

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

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Annual Progress Report(APR)- 2016-17 on Activities of ENVIS Centre -Puducherry

Updated on 10.03.2017

1.	Name of Host Organization:	Puducherry Pollution Control Committee
2.	Assigned Subject Area:	Status of Environment and related issues
3.	Date/Month/Year of establishment of ENVIS Centre:	September- 2005
4.	Name and designation of ENVIS Coordinator:	Dr. N. Ramesh Environmental Engineer, Department of Science, Technology & Environment
5.	Has the Host Organization constituted an Advisory Committee for guiding the activities of the Centre?	An Editorial Board has been constituted with the following Members
	Composition of the Advisory Committee :	M. Dwarakanath Member Secretary(PPCC) Dr. N. Ramesh EE(DSTE)/ENVIS Co-ordinator J. Nithiya Programme officer G.Sivasubramanian IT Assistant

6. Current ENVIS Staff Structure:							
Name	Position held	Qualification and Experience	Joining Date in ENVIS Centre	Joining Date in current position	2016-17		
					Leaving Date (if applicable)	Emoluments drawn (₹)	
						Monthly	Annual
Dr. N. Ramesh	Environmental Engineer – DSTE ENVIS Co-ordinator	M.Tech,MS,M.Phill.P. hd	ENVIS Coordinator	-do-	-		
J.Nithiya	Programme Officer	B.Sc (Agri)., M.sc (Ecology & Evt.Science)., M.Tech (Envt.Engg) Experience-2 YEARS in Environment Engineering field. 1 months Working experience in ENVIS	10-02-2016	-do-	-	Rs.22,000	Rs.2,64,000
G.Sivasubramanian	IT Asst.	B.Sc(Physics).,M.C.A., Experience 1. From 2000-2002 worked as the Computer Instructor at Govt.Hr.Sec.School, Buvanagiri, Tamilnadu Through EVERONN Systems. 2. From May 2002 to	03-10-2005	-do-	-	Rs.13,514	Rs. 1,62,168

			<p>Sep.2005 worked as Lab Faculty In the Rajiv Gandhi College of Engineering and Technology, Pondicherry.</p> <p>3. Since, Oct 2005 Till date working as the IT Asst, ENVIS Centre, Puducherry Pollution Control Committee, Puducherry-5</p> <p>TotalExperience-14 years</p>					
7.	Mandate of the Host Organization	Mandate of the ENVIS Centre						
	Enforcement of Pollution Control Acts and Rules	Status of Environment and related issues						

8. Databases:

8.1. 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>)
1.Solid waste management	<p>The problem of Municipal Solid Waste (MSW) Management has acquired alarming dimensions' in country especially over the last decode.</p> <p>In the present issue the ENVIS, PPCC bring out the bibliography on MSW Management. The data were collected from various sources through internet which includes the data mainly from journals of national and international repute.</p>	Descriptive,	Monthly, Yearly Collection of material from Local administrative Department	LAD, Govt. of Puducherry	Uploaded in the ENVIS Website
2.Waste to Energy	Energy is the basic requirement for all the activities. Growing demand for energy results in increasing dependency over fossil fuels as most	Descriptive	Monthly, Yearly Collection of material from	Source: http://www.undp.org.in http://www.iredaltd.com	Uploaded in the ENVIS Website

	<p>of the energy is delivered from them.</p> <p>The Waste generation is continuous process, the energy obtained from the waste is considered as renewable energy Waste –to-Energy significantly reduces methane gas emissions , convert of the wastes these valuable emissions from an environmental problem into a profitable product is the key challange Some of the important methods of Waste-to-Energy are dealt in this News letter.</p>				
3. E-Waste	This issue brings into focus on the statistics, methods of disposal, problems/dangers and the laws in the e-waste and concludes with an urgent need for improvement in e-waste management.	Descriptive	Monthly	Source: CII, 2006; http://www.ban.org Source: CII, 2006, http://www.ban.org ; http://www.computertakeback.com ;	Uploaded in the ENVIS Website
4. Bio-Medical Waste Management	<p>In this newsletter the following points on Bio-Medical waste management are discussed</p> <p>(1) Why BMW needs management (2) Rules & Provisions of BMW (3) Successive waste disposal Mechanism (4) Action plan needed (5) NGO'S in BMW and recommendations</p>	Descriptive	Monthly,	Source: The Hindu, July 26, 2005; The Hindu, April 11, 2006; http://www.bcpt.org.in / biomedical.pdf ; www.teri.org ; http://kspcb.kar.nic.in/BMW/quantityofwaste.asp	Uploaded in the ENVIS Website

