### 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

1.	Name of Host Organization:		CENTRAL POLLUTION CONTROL BOARD						
2.	Assigned	Subject Area:		Control of Pollution (Water, Air and Noise)					
3.	Date/Mor ENVIS C	nth/Year of esta entre:	blishment of	September 14, 1983					
4.	Name and designation of ENVIS Coordinator:		Sh. G	. Ganesl	h, Scient	ist 'D'	& I/C Libr	ary	
5.	Has the Host Organization constituted an Advisory Committee for guiding the activities of the Centre?		Yes, Date: 15 January 2015						
	Composition of the Advisory Committee :			See or	See on Website "Latest Update "Section				
6.	Current E	NVIS Staff Str	ucture:						
			Qualification Experience					2014-1	
			2.1.1.01.1.1		ENVIS	IVIS current	Leavi ng		its drawn (₹)
					Centre	position	Date (if applic able)	Monthly	Annual
	Hemlata	Information Officer	Masters in Con Application (M O Level, PGD and 14 years experience (IT sector and EN Centre)	MCA), CA	13 April 2009	April 2009	-	25,545/-	3,06,540/-
	Prem raj	IT Assistant	M.A, M.A.J.M, B.A, One yr. Dip. in Computer Application & Programming and 8 yrs experience		9 April 2009	April 2009	-	20,514/-	2,46,168/-
		Programme Officer	Post of Progra	amme C	officer (U	Jnder Pro	ocessin	g)	

### 7. Mandate of the Host Organization

#### Mandate of the ENVIS Centre

The **Central Pollution Control Board (CPCB)**, statutory organisation, was constituted in September, 1974 under the Water (Prevention and Control of Pollution) Act, 1974. Further, CPCB was entrusted with the powers and functions under the Air (Prevention and Control of Pollution) Act, 1981.

- O1. Advise the Central Government on any matter concerning prevention and control of water and air pollution and improvement of the quality of air.
- O2. Plan and cause to be executed a nation-wide programme for the prevention, control or abatement of water and air pollution;
- 03. Co-ordinate the activities of the State Board and resolve disputes among them;
- 04. Provide technical assistance and guidance to the State Boards, carry out and sponsor investigation and research relating to problems of water and air pollution, and for their prevention, control or abatement;
- 05. Plan and organize training of persons engaged in programme on the prevention, control or abatement of water and air pollution;
- 06. Organize through mass media, a comprehensive mass awareness programme on the prevention, control or abatement of water and air pollution;
- 07. Collect, compile and publish technical and statistical data relating to water and air pollution and the measures devised for their effective prevention, control or abatement;
- 08. Prepare manuals, codes and guidelines relating to treatment and disposal of sewage and trade effluents as well as for stack gas cleaning devices, stacks and ducts;
- 09. Disseminate information in respect of matters relating to water and air pollution and their prevention and control;
- 10. Lay down, modify or annul, in consultation with the State Governments concerned, the standards for stream or well, and lay down standards for the quality of air; and
- 11. Perform such other function as may be prescribed by the Government of India.

Collection, collation and dissemination of information on Control of Pollution (Water, Air and Noise) which will of immense use to decision-makers, Policy Planners, Research organizations, stakeholders and to general public.

## 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)
• Air Quality	• Air Pollution Mandate (Air prevention and control of Pollution Act 1981), functions of SPCBs, Objective of NAMP	Descriptive information;	Air prevention and control of Pollution Act 1981	Host Organization	Yes
	• Monitoring Networks Frequency and Parameters Monitored and Number of Monitoring Stations	Descriptive information; Tabular statement Year wise	31 Dec, 2014		Yes
	• <b>Findings</b> of Air Pollution and Non Attainment Cities	Descriptive information; Tabular statement	2008-2010		Yes
	• Ambient air quality standards The Gazette of India (national)	Descriptive information; Tabular statement	Nov, 2009		Yes
	• Air Quality Trends in 46 Million Plus Cities in Annual Average Concentration of SO2, NO2 and PM10	Graphical information	2000-2012		Yes
	• Air Quality Levels in 46 Million Plus Cities	Graphical information	2012		Yes

Name of Database	Description ( <i>in brief</i> )	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)
• Air Quality Database	• Special Monitoring Data contains Ambient Air levels during Deepawali	Descriptive, Press releases	2007-2014 (Annual)	Host Organization	Yes
Water Quality					
	• Mandate for Water Quality	Descriptive information;	Specified under Water Act, 1974	Host Organization	Yes
	Monitoring     Network of     National water     quality     monitoring     programme	Descriptive /Graphical information; Tabular statement	Up to 2014		Yes
	• Findings Highest Observed BOD levels	Tabular information	2012		Yes
	• Polluted River Stretches State wise, river wise	Descriptive	Up to 2014		Yes
	Parameters     under national     water quality     monitoring     programme	Tabular information	Up to 2014		Yes
	• Water quality monitoring stations-state/union territory	Tabular information	Up to 2014		Yes
	• Water Quality trends Parameter wise BOD,TC, FC	Graphical information	1995-2012		Yes

