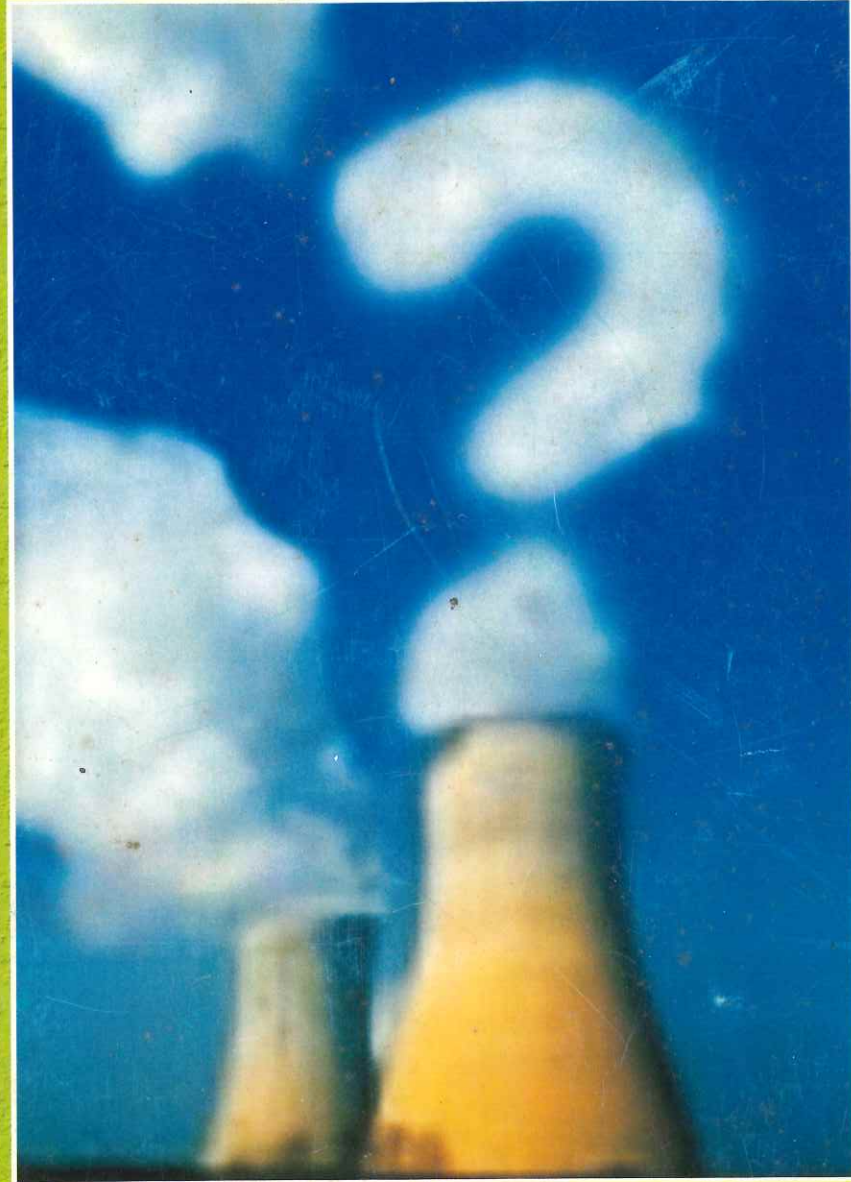


ANNUAL REPORT

2008 - 2009



தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம்
TAMIL NADU POLLUTION CONTROL BOARD

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TAMIL NADU POLLUTION CONTROL BOARD**

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1.1 INTRODUCTION

The Tamilnadu Prevention and Control of Water Pollution Board (TNPCB) was constituted by the Government of Tamilnadu on twenty seventh day of February, Nineteen eighty two in pursuance of the Water (Prevention and Control of Pollution) Act, 1974 (Central Act 6 of 1974). The Board was later renamed as Tamilnadu Pollution Control Board (TNPCB) in the year 1983. It enforces the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Water (Prevention and Control of Pollution) Cess Act, 1977, the Air (Prevention and Control of Pollution) Act, 1981, and the rules made under the Environment (Protection) Act, 1986 which includes

