

Government of India
Ministry of Environment, Forest & climate Change
(EI Division)

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Format for the Annual Progress Report on Activities of ENVIS Centres-2014-15

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:		Prof. S. C. Santra					
5.	Has the Host Organization constituted an Advisory Committee for guiding the activities of the Centre?		Yes					
	Composition of the Advisory Committee :		<p>Expert Advisory body for ENVIS Centre, 2015 University of Kalyani</p> <ol style="list-style-type: none"> 1. Prof. Samir Kumar Mukherjee (Dept. of Microbiology, University of Kalyani) 2. Dr. Tapas Kumar Bandyopadhyaya (Dept. of Molecular Biology & Biotechnology, University of Kalyani) 3. Dr. Soma Mukherjee (Dept. of Environmental Science, University of Kalyani) 4. Dr. Jayanta Kumar Biswas (Department of Environmental Management, University of Kalyani) 					
6.	Current ENVIS Staff Structure:							
	Name	Position held	Qualification and Experience	Joining Date in ENVIS Centre	Joining Date in current position	2014-15		
						Leaving Date (if applicable)	Emoluments drawn (Rs.)	
						Monthly	Annual	
	Dr. Anusaya Mallick	Programme Officer	M.Sc, Ph. D. 6Years Research Experience, 3years & 4months as ENVIS Programme Officer	26-12-2011	26-12-2011		27,000/-	3,24,000/-
	Saurabh Bharati	Information officer	B.Tech (Electronics and Communication) One year	27-10-2014	27-10-2014		25,000/-	1,29,032/-

			experience as a soft ware developer					
	Mr. Sourav Banerjee	Web Assistant cum Data entry operator	<p>B.Com, Diploma in Software Application, Web Designing</p> <ul style="list-style-type: none"> • Presently, More than 10 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	--	20,000/-	2,40,000/-
				July, 2000		2005		
7.	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, academicians, students, commercial entrepreneurs of specific areas and policy makers to get 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 institutes and departments of India and abroad, working on the field of Environmental Biotechnology. 				

8. **Databases:**

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

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)
About us	1. About the centre ✓ Achievement ✓ Future plan ✓ Objective 2. Organisation Structure (Flow chart) 3. Introduction to ENVIS centre ✓ Back ground ✓ Objective ✓ Abstract format General Information	Descriptive, photos and tabular Flow chart	Monthly	Own generated	Uploaded on ENVIS Website
ENVIS Network	ENVIS Centre and ENVIS Focal point	Link		ENVIS site of MoEF	Uploaded on ENVIS Website
Query	We are not getting the proper data due to not restructure by ministry so dynamic pages are not working	Numerically	-	-	Not activated due to not restructured
Feed back	We are not getting the proper data due to not restructure by ministry so dynamic pages are not working	Numerically	-	-	Not activated due to not restructured
Site map	All pages of our site are in linked	links	-	Own generated	Uploaded on ENVIS Website
FAQs	Environmental biotechnology related Question with answers	Descriptive	Biannually	Books and online	Uploaded on ENVIS Website
Contact us	Contact details of ENVIS centre and staffs	Tabular	Annually		Uploaded on ENVIS Website

Related links	Links checked and uploaded some new links	Descriptive	Weekly	Online, Journals, Books, International and National Institutes/Organizations	Uploaded on ENVIS Website
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, 14.Policy Issues, 15.Nano biotechnology, 16.Biomimicry)	Descriptive information and Tabular information	Monthly	Research journals, Online and books	Uploaded on ENVIS Website
Application Case studies	Success stories of biotechnological application case studies. (old data in archives)	Descriptive and hyper links	Monthly	Online, Institutes, libraries NGOs	Uploaded on ENVIS Website
Patents	Biotechnological patents (USA, India, Europe,)	Descriptive, tabular & hyper links with pdf format	Monthly	Online and Journals	Uploaded on ENVIS Website
Experts	International experts with their CVs	Descriptive and hyper links with pdf format	Monthly	Online	Uploaded on ENVIS Website
	National experts with their CVs	Descriptive and hyper links	Monthly	Online	Uploaded on ENVIS Website
Glossary	Glossary on the subject area	Indexing and Descriptive	Monthly	Online and books	Uploaded on ENVIS Website
National Organisation	Research institutes	Tabular and hyper link	Monthly	Online	Uploaded on ENVIS Website
International Organisation	Research institutes	Tabular and hyper link	Monthly	Online	Uploaded on ENVIS Website

