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(Results-Framework Document)

for

Department of Bio-Technology

(2012-2013)

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:

- 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
- establish adequate infrastructure, biotechnology incubators and clusters
- catalyze early stage innovation through investments and support services
- engage public-private partnerships for development of products of social relevance for applications in agriculture, healthcare, environment and industry
- provide a fiscal, regulatory and legal framework that encourages risk taking by investors

Objectives

- 1 Expanding pool of life science students and researchers at all levels
- 2 Connecting in augmenting existing competences across institutions and universities for bioeconomy and social impact
- 3 Launching grand challenge programmes in health care and agriculture around national priorities with separate governance and management structures
- 4 Establishment of new professional bodies or innovation agencies for implementing major programmes in health care, agriculture and bioindustrial development
- 5 Continued and sustained support to public private partnerships with new innovative funding schemes
- 6 Reforms in competitive grant system of projects funding and management
- 7 Promoting Institutional framework for public awareness & understanding.
- 8 Finalization of National Biotechnology Development Strategy-II 2020.

Section 1: Vision, Mission, Objectives and Functions

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.
- 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: i. International Centre for Genetic Engineering and Biotechnology, New Delhi; ii. National Institute of Immunology, New Delhi; iii. National Centre for Cell Sciences, Pune; iv. Centre for DNA Fingerprinting & Diagnostics, Hyderabad; v. National Institute for Plant Genome Research, New Delhi; vi. National Brain Research Centre, Manesar, Gurgaon; vii. Institute for Bioresource and Sustainable Development,

Section 1: Vision, Mission, Objectives and Functions

Imphal viii. Institute of Life Sciences, Bhubneshwar ix. Translational Research in Health Science and Technology Institute, Faridabad x. Rajiv Gandhi Centre for Biotechnology, Trivananthpuram xi. UNESCO Regional Centre for Education, Training & Innovation in Biotechnology, Faridabad xii. National Institute of Biomedical Genomics, Kolkata xiii. Institute for Stem Cell Science and Regenerative Medicine, Bangalore xiv. National Agri-Food Biotechnology Institute and Bioprocessing Unit at Mohali xv. National Institute of Animal Biotechnology, Hyderabad

- 13 Matters relating to: (i) Bharat Immunologicals and Biologicals Corporation Limited (BIBCOL), Bulandshahar, Uttar Pradesh; (ii) 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] Expanding pool of life science students and researchers at all levels	10.00	[1.1] Support to undergraduate colleges for strengthening life science department and designating them as "star college" based on performance	[1.1.1] Number of undergraduate colleges supported	Number	5.00	20	18	15	12	10
		[1.2] Initiating Ph.D. programmes in DBT autonomous institutions established in 11th Plan	[1.2.1] No. of institutions starting the programmes	Number	2.50	6	5	4	3	2
		[1.3] "Rapid young scientist" (< 40 yrs.) R&D grants	[1.3.1] No. of R&D project sanctioned	Number	2.50	50	40	30	20	10
		[2.1] Setting-up of inter-institutional / university centres linking basic research to translational science and product development	[2.1.1] No. of inter-institutional centre to be setup	Number	7.50	5	4	3	2	1
[2] Connecting in augmenting existing competences across institutions and universities for bioeconomy and social impact	15.00	[2.2] Setting-up of DBT partnership research and translational centres	[2.2.1] No. of partnerships centres setup	Number	7.50	4	3	2	1	0
		[3.1] Launching grand challenge programme in S&T for save pregnancy and child birth	[3.1.1] Date of launching	Date	6.00	30/11/2012	31/12/2012	31/01/2013	28/02/2013	31/03/2013
		[3.2] Molecular breeding for improved crops varieties	[3.2.1] Date of launching	Date	8.00	30/09/2012	31/10/2012	30/11/2012	31/12/2012	31/01/2013
		[3.3] New generation biofuels and bioenergy	[3.3.1] Date of launching	Date	6.00	31/12/2012	31/01/2013	28/02/2013	31/03/2013	-
[3] Launching grand challenge programmes in health care and agriculture around national priorities with separate governance and management structures	20.00	[4.1] Establishment of new professional bodies or innovation agencies for implementing major programmes in health care, agriculture and bioindustrial development	[4.1.1] Number of agencies	Number	5.00	5	4	3	2	1

