M Sector" under the scheme "Public Private Partnerships-Biotechnology Industry Partnership Programme (BIPP)" scheme approved by cabinet and the major schemes "International Collaboration".	Time of launching and commissioning of target number of project as per the scheme following the technical and financial appraisal process.	Nil

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
4	[3.2.2] Number of Network Programme started	These programmes require extensive planning and targeted investments involving several stakeholders alongwith participatory value chain therefore international collaboration and partnership with private sector are envisaged before launching the projects to fulfill the articulated vision of the 12th Plan of the Department.	These activities covered under "I&M Sector" under the scheme "Public Private Partnerships-Biotechnology Industry Partnership Programme (BIPPP)" scheme approved by cabinet and the major schemes "International Collaboration".	Time of launching and commissioning of target number of project as per the scheme following the technical and financial appraisal process.	Nil
5	[4.1.1] Number of vaccines	The outcomes of various projects reflected in the RFDs since 2010-2011 have come to a logical conclusion for various steps towards commercialization and expected impact on society. Therefore, in continuity these activities have been incorporated.	The expenditure on these activities shall be met out of schemes "Research and Development".	Number chosen as success indicator reflect opportunity for commercial use of ongoing technologies in pipeline at various stages of development to have desired outcome in agriculture and healthcare and nutrition.	Nil
6	[4.2.1] Number of entries in National Breeding Programme for commercial use.	The outcomes of various projects reflected in the RFDs since 2010-2011 have come to a logical conclusion for various steps towards commercialization and expected impact on society. Therefore, in continuity these activities have been incorporated.	The expenditure on these activities shall be met out of schemes "Research and Development".	Number chosen as success indicator reflect opportunity for commercial use of ongoing technologies in pipeline at various stages of development to have desired outcome in agriculture and healthcare	Nil

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
6	[4.2.1] Number of entries in National Breeding Programme for commercial use.	The outcomes of various projects reflected in the RFDs since 2010-2011 have come to a logical conclusion for various steps towards commercialization and expected impact on society. Therefore, in continuity these activities have been incorporated.	The expenditure on these activities shall be met out of schemes "Research and Development".	and nutrition.	Nil
7	[4.3.1] Number of formulation	The outcomes of various projects reflected in the RFDs since 2010-2011 have come to a logical conclusion for various steps towards commercialization and expected impact on society. Therefore, in continuity these activities have been incorporated.	The expenditure on these activities shall be met out of schemes "Research and Development".	Number chosen as success indicator reflect opportunity for commercial use of ongoing technologies in pipeline at various stages of development to have desired outcome in agriculture and healthcare and nutrition.	Nil
8	[5.1.1] Date of launching	Pending the enactment of Biotechnology Regulatory Authority of India (BRAI) Bill 2013 in the Parliament, steps are being taken to strengthen the regulatory system as per the directives of Parliamentary Standing Committee on cultivation of GM crops and developments in the supreme court case hearings on the subject.	The objectives will be met as proposed in the 12th Plan (2012-2017) and Annual Plan (2013-2014) under the schemes "biotech facilities".	The time to launch all these programmes have become time bound due to the directives of Planning Commission and the Parliament Committees.	Nil

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

Sl.No	Success indicator	Description	Definition	Measurement	General Comments
8	[5.1.1] Date of launching	All the actions are in synergy with proposed elements of BRAI Bill, therefore these establishments could be merged with BRAI at later date.	The objectives will be met as proposed in the 12th Plan (2012-2017) and Annual Plan (2013-2014) under the schemes "biotech facilities".	The time to launch all these programmes have become time bound due to the directives of Planning Commission and the Parliament Committees.	Nil
9	[6.1.1] Date of launching	This will be the major initiative as an outcome of inter-ministerial meeting taken by the Planning Commission and budget made available with a timeline in 2013-2014 considering the mandate of the department.	This will be the major initiative as an outcome of inter-ministerial meeting taken by the Planning Commission and budget made available with a timeline in 2013-2014 considering the mandate of the department.	Time to launch important parameter for a system with multiple benefits.	Nil

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 Agricultural Research and Education	[5.1.1] Date of launching	cooperation in terms of expertise made available for risk assessment and agronomic evaluation.	joint resposibility in safety assesemnt fromall india crop schemes and expertise	number experts availability	activity will be incomplete
				[5.2.1] Date of launching				
				[5.3.1] Date of launching				
				[4.1.1] Number of vaccines	Regulatory clearance in terms of timely approvals for conduct of clinical trials.	The department administers drugs and cosmetic act	Regulatory clearnances	Delay
	Ministry		Department Of Agricultural Research and Education	[4.2.1] Number of entries in National Breeding Programme for commercial use.	Cooperation from the crop coordinators for evaluation of the germ plasm in the all india trials of ICAR.	The ministry has all india crops schemes for performance evaluation of new varieties	Number of entries permitted	Delay and incomplete action
				[5.1.1] Date of launching	cooperation in terms of necessary notification required for accreditation / notifications of regulatory testing laboratories for genetically engineered products in agriculture and	MOEF administers regulation under EPA act	Authorisation for reforms	delay

**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.
		Ministry	Ministry of Environment and Forests	[5.1.1] Date of launching [5.2.1] Date of launching [5.3.1] Date of launching	healthcare.	MOEF administers regulation under EPA act	Authorisation for reforms	delay

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 Streamlining regulatory framework safety assessment and commercial use of genetically engineered products	Ministries of Agriculture, health and family welfare; and Environment and forests. The impact will be in terms of number of new GM crop varieties available to farmers for increasing productivity and other socio-economic gains. The activity would be also measured in terms of number of products in healthcare available from bench side to bed.	Would provide ecosystem and accountability in responsible use of biotechnology and ensures better communication with stake holders and state governments.	Timeline					
2 Creating ecosystem of innovation and enterprise for affordable products	Department of Scientific and Industrial Research (DSIR) – in terms timely recognition of industry R&D units for eligibility.	Number of experts and the capacity to innovate affordable products .	Number				30	40
3 Commercial availability of technologies and products for indigenous problems with Indian IPR and licensing	Drug Controller General of India – for regulatory clearances of health products. Department of Agriculture Cooperation – for crop varietal release. Department of Agriculture Research and Education (ICAR) – field trials. Ministry of Environment and Forest - regulation of GM products.	Number of products in pipeline and commercialization.	Number			28	20	22
4 Accelerated translational research and technology development, transfer and commercialization of biotech products for increase growth of bioeconomy.	Drug Controller General of India – for regulatory clearances of health products. Department of Agriculture Cooperation – for crop varietal release. Department of Agriculture Research and Education (ICAR) – field trials. Ministry of Environment and Forest	Translational and product development capacity for use across departments.	Number			15	20	50

**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
	- regulation of GM products.							