International Information exchange	International organisations for better exchange of information	List	Biannually	Online	Uploaded on ENVIS Website
Convention and treaties	Hazardous waste, disposal, management and handling. Environmental standards Air Drinking Water Noise Industrial Discharge E-Waste	Descriptive, links and pictorial	Monthly	Online, Journals and books	Uploaded on ENVIS Website
Numerical Data	Reports on web Hits web visits, queries, downloads	Tabular and graphical	Monthly	Online, abstract volume, journals and books	Uploaded on ENVIS Website
Library	1. Newsletter 2. Abstracts 3. Books 4. E-Books 5. Thesis 6. Journals 7. Publication 8. Annual Reports 9. Video library ✓ Biofuel ✓ Biodiesel ✓ Biotechnology ✓ Save the Environment ✓ Educational environmental video	Descriptive, tabular, video clippings & Pdf formats	Weekly	Online, library, Institutes, Experts	Uploaded on ENVIS Website
Microbes in Application	Application of Algae, Fungi, Bacteria, Yeast in biotechnology, Information on National & international	Descriptive, tabular & pictorial	Weekly	Online library, Institutes,	Uploaded on ENVIS Website
	National and International Culture Collection Centre	Descriptive, tabular & pictorial	Monthly	Online library, Institutes,	Uploaded on ENVIS Website
	Application, Culture & use of effective microorganisms EM	Descriptive	Monthly	Online, library, institutes,	Uploaded on ENVIS Website
GMOs	Application, process & controversy of Genetic Modified crops and organisms	Descriptive, tabular, hyper links and	Monthly	Online, library, Books and Institutes	Uploaded on ENVIS Website

		pictorial			
Overview	International scenario, National Biotech policy and emerging issues	Descriptive and Tabular	Monthly	Online, library, Books and Institutes	
Biotech Policies	National & State biotech policies,	Descriptive and hyper links	Monthly	Online, Govt. dept.	Uploaded on ENVIS Website
Biotech products & companies	Companies manufacturing various Biotech products & its uses	Descriptive, tabular and hyper links	Monthly	Online	Uploaded on ENVIS Website
Biotech information	<ul style="list-style-type: none"> • Biotech Facilities and Programme Support • Programme Support and Centre of Excellence • Technologies Transferred • Biotechnology For Societal Development • Biotechnology Parks And Incubators • Bioinformatics • Autonomous Institutions • Public Sector Undertakings • Universities offering the Biotech courses 	Descriptive	Weekly	Online, Govt. dept.	Uploaded on ENVIS Website
Activities of Research organization	R & D activities related to the subject area of different National institutes	Descriptive and hyper links	Monthly	Online	Uploaded on ENVIS Website
Biotech Study courses	Offering courses on biotechnology all over the country	Descriptive and hyper links	Monthly	Online	Uploaded on ENVIS Website
Biotech news	Popular News on R&D on the Subject theme, old data in archives	Descriptive & links	Monthly	Online	Uploaded on ENVIS Website
Current biotech research	Information on current research, old data in archives	Descriptive & links	Monthly	Online	Uploaded on ENVIS Website
Regional language	Brief of the subject theme area in Bengali version	Descriptive and pictorial	Biannually	Translate from Books, Research journals, Online	Uploaded on ENVIS Website
Events	Upcoming worldwide events.	Tabular and links	Monthly	Online and journals	Uploaded on ENVIS