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%	Poor 60%
[5] Continued and sustained support to public private partnerships with new innovative funding schemes	10.00		[4.1.2] Time line for the activity	Date	5.00	30/11/2012	31/12/2012	31/01/2013	31/03/2013
		[5.1] Launching ignition grant / startup grants for scientist entrepreneur	[5.1.1] Time to launch	Date	4.00	30/09/2012	31/10/2012	30/11/2012	31/12/2012
		[5.2] Support to industry academia incubator for translational product development activity	[5.2.1] Number of incubator	Number	3.00	6	5	4	3
		[5.3] Technology transfer and commercialization of products in health care and agriculture	[5.3.1] Number of products	Number	3.00	10	8	6	4
[6] Reforms in competitive grant system of projects funding and management	5.00	[6.1] Standardization and routine use of online project submission, review and finance management system	[6.1.1] Time for routine use online	Date	2.50	30/09/2012	31/10/2012	30/11/2012	31/12/2012
		[6.2] Launching online student/research scholars feedback system on human resource programmes of the department	[6.2.1] Time of launch	Date	2.50	30/09/2012	31/10/2012	30/11/2012	31/12/2012
[7] Promoting Institutional framework for public awareness & understanding.	5.00	[7.1] Launching pilot programme on public awareness and communication	[7.1.1] Time to launch	Date	5.00	30/09/2012	31/10/2012	30/11/2012	31/12/2012
[8] Finalization of National Biotechnology Development Strategy-II 2020.	10.00	[8.1] Release of strategy document	[8.1.1] Time to launch	Date	10.00	30/09/2012	31/10/2012	30/11/2012	31/12/2012
* Efficient Functioning of the RFD System	3.00	Timely submission of Draft for Approval	On-time submission	Date	2.0	05/03/2012	06/03/2012	07/03/2012	08/03/2012
		Timely submission of Results	On- time submission	Date	1.0	01/05/2012	03/05/2012	04/05/2012	05/05/2012

* 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	Implement mitigating strategies for reducing potential risk of corruption	% of implementation	%	2.0	100	95	90	85	80
		Implement ISO 9001 as per the approved action plan	Area of operations covered	%	2.0	100	95	90	85	80
		Identify, design and implement major innovations	Implementation of identified innovations	Date	2.0	05/03/2013	06/03/2013	07/03/2013	08/03/2013	09/03/2013
* Improving Internal Efficiency / responsiveness / service delivery of Ministry / Department	4.00	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%	2.0	100	95	90	85	80
			Independent Audit of implementation of public grievance redressal system	%	2.0	100	95	90	85	80
* Ensuring compliance to the Financial Accountability Framework	2.00	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.	%	0.5	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.	%	0.5	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.	%	0.5	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.	%	0.5	100	90	80	70	60

* Mandatory Objective(s)

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value FY 10/11	Actual Value FY 11/12	Target Value FY 12/13	Projected Value for FY 13/14	Projected Value for FY 14/15
[1] Expanding pool of life science students and researchers at all levels	[1.1] Support to undergraduate colleges for strengthening life science department and designating them as "star college" based on performance	[1.1.1] Number of undergraduate colleges supported	Number	20	18	15	12	10
	[1.2] Initiating Ph.D. programmes in DBT autonomous institutions established in 11th Plan	[1.2.1] No. of institutions starting the programmes	Number	6	5	4	3	2
	[1.3] "Rapid young scientist" (< 40 yrs.) R&D grants	[1.3.1] No. of R&D project sanctioned	Number	50	40	30	20	10
[2] Connecting in augmenting existing competences across institutions and universities for bioeconomy and social impact	[2.1] Setting-up of inter-institutional / university centres linking basic research to translational science and product development	[2.1.1] No. of inter-institutional centre to be setup	Number	5	4	3	2	1
	[2.2] Setting-up of DBT partnership research and translational centres	[2.2.1] No. of partnerships centres setup	Number	4	3	2	1	0
[3] Launching grand challenge programmes in health care and agriculture around national priorities with separate governance and management structures	[3.1] Launching grand challenge programme in S&T for save pregnancy and child birth	[3.1.1] Date of launching	Date	--	--	31/12/2012	--	--
	[3.2] Molecular breeding for improved crops varieties	[3.2.1] Date of launching	Date	--	--	31/10/2012	--	--

