

## ECOLOGY & ENVIRONMENT

Recognizing the importance of conservation and protection of Environment in the Union Territory of Pondicherry, Department of Science, Technology and Environment has been functioning since 1.1.1993. Scrutiny of industrial applications for issue of NOC from pollution angle, issue of Air and Water Consents, monitoring and evaluation of their performance under Air, Water and Environment (Protection) Acts are being carried out. The Pondicherry Coastal Zone Management Authority, 1991 is implementing Coastal Regulation Zone notification. It is an autonomous body functioning in the Department for the Preparation of Integrated Coastal Zone Management plan for Puducherry will be carried out. To monitor Ambient (Atmosphere) Air Quality and Aquatic Resources of Pondicherry, this Department is implementing two projects viz., "National Air Quality Monitoring Programme" (NAMP) and "National Water Monitoring Programme" (NWMP) respectively, funded by Central Pollution Control Board (CPCB). Water samples are being collected and tested once in three/six months. Ambient Air Quality in Pondicherry Region is being monitored continuously under NAMP Programme.

Air and Water samples are collected from industries and level of Air pollutants like suspended particulate matter (SPM) Sulphur dioxide (SO<sub>2</sub>), Nitrogen oxide (NO<sub>2</sub>) chlorine (Cl<sub>2</sub>) Acid mist and Physico chemical and micro biological parameters of water pollutions are analysed in the Department's laboratory for issue of air and water consent and also whenever specific complaints about the industries are received. TSDF will be set up for the Disposal of Hazardous waste in an environmentally safe manner. Cess amount is being collected from water-based industries and local bodies at prescribed rates in order to check the indiscriminate consumption of water in this Union Territory of Pondicherry. Noise monitoring is also done by this Department. Research on specific environmental problems and conduct of Impact Assessment study will also form the functions of this department.

Programmes are organized to create awareness and concern for the protection and conservation of environment. Celebration of World Environment Day (June, 5), National Environment Month (November 19 - December 18), World Ozone Day (16th September), Environmental Conservation Day (25th November) with the co-ordination of Environmental Education Cell and NGO's and National Pollution Prevention Day (2nd December), World Conservation Day (3rd December) is celebrated with the Co-ordination of Industries. Celebration of various environmental awareness activities including film shows, Villupattu,

seminars, meetings , street plays, essay, quiz and elocution competitions, distribution of pamphlets and hand-bills, banners, pasting of stickers and broadcasting of environmental slogans through All India Radio and Doordarshan etc., among the public, school and colleges students are the various activities proposed for the year.

Conservation of national resources and ecosystem. Identification and protection of sacred grooves in the U.T. of Puducherry. In collaboration with Academic Institutes and NGOs, a comprehensive survey on Sacred Grooves in the U.T. of Puducherry would be carried out. Measures to conserve and protect the sacred grooves would be evolved. Wet land identification and conservation. Major wet land in the U.T. of Puducherry will be identified and Action plan would be evolved to protect it. Sand dunes are present in the coastal area. It act like a wind barmier and Tsunami protection system. Many endemic and endangered bio-diversity are present there. Schemes would be evolved involving related stockholders to protect it. Usage of thin plastic Articles. Create environment and health hazards in pilgrims and tourist places. Awareness programme about ill effect of usage of plastic will be implemented. Alternative usage would be encouraged. Setting up of Continuous online air quality monitoring station to assess the present and anticipated air pollution and to formulate preventive and control measures for abatement of air pollution. Nowadays water bodies get polluted due to indiscriminate disposal of Municipal Solid Waste on the open land & into the nearby source of water and due to improper disposal of sewage water. Moreover dumping of industrial wastes containing heavy metals, harmful chemicals, by-products, organic toxins and oils on the land and usage of chemical fertilizers, pesticides are also the visible causes of water pollution. Hence, to monitor surface water and ground water quality periodically Atomic Absorption Spectroscopy and Gas Chromatography are highly required for this Department Laboratory. Atomic Absorption Spectroscopy (AAS) & Gas Chromatography. Preparation of documentary films in vernacular languages to create awareness among public and students on topics such as conservation of natural resources, ill effects on usage of disposable plastics, noise pollution & it prevention, air pollution & protection of Environment, disposal of solid waste etc. Setting up of online Ambient Noise Monitoring stations at five locations in urban area to assess the noise level and to take adequate measures for its management and control. Procurement of chemicals, glass wares, equipments and maintenance of laboratory. Identification of land (5 acres) for establishment of TSDF (Treatment, Storage, Disposal Facility) at Karasur Area. As per the recommendation of the Supreme Court Monitoring Committee, it is the responsibility of the concerned