5.Agriculture Waste Management	In recent years, biomass contributes to 14% of the total energy supply worldwide and this account to about 38% for developing countries, predominantly in the rural and traditional sectors.	Descriptive	Monthly,	Source: http://www.itcltd.com/docs/briquette ; http://ces.iisc.ernet.in/energy	Uploaded in the ENVIS Website
6.Plastics disadvantages , advantages	This issues brings into focus on-Plasticsdisadvantages,advantages,classification and usages and disposal of plastics	Descriptive	Monthly,	Sources: http://en.wikipedia.org/wiki http://news.bbc.co.uk http://www.boloji.com/society http://www.envis-icpe.com http://www.recyclingpoint.com http://www.eia.doe.gov/ http://www.tribuneindia.com	Uploaded in the ENVIS Website
7. Plastics-Disadvantages,Developments of Degradable Plastics	This issue brings into focus on plastics-disadvantage, Universal remedy for plastic reduce, reuse and recycle	Descriptive	Monthly		Uploaded in the ENVIS Website
8.Municipal Solid waste	The problem of Municipal solid waste(MSW) Management has acquired alarming dimensions in country especially over the last decade. In the present issue,ENVIS,PPCC bringing out the bibilography on MSW Management	Descriptive	Monthly	Sources http://www.sanicon.net/home.php3 http://www.sanicon.net/titles/topicintro.php3?topicId=4 The economic times, 18 Dec 2007	Uploaded in the ENVIS Website

9.Abstract on Municipal solid waste	Municipal solid waste collection, treatment & disposal are a environmental concern one that is growing every year. This issue focuses on the complete scenario of MSW and its management, helps to understand the details about the ill effects of improper disposal and possible eco-friendly management method that could be employed in the U.T	Descriptive	Monthly	Source: http://eprints.iisc.ernet.in/.html	Uploaded in the ENVIS Website
10.E-waste Management	This issue brings into focus on the statistics, methods of disposal, problems/dangers and the laws in the e-waste management.	Descriptive	Monthly	http://www.ban.org ; http://www.computertakeback.com ;	Uploaded in the ENVIS Website
11.Clean Development Mechanism	The Clean Development Mechanism(CDM) is an arrangement under the Kyoto Protocol allowing industrialized countries with a greenhouse gas reduction commitment to invest in project that reduce expensive emission reductions in their own countries. This issue discussed about CDM.	Descriptive	Monthly	Source: http://unfccc.int/ http://en.wikipedia.org/wiki/United_Nations_Framework_Convention_on_Climate_Change/ http://www.cdmindia.com/ http://www.natcomindia.org http://www.kyomecha.org/pdf/TERI_Report_0729.pdf http://cdm.ccchina.gov.cn/WebSite/CDM/UpFile/File1281.pdf . www.cdmpipeline.org , www.cd4cdm.org and www.unepri.org http://www.scribd.com/ http://www.carbonfinance.org/ http://www.oecd.org/	Uploaded in the ENVIS Website
12.Special Waste	Special waste due to its hazardous	Descriptive	Monthly	Mobile vans to manage e-waste Source : The Hindu, September	Uploaded in the ENVIS Website

	<p>nature requires unique handling, treatment, and disposal. These waste while in direct contact can cause ill effect on health and the environment especially to rag/waste pickers. This newsletter reviews the topic of special wastes superficially. There are a number of special wastes that are generated in an urban area.</p>			<p>20, 2008 Waste management vital to prevent release of dioxins' Source: The Hindu, 29th October 2008 Ramky bags Assam waste management order Source: The Hindu, Business Line, October 29, 2008 E-waste management: Bangalore shows the way Source: Indian Express, September 11, 2008 Waste management campaign in public domain Source: Indian Express, September, 18, 2008</p>	
13. Electronic Waste - Abstract	<p>E-Waste or electronic waste is one of the rapidly growing environment problem of the world. In India the E-waste Management assumes greater significance not only due to the generation of our waste but also dumping of E-Waste particularly computer waste from the developed countries. This issue brings into focus some of the abstracts on eco-friendly E-Waste Management</p>				<p>Uploaded in the ENVIS Website</p>

