

ENVIS CENTRE PUDUCHERRY



MAJOR ACHIEVEMENTS (2010-2015)

INTRODUCTION

- ❖ *Puducherry Pollution Control Committee is the host organization*
- ❖ *Allotted subject - Environmental related issues*
- ❖ *Existing Man power - One (Programme officer)
One (IT Assistant)*
- ❖ *ENVIS centre has been established on - 8th August, 2005.*

Publications

➤ News Letter Published - 23 Nos

➤ Abstracts Published - 3 (E-waste, Municipal Solid waste, Wet Land)

➤ Pamphlets on biomedical waste-1

➤ Poster on save water-1

➤ No. Of web hits- 43,309

➤ No. of Query received- 4533

➤ No. of Query answered- 4533



DEVELOPMENT OF ENVIS INDIA VISION DOCUMENT

- I. Enlarging the scope of ENVIS activity
 - a. Digitilizing Ph.D thesis pertaining to Environmental Subject from Pondicherry University.
 - b. Preparing GIS based Environmental Index
 - c. Preparing Kids Environmental Awareness Programme package and supply to school on payment basis

ACTION PLAN 2016-2017

- Data collection
- Database Development (on line)
- Publishing subject specific Newsletters
- Publishing subject specific abstracts
- Development of ISBEID database
- Responding to queries
- FAQ
- Procuring of journals on the subject-area
- Collection of Ph.D. thesis/Dissertations
- Knowledge Sharing

- ENVIS Library
- Press note
- Awareness programme (Workshop, Training and seminars)
- Material in Bilingual language
- Books and reports
- Development of subject related Glossary
- Related Links
- Collection NAPCC



ENVIS NEWSLETTER

Quarterly News Letter of the ENVIS Centre, Pondicherry Pollution Control Committee, Pondicherry



ENVIS NEWSLETTER



Subject area: Environment related activities with special reference to

SOLID WASTE MANAGEMENT

Funded by Ministry of Environment and Forests, Government of India

VOL.1 NO.1

OCT-DEC 2005

PPCC/ENVIS/NL-1

CONTENTS

- WASTES - OVERVIEW
- SOURCES OF WASTE AND DIFFERENT RULES THAT GOVERN DIFFERENT WASTES
- HOW MUCH WASTE WE GENERATE?
- WHAT CAN BE THEREIN MUNICIPAL SOLID WASTE?
- HOW MUCH TIME IT TAKES FOR THE WASTES TO DECOMPOSE?
- MUNICIPAL SOLID WASTE - FACTS AT A GLANCE
- E-WASTE - GROWING PROBLEM
- SURYAPET A MODEL IN WASTE DISPOSAL
- WASTE TO WEALTH - CMDA'S INITIATIVE
- TERMINOLOGY

PROFILE OF ENVIS CENTRE

The Environmental Information System (ENVIS) is a project funded by the Ministry of Environment and Forests, Government of India to facilitate collection, analysis and dissemination of information on various facets of environment. Around 90 ENVIS centres have been established all over India and each centre has been allotted specific subject area.

Our ENVIS centre located at the Pondicherry Pollution Control Committee (PPCC), Pondicherry focuses on the Environment related activities with special reference to Solid Wastes Management. Activities of our centre include collection, analysis, storage, retrieval and dissemination of information in the subject area allotted. The information is being disseminated through the quarterly newsletter and website. This is the first newsletter.

Visit us at: www.pon.nic.in/citizen/science/ENVIS

ENVIS

Subject: "Environment related activities with special reference to solid waste management"

PONDICHERRY POLLUTION CONTROL COMMITTEE



Vol.2 No.1 JAN-MAR 2006 PPCC/ENVIS/NL-2

CONTENTS

- WASTE -TO- ENERGY
- ENERGY FROM LANDFILL GAS
- BIOMASS GASIFICATION
- REFUSE DERIVED FUEL
- CALORIFIC VALUE OF VARIOUS FUELS

PROFILE OF ENVIS CENTRE

The Environmental Information System (ENVIS) is a project funded by the Ministry of Environment and Forests, Government of India to facilitate collection, analysis and dissemination of information on various facets of environment. Around 90 ENVIS centres have been established all over India and each centre has been allotted specific subject area.

ENVIS centre located at the Pondicherry Pollution Control Committee (PPCC), Pondicherry focuses on the Environment related activities with special reference to Solid Wastes Management. Activities of our centre include collection, analysis, storage, retrieval and dissemination of information in the subject area allotted. The information is being disseminated through the quarterly newsletter and website.