Name of Database	Description	Data type	Status of	Source(s) of data	Online
	(in brief)	(Descriptive/	Updation/		Availability
		graphical/ geospatial/ etc.)	Periodicity/ Data Points Compiled		(Whether uploaded on
		geospatiai/ etc.)	(including		ENVIS
	ļ		date/month/year		Website)
			of last data point)		,
	• Water Quality	Graphical			
	Trends in Rivers	information	2002-2012		Yes
	Rivers				
	• Water quality	Tabular			
	criteria showing	information	Up to 2014		Yes
	Use based Classification of		1		
	Surface Waters				
	in India				
Noise Pollution					
		Daganistiss	2000	Host	Vac
	• Introduction, Source and	Descriptive information;	2000	Organization	Yes
	Properties &	information,		Organization	
	measurement				
	of Noise, and				
	effect of Noise				
	• Noise mellution				Yes
	• Noise pollution (Regulation	Information	2000		103
	and Control)	in Pdf	2000		
	Rules 2000;				
	,				
		Information	2000		Yes
	• Authority list	in Pdf	2000		ies
	for implementation	in r dr			
	of Noise Rules				
	2000				
		Informat'	2000		Yes
		Information in Pdf			
	Noise limits for	111 F U1			
	vehicles;				
	• Noise	Information	2000		Yes
	standards for	in Pdf			
	Fire Crackers				
		Information	2012		
	• Fire crackers	in Pdf	2013		Yes
	Notification	111 1 01			168
	Gazette March				
	2013				

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)
Industrial Pollution	• Comprehensive Environmental Pollution Index (CEPI)	Descriptive		Host Organization	Yes
	• Monitoring Protocol in Critically Polluted Areas	Descriptive and Tabular			
	Parameters for Monitoring	Descriptive			
	• Critically Polluted Industrial clusters / areas	Descriptive and Tabular			
Latest Updates	• Online Consent Management & Monitoring System (OCMMS)	Webpage contains compiled Numeric data	Up to date	SPCBs	Yes
	• Environmental standards	Link given to Host Organization		Host Organisation	Yes
Related Links	List of State Pollution Control Boards and Pollution Control Committee's Websites and Official Contacts; links to other ENVIS Centers, National and International environmental agencies	Website Links and compiled data in pdf form	Up to date	Web	Yes
Web Statistics	An overview of Visitor Summary, visit summary, Page View summary	Information in Pdf	2010-2014	Webstat.nic.in	Yes

		1			
Name of Database	Description (in brief)  and Hit summary	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)
	of Website				
Latest News	• News clippings of Environment	Informative	2014-2015	Various Newspapers	Yes
Publications	Newsletters     Annual	Descriptive	Up to Date	ENVIS and CPCB Newsletters	Yes
	Progress Reports and Annual Reports			ENVIS and CPCB	Yes
	• Publications List			СРСВ	Yes
Kids Corner	• Environment Calender	Descriptive	Up to Date	Web	Yes
	• Do's and Dont's	Descriptive		СРСВ	Yes
	• Posters			Zonal Office, CPCB	Yes
	<ul><li>Carbon footprint Calculator</li></ul>	Online Tool		Web	Yes
Experts	• Expert Contact Details	Descriptive		CPCB	Yes
Glossary	• Alphabetical list of terms.		Up to Date	Web	Yes
On Demand Publications	<ul><li>Scanned CPCB publications</li><li>Gray Literature</li></ul>		Up to Date	CPCB Library	Yes
Events & Activities	• Seminars, Workshop of ENVIS		Up to Date	ENVIS	Yes
Bibliography	• List of the sources used to get information for report		Up to Date	Web	Yes