	(old data in archives)				Website
Calendar	Calendar on Environmental Events	Pictorial, Data and links	Monthly	Online and journals	
Major Activities	Details of workshop/seminar organized by the centre and Activities of related National organizations.	Descriptive	When required		Uploaded on ENVIS Website
Kids Conner	Animation	Video clippings		Online	Uploaded on ENVIS Website
	Photo gallery	Photo and captions	Monthly	Our ENVIS activity photographs	Uploaded on ENVIS Website
Performance report	Report on web users and ENVIS centre service	Graphical/ numeric	No		Not activated due to not restructured
Hit counter	Website statistics	Numerical			Uploaded on ENVIS Website
Footer of our webpage	Privacy policy, Copy right policy, Terms and conditions, Hyper linking policy, Help, Disclaimer	Descriptive	Annually		Uploaded on ENVIS Website
	Indian Gov. NIC, Banglar Mukh, CPCB, WBPCB, WBBB, DBT	Link	Annually		Uploaded on ENVIS Website

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

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)
Patents	Environmental Biotechnological application patents (USA, Europe and India)	Graphical and tabular from 2010	Online	Uploaded on ENVIS Website
Abstracts	Abstract of research papers on Subject related 16 Thematic areas	From 2009	Research Journals, Online, and library	Uploaded on ENVIS Website

8.3. New Databases developed during the previous Financial Year (2014-15): **Yes**
(Non-numeric Databases in the serial no. 8.3.1)

8.3.1. Non-numeric Databases:

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>)
Frequently Asked Questions	Environmental Biotechnology related	Descriptive	Quarterly	Books	Uploaded on ENVIS Website
Experts	International experts with their CVs	Descriptive and hyper links with pdf format	Monthly	Online	Uploaded on ENVIS Website
	National experts with their CVs	Descriptive and hyper links	Monthly	Online	Uploaded on ENVIS Website
Biotech policy	State biotech policy (Rajasthan & West Bengal) were added.	Descriptive	Monthly	Online	Uploaded on ENVIS Website
	GMOs- GMO Golden Rice in Asia with Enhanced Vitamin A Benefits for Consumers	Descriptive	Monthly	Online	Uploaded on ENVIS Website
Biotech news	Current research on subject areas	Descriptive	Monthly	Online, Journals	Uploaded on ENVIS Website
Glossary	Glossary on the subject area	Descriptive	Biannually	Online, Books	Uploaded on ENVIS Website
Performance report	Report on web users and ENVIS centre service	Graphical/ numeric		Web statistics	Under Process
Kids corner	Photo gallery	Photo and captions	Monthly	Our ENVIS activity photographs	Uploaded on ENVIS Website
Library	Video library were established	Video on thematic areas	Biannually	Online	Uploaded on ENVIS

	on 1.Algal fuel 2.Biodiesel from Jatropha 3.Introduction to Biotechnology 4.Saving the environment 5.Educational environmental video				Website
	E-Books	Pdf format	Biannually	Own publication	Uploaded on ENVIS Website
Regional language	Brief of the subject theme area in Bengali version	Descriptive and pictorial	Biannually	Translate from Books, Research journals, Online	Uploaded on ENVIS Website
About organization	List of Advisory Committee	Name, designation and address	Annually	Own data	Uploaded on ENVIS

8.3.2. Numeric and Time-series Databases:

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>)

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

Not applicable

9. Information/ Knowledge Products:

9.1. ENVIS Newsletters published during the previous Financial Year (2014-15):

Quarter/ Volume/ Issue/ Theme	Main Articles	Number of copies printed and circulated
Volume- 24 (June, 2014)	Industrial Application of Biotechnology	200
Volume- 25 (Dec, 2014)	Microbial Fuel Cell	300

9.2. Other publications/ information products brought out during the previous Financial Year (2014-15):

Publication/ Product	Theme(s)/ Subject Area(s)	Number of copies printed and circulated
Abstract Volume- 24(June, 2014)	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- 25(Dec, 2014)	16 sub themes on Environmental biotechnology (-do-)	200

9.3. Information Products published/ released so far:

Publication/ Product	Theme(s)/ Subject Area(s)	Year of publication

10. ENVIS Website (*ENVIS Centres whose Website has been restructured may provide the Performance Report/Graphs generated therein wherever possible*): **Not restructured**