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value FY 10/11	Actual Value FY 11/12	Target Value FY 12/13	Projected Value for FY 13/14	Projected Value for FY 14/15
[4] Establishment of new professional bodies or innovation agencies for implementing major programmes in health care, agriculture and bioindustrial development	[3.3] New generation biofuels and bioenergy	[3.3.1] Date of launching	Date	--	--	31/01/2013	--	--
	[4.1] Registration and operationalisation of professional bodies and innovation agencies	[4.1.1] Number of agencies	Number	5	4	3	2	1
[5] Continued and sustained support to public private partnerships with new innovative funding schemes	[5.1] Launching ignition grant / startup grants for scientist entrepreneur	[4.1.2] Time line for the activity	Date	--	--	31/12/2012	--	--
		[5.1.1] Time to launch	Date	--	--	31/10/2012	--	--
[6] Reforms in competitive grant system of projects funding and management	[5.2] Support to industry academia incubator for translational product development activity	[5.2.1] Number of incubator	Number	6	5	5	5	5
	[5.3] Technology transfer and commercialization of products in health care and agriculture	[5.3.1] Number of products	Number	10	8	8	15	20
[6] Reforms in competitive grant system of projects funding and management	[6.1] Standardization and routine use of online project submission, review and finance management system	[6.1.1] Time for routine use online	Date	--	--	31/10/2012	--	--
	[6.2] Launching online student/research scholars feedback system on human resource programmes of the department	[6.2.1] Time of launch	Date	--	--	31/10/2012	--	--

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value FY 10/11	Actual Value FY 11/12	Target Value FY 12/13	Projected Value for FY 13/14	Projected Value for FY 14/15
[7] Promoting Institutional framework for public awareness & understanding.	[7.1] Launching pilot programme on public awareness and communication	[7.1.1] Time to launch	Date	--	--	31/10/2012	--	--
	[8.1] Release of strategy document	[8.1.1] Time to launch	Date	--	--	31/10/2012	--	--
* Efficient Functioning of the RFD System	Timely submission of Draft for Approval	On-time submission	Date	05/03/2010	07/03/2011	06/03/2012	--	--
	Timely submission of Results	On-time submission	Date	02/05/2011	--	03/05/2012	--	--
* Administrative Reforms	Implement mitigating strategies for reducing potential risk of corruption	% of implementation	%	--	--	95	--	--
	Implement ISO 9001 as per the approved action plan	Area of operations covered	%	--	--	95	--	--
	Identify, design and implement major innovations	Implementation of identified innovations	Date	--	--	06/03/2013	--	--
* Improving Internal Efficiency / responsiveness / service delivery of Ministry / Department	Implementation of Sevottam	Independent Audit of Implementation of Citizen's Charter	%	--	--	95	--	--
		Independent Audit of implementation of public grievance redressal system	%	--	--	95	--	--
		Percentage of ATNs submitted within due date (4 months) from date of presentation of Report to Parliament by CAG during the year.	%	--	--	90	--	--
* 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	--	--
* Mandatory Objective(s)	Timely submission of ATRs to the PAC Sect. on	Percentage of ATRs submitted within due date	%	--	--	90	--	--

* Mandatory Objective(s)

Section 3: Trend Values of the Success Indicators

Objective	Action	Success Indicator	Unit	Actual Value FY 10/11	Actual Value FY 11/12	Target Value FY 12/13	Projected Value for FY 13/14	Projected Value for FY 14/15
	PAC Reports.	date (6 months) from date of presentation of Report to Parliament by PAC during the year.						
	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:

Description and Definition of Success Indicators and Proposed Measurement Methodology

S.No.	Objectives	Success Indicator	Description and definition	Measurement Methodology
1	Expanding pool of life science students and researchers at all levels	Number of undergraduate colleges supported No. of institutions starting the programmes No. of R&D project sanctioned	One of the major strategic goals of 12th Plan (2012-17) is to expand available pool of research scholars and scientists at all levels (graduate, post graduate, Ph.D., PDFs and young faculty) in biological and interdisciplinary space by 3-5 folds, to complement the ongoing schemes, additional new initiatives and strengthening of selected programmes such as (i) undergraduate star college programme, (ii) scheme for upgradation of life science department of undergraduate colleges through State S&T Councils (iii) scheme for young scientists (below 40 years) R&D rapid grants and (iv) Ph.D fellowships. The scheme may provide additional number of about 300 trained quality graduates and scientists.	Strengthening of undergraduate education is measured in terms of number and percentage coverage of colleges across number of states. Currently India produces about 1600 Ph.Ds in life sciences. The target is 5000 Ph.Ds per year. the special scheme to launch Ph.D programme in seven of the new institutions may add to 70-100 Ph.Ds per year. Encouraging 50-60 young scientist below 40 years per year to take up R&D projects as principal investigator would provide immediate scientific manpower for taking up challenges of health care and agriculture R&D for future.
2	Connecting in augmenting existing competences across institutions and universities for bioeconomy and social impact	No. of inter-institutional centre to be setup No. of partnerships centres setup	Biotechnology is highly disciplinary and interdisciplinary. Connecting institutions with different competences along the value change from discovery to innovation to enterprise has been the major focus of 12th Plan. A special working group of this	It is proposed in the 12th Plan about 20 inter-institutional centres and 10 partnerships centres therefore the number and disciplines have been carefully chosen around national priorities and product development requirements in health care and agriculture.