Visit us at: www.pon.nic.in/citizen/science/ENVIS



VOL.2 NO.2

April-June 2006

PPCC/ENVIS/NL-3



E-WASTE



CONTENTS

- Electronic waste – Introduction
- Why e-waste needs management
- E-waste – Quantum
 - Global scenario
 - Indian scenario
- E-waste disposal methods in India
- Eco-friendly/Green technology for management of e-waste
- Is there a way out from e-waste menace



Cytotoxic



Biohazard

CONTENTS

- Biomedical Waste Management (BMW) - Introduction
- Why BMW needs management
 - National
 - Regional (Puducherry)
- Rules - Provisions
 - Classification of BMW
 - Collection of BMW
- Successive waste disposal mechanism
 - National
 - Regional (Puducherry)
- Action plan needed
 - By regulatory organization
 - By generator
 - By NGO/others
- Role of NGOs in BMW management
- Recommendations



ENVIS

PONDICHERRY POLLUTION CONTROL COMMITTEE



VOL.2 NO.4

October-December 2006

PPCC/ENVIS/NL-5

AGRICULTURAL WASTE MANAGEMENT



CONTENTS

- **Introduction**
- **Briquetting from agricultural residues**
- **International**
- **National**
- **Hand made paper from banana plant waste**
- **'Biomass gasifier' a look forward to reduce air pollution**
- **Biomass plant 'enhance livelihood' of the locals besides reducing fossil fuel consumption**
- **"Vermicomposting" a way towards greening the earth**



ENVIS newsletter on Solid Waste Management

Sponsored by Ministry of Environment and Forest, Government of India

VOL.3 NO.2

April - June 2007

PPCC/ENVIS/NL-7



CONTENTS

- **Plastic - introduction**
- **Plastic - disadvantages**
- **Developments of Degradable Plastics - are they Eco-Friendly!**
- **Degradable plastics - disadvantages**
- **Universal remedy for plastic**
- **Reduce**
- **Reuse**
- **- Traditional usage of material an alternative in promoting naturally degradable material**
- **Recycle**
- **- Plastic recycling - are they user friendly or environment friendly**
- **Respond**

ENVIS

Newsletter on Solid Waste Management

Sponsored by Ministry of Environment and Forests, Govt. Of India

VOL.3 NO.1

January – March 2007

PPCC/ENVIS/NL-6

PLASTICS



PLASTICS ...WHAT IT IS ACTUALLY
Plastics – disadvantages
Plastics – advantages

Plastic – changing scenario
Development of plastics
Advantages of foam cups

Plastic – facts at glance

Plastics – Classification and usage

Classification of Special
-purpose plastics

Plastics - disposal

Quarterly News Letter of the ENVIS Centre, Pondicherry Pollution Control Committee, Puducherry

Quarterly News Letter of the ENVIS Centre, Pondicherry Pollution Control Committee, Puducherry



ENVIS

Newsletter on Solid waste management

VOL.3 NO.3

July – September 2007

PPCC/ENVIS/NL-8

Municipal Solid waste collection, treatment and disposal are a pressing environmental concern - one that is growing every year. The city generates about 410 tons of waste per day. What to do and how to "take care" of all this waste, garbage, trash, refuse is an issue to be considered in city planning. Wastes from houses, streets, shops, offices, industries and hospitals are usually the responsibility of municipal or other governmental authorities, and management of this waste is utmost necessary because of its infectious nature. MSW is regulated by MSW Rules (Municipal Solid Wastes (Management and Handling) Rules, 2000). The hierarchy includes source reduction (pre-recycling), recycling, combustion, or waste-to-energy processes, and landfilling.

However, currently municipalities are present only in the stages of collection, transportation and production of fertilizer by simple composting technique, which does not generate much revenue. The declining number of landfills has caused communities to transport their wastes to greater distances for disposal and has increased disposal costs.

In this direction, several NGOs in Puducherry have taken innovative initiatives to provide awareness programme to the public and to educational institution both in the rural and urban areas and also introduced new methods to generate wealth from waste. 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 methods that could be employed in this union territory. The ENVIS Centre Puducherry herby expressed its gratitude and sincere thanks to Dr.S.P.Sharma, Statistical Advisor, Ministry of Environment & Forest (MoE&F) and Thiru. Annadurai, ENVIS Co-ordinator, (MoE&F), New Delhi, India for their support for continuation of this centre.

Inside.....

- A glance at Municipal Solid Waste (MSW)
- MSW Management – Puducherry scenario
- Municipal solid waste existing management techniques
- Prevailing Solid waste management models
- Managing solid waste – what is the motive behind
- Reason for involvement of NGOs and other private parties in SWM
- Legislation
- Suggested waste management approaches



सत्यमेव जयते



ENVIS

Newsletter on Solid Waste Management

Sponsored by Ministry of Environment and Forest, Government of India

VOL.4 NO.4

October – December 2007

PPCC/ENVIS/NL-09

Editorial

The problem of Municipal Solid Waste (MSW) management has acquired alarming dimensions in country especially over the last decade, since then, waste management was hardly considered as an issue of concern that the waste could be easily be disposed off in an environmentally safe manner within the premises where it was generated. However, over the period of time changing lifestyles of people coupled with urbanization and industrialization, the management of waste based on characteristics has drawn various dimensions on scientific manner.