10.1.	URL:	http://www.deskuenvis.nic.in
10.2.	Status of restructuring of Website:	Not restructured by NIC
10.3.	Frequency of updating Website:	
10.4.	Subject-specific database updation (numeric/ others):	
10.5.	Publication uploaded/ updated on Website:	

11. User Engagement and Interaction (*ENVIS Centres whose Website has been restructured may provide the Performance Report/Graphs generated therein wherever possible*): **Not restructured**

11.1.	Total number of visits on Website:	82,204 (as on 12.03.2015)
11.2.	Number of unique visits on Website:	In process for incorporating NIC Webstats
11.3.	Number of reports downloaded/ read by stakeholders:	In process for incorporating NIC Webstats

11.4. 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	Yet to be restructured the website by ministry
Email	98 (as on 12 th March 2015)	All	
Postal	16(as on 12 th March 2015)	All	
Physical	152(as on 12 th	All	

Mode of Query Receipt	Number of Queries Received	Number of Queries Responded	Reasons for shortfalls, if any, and action taken to rectify
	March 2015)		

12. Implementation of Annual Plan of Activities of the previous Financial Year (2014-15):

Activity/ Target	Achievements	Shortfalls, if any, and reasons thereof
1. Establishing a video library of information related to the theme area of the ENVIS centre.	Yes (Five numbers of video clipping was uploaded)	
2. The Centre will publish more reports, documents, abstracts & research papers.	Yes	
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 (Interaction with the farmers about their problems and suggestion; Linkage with some local industries about their problems and prospects)	
4. Our ENVIS centre will give more emphasis on database generation on success stories of application carried out by various institutions.	Yes (20 numbers national and 2 numbers of international of success stories ware added)	
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.	Yes	Under process
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 were 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	Under process
12. Development of more value added information products to be taken up;	Biotechnological companies' products and information were included in the website and updated regularly.	
13. Development of bilingual Website, publication of Newsletters in vernacular to increase awareness.	We have uploaded information on preparation and application of Vermicompost in Bengali language.	

13.	New initiatives taken during the previous Financial Year (2014-15):	<ul style="list-style-type: none"> ➤ In addition to the present activities we have communicated with six international organisations for better exchange of information. ➤ This Centre will increase its website linkages with information sources within the country & abroad for increasing the information content. ➤ List of Universities and Institutes offering the courses on the subject area. ➤ 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. ➤ National and International expert list and their CVs in pdf format. ➤ 22 nos. of national and international success stories carried out by various institutions included in our data base. ➤ We have tied up with some local industries to solve their problems regarding waste disposal, treatment and recycling, greenbelt development through different biotechnological strategies. ➤ Include new database on International information exchange, National and International case studies, Frequently Asked Questions, Biotech Study courses, Environment day Calendar with related themes, Video library, Experts with their CVs, E-
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		Books, Convection treaties handling rules and Glossary etc.
14.	Date of most recent physical verification by the Ministry:	ENVIS National Programme Coordinator (Mr. Rajanish) visited our centre on 6 th March 2014.

15. 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
			No. - 11/60/2004-EI dt. 14.08.2013	11.11.2013
	Laptop - One	One – IBM (P4)	-	16.01.2006
	Printer – Two	One Leserjet (HP)	No – 11/60/2004-EI/dt. 14.08.2013	11.11.2013
		One – HP Colour Laserjet	No – 11/60/2004-EI/dt. 31.05.2006	10.11.2006
Scanner - One	One – HP Scanjet 2410	No – 11.01.2005-EI 12.08.2011	24.01.2012	
Photocopier - One	One – Cannon Copier (1215) Reconditioned	No – 11/60/2004-EI/dt. 31.05.2006	03.01.2007	
Tele-fax – One	One – HP Office jet all in one	No – 11/60/2004-EI/dt. 31.05.2006	21.11.2006	
Provided by Host Institute	One dedicated room			
	Necessary furniture			
	Electricity			
	Internet facility			