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

Name of Database	Description	Time Period (Starting	Source(s) of data	Online
	(in brief)	year- Ending year)	( )	Availability
		and Periodicity		(Whether
		(annual/ monthly/		uploaded on
		other)		ENVIS Website)
Air Quality			Host	
Database	Air Quality data		Organization	
	(Parameter Wise)	2007-2012		Yes
	National Ambient Air	(Annual)		103
	Quality Status for	, , ,		
	SO2, NO2, PM10,			
	SPM, RSPM			
				Yes
	• Air Quality data	2007 2011		
	(Metropolitan Cities Wise)	2007-2011 (Annual)		
	(VISC)	(Allilual)		Yes
	• Archive Section of Air			103
	Quality data	2001-2006		
		(Annual)		Yes
On Line Database				
	• Real time data on Air	Online		Yes
Water Quality	• National Water Quality	Onnie	Host	168
Database Quanty	data		Organization	
			-	
		2007-2012		Yes
	• Water Quality data River wise	(Annual)		
	WISC	2007 2012		
	• Water Quality data	2007-2012		Yes
	Medium and Minor	(Annual)		ies
	River (State wise)			
	• Water Quality data	2007-2012		
	Creeks and canal	(Annual)		Yes
	• Water Quality data Lake	2007-2012		37
	ponds and Tank (State wise)	(Annual)		Yes
	(1100)	2007-2012		
	• Water Quality data	(Annual)		Yes
	Ground Water (State			
	wise)			
	Water Quality data (Year	2007-2012		Yes
	wise)	(Annual)		
	Archive Section of	2002-2006		Yes
	Water Quality data	(Annual)		
	Traici Quality data	` ′		

Name of Database	Description	Time Period (Starting Source(s) of data		Online
	(in brief)	year- Ending year)		Availability
		and Periodicity		(Whether
		(annual/ monthly/		uploaded on
		other)		ENVIS Website)
On Line Database				
	• Real time data on Water	Online	Host	Yes
			Organization	
<b>Noise Monitoring</b>				
Database				
	• Noise Monitoring Data	2011- 2013	TT .	
	of 7 cities (35 Stations);	(upload 2011 and 2012 noise data in database)	Host Organization	Yes
On Line Database	• Real time data on Noise	Online		Yes

8.3. New Databases developed during the previous Financial Year (2014-15):

Redesigned and Redeveloped CPCB ENVIS Website in accordance with the uniform template of restructured ENVIS websites and hosted by ENVIS Centre 01 team, CPCB. (2014-2015)

#### 8.3.1. 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)
Air Quality	<ul> <li>Air Quality Trends in 46 Million Plus Cities</li> <li>Air Quality Levels (annual) in 46 Million Plus Cities</li> </ul>	Graphical Graphical	2000-2012	Host Organisation	Yes
Water Quality	<ul> <li>Water Quality         Trends (parameter wise)     </li> <li>Water Quality         Trends in Rivers     </li> </ul>	Graphical information  Graphical information	1995-2012 2002-2012	Host Organisation	Yes

Name of Database	Description (in brief)  • Fire crackers	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  Host	Online Availability (Whether uploaded on ENVIS Website)
Pollution	Notification Gazette March 2013	in Pdf	2013	Organisation	103
Industrial Pollution	• Comprehensive Environmental Pollution Index (CEPI)	Descriptive		Host Organisation	Yes
	Monitoring     Protocol in     Critically     Polluted Areas	Descriptive and Tabular			
	Parameters for Monitoring	Descriptive			
	Critically     Polluted     Industrial     clusters / areas	Descriptive and Tabular			
Related Links	List of State Pollution Control Boards and Pollution Control Committee's Websites and Official Contacts; links to other ENVIS Centers, National and International environmental agencies	Website Links and compiled data in pdf form	Up to date	Web	Yes
Web Statistics	An overview of Visitor Summary, visit summary, Page View summary and Hit summary of Website	Information in Pdf	2010-2014	Webstat.nic.in	Yes

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)
Latest News	News clippings of Environment	Informative	2014-2015	Various Newspapers	Yes
Publications	<ul> <li>Newsletters</li> <li>Annual Progress Reports and Annual Reports</li> <li>Publications List</li> </ul>	Descriptive	Up to Date	ENVIS and CPCB Newsletters ENVIS and CPCB	Yes Yes
Kids Corner	<ul> <li>Environment Calender</li> <li>Do's and Dont's</li> <li>Posters</li> <li>Carbon footprint Calculator</li> </ul>	Descriptive  Descriptive  Online Tool	Up to Date	Web  CPCB  Zonal Office, CPCB  Web	Yes Yes Yes Yes
Experts	• Expert Contact Details	Descriptive		СРСВ	Yes
Glossary	• Alphabetical list of terms.		Up to Date	Web	Yes
On Demand Publications	<ul><li>Scanned CPCB publications</li><li>Gray Literature</li></ul>		Up to Date	CPCB Library	Yes
Events & Activities	• Seminars, Workshop of ENVIS		Up to Date	ENVIS	Yes
Bibliography	• List of the sources used to get information for report		Up to Date	Web	Yes