Pollution Control Committee to identify the land for establishment of TSDF (Treatment, Storage, Disposal Facility) for disposal of land fillable Hazardous waste. To create awareness among the public regarding proper collection, storage of the municipal solid waste. Plantation of trees to compensate the effects of “Thane Cyclone” in Co-Ordination with Forest Department. To create awareness among the public regarding proper segregation of non-biodegradable materials like plastic, glass and e-waste. Setting up and accreditation of laboratory for NABL. Strengthening of man power. Setting of water quality monitoring station in sea; surface water. Stargazing, kits, awareness among school students; telescope purchase, Astronomical kits. Pollution monitoring station. Display boards with online connectivity for Ambient pollution index in 3 regions. Weather monitoring station. Project funding in green chemistry. Incinerator setting up.

#### **ACHIEVEMENTS DURING 2007-11**

- Pondicherry Pollution Control Committee was strengthened by way of releasing Grant-in-aid (GIA).
- Regional Office with a small laboratory at Karaikal was established.
- Industrial applications are scrutinized, monitored and evaluated for their performance under air, water & environment (Protection) Acts.
- Laboratory equipments and chemicals/books were purchased.
- World Environment Day, World Ozone Day, National Environment Month and various awareness activities involving public, NGO’s and students were organized in befitting manner.
- The existing laboratory was strengthened with equipments / instruments in order to have a better result in analyzing the samples collected.

#### **LIKELY ACHIEVEMENTS DURING 2011-12**

- Scrutiny of industrial applications, monitoring and evaluation of their performances under the air, water and environment (Protection) and air and water quality monitoring.
- Celebration of World Environment Day, World Ozone Day, National Environment Month and conducting of various awareness activities among public and students.

- The existing laboratory to be strengthened with highly sophisticated equipments / instruments in order to have a better result in analyzing the samples collected.
- Purchase of chemicals to strengthen the laboratory on priority basis.
- The existing laboratory at Karaikal regional office is to be strengthened.
- Hoardings – Depicting slogans / message on environment at various locations in and around Pondicherry region.
- Purchase of vehicle for the Department inspection.

### **PROPOSED TARGETS FOR 2012-13**

- Administrative grant to Pondicherry Pollution Control Committee, Puducherry
- Scrutiny of industrial applications, monitoring and evaluation of their performances under the air, water and environment (Protection) and air and water quality monitoring.
- Celebration of World Environment Day, World Ozone Day, National Environment Month and conducting of various awareness activities among public and students.
- The existing laboratory will be strengthened with highly sophisticated equipments / instruments in order to have a better result in analyzing the samples collected.
- Purchase of chemicals to strengthen the laboratory on priority basis.
- The existing laboratory at Karaikal regional office will be strengthened.
- To disseminate information to the public through electronic mass media about the data on air and water quality of different areas of Pondicherry.
- To set up a monitoring and assessment Cell to assess the performance rate of the industries on the basis of the pollution standards and suitably rate them into various categories by providing separate colour codings.
- Hoardings – Depicting slogans / message on environment at various locations in and around Pondicherry region.

## OUTLAY AT A GLANCE

Sector : ECOLOGY AND ENVIRONMENT

No. of Scheme : 1

Department : SCIENCE, TECHNOLOGY & ENVIRONMENT

(₹ in lakh)

Eleventh Five Year Plan 2007-12 Approved Outlay	:	431.48
Annual Plan 2007-10 Actual Expenditure	:	164.77
Annual Plan 2010-11 Actual Expenditure	:	74.22
Annual Plan 2011-12 Approved Outlay	:	75.00
Annual Plan 2011-12 Revised Outlay	:	75.00
Twelfth Five Year Plan 2012-17 Tentative Outlay	:	1300.00
Annual Plan 2012-13 Proposed Outlay	:	200.00

(₹ in lakh)

Sl. No.	Name of the Scheme	Annual Plan 2010-11	Annual Plan 2011-12	Twelfth Plan 2012-17 (Tentative Outlay)	Annual Plan 2012-13
		Actual Expdr.	Approved Outlay	Proposed Outlay	Proposed Outlay
(1)	(2)	(3)	(4)	(5)	(6)
1.	Department of Environment / State Pollution Control Board	74.22	75.00	1300.00	200.00