

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

**Format for the Annual Progress Report on Activities of ENVIS Centres (2013-14)**

1.	Name of Host Organization:	CSIR-National Environmental Engineering Research Institute (CSIR-NEERI), Nagpur						
2.	Assigned Subject Area:	Hazardous waste						
3.	Date/Month/Year of establishment of ENVIS Centre:	1993						
4.	Name and designation of ENVIS Coordinator:	Prakash Kumbhare, ENVIS Coordinator, CSIR-NEERI / Principal Scientist & Head, R&D Planning Division, CSIR-NEERI						
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
	Mr. Pranay Bankar	Project Assistant-II	B.E.(Chemical Engineering), MSCIT (Diploma in Computer Science)	11.10.2013	11.10.2013	-	12,000/-	-
	Mr. Dinesh Lonare	Project Assistant-II	B.Tech.(Chemical Engineering)	20.11.2013	20.11.2013	-	12,000/-	-
	Mr. Firoz Baksh	Project Assistant-I	Diploma in Computer Technology from Polytechnic College, Nagpur	6.6.2014	6.6.2014	-	8,000/-	-
6.	Mandate of the Host Organization (CSIR-NEERI)			Mandate of the ENVIS-NEERI				
	<p>Research and Development in Environmental Science &amp; Engineering and to provide sustainable technological solutions to environmental problems of government, industry, and the society, especially the 800 million under privileged people of India. The R&amp;D performance indicators of the Institute are: Research Publications in high impact factor SCI journals, Patents, ECF generation, R&amp;D Projects, Technology development &amp; transfer, and participation of scientists in societal missions and decision making in government and industry</p>			<p>Systematically collect, compile and disseminate information on "Hazardous Waste and Its Management" useful to various industries / researchers / policy makers / academicians / environmentalists / Universities / Pollution Control Boards / NGOs, etc.</p> <p>The activities include:</p> <ul style="list-style-type: none"> <li>• Collection and compilation of national as well as international information on various issues related to hazardous waste management</li> <li>• Development of information databases and strengthening of information resources in the field of hazardous waste management</li> <li>• Publications of reports covering various aspects of hazardous waste management to ensure sustainable development</li> <li>• Development of a website on hazardous waste management</li> </ul>				

7. Databases:

7.1. 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)
Bioremediation for hazardous waste management	- Patents database on bioremediation - Abstracts database on bioremediation - Business / commercial database on bioremediation - Technical guidelines on bioremediation for hazardous waste management	Descriptive	Monthly (20 March 2013)	Patent citations, high impact factor national and international journals, national and international magazines, websites, national and international environmental regulatory authorities	Yes (neerienvs.nic.in)
Database on status of technologies for hazardous waste management	Information on processes/know-how/ technologies being used by industries for hazardous waste management and their environmental impacts	Descriptive	Monthly (Data for the period 2000-2014)	High impact factor national and international journals	Yes (neerienvs.nic.in)
Use of hazardous wastes in industries as a raw material	Information on hazardous wastes being used as a raw material, being recycled / reused	Descriptive	Monthly (Data for the period 2000-2010)	High impact factor national and international journals	Yes (neerienvs.nic.in)
Abstract database	Abstracts of Research Papers related to hazardous waste management	Descriptive	Monthly (Data for the period 2000-2014)	High impact factor national and international journals	Yes (neerienvs.nic.in)

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

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)

### 7.3. 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)
Hazardous waste treatment and disposal facilities in India	State-wise information on treatment and disposal facilities in India	Graphical	20 March 2014	National regulatory authorities	Yes

#### 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)
Hazardous waste generation in India	State-wise information on industries generating hazardous waste, including recyclable/incinerable hazardous waste	2010-2014	National regulatory authorities	Yes

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

## 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
Vol.8 No.4-6, April – June 2013	Current R&D Achievements/ Rules /Regulations / Policies / Abstracts with regard to hazardous waste and its management (National and International)	300, to all State Pollution Control Boards/ Industries/NGOs/Environment and Forest Departments/IITs/Universities
Vol.8 No.7-9, July– September 2013	Current R&D Achievements/ Rules /Regulations / Policies / Abstracts with regard to hazardous waste and its management (National and International)	300, to all State Pollution Control Boards/ Industries/NGOs/Environment and Forest Departments/IITs/Universities
Vol.8 No.10-12, October– December 2013	Current R&D Achievements/ Rules /Regulations / Policies / Abstracts with regard to hazardous waste and its management (National and International)	300, to all State Pollution Control Boards/ Industries/NGOs/Environment and Forest Departments/IITs/Universities
Vol.9 No.1-3, January– March 2014	Current R&D Achievements/ Rules /Regulations / Policies / Abstracts with regard to hazardous waste and its management (National and International)	300, to all State Pollution Control Boards/ Industries/NGOs/Environment and Forest Departments/IITs/Universities