8.3.2. Numeric and Time-series Databases:

NT C	8.3.2. Numeric and Time-serie		G () C1:	0.11
Name of	Description	Time Period	Source(s) of data	Online
Database	(in brief)	(Starting year-		Availability
		Ending year)		(Whether
		and Periodicity		uploaded on
		(annual/		ENVIS
		monthly/ other)		Website)
Air		moning, oner)		Website)
Quality		2012	TT 10	*7
Database	Air Quality data (Parameter)	2012	Host Organization	Yes
	Wise) National Ambient Air	(Annual)		
	Quality Status for SO2, NO2,			
	PM10, SPM, RSPM			
Water	National Water Quality data		Host Organization	
Quality				
Database				
Database	Water Quality data River wise	2012		Yes
	water Quarty data raver wise			168
	Water Quality data Medium and	(Annual)		
	Minor River (State wise)	2012		
	Timor rever (State Wise)	2012		
	Water Quality data Creeks and	(Annual)		Yes
	canal			
	Canai			
	- Water Oveliter data I also nonda	2012		
	• Water Quality data Lake ponds	(Annual)		Yes
	and Tank (State wise)	(Timital)		105
	Water Ovality data Crown	2012		
	• Water Quality data Ground			Yes
	Water (State wise)	(Annual)		res
	W. O. P. 1. (V.	2012		
	• Water Quality data (Year wise)	2012		
		(Annual)		Yes
	W	2012		Yes
	Water Quality data	(Annual)		
NI				
Noise				
Monitoring				
Database				
	• Noise Monitoring Data of 7	2011- 2013	Host Organization	Yes
	cities (35 Stations);	(upload 2011	-	
		and 2012		
		noise data in		
		database)		
		uatavase)		

### 9. Information/ Knowledge Products:

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

Quarter/ Volume/	Main Articles	Number of copies
Issue/ Theme		printed and circulated
	2 newsletters Compiled, formatted (UNDER PROCESS)	

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

Publication/	Theme(s)/ Subject Area(s)	Number of copies printed and
Product		circulated
Scanned	Scanned in house S & T publications	Uploaded on Website "On
Publication		demand Publication" Section
Gray	Gray literature is informally published written	Uploaded on Website "On
Literature	material (such as reports) that may be difficult	demand Publication" Section
	to trace.	

### 9.3. Information Products published/ released so far:

Publication/	Theme(s)/ Subject Area(s)	Year of
Product		publication
	3 Information Products Compiled, formatted and submitted	
	for technical inputs (UNDER PROCESS)	

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

10.1.	URL:	www.cpcbenvis.nic.in	
10.2.	Status of restructuring of Website:	Restructured on (DD/MM/YYYY)	Not restructured (✓)
10.3.	Frequency of updating Website:	Regular	
10.4.	Subject-specific database updation (numeric/ others):	Regular	
10.5.	Publication uploaded/ updated on Website:	Yes	

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

## (1 April 2014 to 18 March 2015)

11.1.	Total number of visits on Website:	1,91,616
11.2.	Number of unique visits on Website:	10,703
11.3.	Number of reports downloaded/ read by stakeholders:	4,01,672

### 11.4. Query-Answer Statistics:

Mode of	Number of Queries	Number of Queries	Reasons for shortfalls, if any, and action
Query Receipt	Received	Responded	taken to rectify
Online			nil
Email	80-90 (yearly)	80-90 (yearly)	nil
Postal			nil
Physical	550 (yearly)	550 (yearly)	nil

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

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefor
Collection and Compilation of Information and Data	On going, Regular	
Maintenance of ENVIS Website and User Engagement Through It	On going, Regular "Webstatistics" Section & "Kids Corner" incorporated on website	
Publications and Value-Addition	Newsletters and information products are compiled, formatted and submitted for technical inputs; Scanned copies of Scientific & Technical Reports are uploaded under "On demand publication" Section	
Reaching Out/Networking Activities	On going, Regular Activities; information provided under "Latest update" and "Related Link" section	
Other Activities	On going, Regular; Expert list under "Experts" section and coordination with the Ministry for dissemination of relevant and adequate information.	Collection of Updated CVs process going on.
CPCB ENVIS will bring out at least one knowledge/ inform, products annually to start with, peer reviewed by Subject Experts, in addition to the quarterly Newsletters. These may be in the form of brochures, pamphlets, special publications and the like, which may be priced if considered suitable.	An Advisory committee constituted on 15 January 2015 would be conveyed to bring out at least one knowledge/inform, products annually with, peer reviewed by Subject Experts.	