In Puducherry, a problem related to garbage management which has been dogging the civic administration and the people for many decades is likely to be solved in due course of time. The estimated generation of MSW in Puducherry is 4200 MT per annum and also likely to be increased in the coming years due to increase in population, industrialization and rapid urbanization. This situation attracts necessity for creation of dump yard to dispose the MSW. In order to dispose the huge quantity of MSW being generated in Puducherry, about 23 acres of land has been year marked by Local Administration Department (LAD), Puducherry at Kurumbapet.

In the present issue the ENVIS centre Pondicherry Pollution Control Committee (PPCC) bringing 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 inter national repute. The data were arranged year wise. The ENVIS Centre Puducherry hereby expressed its gratitude and sincere thanks to Dr.S.P.Sharma, Statistical Advisor, Ministry of Environment & Forest (MoE&F) and Thiru. Annadurai, ENVIS Co-ordinator, (MoE&F), New Delhi, India for their support for continuation of this centre and for their valuable suggestion for strengthening this centre during the evaluation workshop (2007) in Hyderabad.



ENVIS -PUDUCHERRY

NEWSLETTER



SPONSORED BY MINISTRY OF ENVIRONMENT & FORESTS

CLEAN DEVELOPMENT MECHANISM

VOL - 4, No. 2

April – June 2008

ENVIS/PPCC/NL-11

Member Secretary's Desk....

The Clean Development Mechanism (CDM) is an arrangement under the Kyoto Protocol allowing industrialized countries with a greenhouse gas reduction commitment (called Annex 1 countries (industrialized countries)) to invest in projects that reduce emissions in developing countries as an alternative to more expensive emission reductions in their own countries.

Such projects can earn profitable certified emission reduction (CER) credits, each equivalent to one tonne of CO₂, which can be counted towards meeting Kyoto targets. The goals of the CDM are to assist non-Annex I Parties in achieving sustainable development and in contributing to the ultimate objective of the convention and to assist Annex I Parties in meeting their targets.

A CDM project activity might involve, for example, a rural electrification project using solar panels or the installation of more energy-efficient boilers. The mechanism stimulates sustainable development and emission reductions, while giving industrialized countries some flexibility in how they meet their emission reduction or limitation targets.

Literature-based analysis and carbon emission reduction trade (CERT) models indicate that India is likely to capture 10 per cent of the global carbon market during the first commitment period of 2008–2012. However, data from the World Bank Study, indicating a range of 20–30 per cent, are more realistic since they are based on project data. Thus India's volume of CER (carbon dioxide emission reduction) exports in 2010 may range between 7.5 MTCO_{2e} and 79 MTCO_{2e}, bringing in revenue in the range of \$30–300 million per year. To meet a CER supply level of 15 MTCO_{2e} by 2010, a few large and several medium-to-small size projects would have to be in operation soon.

The ENVIS Centre Puducherry hereby expressed its gratitude and sincere thanks to Dr.S.P.Sharma, Statistical Advisor, Ministry of Environment & Forest (MoE&F) and Smt. Madhumita Biswas, Joint Director (EI), (MoE&F), New Delhi, India for their support for continuation of this centre and for their valuable suggestion.

CONTENTS

Clean Development Mechanism and Kyoto Protocol

Why CDM?

CDM project locations worldwide

CDM project process

CDM – India GHG emission in India

India CDM Potential and Challenges

CDM - Current progress

Recommendations

Conclusions

e-Waste

ENVIS Pondicherry Pollution Control Committee
Newsletter on solid waste Management

Inside..

- Electronic Waste - Definition
- Elements in E-Waste
- WEEE-Content
- E-Waste
 - Global Scenario
 - Indian Scenario
- Dangers/Problems
- Reason for improper disposal
- E-Waste Management approaches and initiatives
- Recommendations
- Solutions
- Legislations
- Terminologies

Vol-4 No.1 JANUARY - MARCH 2008 ENVIS/PPCC/NL-10
Sponsored by Ministry of Environment & Forests, Government of India

ENVIS – PUDUCHERRY NEWS LETTER

Sponsored by Ministry of Environment & Forests,
Government of India, New Delhi

SPECIAL WASTE

VOL - 4, No. 3

July – September 2008

ENVIS/PPCC/NL-12

Member Secretary's Desk....

