

Government of India
Ministry of Environment & Forests
(EI Division)

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Annual Progress Report on Activities of ENVIS Centres – 2013-14

1	Name of Host Organization:		UNIVERSITY OF KALYANI					
2	Assigned Subject Area:		ENVIRONMENTAL BIOTECHNOLOGY					
3	Date/ Month/ Year of establishment of ENVIS Centre:		June, 2002					
4	Name and designation of ENVIS Coordinator:		Financial Year (2013-14): Prof. S. C. Santra					
5	Current ENVIS Staff Structure:							
	Name	Position held	Qualification and Experience	Joining Date in ENVIS Centre	Joining Date in current position	2013-14		
						Leaving Date (if applicable)	Emoluments drawn (₹)	
						Monthly	Annual	
	Dr. Anusaya Mallick	Programme Officer	M.Sc, Ph. D. 6Years Research Experience, 2years & 4months as ENVIS Programme Officer	26-12-2011	26-12-2011	-	19000.00	212000.00
	Mr. Sourav Banerjee	Web Assistant cum Data entry operator	B.Com, Diploma in Software Application, Web Designing <ul style="list-style-type: none"> • Presently, More than 09 years working experience as Web Assistant in ENVIS Centre in Kalyani University • Previously, 05 years working experience as DEO in ENVIS Centre of CME, ISM, Dhanbad 	01.09.2005	01.09.2005	--	16000.00	192000.00
				July, 2000		2005		

6	Mandate of the Host Organization	Mandate of the ENVIS Centre
	Providing administrative & infrastructure support.	<ul style="list-style-type: none"> ➤ Systematically collect, compile and disseminate data on “Environmental Biotechnology” for providing information services. ➤ Publishes Newsletters & Abstract volumes on the subject for wide dissemination of information ➤ Development of website in the field of Environmental Biotechnology for researchers, academician, students commercial entrepreneurs of specific areas and policy makers to getting the information through internet. ➤ Organize training, workshop & seminar on thematic subjects. ➤ Development and documentation of Environmental Biotechnology data bank ➤ Establishment of liaison with various concerned institute and departments of India and abroad, working on the field of Environmental Biotechnology.

7. Databases:

7.1. Catalogue of Non-numeric Databases compiled by the ENVIS Centre till date:

Name of Database	Description (<i>in brief</i>)	Data type (<i>descriptive/ graphical/ geospatial/ etc.</i>)	Status of Updation/ Periodicity/ Data Points Compiled (<i>including date/ month/ year of last data point</i>)	Source(s) of data	Online Availability (<i>Whether uploaded on ENVIS Website</i>)
Thematic area (16 sub theme)	Description & Abstract of research (1.Biofertilizer, 2.Biopesticide, 3.Bioenergy, 4.Bio-composting, 5.Bioaccumulation, 6.Agricultural Biotechnology, 7.Bio-sensor, 8.Biodegradation, 9.Bio-remediation, 10.Bio-marker, 11.Biotransformation, 12.Pollen Biotechnology, 13.Bioengineering,	Descriptive	Weekly	Research journals, Online	Uploaded on ENVIS Website

	14.Policy Issues, 15.Nano biotechnology, 16.Biomimicry)				
Application Case studies	Success stories of biotechnological application case studies	Descriptive	Monthly	Online, Institutes, libraries NGOs	Uploaded on ENVIS Website
Patents	Biotechnological patents (USA, India)	Descriptive & tabular	Weekly	Online	Uploaded on ENVIS Website
Library	Newsletter, Abstracts, Books, Thesis, Journals & Publication	Descriptive & tabular	Biweekly	Online, library, Institutes, Experts	Uploaded on ENVIS Website
Microbes in Application	Application of Algae, Fungi, Bacteria, Yeast in biotechnology, Information on National & international Culture Collection Centres	Descriptive, tabular & pictorial	Monthly	Online library, Institutes,	Uploaded on ENVIS Website
EM	Application, Culture & use of effective microorganisms	Descriptive		Online, library, institutes,	Uploaded on ENVIS Website
GMOs	Application, process & controversy of Genetic Modified crops and organisms	Descriptive	Monthly	Online	Uploaded on ENVIS Website
Biotech Policies	National & State biotech policies,	Descriptive	Weekly	Online, Govt. dept.	Uploaded on ENVIS Website
Biotech products & companies	Companies manufacturing various Biotech products & its uses	Descriptive	Weekly	Online	Uploaded on ENVIS Website
Biotech information	<ul style="list-style-type: none"> •Biotech Facilities and Programme Support •Programme Support and Centres of Excellence •Technologies Transferred •Biotechnology For Societal Development •Biotechnology Parks And Incubators •Bioinformatics 	Descriptive	Weekly	Online, Govt. dept.	Uploaded on ENVIS Website