	process in recent times.				
14. Slaughter House Waste	<p>A Slaughter house also called an abattoir is a facility where animals are killed and processed into meat foods.</p> <p>In this news letters, focusing on problems due to unauthorized slaughter house waste, prevailing process, measures proposed to improve the slaughter house management curbing activities of illegal <u>slaughting</u> of animals, Global eco-friendly case studies and slaughter house waste in Puducherry.</p>	Descriptive	Monthly	Source: http://www.cababstractsplus.org/abstracts/Abstract.aspx?AcNo=20053118900	Uploaded in the ENVIS Website
15. Hazardous Waste Management	This article focuses on the current status, problems and challenges, policy issues, policy and future strategies for improvement in HW managements system in India.	Descriptive	Monthly	Source: http://www.emergency-management.net/ http://www.cpcb.nic.in/hpreport/ http://bvbabu.50megs.com/customer.html/#16 http://sdnp.delhi.nic.in/soer/ind_waste.pdf .	Uploaded in the ENVIS Website

				http://www.ngdc.noaa.gov/seg/hazard/resource .	
16.Bio-Diversity in wetlands	Wetlands are one of the most productive ecosystems, comparable to tropical evergreen forests in the biosphere and play a significant role in the ecological sustainability of a region. This issue gives an outline on the wetlands and its biodiversity.	Descriptive	Monthly	<p>Source: Department of Survey and Land records, Government of Puducherry. http://www.undp.org/biodiversity http://www.wcmc.org http://www.iisc.ernet.in http://www.swif.ait.ac.th/ http://www.tropecol.com http://en.wikipedia.org/wiki/Wetland http://www.ens-newswire.com/ens/</p>	Uploaded in the ENVIS Website
17. wetlands-Abstract	Wetland are special land resource and play a unique and valuable ecological role, Wetlands, the fragile ecosystems, are declining in most pars of the world. Wetlands are helpful	Descriptive	Monthly		Uploaded in the ENVIS Website
18.Bio-Diversity	Bio Diversity – The variety of plants, animals and Eco systems in the world is a measure of our plants wealth. Bio Diversity is defined in terms of variability in genes, species and eco	Descriptive	Monthly	Source: Forest Department Govt.of Puducherry	Uploaded in the ENVIS Website

	system. In this issue, an effort has been made to highlight the status of Oussudu lake and the efforts that are being made to conserve and improve the habitat				
19.Green House Gas Inventory	<p>While finalizing the state Climate Change Action Plan, it was felt that baseline emission data is needed to evaluate the interventions that are implemented. The exercise was taken up to estimate the emission from various activities across the UT.</p> <p>For the purpose of computing GHG emission from various sectors viz domestic, transport, waste, industry, agriculture, etc. approach outlined in IPCC 2006 Guidelines and India Second National Communication to the United Nations Framework Convention on Climate Change published in 2012 by MOEF & CC, Govt. of India were followed.</p>	Descriptive	Monthly	Source: Department of Science, Technology and Environment	Uploaded in the ENVIS Website
20. Sacred Groves of Puducherry	Sacred groves are our rich heritage and play an important role in the religious and socio cultural life of the local people. Hunting and logging	Descriptive	Monthly	Dr.Krishnan (Officer on special Duty ,Retd),State Training Centre, Education Department, Government of Puducherry	Uploaded in the ENVIS Website