Contents

Special waste - introduction

Types of special waste

Medical waste

Hazardous waste

Used oils

Tyres

Wet batteries

Construction and demolition
waste

Sewage sludge, septage

Slaughterhouse waste
Industrial waste

Special wastes due to its hazardous nature require unique handling, treatment, and disposal. These waste while in direct contact can cause ill effects on health and the environment especially to rag/waste pickers.

Proper management of special wastes is quite difficult in most developing countries, particularly in those where regular MSW is not managed adequately. Most important issues pertinent are jurisdictions for special waste management are seldom clear, available resources to manage solid waste are scant and priorities have to be set and finally the technology needed to manage special wastes is seldom available.

The development of sound practices in the management of special wastes should follow the integrated waste management similar to waste minimization, resource recovery, recycling treatment (including incineration), and final disposal. The proper application of this hierarchy depends on available technologies, as well as human and financial resources.

This newsletter reviews the topic of special wastes superficially. There are a number of special wastes that are generated in an urban area.

The ENVIS Centre Puducherry hereby expressed its gratitude and sincere thanks to Dr.S.P.Sharma, Statistical Advisor, Ministry of Environment & Forest (MoE&F) and Smt. Madhumita Biswas, Joint Director (ED), (MoE&F), New Delhi, India for their support for continuation of this centre and for their valuable suggestion.



ELECTRONIC WASTE - ABSTRACT

VOL - 4, No. 4

October – December 2008

ENVIS/PPCC/NL-13

Member Secretary's Desk

Electronic waste, popularly known as 'e-waste' can be defined as electronic equipments / products connects with power plug, batteries which have become obsolete due to: advancement in technology, changes in fashion, style and status nearing the end of their useful life. Computer waste is generated from the individual households; the government, public and private sectors; computer retailers; manufacturers; foreign embassies; secondary markets of old PCs. Of these, the biggest source of PC scrap are foreign countries that export huge computer waste in the form of reusable components.

Electronic waste or e-waste is one of the rapidly growing environmental problems of the world. In India, the electronic waste management assumes greater significance not only due to the generation of our own waste but also dumping of e-waste particularly computer waste from the developed countries.

There is an estimate that the total obsolete computers originating from government offices, business houses, industries and household is of the order of 2 million nos. Manufactures and assemblers in a single calendar year, estimated to produce around

1200 tons of electronic scrap. It should be noted that obsolescence rate of personal computers (PC) is one in every two years. The consumers find it convenient to buy a new computer rather than upgrade the old one due to the changing configuration, technology and the attractive offers of the manufacturers. Due to the lack of governmental legislations on e-waste, standards for disposal, proper mechanism for handling these toxic hi-tech products, mostly end up in landfills or partly recycled in a unhygienic conditions and partly thrown into waste streams.

India as a developing country needs simpler, low cost technology keeping in view of maximum resource recovery in an environmental friendly methodologies. This issue brings into focus some of the abstracts on eco-friendly e-waste management process in recent times.

The ENVIS Centre Puducherry hereby expressed its gratitude and sincere thanks to Dr.S.P.Sharma, Statistical Advisor, Ministry of Environment & Forest (MoE&F) and Smt. Madhumita Biswas, Joint Director (ED), (MoE&F), New Delhi, India for their support for continuation of this centre and for their valuable suggestion.

Inside...

- Elevated Serum Polybrominated Diphenyl Ethers and Thyroid-Stimulating Hormone Associated with Lymphocytic Micronuclei in Chinese Workers from an E-Waste Dismantling Site
- Centralized versus Decentralized Decision-Making for Recycled Material Flows
- Green Electronics through Legislation and Lead Free Soldering
- Heavy Metals Concentrations of Surface Dust from e-Waste Recycling and Its Human Health Implications in Southeast China
- High levels of heavy metals in rice (*Oryza sativa* L.) from a typical E-waste recycling area in southeast China and its potential risk to human health
- Life-cycle flow of mercury and recycling scenario of fluorescent lamps in Japan
- Material flows of mobile phones and accessories in Nigeria: Environmental implications and sound end-of-life management options
- Polybrominated diphenyl ethers in domestic indoor dust from Canada, New Zealand, United Kingdom and United States
- Producer responsibility for e-waste management: Key issues for consideration - Learning from the Swiss experience
- Reducing life cycle impacts of housing and computers in relation with paper
- Toxic Tech: Not in our Backyard



Department of Science, Technology & Environment Puducherry Pollution Control Committee ENVIRONMENTAL INFORMATION SYSTEM(ENVIS)



Sponsored Ministry of Environment, Forests & Climate Change , Govt. of India



[Home](#)

[About Us](#)

[Contact Us](#)

[List of ENVIS Centres](#)



Centre on Special reference to the "Status of Environment Related Issues"

[Face book](#)

Data Base

[Regional](#)

[National](#)