16. Status of utilization of grant in previous year (2014-15) and reasons for shortfalls, if any:

	Head of Expenditure	Sanctioned amount (Rs.)	Actual Expenditure (Rs.)	Reasons for Shortfall/ Excess (if any)
Recurring Annual	Manpower	7,89,000/-	6,93,032/- (as on 31 st March, 2015)	Three and half months delay joining of information officer

	Databases, etc.	2,000,00	2, 00,000/- (as on 31 st March, 2015)	
	Travel & Training	60,000/-	38,943/- (as on 31 st March, 2015)	
Non-Recurring (Hardware/ ISBEID/ Any Other)				
Total		10,49,000/-	9,31,975/-	

17. Issues/ hurdles faced in undertaking ENVIS activities:

17.1.	As our website is not restructured by Ministry, we are not able to access the user statistics of our website and data base.
17.2.	ENVIS staffs are not getting the revised Salary. Delay of sanction.

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Status of data entry in ISBEID: (For State/ UT ENVIS Centres): Not Applicable

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
I. Adminis- trative	1. General	Name				
		No. of Districts (with name)				
		No. of Mandals/ Tahsils/ Taluks (with name)				
		No. of Blocks (with name)				
		No. of Municipalities (with name)				
		No. of Panchayats				
		No. of Cities with million plus population (with name)				
		No. of Tribal Settlements				
		Elevation above mean sea level (Maximum)				
		Elevation above mean sea level (Minimum)				
		Total geographical area				
		GDP of the state (Sector wise)				
		- Primary				
		- Secondary				
		- Tertiary				
	2. Socio Economics	No. of BPL household in millions				
		% of Household below poverty line				
	3. Climate	Average mean monthly temperature (Max.)				
		Average mean monthly temperature (Min.)				
		Total annual Rainfall				
		Relative Humidity				
	4. Demography	Population (for last 4 decades - 1961 - 71 - 81- 91- 2001)				
		Total Population				
		Males Population				
		Females Population				
		Density				
		Area in				
		No. of females/thousand males (sex ratio)				
		% of Literacy				
		% of population attending school				
		Crude Birth Rate (Nos. per 1000 population)				
	Crude Death Rate (Nos. per 1000 population)					
	II. Infra- structure	1. Housing	Permanent			
Semi- Permanent						
Temporary						
Average Household Size (Persons per HH)						
2. Medical and		No. of Government Hospitals				

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
	Health Service	No. of Registered private hospitals/ nursing homes				
	3. Transport	No. of Railway Stations				
		Length of Railway Lines				
		Length of National Highways				
		Length of State Highways				
		Length of other roads				
		No. of Domestic Airports				
		No. of international Airports				
III. Energy	1. Non-Renewable	Coal power generation				
		Installed Capacity				
		Gas Power generation				
		Installed Capacity				
		Oil based power generation				
		Installed Capacity				
		Atomic power generation				
			Installed Capacity			
	2. Renewable	Hydel power generation				
		Installed Capacity				
		Windmill power generation				
		Installed Capacity				
		Solar photovoltaic power generation				
		Installed Capacity				
		Biogas power generation				
		Installed Capacity				
		Other biomass power generation				
			Installed Capacity			
	3. Electricity Consumption	Industrial and Commercial				
		Agriculture				
		Domestic				
4. Energy Consumption	LPG					
	Other Petroleum Products					
	Coal					
	Natural Gas					
	Other					
IV. Agriculture	1. Agriculture Area Classification	Total agricultural area				
		Area under non-agriculture use				
		Barren and uncultivable land				
		Permanent pasture / grazing land				
		Net irrigated land				
		New Sown area				
		Plantation crops				

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Area under organic farming thereof				
	2. Agriculture Production	Total production of crops				
		Yield of Kharif Crops %				
		Yield of Rabi Crops %				
		Yield of other crops %				
	3. Crop Production (plantation crops) (in million tons per annum)	Name				
		Production				
		Rice				
		Sowing Area				
		Production				
		Wheat				
		Sowing Area				
		Production				
		Pulses				
		Sowing Area				
		Production				
		Total food grains				
		Sowing Area				
		Production				
		Cotton				
		Sowing Area				
		Production				
		Jute & mesta				
		Sowing Area				
		Production				
		Sugarcane				
		Sowing Area				
		Production				
		Tobacco				
		Sowing Area				
		Production				
		Oil Seeds				
		Sowing Area				
		Production				
		Others				
		Sowing Area				
		Production				
	4. Fertilizer Consumption	Nitrogen				
		Phosphate				
		Potash				
		Others				
	5. Pesticide	Insecticides				