Section 4:

Description and Definition of Success Indicators and Proposed Measurement Methodology

S.No.	Objectives	Success Indicator	Description and definition	Measurement Methodology
			topic constituted by the Planning Commission has recommended such mechanism. The inter-institutional centres targeted in the year are around the topic: Biosciences-chemical sciences: Synthetic biology for next generation biofuels; Biodesign concept with biology-engineering-clinical/translational research for cell therapy implants, devices and new regenerative medicine; Bio-informatics, genomics and plant breeding for molecularly designed crops; Infection science, molecular biology and immunology for vaccine development. In the similar fashion DBT grant-in-aid or partnership research and translational centres through long term (EFC) support in best universities/institutions are also planned in areas such as: Bio-Veterinary science and technology for animal productivity and health; Bio-Agriculture sciences and innovation for pre-breeding, GM technology and molecular breeding; Cell and tissue engineering and regenerative medicine. Accordingly, a new scheme "inter-institutional centres and grant-in-aid partnership centres" is being launched in the 12th plan.	One established the performance of these centres from 2nd year onwards shall be measured by the following indicators: publications with h index and impact factor; patents filed and granted (national/international) technologies developed, transferred and commercialized; number of human resource trained at all levels.

Section 4:

Description and Definition of Success Indicators and Proposed Measurement Methodology

S.No.	Objectives	Success Indicator	Description and definition	Measurement Methodology
3	Launching grand challenge programmes in health care and agriculture around national priorities with separate governance and management structures	Date of launching Number of programmes	One of the goals of 12th Plan is to launch mission mode projects cutting across disciplines and ministries accordingly to address national priorities in various development sectors through bottom of approach 8 grand challenge programmes are planned. These programmes will be: Mission projects with separate governance, management, milestones with inter Departmental participation and global partnerships; Bottom-up idea based competitive grants for R&D and innovation; Network projects with several partners along the value chain from translational research to product development and commercialization. The investments may range from Rs. 100 to 300 crores for each programme.	Out of the 8 target areas committed for launching grand challenge mission 3 programmes would be launched in the year 2012-13 involving DPR and EFC approvals. Therefore the number and area of activity are crucial parameters reflecting also the budgetary requirement of 12th Plan. Once launched grand challenge programmes would be measured their performance in terms of products/processes/ technologies developed for solving of the identify problems of healthcare and agriculture for example (i) Number of crops varieties developed under molecular breeding programme. (ii) Diagnostic and drug molecules identified important in pregnancy and child birth. (iii) Processes developed for production of new generation biofuels
4	Establishment of new professional bodies or innovation agencies for implementing major programmes in health care, agriculture and	Number of agencies Time line for the activity	The 12th Plan also aims at experimenting with new instruments / mechanisms implementation of programmes in crucial areas of development of bioeconomy involving participation and interaction	Number of such professional bodies/ innovation agencies and timing to setup as committed in 12th Plan along with the areas is a crucial parameter for effective implementation

Section 4:

Description and Definition of Success Indicators and Proposed Measurement Methodology