	<p>are usually prohibited within these patches. Other forms of forest utilization like collection of fire wood and minor forest produce are sometimes allowed on a sustainable basis.</p> <p>Sacred groves are ecosystems by themselves and perform all basic ecological functions. Many endangered and rare species of plants and animals are protected in the sacred groves, and hence they serve as the repositories of the biological wealth of the nation.</p> <p>Indian sacred groves are sometimes associated with temples, shrines or with burial grounds. Typically such groves are associated with the concept of a presiding deity. While most of the sacred groves deities are associated with local Hindu Gods, also based on local religion and folk regions (like the folk deities Aiyandar and Amman), there are over 1000 deities associated with sacred groves in the states of Kerala and Karnataka alone.</p>				
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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)																																																									
National Hazardous waste Information system	<p>Authorization statistics of Hazardous waste generating units</p> <p>Region wise Break-up HW Based on disposal waste</p> <table border="1" data-bbox="369 555 1256 900"> <thead> <tr> <th rowspan="2">Sl. No</th> <th rowspan="2">Region</th> <th colspan="3">Quantity of HW in TPA</th> <th rowspan="2">TOTAL</th> </tr> <tr> <th>SLF*</th> <th>RCL**</th> <th>INC** *</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Pondicherry</td> <td>132.3</td> <td>36243.06</td> <td>25.11</td> <td>36400.7</td> </tr> <tr> <td>2</td> <td>Karaikal</td> <td>3.36</td> <td>63.42</td> <td>0.84</td> <td>67.62</td> </tr> <tr> <td>3</td> <td>Yanam</td> <td>-</td> <td>3017.8</td> <td>1.2</td> <td>3019</td> </tr> <tr> <td>4</td> <td>Mahe</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td colspan="2">Total</td> <td>135.67</td> <td>39,324.28</td> <td>27.15</td> <td>39487.32</td> </tr> </tbody> </table> <p>SLF*-Sanitary Land Filling RCL**-Recyclable INC***-Incinerable</p> <p>Issue of Authorization –Region wise</p> <table border="1" data-bbox="369 1121 1263 1353"> <thead> <tr> <th>Sl.No</th> <th>Region</th> <th>Total No. of Units</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Pondicherry</td> <td>94</td> </tr> <tr> <td>2</td> <td>Karaikal</td> <td>07</td> </tr> <tr> <td>3</td> <td>Yanam</td> <td>03</td> </tr> <tr> <td>4</td> <td>Mahe</td> <td>Nil</td> </tr> <tr> <td colspan="2">Total</td> <td>104</td> </tr> </tbody> </table>	Sl. No	Region	Quantity of HW in TPA			TOTAL	SLF*	RCL**	INC** *	1	Pondicherry	132.3	36243.06	25.11	36400.7	2	Karaikal	3.36	63.42	0.84	67.62	3	Yanam	-	3017.8	1.2	3019	4	Mahe	-	-	-	-	Total		135.67	39,324.28	27.15	39487.32	Sl.No	Region	Total No. of Units	1	Pondicherry	94	2	Karaikal	07	3	Yanam	03	4	Mahe	Nil	Total		104	Annually	PPCC Records	Upload on ENVIS website
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Municipal solid waste	Total Quantity of MSW IN Pondicherry-600 TPA	Annually	PPCC Records	Upload on ENVIS website
Industrial Solid waste				

8.3. New Databases developed during the previous Financial Year (2016-17): Nil

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

9. Information/ Knowledge Products:

9.1. ENVIS Newsletters published during the previous Financial Year (2016-17):

Quarter/ Volume/ Issue/ Theme	Newsletter Name	Number of copies printed and circulated
Jan-march/ VII-VOLUME/I- Issue	Industrial Case study of Herbal Garden	200 Copies and circulated all ENVIS CENTRES
April-June VII-Volume/II- Issue	Forest Resources in Puducherry	200 Copies and circulated all ENVIS centres, MoEF
July-September VII-Volume/III- Issue	Status of Ambient Air Quality & Air Quality Index in the U.T. of Puducherry for the year 2016	200 Copies and circulated all ENVIS centres, MoEF&Climate Change

Quarter/ Volume/ Issue/ Theme	Newsletter Name	Number of copies printed and circulated
October – December VII- Volume/IV Issue	State Tree of Puducherry (Vilvam)	200 Copies and circulated all ENVIS centres, MoEF&Climate Change

9.2. Other publications/ information products brought out during the previous Financial Year (2016-17):

Publication/ Product	Theme(s)/ Subject Area(s)	Number of copies printed and circulated
Annual survey of Environment Report	Theme: Think-eat –save (release –in june-5 th -2013) Raise Your voice not the Sea level(editing Stage)	300 Editing stage of the Annual Environment Report

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

10.1.	URL:	http://dste.puducherry.gov.in/envisnew/envis1.htm	
10.2.	Status of restructuring of Website:	Restructured (under upgradation)	Not restructured
10.3.	Frequency of updating Website:	NEWS –DAILY EVENTS-WEEKLY,MONTHLY PUBLICATIONS-MONTHLY FEED BACK AND QUERY STATUS-WEEKLY	

10.4.	Subject-specific database updation (numeric/ others):	Environmental related data base specifically updated
10.5.	Publication uploaded/ updated on Website:	Publication of ENVIS Newsletters and other annual Reports have been 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*):

11.1.	Total number of visits on Website:	Total No.of visitors 38230 since : 2007
11.2.	Number of unique visits on Website:	2178
11.3.	Number of reports downloaded/ read by stakeholders:	19 Reports downloaded from CPCB and 12 from zonal office Bangalore

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			
Email	78 queries received from dste.pon@nic.in and envis.pon@nic.in	Responded all received Queries	Does not arise
Postal			
Physical	25	25	

<i>User engagement and interaction</i>	<i>FY 2016-17</i>	<i>FY 2015-16</i>	<i>FY 2014-15</i>
i. Total number of visits	48587	33262	4525
ii. Number of unique visits	45863	30128	3965
iii. Reports Downloaded/Read	19 Report Download From CPCB & 12 From Zonal Officer Bangalore	19 Report Download From CPCB & 12 From Zonal Officer Bangalore	19 Report Download From CPCB & 12 From Zonal Officer Bangalore
iv. Total Number of Queries received	4614	3614	1933
v. Number of Queries responded	4571	3254	1546
vi. Grade received			

