

**MINISTRY OF SCIENCE AND TECHNOLOGY****DEMAND NO. 87****Department of Biotechnology**

A. The Budget allocations, net of recoveries, are given below:

													<i>(In crores of Rupees)</i>		
Major Head	Actual 2010-2011			Budget 2011-2012			Revised 2011-2012			Budget 2012-2013					
	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total			
Revenue	1120.55	24.31	1144.86	1400.00	26.92	1426.92	1350.00	26.70	1376.70	1485.00	15.39	1500.39			
Capital	...	...	...	...	...	...	...	...	...	...	...	...			
<b>Total</b>	<b>1120.55</b>	<b>24.31</b>	<b>1144.86</b>	<b>1400.00</b>	<b>26.92</b>	<b>1426.92</b>	<b>1350.00</b>	<b>26.70</b>	<b>1376.70</b>	<b>1485.00</b>	<b>15.39</b>	<b>1500.39</b>			
1. Secretariat- Economic Services	3451	...	12.31	12.31	...	14.67	14.67	...	14.45	14.45	...	15.39	15.39		
<b>Other Scientific Research</b>															
2. Autonomous R&D Institutions	3425	330.27	2.00	332.27	376.10	2.25	378.35	368.26	2.25	370.51	455.00	...	455.00		
3. <i>Assistance to Other Scientific Bodies</i>															
3.01 Human Resource Development	3425	54.58	...	54.58	63.00	...	63.00	70.00	...	70.00	75.00	...	75.00		
3.02 Bioinformatics	3425	26.70	...	26.70	27.00	...	27.00	27.00	...	27.00	30.00	...	30.00		
3.03 Research and Development	3425	437.37	...	437.37	418.90	...	418.90	420.00	...	420.00	420.00	...	420.00		
3.04 Biotechnology for Societal Development	3425	8.68	...	8.68	15.00	...	15.00	13.00	...	13.00	13.00	...	13.00		
3.05 Grand Challenge Programmes	3425	64.74	...	64.74	59.00	...	59.00	54.00	...	54.00	60.00	...	60.00		
3.06 Programmes for Promotion of Excellence and Innovation	3425	51.00	...	51.00	54.00	...	54.00	55.00	...	55.00	55.00	...	55.00		
3.07 Biotech Facilities	3425	30.00	...	30.00	36.00	...	36.00	46.00	...	46.00	50.00	...	50.00		
<i>Total- Assistance to Other Scientific Bodies</i>		<i>673.07</i>	...	<i>673.07</i>	<i>672.90</i>	...	<i>672.90</i>	<i>685.00</i>	...	<i>685.00</i>	<i>703.00</i>	...	<i>703.00</i>		
4. <i>I&amp;M Sector</i>															
4.01 Assistance for Technology Incubators, Pilot Projects, Biotechnology Parks and Biotech Development Fund	3425	5.06	...	5.06	20.00	...	20.00	12.00	...	12.00	...	...	...		
4.02 Public Private Partnership	3425	87.46	...	87.46	158.00	...	158.00	118.74	...	118.74	139.00	...	139.00		
<i>Total- I&amp;M Sector</i>		<i>92.52</i>	...	<i>92.52</i>	<i>178.00</i>	...	<i>178.00</i>	<i>130.74</i>	...	<i>130.74</i>	<i>139.00</i>	...	<i>139.00</i>		
5. International Cooperation	3425	24.69	...	24.69	33.00	...	33.00	31.00	...	31.00	39.50	...	39.50		
6. International Centre for Genetic Engineering and Biotechnology	3425	...	10.00	10.00	...	10.00	10.00	...	10.00	10.00	...	...	...		
7. <i>Provision for projects/schemes for the benefit of the North Eastern Areas and Sikkim</i>															
7.01 Human Resource Development	2552	...	...	...	7.00	...	7.00	7.00	...	7.00	10.00	...	10.00		
7.02 Programme for Promotion of Excellence and Innovation	2552	...	...	...	6.00	...	6.00	...	...	...	10.00	...	10.00		

(In Crores of Rupees)

(In crores of Rupees)

	Major Head	Actual 2010-2011			Budget 2011-2012			Revised 2011-2012			Budget 2012-2013				
		Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total	Plan	Non-Plan	Total		
7.03	Biotech Facilities	2552	...	...	4.00	...	4.00	14.81	...	14.81	10.00	...	10.00		
7.04	Bioinformatics	2552	...	...	3.00	...	3.00	3.00	...	3.00	5.00	...	5.00		
7.05	Research and Development	2552	...	...	81.10	...	81.10	81.10	...	81.10	80.00	...	80.00		
7.06	Grand Challenge Programme	2552	...	...	6.00	...	6.00	5.00	...	5.00	5.00	...	5.00		
7.07	Biotechnology for Societal Development	2552	...	...	5.00	...	5.00	5.00	...	5.00	2.00	...	2.00		
7.08	Support to Autonomous R&D Institutions	2552	...	...	23.90	...	23.90	18.90	...	18.90	25.00	...	25.00		
7.09	I&M Sector	2552	...	...	2.00	...	2.00	...	...	...	1.00	...	1.00		
7.10	International Cooperation	2552	...	...	2.00	...	2.00	0.19	...	0.19	0.50	...	0.50		
<i>Total- Provision for projects/schemes for the benefit of the North Eastern Areas and Sikkim</i>			...	...	140.00	...	140.00	135.00	...	135.00	148.50	...	148.50		
<b>Grand Total</b>			<b>1120.55</b>	<b>24.31</b>	<b>1144.86</b>	<b>1400.00</b>	<b>26.92</b>	<b>1426.92</b>	<b>1350.00</b>	<b>26.70</b>	<b>1376.70</b>	<b>1485.00</b>	<b>15.39</b>	<b>1500.39</b>	
													(in crores of Rupees)		
		Head of Dev	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total	Budget Support	IEBR	Total	
<b>C. Plan Outlay</b>															
1.	Other Scientific Research	13425	1120.55	...	1120.55	1260.00	...	1260.00	1215.00	...	1215.00	1336.50	...	1336.50	
2.	North Eastern Areas	22552	...	...	...	140.00	...	140.00	135.00	...	135.00	148.50	...	148.50	
<b>Total</b>			<b>1120.55</b>	...	<b>1120.55</b>	<b>1400.00</b>	...	<b>1400.00</b>	<b>1350.00</b>	...	<b>1350.00</b>	<b>1485.00</b>	...	<b>1485.00</b>	