S.No.	Objectives	Success Indicator	Description and definition	Measurement Methodology
	bioindustrial development		with stakeholder along the path of innovation with flexible administrative processes. In the areas mentioned section 25 non-profit companies will be established in the very first year of 12th Plan which would provide needed business opportunities for commercialization technology transfer for both public and private goods/ product development.	and delivery of biotech products and services. Therefore, number of products in pipeline and commercialized shall be sole parameter of their performance once fully implemented.
5	Continued and sustained support to public private partnerships with new innovative funding schemes	Time to launch Number of incubator Number of products	DBT had experienced PPP schemes in the 11th Plan basically addressing proof of concept research and scale up activities. To address the gap at the discovery phase the ignition grant scheme is being launched for promoting scientist entrepreneurs or new generation entrepreneurs. To make PPP cost effective academia / industry incubator are essential complement activity. Tech transfer modalities and management capacity as reflected by number of tech transfer per year and commercialization are key parameters.	Timing to launch new scheme on ignition grants is a key parameter for realizing the success of the mission envisaged for 12th Plan. Out of the target of 20 incubators planned for 12th Plan 6 of them are committed for this year to fully utilize the business opportunity in biosimilars and biopharma. Tech transfer modalities and management capacity as reflected by number of tech transfer per year and commercialization are key parameters.
6.	Reforms in competitive grant system of projects funding and management	Time for routine use online Time of launch	For effective implementation of programmes and projects and also to create database for policy analysis and tech management these IT based programmes and resources are key for success of the vision of	Time to launch important parameter for a system with multiple benefits.

Section 4:

Description and Definition of Success Indicators and Proposed Measurement Methodology

S.No.	Objectives	Success Indicator	Description and definition	Measurement Methodology
			DBT; lack of which has hampered tracking of projects, outputs and outcomes for product development activities in the past.	
7.	Promoting Institutional framework for public awareness & understanding	Time to launch	Based on strategy paper in biotechnology communication the pilot programme is being launched consisting of a centralized communication centre; courses for journalism in biotechnology; biotechnology communication unit state agriculture universities; television programmes; research and analysis of effect of communication strategies on public understanding and awareness levels. A separate scheme in stakeholder communication in agriculture biotechnology has been launched.	Setting up of centralized communication centre. Starting courses of journalism. Starting TV programmes. Establishment of six units of communication in agriculture universities.
8.	Finalization of National Biotechnology Development Strategy-II 2020	Time to launch	The department has already get consulting process with large number of stakeholders including scientists, industry and civil society. To prepare the strategy aimed at achieving affordable solutions, creation of new companies and jobs with strategic impact in health and agriculture that could help realizable growth of a 20 billion dollars a year turn over for the biotechnology sector by the year 2025.	Measurable indicators include launching of various programmes; increase in quality human resource at all level; increase in scientific performance in terms of percentage increase in publications, patents and technology is developed; and industrial growth of an average of 25% per annum.

Section 5: Specific Performance Requirements from other Departments

S. No.	Objectives	Success Indicator	Performance requirements from other departments
1	Expanding pool of life science students and researchers at all levels	Number of undergraduate colleges supported No. of institutions starting the programmes No. of R&D project sanctioned	Nil
2	Connecting in augmenting existing competences across institutions and universities for bioeconomy and social impact	No. of inter-institutional centre to be setup No. of partnerships centres setup	Clearances from inter-ministerial consultation particularly from Department of Expenditure.
3	Launching grand challenge programmes in health care and agriculture around national priorities with separate governance and management structures	Date of launching Number of programmes	Clearances from Planning Commission and Department of Expenditure and forging collaboration with departments and agencies of Ministry of Health and Family Welfare and Ministry of Agriculture
4	Establishment of new professional bodies or innovation agencies for implementing major programmes in health care, agriculture and bioindustrial development	Number of agencies Time line for the activity	Clearances from inter-ministerial consultation particularly from Department of Expenditure and processes related to Ministry of Public Enterprise
5	Continued and sustained support to public private partnerships with new innovative funding schemes	Time to launch Number of incubator Number of products	Nil
6	Reforms in competitive grant system of projects funding and management	Time for routine use online Time of launch	Nil
7	Promoting Institutional framework for public awareness & understanding	Time to launch	Nil
8	Finalization of National Biotechnology Development Strategy-II 2020	Time to launch	Nil

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 10/11	FY 11/12	FY 12/13	FY 13/14	FY 14/15
1 Increase in the availability of quality graduates, post graduates and researchers	University Grant Commission (UGC) – in terms of job positions. State S&T council for undergraduate colleges.	Percentage increasing of quality human resource available for disciplinary and interdisciplinary activities	Percentage	0	0	10	20	30
2 Creating ecosystem of innovation and enterprise	Department of Scientific and Industrial Research (DSIR) – in terms timely recognition of industry R&D units for eligibility.	Number of professional bodies and innovation agencies setup for promotion of innovation and enterprise	Number	0	0	15	30	45
3 Development of affordable health care and agriculture products for growth and economy	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	0	0	5	10	15
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 - regulation of GM products.	Number of products in pipeline and commercialization	Number	0	0	5	10	15