Publications

[Newsletters](#)

[Annual Report](#)

[Posters](#)

[Pamphlets](#)

Environment News

Puducherry, Status of Environment and Related Issues

| | | |
|-------------|----------------|----------------------|
| Air Quality | Agriculture | Bio-diversity |
| Climate | Demography | Disaster |
| Ecotourism | Energy | Forest Resources |
| Industries | Infrastructure | Rivers |
| Soil | Solid Waste | Tourism heritage |
| Waste land | Water Quality | PPCC |

[ISBEID Data](#)



[Download Reports](#)

[Books and Reports](#)



SLAUGHTER HOUSE WASTE MANAGEMENT

Contents

Introduction

Problem due to unauthorized slaughter house waste

Toxic waste in slaughter house Slaughtering of animals – prevailing process

Measures proposed to improve the slaughter house waste management

Curbing activities of illegal slaughtering of animals

Global eco-friendly case studies

Slaughter house waste in puducherry – prevailing scenario Standards and regulations governing slaughterhouses

From the Member Secretary's Desk

Waste management is one of the essential obligatory functions of a country. This service is falling too short of the desired level of efficiency and satisfaction resulting in problems of health, sanitation and environmental degradation. Environmental problems, such as pollution provoked by slaughterhouse wastes, can be examined with an integral, multidimensional and systemic approach.

A slaughterhouse, also called an abattoir (from the French verb *abattre*, "to strike down"), or freezing works (New Zealand English), is a facility where animals are killed and processed into meat foods.

Slaughtering animals on a large scale poses significant logistical problems and public health concerns, with public aversion to meat packing in many cultures influencing the location of slaughterhouses. In addition, some religions stipulate certain conditions for the slaughter of animals so that practices within slaughterhouses vary.

A conceptual shift and perception change in Society-Nature relations are necessary as well as the participation of other sectors of the society.

The ENVIS Centre Puducherry hereby expresses its gratitude and sincere thanks to Shri Nilkanth Ghosh, Statistical Advisor, Ministry of Environment & Forest (MoE&F) and Smt. Madhumita Biswas, Joint Director (EI), (MoE&F), New Delhi, India for their support for continuation of this centre and for their valuable suggestion.



HAZARDOUS WASTE MANAGEMENT

CONTENT

Hazardous Waste (HW) – A glance HW – Indian scenario

- Categories of HW
- HW generating units in India
- HW dump sites in India
- Status on Common Hazardous Waste - TSD&F
- Status on HW dump sites

Hazardous waste – Puducherry scenario

- HW- Types in U.T.Puducherry
- Hazardous waste – quantity
- TSDF in U.T.Puducherry

Conclusion

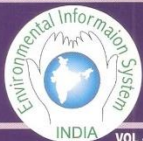
From the Member secretary's desk

A hazardous waste is waste that poses substantial or potential threats to public health or the environment and generally exhibits one or more characteristics. Hazardous waste was formerly known as 'special' waste. Lack of treatment and disposal facilities causes hazardous wastes (HWs) to ravage municipal landfills and open spaces, raising serious environmental threats. Rapid industrialization over the last few decades has indiscriminately increased HW generation in India.

Adding to this woe are the substantial quantities of HWs being imported for recycling. Large quantities of HWs generated include used batteries, used and waste oil, broken fluorescent lamps, cleansing chemicals for wastes, pesticides past their expiration dates, and so forth. There are only few well-established treatment, storage, and disposal facilities (TSDF), which precludes effective enforcement of regulations for HW generated from the industrial or non-industrial sector. The guidelines issued by the Ministry of Environment and Forests (MoEF), Government of India, and the Central Pollution Control Board (CPCB) are available for selection of the best sites for TSDF and for establishing secured landfills (MoEF Guidelines, 1989, as amended in 2003).

This article focuses on the current status, problems and challenges, policy issues, and future strategies for improvement in HW management system in India.

The ENVIS Centre Puducherry hereby expresses its gratitude and sincere thanks to Shri Nilkanth Ghosh, Statistical Advisor, Ministry of Environment & Forest (MoE&F) and Smt. Madhumita Biswas, Joint Director (EI), (MoE&F), New Delhi, India for their support for continuation of this centre and for their valuable suggestion.



BIODIVERSITY IN WETLANDS

From the Member secretary's desk

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. They are an essential part of human civilisation meeting many crucial needs for life on earth such as drinking water, protein production, water purification, energy, fodder, biodiversity, flood storage, transport, recreation, research-education, sinks and climate stabilizers. The values of wetlands though overlapping, like the cultural, economic and ecological factors, are inseparable. The geomorphological, climatic, hydrological and biotic diversity across continents has contributed to wetland diversity. This issue gives an outline on the wetlands and its biodiversity.