	<ul style="list-style-type: none"> • Autonomous Institutions • Public Sector Undertakings 				
Activities of Research organization	R & D activities related to the subject area of different National institutes	Descriptive	Monthly	Online	Uploaded on ENVIS Website
Biotech Study courses	Offering courses on biotechnology all over the country	Descriptive	Monthly	Online	Uploaded on ENVIS Website
News	Biotech news and current Biotech Research	Descriptive	Weekly	Online	Uploaded on ENVIS Website
Glossary	Glossary on the subject area	Descriptive	Monthly	Online, Books	Uploaded on ENVIS Website
Regional language	Brief of the subject theme area in Bengali version	Descriptive	Bi-annually	Translate from Books, Research journals, Online	Uploaded on ENVIS Website
Events	Environmental calendar and upcoming events	Descriptive/ Tabular	Monthly	Online	Uploaded on ENVIS Website
Major Activities	Details of workshop/seminar organized by the centre and Activities of related National organizations	Descriptive	Monthly	Subject experts, Online, Institutes	Uploaded on ENVIS Website

7.2. Catalogue of Numeric and Time-series Databases compiled by the Centre till date:

Name of Database	Description (<i>in brief</i>)	Time Period (<i>Starting year-Ending year</i>) and Periodicity (<i>annual/ monthly/ other</i>)	Source(s) of data	Online Availability (<i>Whether uploaded on ENVIS Website</i>)

7.3. New Databases developed during the previous Financial Year (2013-14):

7.3.1. Non-numeric Databases:

Name of Database	Description (in brief)	Data type (descriptive/ graphical/ geospatial/ etc.)	Status of Updation/ Periodicity/ Data Points Compiled (including date/ month/ year of last data point)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)
EM	Application, Culture & use of effective microorganisms	Descriptive	Monthly	Research journals, books, Online	Uploaded on ENVIS Website
Biotech Study courses	Offering courses on biotechnology all over the country	Descriptive	Monthly	Online, Institutes	Uploaded on ENVIS Website
Biomimicry as new sub-theme	Added information on biomimicry application with research abstracts in database	Descriptive	Monthly	Research journals, Books, Libraries, Online	Uploaded on ENVIS Website
Experts	International and National experts of the subject area	Descriptive	Monthly	Institutes/ organisations	Uploaded on ENVIS Website
Glossary	Glossary on the subject area	Descriptive	Monthly	Online, Books	Uploaded on ENVIS Website
Performance report	Report on web users and ENVIS centre service	Graphical/ numeric	Weekly	Web statistics	Under Process

7.3.2. Numeric and Time-series Databases:

Name of Database	Description (in brief)	Time Period (Starting year- Ending year) and Periodicity (annual/ monthly/ other)	Source(s) of data	Online Availability (Whether uploaded on ENVIS Website)

7.4. Status of data entry in ISBEID: (For State/ UT ENVIS Centres) – As in Annex

Not applicable

8. Information/ Knowledge Products:

8.1. ENVIS Newsletters published during the previous Financial Year (2013-14):

Quarter/ Volume/ Issue/ Theme	Main Articles	Number of copies printed and circulated
Volume- 22 (June, 2013)	Waste-to-Wealth: Biotechnological Application	200
Volume- 23 (Dec, 2013)	Biomimicry	200

8.2. Other publications/ information products brought out during the previous Financial Year (2013-14):

Publication/ Product	Theme(s)/ Subject Area(s)	Number of copies printed and circulated
Abstract Volume- 22 (June, 2013)	16 sub themes on Environmental biotechnology (Biofertilizer, Biopesticide, Bioenergy, Bio-composting, Bioaccumulation, Agricultural Biotechnology, Bio-sensor, Biodegradation, Bio-remediation, Bio-marker, Biotransformation, Pollen Biotechnology, Bioengineering, Policy Issues, Nano biotechnology, Biomimicry)	200
Abstract Volume- 23 (Dec, 2013)	16 sub themes on Environmental biotechnology (-do-)	200

9. ENVIS Website (*ENVIS Centres whose Website has been restructured may provide the Performance Report/ Graphs generated therein wherever possible*):

9.1.	URL:	http://www.deskuenvis.nic.in	
9.2.	Status of restructuring of Website:	Restructured on : 26/03/2014 (Restructured the website ourselves in ENVIS, MoEF web format)	Not restructured by NIC
9.3.	Frequency of updating Website:	Daily	
9.4.	Subject-specific database updation (numeric/ others):	Weekly	
9.5.	Publication uploaded/ updated on Website:	Binually	

10. User Engagement and Interaction (*ENVIS Centres whose Website has been restructured may provide the Performance Report/ Graphs generated therein wherever possible*) :

10.1.	Total number of visits on Website:	55235 (as on 21.04.2014)
10.2.	Number of unique visits on Website:	In process for incorporating NIC Webstats
10.3.	Number of reports downloaded/ read by stakeholders:	In process for incorporating NIC Webstats

10.4. Query-Answer Statistics:

Mode of Query Receipt	Number of Queries Received	Number of Queries Responded	Reasons for shortfalls, if any, and action taken to rectify
Online	In process	In process	Restructuring the website
Email	71	71	Restructuring the website
Postal	6	6	Restructuring the website
Physical	83	83	Restructuring the website