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
Environmental Impact Assessment (EIA) Study on Pollution Due to Oil Spill and Other Hazardous Substances	Impacts of hazardous waste on environment	Available on the neerienvi website
Impact of Accidental Spillage of Oil and Hazardous Chemicals in Mumbai Bay Subsequent to Ship Collision on 7 August 2010, on Marine Ecology	Impacts of hazardous waste on environment	Available on the neerienvi website
Report on Oil Spill in Arabian Sea	Impacts of hazardous waste on environment	Available on the neerienvi website
Hazardous Waste Management in India-An Overview	Status Report on Hazardous Waste Management in India	Available on the neerienvi website

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

9.1.	URL:	neerienvi.nic.in
9.2.	Status of restructuring of Website:	Restructured on (20/03/2013)
9.3.	Frequency of updating Website:	Monthly
9.4.	Subject-specific database updation (numeric/ others):	Processes/know-how/ technologies being used by industries for hazardous waste management and their environmental impacts
9.5.	Publication uploaded/ updated on Website:	20 March 2014

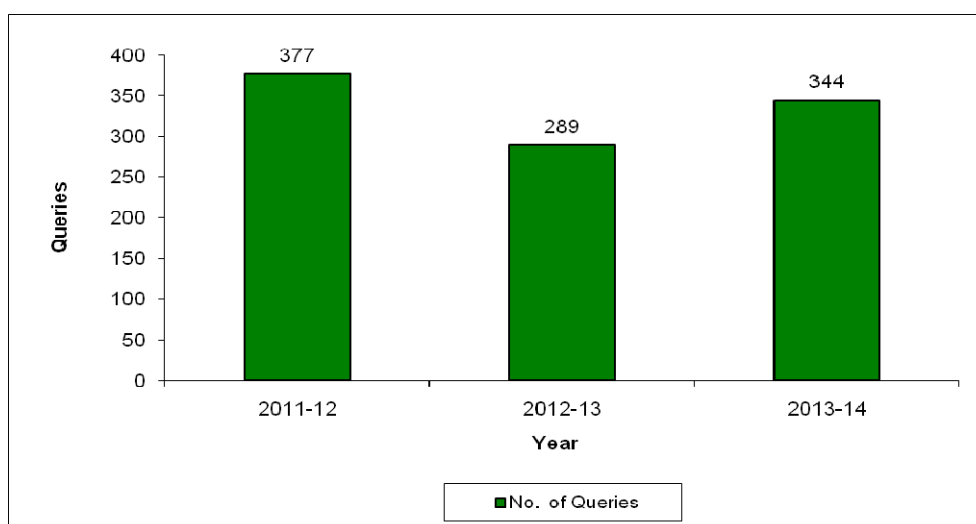
10. User Engagement and Interaction(*ENVIS Centres whose Website has been restructured may provide the Performance Report/Graphs generated therein wherever possible*):

10.1.	Total number of visits on Website:	App. 1600
10.2.	Number of unique visits on Website:	App. 100
10.3.	Number of reports downloaded/ read by stakeholders:	5

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	156	102	54 queries were not related to hazardous waste management, so redirected to contact the concerned authorities
Email	109	65	44 queries were not related to hazardous waste management, so redirected to contact the concerned authorities

Mode of Query Receipt	Number of Queries Received	Number of Queries Responded	Reasons for shortfalls, if any, and action taken to rectify
Postal	52	25	27 queries were not related to hazardous waste management, so redirected to contact the concerned authorities
Physical	27	22	5 queries were not related to hazardous waste management, so redirected to contact the concerned authorities



For 2013-14 queries were from:

- 48% - Researchers (Universities and Institutes)
- 23% - Government Sectors
- 13% - Indian Industries (Public)
- 11% - Indian Industries (Private)
- 05% - Common man (including farmers)

For 2013-14 queries were related to:

- 38% - Technology related
- 32% - Policy related
- 12% - Literature related
- 10% - Industry related
- 08% - Best practices related

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

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefor
Centre's proposed activities 2013-14		
Gap analysis study with regard to environmental laws and policies existing in India and other developed / developing countries	The related information has been compiled in respect of China, Malaysia, Singapore, South Africa, South Korea, Thailand and Japan and placed on the ENVIS-NEERI website. Still the compilation work is in progress with respect to other countries. Data analysis will be done after the compilation to study gap analysis	-