The ENVIS Centre Puducherry hereby expresses its gratitude and sincere thanks to Shri Nilkanth Ghosh, Statistical Advisor, Ministry of Environment & Forest (MoE&F) and Smt. Madhumita Biswas, Joint Director (EI), (MoE&F), New Delhi, India for their support for continuation of this centre and for their valuable suggestion.

CONTENTS

Wetland - At a glance

Wetland types

- Swamp
- Bog
- Marsh

Water resources of wetlands

- Distribution of world water resources
- Distribution of fresh water resource by continents

Wetland products

- Benefits

Climate prevailing in wetlands

Functions of wetland

Wetlands of India

- Classification
- Distribution
 - Mangroves

Wetlands in Puducherry

- Lakes
- Mangroves

Conclusion



WETLAND - ABSTRACTS

From the Member secretary's desk

Wetlands are a special land resource and play a unique and valuable ecological role. Wetlands, the fragile ecosystems, are declining in most parts of the world. Wetlands are helpful in controlling floods, replenishing groundwater, protecting biodiversity and providing livelihoods to local population.

Wetlands are highly significant for a country like India which has a varied terrain and climate and which supports a rich diversity of inland and coastal wetland habitats. Wetland habitats in India have been destroyed by draining and land filling. Wetlands are also severely disturbed by over-exploitation of fish resources, pollution, choking by exotic weeds and other human pressures. It is reported that one third of Indian wetlands have already been wiped out or got severely degraded. One of the most important wetlands in India is the Keoladeo National Park in Bharatpur, Rajasthan, which is a manmade wetland. This park is visited by various migratory species of birds almost every winter. Another important wetland is Chilka, the largest (1100 sq km) brackish-water lake in India, situated in Puri and Ganjam districts of Orissa.

This issue brings into focus on the abstracts of various research articles pertaining to the conservation of wetlands in recent times.

The ENVIS Centre Puducherry hereby expresses its gratitude and sincere thanks to Shri. Nilkanth Ghosh, Statistical Advisor, Ministry of Environment & Forest (MoE&F) and Smt. Madhumita Biswas, Joint Director (EI), (MoE&F), New Delhi, India for their support for continuation of this centre and for their valuable suggestion.

Title: Biorights as conservation partnership paradigm in peri-urban wetlands: a success story

Author: Dey, D; South Asian Forum for Environment, 801 Survey Park Kolkata 700075, INDIA; deydr@yahoo.co.in

East Kolkata Wetlands, a threatened Ramsar site in Eastern India, spread across 136 Sq. Km is renowned as model of multiple use wetland having natural resource recovery system developed and maintained by the local commune supporting 104 wetland species that includes endemic marsh mongoose and mud turtle. Water flows through wetlands' mosaic of fishponds, lakes, swamps and canals that cover 4000 ha and acts as solar reactors to treat 880 million liters sewerage each day. In an effort to restore the fast shrinking wetlands and prevent habitat loss, a conservation partnership has been successfully developed based on community-ecosystem approach. On one hand it undertakes habitat evaluation and restoration with the help of fishermen's community and on the other it aims to use Biorights of commons for transforming nature services to economic opportunities for poor



ENVIS NEWS LETTER



(Sponsored by Ministry of Environment & Forests,
Government of India)

Bio Diversity

Volume - V - I

Jan - March 2014



ENVIS CENTRE

Department of Science, Technology & Environment

Puducherry Pollution Control Committee

3rd Floor, PHB Building, Anna Nagar, Puducherry - 605 005.

mail : dste.pon@nic.in envis.pon@nic.in

Website : <http://dste.puducherry.gov.in>

URL : <http://dste.puducherry.gov.in/envisnew/envis1.htm>



ENVIS NEWS LETTER

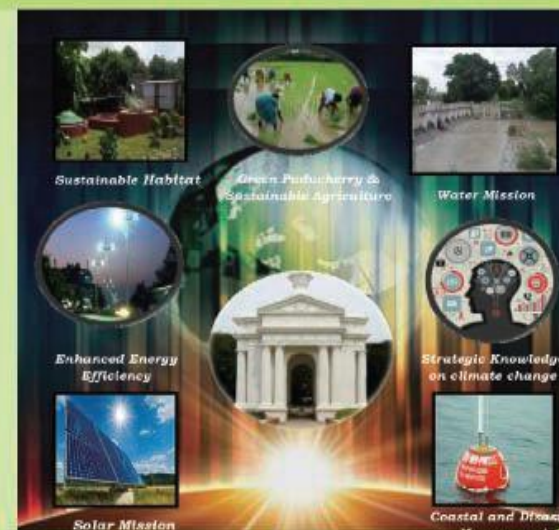


(Sponsored by Ministry of Environment,
Forests & Climate Change Government of India)