11. Implementation of Annual Plan of Activities of the previous Financial Year (2013-14):

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefore
Centre's proposed activities 2013-14		
1. Establishing a video library of information related to the theme area of the ENVIS centre.	Video library will be established on thematic area related <i>i.e</i> <ol style="list-style-type: none"> 1. Biofertilizer 2. Biocomposting 3. Biodegradation 4. Bioremediation 	
2. The Centre will publish more reports, documents, abstracts & research papers.	Thematic area related documents, abstracts, publication and reports will be updated	
3. We intend to build up a strong inventory of information related to environmental biotechnology, data bank on Microbial Application potential in various fields, industrial linkages in various application areas.	Yes	
4. Our ENVIS centre will give more emphasis on database generation on success stories of application carried out by various institutions.	Yes	
5. We intend to tie up with different industries to solve their problems regarding waste disposal, treatment and recycling, greenbelt development through different biotechnological strategies.	We will do the negotiation with the industries and solve their problem regarding waste disposal, treatment and recycling, greenbelt development through biotechnological strategies process	
Scientific Advisory Committee (SAC) recommendations and Suggestions by Processing and Subject Divisions, MoEF		

6. Needs assessment to prioritize areas and parameters of environmental biotechnology for tracking/ reporting;	Our website was prepared on the basis of need assessment of researchers, stakeholders, scientist, students and NGOs.	
7. Consult experts/ stakeholders to identify optimum means of collecting, processing, and reporting;	We are consulting the various environmental experts/ stake holders regularly for better improvement of our website and planning better service of the centre.	
8. Different sections of the website may be updated to reflect current information;	All sections of the website are updating regularly. All the section contains the current information regarding the biotechnologies and their applications	
9. All links may be checked for accuracy and corrected where erroneous;	All links given in the website ware checked and updated regularly.	
10. Networking with Industry who deals with biotechnology;	Linkages of biotechnological industries negotiation under process.	
11. Identification of areas/industries working on bio technology for waste disposal;	Identification and negotiation under process	
12. Development of more value added information products to be taken up;	Biotechnological companies' products and information ware included in the website and updated regularly.	
13. Development of bilingual Website, publication of Newsletters in vernacular to increase awareness.	We are planning to publish environmental awareness leaflet, news letter, biotech product processing in shortly.	

12. New initiatives taken during the previous Financial Year (2013-14):

- Attempts should to be made popularize Environmental Biotechnological aspects in research area and also among the commercial entrepreneurs.
- In addition to the present activities we plan to have more liaison to the international agencies for exchange of information on application areas.
- This Centre will increase its website linkages with information sources within the country & abroad for increasing the information content.
- Intend to build up a strong inventory of information related to environmental biotechnology, data bank on Microbial Application potential in various fields, Industrial linkages in various application areas.
- Our ENVIS centre will give more emphasis on database generation on success stories of application carried out by various institutions.
- We intend to tie up with different industries to solve their problems regarding waste disposal, treatment and recycling, greenbelt development through different biotechnological strategies.
- Include new database on EM, Biotech Study courses, Biomimicry, Experts, Glossary etc.

13.	Date of most recent physical verification by the Ministry:	06/03/2014 by ENVIS National Programme Coordinator (Mr. Rajanish)
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14. Status of existing hardware:

	Hardware item	Specification	Sanction Order with Date	Date of procurement
Procured from ENVIS Grant	Computer – Three	Two – Assembly (P4, Core2duo)	No. 11/60/2004 EI dt. 26.06.2007	17.01.2008
		One – Del Vostro Core I3	No. 11/1/2005- EI dt. 12.08.2011	24.01.2012
	Laptop - One	One – IBM (P4)	No. -11/60/2004-EI dt. 14.08.2013	11.11.2013
	Printer – Two	One Leserjet (HP)	-	16.01.2006
		One – HP Colour Laserjet	No – 11/60/2004-EI/dt. 14.08.2013	11.11.2013
	Scanner - One	One – HP Scanjet 2410	No – 11/60/2004-EI/dt. 31.05.2006	10.11.2006
	Photocopier - One	One – Cannon Copier (1215) Reconditioned	No – 11.01.2005-EI 12.08.2011	24.01.2012
	Tele-fax – One	One – HP Office jet all in one	No – 11/60/2004-EI/dt. 31.05.2006	03.01.2007
Provided by Host Institute	One dedicated room			
	Necessary furniture			
	Electricity			
	Internet facility			

15. Status of utilization of grant in previous year (2013-14) and reasons for shortfalls, if any:

	Head of Expenditure	Sanctioned amount (₹)	Actual Expenditure (₹)	Reasons for Shortfall/ Excess (if any)
Recurring Annual	Manpower	4,20,000/-	4,20,000/-	
	Others (Databases, etc.)	1,52,000/-	1,52,000/-	
	Travel & Training	60,000/-	60,000/-	NA
Non-Recurring (Hardware/ ISBEID/ Any Other)		50,000/-	50,000/-	

16. Issues/ hurdles faced in undertaking ENVIS activities:

16.1.	Manpower deployment (Salary /wage issues): Enhancement of Salary, delay of sanction
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16.2.	Hardware updation, replacement and repair, Audiovisual aids: Partial Problem
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