12. Implementation of Annual Plan of Activities of the previous Financial Year (2016-17):

Activity/ Target	Achievements	Shortfalls, if any, and reasons therefor
Centre's proposed activities 2017-18		
Development of Databases/Studies: - No new study/database proposed; - Collection of PhD theses on solid waste management and to	The centre has collected information from thesis and dissertation in the allotted topic from education institution and from internet	

be placed in the website		
<p>Incorporation of features in the website:</p> <ul style="list-style-type: none"> - Revamp ENVIS website - Regular updation of content - Newsletters - Quiz 	<p>-Revamp of ENVIS website is under construction. -Regular updation of current content</p> <p>Newsletters</p> <p>ENVIS Newsletters are quarterly published every Year (4news letter per year) from 2005 till 2017and uploaded in the ENVIS website. (First Quarter Jan-March,Second Quarter-April-June,Third Quarter July-Sep,Fourth Quarter Oct-Dec)</p> <p>22 news letter have been were published and Circulated to all ENVIS centres ,all department in the U.T of Pondicherry,Stakeholders,institutions</p> <p>Quiz:</p> <p>Quiz Programme were conducted in the School and institutions at Puducherry region</p>	
<p>Publications</p> <ul style="list-style-type: none"> - Quarterly newsletters (4 nos.) 	Two newsletter has been published	
<p>Other activities</p> <ul style="list-style-type: none"> - Filling up Programme Officer post 	Under process	
ENVIS Workshop, Feb 2012 and post-workshop follow-up		
<p>Completion of data entry in all respects for ISBEID pertaining to modules (up to 2012-13), namely:</p> <ul style="list-style-type: none"> - Forest Resources 	<ul style="list-style-type: none"> -Forest Resource- completion of data entry up to 2011 - Water Pollution -completion of data entry up to 2013 - Air Pollution - completion of data entry up to 2013 - Biodiversity - Completion of of data entry in all respects 	

<ul style="list-style-type: none"> - Water Pollution - Air Pollution - Biodiversity - Ecology - Waste - Water Resources - Tourism and Heritage 	<p>for ISBEID Upto 2013</p> <ul style="list-style-type: none"> - Ecology - Completion of of data entry in all respects for ISBEID Upto 2014 -Waste- Completion of of data entry in all respects for ISBEID Upto 2013 -Water resource- Completion of of data entry in all respects for ISBEID Upto 2014 -Tourism and Heritage - Completion of of data entry in all respects for ISBEID Upto 2014 	
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Suggestions for improvement by Processing Division, MoEF

<p>Miscellaneous observations:</p> <ul style="list-style-type: none"> - More productive use of ISBEID data by publishing papers, analysis reports, etc. - Update ISBEID data more frequently. Use more modules. Complete back data entry. - Authenticate data and use proper references/citations both in ISBEID and Website. Provide references to only published/verifiable sources. - Develop better content to engage and elicit public participation, visits, queries and downloads etc. to the website. - Develop more value-added products such as books, SoER, CD/DVDs, Software and databases etc. 		
13.	New initiatives taken during the previous Financial Year (2014-15):	Collection of data pertaining to climate change with respect to U.T.of Puducherry
14.	Date of most recent physical verification by the Ministry:	22.11.2012

15. Status of existing hardware:

	Hardware item	Specification	Sanction Order with Date	Date of procurement
Procured from ENVIS Grant	Desktop-Acer-1	Intel® Corei7-2600cpu@3.40 3.40 GHZ Installed Memory-2.00 GB 32-Bit Operating system	No.11/77/2004-EI DATE:29-11-2013	04.07.2013
	Numeric-UPS-2Nos	Numeric Digital 600EX	do	15-07-2013
Provided by Host Institute				

16. Status of utilization of grant in previous year (2016-17) and reasons for shortfalls, if any:

	Head of Expenditure	Sanctioned amount (₹)	Actual Expenditure (₹)	Reasons for Shortfall/ Excess (if any)
Recurring Annual	Manpower	4,44,000	4,68,060	
	Databases, etc.	2,80,000	2,05,430	
	Travel & Training	50,000	44,312	
Non-Recurring (Hardware/ ISBEID/ Any Other)				
	Computer Purchase	40,000	42,210	

17. Issues/ hurdles faced in undertaking ENVIS activities: Non availability of regular staff

16.1.	Non availability of regular staff
16.2.	Data from line departments is not readily available.