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
	Consumption	Fungicides				
		Weedicides				
		Rodenticide				
		Fumigants				
		Others				
V. Industries	1. Category of Industry	Total No. of Large Scale Industries				
		Total No. of Medium Scale Industries				
		Total No. of Small scale Industries				
		Total No. of Red Category Industries				
		Total No. of Orange Category Industries				
		Total No. of Green Category Industries				
	2. Mining & Quarrying	Iron				
		Copper				
		Lead				
		Zinc				
		Nickel				
		Manganese				
		Bauxite				
		Coal				
		Other (Chromite)				
Name of the Mineral Resources						
VI. Tourism & Heritage	1. Tourism & Heritage	Name and location of Heritage sites				
		Name and location of Religious places/centres				
		Name and location Archaeological monuments/sites				
		Name and location of Scenic Areas				
		Name and location of Tourist Resorts				
VII. Natural Resources	1. Land Use Classification	Total Geographical Area				
		Forest				
		Non-Agriculture use				
		Barren and uncultivable land				
		Permanent pastures and other grazing land				
		Miscellaneous tree crops and groves				
		Cultivable wasteland				
		Fallow land other than current fallow				
		Current fallow Net area sown				
		Gross cropped area				
		Area sown more than once				
		Net irrigated area				
	Gross irrigated area					
2. Land	Degraded land area					

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
	Degradation	Degraded Irrigated land				
		Area affected by shifting cultivation				
		Deforestation rate				
		Total salt affected land				
		Salinization rate				
		Area effected by desertification				
	3. Waste Land	Gullied & or Ravenous Land %				
		Upland with or without Scrub %				
		Water Logged & marshy Land %				
		land affected by Salinity/Alkalinity Coastal/ Inland %				
		Underutilized Degraded Notified Forest Land %				
		Shifting Cultivation Area %				
		Degraded Land under Plantation Crops %				
		Degraded Pastures/Grazing Land %				
		Mining Industrial Wastelands %				
		Sands - Deserted Coastal %				
		Steep Slopping Area %				
		Barren Rocky/Stony Waste/Sheet Rocky Area %				
	Snow Covered and/or Glacial Area %					
	4. Types of Wetlands	Names of wetlands of national importance				
		Names of wetlands of international importance (Ramsar site etc.)				
		Coastal /Estuaries				
		Fresh water Lakes				
		Tanks/Ponds/Reservoirs/Dams				
		Marshes (Tidal/Non-Tidal)				
		Swamps				
		Mangroves				
		Flood Plains				
		Total Area of Wetland				
		Others				
	5. Soil Types	Black Soil				
		Red Soil				
		Desert Soil				
		Grey and Brown Soil				
		Saline & Alkaline Soil				
		Laterite Soil				
		Alluvial Soil				
		Mountain Soil				
		Mix Red & Black Soil				

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Peaty Soil				
VIII. Forest Resource	1. Distribution of Forest Cover	Dense Forest				
		Open Forests				
		Mangroves				
		Trees outside forests				
		Numbers				
		Area in				
		Non Forest				
	2. Recorded Forest	Reserved Forest				
		Protected Forest				
		Unclassed Forest				
	3. Mining in Forests	Bauxite				
		Chromite				
		Copper				
		Iron				
		Manganese				
		Others				
	4. Actual Forest Cover by Density Class	Dense Forest (Crown density Cover Area above 40%) (in ha)				
		Open Forest (Crown density 10- 40% (in ha)				
		Mangrove (in ha)				
	5. Forest Produce	Timber poles				
		Fuel wood				
		Pulp & match Wood				
		Sal seeds				
		Kandu/Bedi leaves				
		Gums & Resins				
		Cane/Rattan & Bamboo				
		Grass /Fodder				
Drugs/Tannins						
Spices						
Lac						
Others						
6. Joint Forest Management Committee	Name of District					
	No. of JFMC					
IX. Water Resource	1. Source of Water	Name of River				
		Total Length				
		Catchment Area				
		Seasonality (Perennial/Seasonal)				
		Canals (Length)				
		Reservoirs				