1. **Secretariat - Economic Services:** Provides for Expenditure on the Secretariat of the Department of Biotechnology (DBT).

2. **AUTONOMOUS R&D INSTITUTIONS:** Under the administrative control of the Department, there are 14 autonomous institutions for which assistance is being given. The institutions are as follows:-

1. National Institute of Immunology (NII), New Delhi
2. National Centre for Cell Science, Pune
3. Centre for DNA Fingerprinting and Diagnostics (CDFD), Hyderabad
4. National Brain Research Centre (NBRC), Manesar
5. National Institute for Plant Genome Research, New Delhi
6. Institute of Bioresources and Sustainable Development (IBSD), Imphal

Faridabad

7. Institute of Life Sciences, Bhubaneshwar

8. Translational Health Science and Technology Institute, Faridabad

9. Rajiv Gandhi Centre for Biotechnology (RGCB), Thiruvananthapuram

10. UNESCO Regional Centre for Education and Training in Biotechnology,

11. National Agri-Food Biotechnology Institute and Bioprocessing Unit, Mohali

12. Institute of Stem Cell Research and Regenerative Medicine, Bengaluru

13. National Institute of Biomedical Genomics (NIBMG), Kalyani, West Bengal

14. National Institute of Animal Biotechnology, Hyderabad

3. **Assistance to other Scientific Bodies:** Human Resource Development (HRD) : New Post Graduate M.Sc./M.Tech Teaching programmes in gap areas; continuation of Star College Scheme, Fellowships and PG courses; All activities of biotechnology popularization.

Bioinformatics : BTISnet activities will be continued; Bioinformatics service units will be established for doing high throughput genomics and proteomics activities; Mission mode R&D projects; new network projects and R&D projects will be initiated.

Research & Development - R&D projects under the following will be continued :- a) Agriculture Biotechnology; b) Bioresource Development & Utilisation; c) Basic Research & Emerging Areas; d) Medical Biotechnology; e) Vaccine Research & Development; f) Human Genetics & Genomics; g) Environmental Biotechnology; h) Animal Biotechnology; i) Aquaculture & Marine Biotechnology; j) Nano-Biotechnology; k) Stem cell research; l) Bioengineering; m) Food & Nutrition Science & Technology; n) Bioprocessing and Scale-up Biotechnology; o) Biosafety Research and p) Re-entry R&D projects.

Grand Challenge Programme : The ongoing Grand Challenge Programme on vaccines, microbial prospecting, science & technology for safe pregnancy, metabolic diseases - prediction, diagnosis, cure; molecular breeding for food security and climate change and agriculture productivity will be continued and strengthened.

Programme for Promotion of Excellence : Progress of existing Centers of Excellence will be reviewed and the leads will be pursued further towards achieving translational goals; more Centers for Excellence will be established around national priorities in life science and biotechnology and to support and strengthen technology management capacity in Universities and Institutions.

Biotech Facilities : Continue support to major service facilities and universities under BUILDER programme; Development and implements AGRI-BUILDER programme for strengthening research and education in collaboration with ICAR; and implement programme on biological reagents R&D and production.

4. **I & M Sector:** The schemes vis-a-vis : Small Business Innovation Research Initiative (SBIRI); Biotechnology Industry Partnership Programme (BIPP); Support to Biotech Industrial Parks and Expanding the Industry Innovation Funding Schemes beyond SBIRI and BIPP schemes.

5. **International Cooperation:** The broad areas of collaboration would be human resource development, agriculture and food, medical and healthcare, molecular biology, bioinformatics and computational biology, industrial collaboration. Focus would be on strengthening the capabilities of the country in the area of systems biology, stem cell research and vaccines and diagnostics. Besides ongoing programmes, new projects will be undertaken with Finland, Canada, Germany, Norway, U.K., Netherland and other developing countries. The Indo-Swiss programme in biotechnology will be continued with new thrust on climate change.

6. **International Centre for Genetic Engineering and Biotechnology (ICGEB):** The support of DBT to ICGEB, New Delhi will continue during the next five years. During the year, ICGEB continued its activity on basic as well as applied research in the field of human health and agriculture biotechnology.

7. **Provision for projects/schemes for the benefit of the North Eastern Areas and Sikkim:** Necessary provisions have been kept for projects/schemes for the benefit of North Eastern

Region and Sikkim for human resource development, biotechnology infrastructure and R&D in priority areas of North East in collaboration and partnership with other public sector institutions and universities and private sector. Projects funded already will be continued and more programmes on human resource development; augmenting facilities in veterinary/ agriculture colleges; and major joint projects in partnership with universities/institutions in rest of India will be initiated.