GREEN HOUSE GAS INVENTORY

Volume - V - II

April - June 2014



ENVIS CENTRE

Department of Science, Technology & Environment

Puducherry Pollution Control Committee

3rd Floor, PHB Building, Anna Nagar, Puducherry - 605 005.

mail : dste.pon@nic.in envis.pon@nic.in

Website : <http://dste.puducherry.gov.in>

URL : <http://dste.puducherry.gov.in/envisnew/envis1.htm>



ENVIS NEWS LETTER

(Sponsored by Ministry of Environment,
Forests & Climate Change Government of India)



SACRED GROVES OF PUDUCHERRY

Volume - V - III

July - Sep 2014



ENVIS CENTRE

Department of Science, Technology & Environment
Puducherry Pollution Control Committee
3rd Floor, PHB Building, Anna Nagar, Puducherry - 605 005.
mail : dste.pon@nic.in envis.pon@nic.in
Website : <http://dste.puducherry.gov.in>
URL : <http://dste.puducherry.gov.in/envisnew/envis1.htm>



ENVIS NEWS LETTER

(Sponsored by Ministry of Environment,
Forests & Climate Change Government of India)



TREND ANALYSIS OF AMBIENT AIR QUALITY OF PUDUCHERRY (2009-2014) & BHOGI FESTIVAL (2012-16)

Volume - V - IV

Oct - Dec - 2014



ENVIS CENTRE

Department of Science,
Technology & Environment
Puducherry Pollution Control Committee

3rd Floor, PHB Building, Anna Nagar,
Puducherry - 605 005.

mail : dste.pon@nic.in enis.pon@nic.in

Website : <http://dste.puducherry.gov.in>

URL : <http://dste.puducherry.gov.in/visnews/vis1.htm>



ENVIS NEWS LETTER

(Sponsored by Ministry of Environment,
Forests & Climate Change Government of India)



A Success Story - LED Replacement Program and its impact on GHG Emission in Union Territory of Puducherry

Volume - VI - I

Jan - Mar - 2015



ENVIS centre puducherry sincerely thank

Dept. of Electricity Government of Puducherry

Bureau of Energy Efficiency and

Energy Efficiency Services for sharing relevant information

ENVIS CENTRE PUDUCHERRY



**Department of Science, Technology & Environment
Puducherry Pollution Control Committee
ENVIRONMENTAL INFORMATION SYSTEM (ENVIS)**



Sponsored Ministry of Environment, Forests & Climate Change, Govt. of India



[Home](#)

[About Us](#)

[Contact Us](#)

[List of ENVIS Centres](#)



Centre on Special reference to the "Status of Environment Related Issues"

[Face book](#)

Data Base

[Regional](#)

[National](#)

Publications

[Newsletters](#)

[Annual Report](#)

[Posters](#)

[Pamphlets](#)

Environment News

Puducherry, Status of Environment and Related Issues

| | | |
|-----------------------------|--------------------------------|----------------------------------|
| Air Quality | Agriculture | Bio-diversity |
| Climate | Demography | Disaster |
| Ecotourism | Energy | Forest Resources |
| Industries | Infrastructure | Rivers |
| Soil | Solid Waste | Tourism heritage |
| Waste land | Water Quality | PPCC |

[ISBEID Data](#)



Download Reports



Books and Reports



जहाँ है हरियाली ।
वहाँ है उदासताली ॥



ISBEID- Indian State Level Basic Environmental Information Database

Environmental Information system

Ministry of Environment & Forests



To The National Database...

- Home
- About MoEF
- About ENVIS
- SoE Report
- ISBEID GIS
- MIS Report
- User Manual
- FAQ
- Feedback
- Contact Us
- Logout

[Change Password](#) | Welcome PONDICHERRY

- Administration Profile
- Agriculture
- Air Pollution
- Bio Diversity
- Disaster
- Ecology
- Energy
- Forest Resource
- Ground Water Resource
- Industries
- Infrastructure
- Natural Resource
- Sanitation
- Tourism & Heritage
- Waste
- Water Pollution
- Water Resource

Industrial

2010 * January * PONDICHERRY *

| | |
|--|--|
| SO ₂ | <input type="text"/> (In µg×3) |
| NO ₂ | <input type="text"/> (In µg×3) |
| Suspended Particulate Matter (SPM) | <input type="text"/> |
| Respirable Suspended Particulate Matter (RSPM) | <input type="text"/> |
| Location | <input type="text"/> (Max. 100 Characters) |
| Source | <input type="text"/> * (Max. 150 Characters) 150 Characters left |