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Tanks, Lakes & Ponds				
		Brackish Water				
		Government Owned Canals				
		Private Canals				
		Tanks				
		Wells				
		Tube Wells				
X. Ground Water Resource	1. Status of Ground Water	Total Replenishable Ground Water Resource				
		Provision for industrial/ domestic/ other uses				
		Available Ground Water Resource				
		Net Draft				
		Balance Ground Water				
		Level of Ground Water Development (%)				
		Utilization Ground Water Resource for irrigation in Net terms				
	Gross Draft Estimated on Pro-rata basis					
	2. Categorization of Water Level	Pre-Monsoon average depth to water level				
		Post Monsoon average depth to water level				
		No. of Over Exploited Area				
	3. Use of Ground Water	total Ground Water Resource				
		Quantity of ground water for irrigation				
Available ground water for irrigation						
Utilizable ground water for irrigation						
		Net ground water draft				
XI. Ecology	1. Ecological Areas	Name of Biogeographical Zones				
	2. Physiographic al Features	Name of National Parks				
		Name of Wildlife Sanctuaries				
		Name of Bird Sanctuaries				
		Name of Tiger Reserves				
		Name of Elephant Reserves				
		Name of Biosphere Reserves				
		Name of Protected Mangroves area (Private & Public)				
	Length of coastline					
	3. Botanical Gardens	Name of Botanical Garden				
		Area of Botanical Garden				
		Location				
		Uniqueness				
	4. Zoological Parks	Name of Zoological Park				
		Area of Zoological Park				

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		Location				
		Uniqueness				
XII. Sanitation		No. of Town covered				
		No. of Town not covered				
		Total No. of treatment plants				
XIII. Water Pollution	1.	Rivers/Lakes/Canals/Tanks/Wells				
		Settlement and Land Use Activity along the Coastline				
		Length of Coastline (Km)				
		Area (Sq.Km)				
		Population (lac)				
		No. of Coastal City/Towns				
		Dependent Coast Land use				
		Preferring Coast Land use				
		Water-based land use				
		Municipal and domestic Waste %				
		Industrial Waste %				
		Toxic Metals %				
		Oil Pollution %				
		Fertilizer %				
		Dredging & Reclamation%				
		Siltation %				
		Discharge of Coolant waters %				
		Toxic Chemicals %				
	Offshore mining %					
	2. Health	Type of Disease				
		Name of Disease				
		No. of Deaths				
	XIV. Air Pollution	1. Industrial	SO ₂			
NO _x						
Suspended Particulate Matter (SPM)						
Respirable Suspended Particulate Matter (RSPM)						
2. Residential		SO ₂				
		NO _x				
		Suspended Particulate Matter (SPM)				
		Respirable Suspended Particulate Matter (RSPM)				
3. Vehicular Pollution		No. of Vehicles				
		Type of Vehicles				
4. Health		Type of Disease				
		Name of Disease				
		No. of Deaths				

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
XV. Bio- diversity	1. Flora	Total Species				
		Redbook species No.				
	2. Fauna	Total Species				
		Redbook species No.				
XVI. Waste	1. Type of Waste	Hazardous waste (HW) in t/a				
		E-waste thereof in t/a				
		Biomedical waste (BMW)				
		Municipal Solid Waste (MSW)				
		Plastic Waste				
		Waste Water				
		Treatment/Disposal (for all 5)				
	2. Clean Technology	Type of Industries				
		Name of technology used				
	3. Effluent Treatment Plant/CEPT	Name of District				
No. of Plants						
XVII. Disaster	1. Disaster	Type of Disaster				
		Year				
		Affected districts in nos.				
		Population affected (in millions)				
		Damage in crore INR				