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefor
CPCB ENVIS will provide necessary links to all State Pollution Control Boards in its Website and will compile and upload data/ information from all such other sources in a user-friendly format.	Information provided under "Related Links" and "Latest Update" Section.	
CPCB ENVIS Complete restructuring of the ENVIS Website, including making it more informative, interactive and attractive and also providing linkages to other relevant websites on ENVIS network. Developing an E-library, E-cataloguing and cross referencing, with multiple searches, may also be taken up.	Restructured and hosted in July 2014 and also provide linkages to other relevant websites on ENVIS network.	
CPCB ENVIS, through its various Divisions/ Sections, will enable the compilation of all descriptive and numeric databases, including geospatial information, concerning the mandate of the Centre (Control of Pollution Water, Air and Noise) in the web-enabled format, while ensuring that there is neither duplication nor any time lag in the uploading of such information in the ENVIS Centre's Website.	On going, Regular	
Regarding manpower, CPCB ENVIS will recruit a Programme Officer, in accordance with the ENVIS Guidelines.	Advertisement has been released	
CPCB ENVIS will provide dedicated/ earmarked office space to the ENVIS Centre, which facilitates both its collection and compilation and also dissemination of information in the thematic area.	Dedicated/ earmarked office space to the ENVIS Centre is being provided.	
Uploading information on registered users like researchers/ policy makers, students, other environment relevant institutes, organizations, etc.	Information is being disseminated.	
Development of database on Policies/ Programmes/ Projects on thematic area being taken up by various States, and also at national level.	Hosted on website.	

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefor
Development of information kits for school students.	Eco Information Kit "Green Calendar" has been prepared for consideration. (UNDER PROCESS)	
Inclusion of analytics for the website in terms of number of hits, downloads, queries, uploading of data/ articles by users, besides monitoring frequency of updates which could be either built into the site itself or analysed separately.	Information provided under "Webstatistics" Section	
Compilation of information on initiatives taken at national, State and district levels as well as abroad.	Diseminatted	
Compilation of databases on conferences, workshops, seminars, etc., organized by governmental and nongovernmental initiative.	On going, Regular; Information provided under "Events & Activities" Section,	
Take up activities recommended by the Scientific Advisory Committee (SAC) in its meeting held on 24-25 June, 2013 such as:  a. Centre should provide induction materials for visitors.  b. Information should be arranged in a user friendly way and be made interactive and self-contained.  c. Upload information on hazardous waste, solid waste, plastic waste, electronic waste, bio medical waste etc.  d. Upload information on trends of pollution at city, state and national level.  e. Upload information on sustainable development, green growth, ecological security and energy security.  f. List R&D institutions, policies, regulations, programmes and journals on the website.  g. An ENVIS Advisory Committee should be constituted by the Centre for guiding its activities.	Website redesigned and restructured to making it more informative, interactive and attractive. Other than thematic area information on Industrial Pollution is already been hosted and other area data being collected. An Advisory committee constituted on 15 January 2015	

13.	New initiatives taken during the previous Financial Year (2014-15):	Redesigned and Redeveloped ENVIS website hosted in NIC platform.
14.	Date of most recent physical verification by the Ministry:	25 April 2014

## 15. Status of existing hardware:

	Hardware item	Specification	<b>Sanction Order</b>	Date of
			with Date	procurement
Procured	2 desktop	HP, windows 8	No. 11/2/96 – EI	26 March
from ENVIS	1 Multifunction	Kyocera, Taskalfa 2200	dated 27 Dec	2014
Grant	photocopier, printer,		2013	
	scanner			
	2 UPS	Venus	No. 11/2/96 – EI	12 Sept 2014
			dated 27 Dec	
			2013	
Provided by	2 desktop	HP, window XP		
Host Institute	1 scanner	HP Scanjet		

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

	Head of Expenditure	Sanctioned amount (₹)	Actual Expenditure (₹)	Reasons for Shortfall/ Excess (if any)
Recurring	Manpower	7,67,118/-	5,32,254/-	
Annual	Databases, etc. (DAVP for PO advt.)	3,50,000/-	6,475/-	
	Travel & Training	50,000/-	11,103/-	
Non-	2 desktop	90,000/-	)	
Recurring (Hardware/ ISBEID/	1 Multifunction photocopier, printer, scanner	55,000/-	1, 47,591/-	
Any	2 UPS	5,000/-	J	
Other)				

### 17. Issues/ hurdles faced in undertaking ENVIS activities:

17.1.	Non Printing of Knowledge Products/ Newsletters and other publications
17.2.	Lack of Infrastructure.

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