* Indicates Required Field

Water Pollution Report for 2014 Year for PONDICHERRY State

| Year | State | Source of Water | Name | Location | pH | Total Coli Form | BOD (mg/l) | COD (mg/l) | Conductivity | Source |
|------|-------------|-----------------|--------------|------------------------------|------|-----------------|------------|------------|--------------|---|
| 2014 | PONDICHERRY | Wells | Puducherry | Mettupalayam - Borewell | 7.34 | NA | NA | 20 | 1200 | Mettupalayam - Borewell Puducherry Pollution Control Committee |
| 2014 | PONDICHERRY | Wells | Puducherry | University-Borewell | 7 | NA | NA | NA | 196 | University-Borewell water Puducherry Pollution Control Committee |
| 2014 | PONDICHERRY | Lakes | Puducherry | Bahour Lake | 7.79 | NA | 6 | 61 | 316 | Bahour Lake-water Puducherry Pollution Control Committee |
| 2014 | PONDICHERRY | Wells | Puducherry | No.14 Krishna Nagar-Borewell | 7 | NA | NA | NA | 361 | Borewell water Puducherry Pollution Control Committee |
| 2014 | PONDICHERRY | Tanks | Puducherry | Mettupalayam | 7.67 | NA | NA | NA | 1272 | Puducherry Pollution Control Committee PPCC |
| 2014 | PONDICHERRY | Tanks | Karaikal | T.R.Pattinam | 7.5 | NA | 1 | 4 | 1728 | Puducherry Pollution Control Committee PPCC |
| 2014 | PONDICHERRY | Rivers | Yanam | Coringa River | 7.9 | NA | NA | 10 | 21600.0 | Puducherry Pollution Control Committee PPCC |
| 2014 | PONDICHERRY | Wells | Puducherry | Maruthi School | 7.36 | NA | NA | 8 | 1592 | Puducherry Pollution Control Committee PPCC |
| 2014 | PONDICHERRY | Lakes | Ousteri Lake | Ousteri lake Puducherry | 7.87 | NA | 4 | 77 | 422 | Ousteri Lake -water Puducherry Pollution Control Committee |
| 2014 | PONDICHERRY | Wells | Puducherry | Mission St | 7.26 | NA | NA | NA | 1592 | Puducherry Pollution Control Committee PPCC |
| 2014 | PONDICHERRY | Wells | Puducherry | Kurumampet-Borewell | 7.21 | NA | NA | 20 | 530 | Kurumampet borewell water Puducherry Pollution Control Committee |
| 2014 | PONDICHERRY | Rivers | Puducherry | Chunambar | 8 | NA | 1 | 4.1 | 1474 | Puducherry Pollution Control Committee PPCC |
| 2014 | PONDICHERRY | Lakes | Puducherry | Ousteri | 8.1 | NA | NA | 12.4 | 514 | Puducherry Pollution Control Committee PPCC |
| 2014 | PONDICHERRY | Wells | Puducherry | Chetty Koil-OPEN WELL | 7.12 | NA | NA | 8 | 2200 | Chetty Koil-OPEN WELL water Puducherry Pollution Control Committee |
| 2014 | PONDICHERRY | Wells | Puducherry | Katterikuppam Borewell | 7.19 | NA | NA | NA | 500 | Borewell water-katterikuppam Puducherry Pollution Control Committee |



सत्यमेव जयते



Indian State-level Basic Environmental Information Database (ISBEID)

Ministry of Environment, Forest And Climate Change

[Home](#) [Useful Links](#) [About Envis](#) [ISBEID GIS](#) [MIS Report](#) [About](#) [Feedback](#) [Logout](#)

[Go Back](#)



Types of Waste Report for 2015 Year for PONDICHERRY State

| Year | State | Waste Type | Quantity Generated (t/a) | Quantity Treated (t/a) | Quantity Disposed (t/a) | Quantity Generated (mld) | Quantity Treated (mld) | Quantity Disposed (mld) | Source |
|------|-------------|-----------------------------|--------------------------|------------------------|-------------------------|--------------------------|------------------------|-------------------------|--|
| 2015 | PONDICHERRY | E-Waste | 5100 | NA | 5100 | NA | NA | NA | Puducherry Pollution Control Committee |
| 2015 | PONDICHERRY | Hazardous Waste (HW) | 34200 | NA | 34200 | NA | NA | NA | Puducherry Pollution Control Committee |
| 2015 | PONDICHERRY | Plastic Waste | 17000 | NA | 16500 | NA | NA | NA | Puducherry Pollution Control Committee |
| 2015 | PONDICHERRY | Municipal Solid Waste (MSW) | 179000 | NA | 178000 | NA | NA | NA | Puducherry Pollution Control Committee |
| 2015 | PONDICHERRY | Biomedical Waste (BMW) | 387000 | 386450 | 386450 | NA | NA | NA | Puducherry Pollution Control Committee |



Thank You