Development of Databases and strengthening of information resources in the field of hazardous waste management.	The information furnished as per the points 7.1, 7.3.1, 7.3.2, 8.1 and 8.2 has been disseminated to strengthen information resources in the area of hazardous waste management	
Development of Databases on  Production of hazardous wastes by region and industry  Database on import and dumping of hazardous wastes  Socioeconomic impacts of hazardous wastes	Initiated the related activities in 2013-14	As the information is being compiled from high impact factor journals, the database could not be formed of the desired size
Education to farmers affected due to hazardous waste being produced by industries, through distribution of pamphlets related to Dos and Don'ts with regard to hazardous waste impacts minimization	Initiated the related activities in 2013-14	Due to lack of fund, in particular with respect to TA and contingencies, the related activities could not be taken up,
Quarterly ENVIS Newsletters highlighting contemporary issues on hazardous waste and its management; particularly development of various technologies, current R&D achievements, enactments and policy related issues	Brought out four quarterly ENVIS-NEERI Newsletters as mentioned in the point 8.1	-
Development and updating of the ENVIS-NEERI website	Regular updating on ENVIS-NEERI website	-
Development and updating of the following databases: Status of technologies for hazardous waste management and their environmental impact; use of hazardous waste as a raw material (hazardous waste being generated by one industry and it is used in the same industry or another); impacts of hazardous wastes on health; abstracts database; experts database; patents database; bioremediation updates in India and abroad	The information is furnished in the points 7.1, 7.3.1 and 7.3.2. The work related to database development and updation with regard to impacts of hazardous wastes on health; experts database; patents database; and bioremediation has been initiated	-
Scientific Advisory Committee (SAC) recommendations and Suggestions by Processing and Subject Divisions, MoEF		
Update information on the Website	-Updated information on Hazardous Waste (Management, Handling & Transboundary Movement) Rules 2008 was uploaded with current guidelines and TSDF facilities for hazardous waste management -Information related to forthcoming Seminars / Conferences updated	

	<p>-Information on hazardous waste being generated in various states of India uploaded. Still more information on hazardous waste generation is being compiled from high impact factor journals to help decision makers</p> <p>-The related other more links have been uploaded</p> <p>-Information on scientific and policy studies with regard to hazardous waste management uploaded</p> <p>-Status reports uploaded</p>	
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12.	New initiatives taken during the previous Financial Year (2013-14):	<ul style="list-style-type: none"> <li>• Database development on: Production of hazardous wastes by region and industry Database on import and dumping of hazardous wastes Socioeconomic impacts of hazardous wastes</li> <li>• Compilation of various reports on hazardous waste management</li> <li>• Case studies with reference to Hazardous Waste (Management, Handling &amp; Transboundary Movement) Rules: Scientific and Policy related studies)</li> </ul>
13.	Date of most recent physical verification by the Ministry:	29.11.2012

14. Status of existing hardware:

	Hardware item	Specification	Sanction Order with Date	Date of procurement
Procured from ENVIS Grant	One Desktop Computer	Pentium IF, HT INTEL CHIPSET 3.4 GHz HT TECHNOLOGIES 80 GB SATA HDD	F. No. 11 / 16 / 96 – EI dtd. 10 <sup>th</sup> Nov. 2006	23.11.2006
Provided by Host Institute	-	-		

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	₹ 2,00,000/-	₹ 88,317	Administrative delay in recruitment of Project Assistants as per CSIR Guidelines
	Databases, etc.	₹ 70,000/-	₹ 70,000	-
	Travel & Training (contingencies & consumables, publication of newsletters)	₹ 1,10,000/-	₹ 58,139	As per the attached expenditure statement, Rs. 21,574/- are available for travel, Rs. 20,000/- for contingencies and consumables, and Rs. 10,287 for publication of newsletters
Non-Recurring	NIL			

(Hardware/ ISBEID/ Any Other)				

16. Issues/ hurdles faced in undertaking ENVIS activities: **NIL**

16.1.	ENVIS-NEERI requires to engage one more Project Assistant (besides the sanctioned three) for data analysis, having good mathematical modeling expertise
16.2.	

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## Status of data entry in ISBEID: (For State/ UT ENVIS Centres):

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 Degradation	Degraded land area				
		Degraded Irrigated land				

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
		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				
		Peaty Soil				

Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
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				
		Tanks, Lakes & Ponds				

Module	Sub-Module	Fields	Period for which data updated					
			State-level		District-level			
			Annual	Monthly	Annual	Monthly		
X. Ground Water Resource	1. Status of Ground Water	Brackish Water						
		Government Owned Canals						
		Private Canals						
		Tanks						
		Wells						
		Tube Wells						
	2. Categorization of Water Level	3. Use 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	3. Use of Ground Water	Pre-Monsoon average depth to water level				
				Post Monsoon average depth to water level				
	No. of Over Exploited Area							
	total Ground Water Resource							
	3. Use of Ground Water	3. Use of Ground Water	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. Physiographical 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	3. Botanical Gardens	Name of Botanical Garden					
			Area of Botanical Garden					
			Location					
			Uniqueness					
	4. Zoological Parks	4. Zoological Parks	Name of Zoological Park					
			Area of Zoological Park					
			Location					

Module	Sub-Module	Fields	Period for which data updated				
			State-level		District-level		
			Annual	Monthly	Annual	Monthly	
		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 <sub>2</sub>				
NO <sub>x</sub>							
Suspended Particulate Matter (SPM)							
Respirable Suspended Particulate Matter (RSPM)							
		2. Residential	SO <sub>2</sub>				
			NO <sub>x</sub>				
			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						
XV.	1. Flora	Total Species					



Module	Sub-Module	Fields	Period for which data updated			
			State-level		District-level	
			Annual	Monthly	Annual	Monthly
Bio-diversity	2. Fauna	Redbook species No.				
		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				