- The Environment (Protection) Rules, 1986
- The Hazardous Wastes (Management, Handling and Transboundry Movement) Rules, 2008.
- The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended in 1994 and 2000
- The Biomedical Waste (Management and Handling) Rules, 1998 as amended in 2000 & 2003.
- The Plastics Manufacture, Sale and Usage Rules, 1999 as amended in 2003.
- The Noise Pollution (Regulation and Control) Rules, 2000
- The Municipal Solid Wastes (Management and Handling) Rules, 2000
- The Battery (Management and Handling) Rules, 2001

1.2 FUNCTIONS

The main functions of the TNPCB under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 are as follows:

- To plan a comprehensive programme for the prevention, control and abatement of water and air pollution.
- To advise the State Government on any matter concerning the prevention, control or abatement of water and air pollution.
- To encourage, conduct and participate in investigations and research relating to problems of water, land and air pollution and the prevention, control or abatement thereof.
- To collect and disseminate information relating to water and air pollution and the prevention, control or abatement thereof.
- To inspect sewage and trade effluent treatment plants for their effectiveness and review plans, specifications for corrective measures.
- To inspect industrial plants or manufacturing process, any control equipment and to give directions to take steps for the prevention, control or abatement of air pollution.
- To inspect air pollution control areas for the purpose of assessment of quality of air therein and to take steps for the prevention, control or abatement of air pollution in such areas.
- To lay down, modify or annul effluent standards for the sewage and trade effluents and for the emission of air pollutants into the atmosphere from industrial plants and automobiles or for the discharge of any air pollutant into the atmosphere from any other source.
- To evolve best economically viable treatment technology for sewage and trade effluents.
- To evolve efficient methods of disposal of sewage and trade effluents on land.
- To collect samples of sewage and trade effluents and emissions of air pollutants and to analyze the same for specific parameters.

- To collaborate with Central Pollution Control Board in organizing the training of persons engaged or to be engaged in programmes relating to prevention, control or abatement of water and air pollution and to organise mass education programme relating thereto.
- To perform such other functions as may be prescribed by the State Government or Central Pollution Control Board.



2.1 CONSTITUTION OF TNPCB

The TNPCB is constituted by the State Government. It comprises of a full time Chairman, 5 officials nominated by the State Government, 5 persons to represent local authorities, 3 non-officials to represent the interests of agriculture, fishery or industry or trade, 2 persons to represent the companies or corporations owned by the State Government and a full time Member Secretary. The constitution of the TNPCB is given in Annexure I.

2.2 ORGANISATIONAL SET UP

The TNPCB has established its organization structure with a two-tier system consisting of head-office at Chennai and district offices with total staff strength of 741. There are 28 district offices, 23 are headed by District Environmental Engineers and 5 offices under the control of Assistant Environmental Engineers. The locations of district offices are shown in Annexure II.

The TNPCB has delegated powers to the Chairman to grant consent to all "Green Site" applications received from new industries pertaining to red category industries. The Board has delegated powers to District Environmental Engineers and Assistant Environmental Engineers in the district offices to issue consent to establish, consent to operate and to renew consent to all new and existing orange and green category industries.

To assist the Board in monitoring the industries, 3 Advanced Environmental Laboratories, 11 District Environmental Laboratories are functioning. These laboratories carry out analysis on samples of sewage, trade effluents, emissions and hazardous wastes.

The organization chart of the Board, staff strength and year wise growth of the Board are furnished in Annexure - III, IV and V.



3.1 ENVIRONMENTAL LEGISLATIONS

The various environmental legislations with which the TNPCB is concerned are given below. Some legislation is implemented directly by the Board and some by other departments of the Government.

- The Water (Prevention and Control of Pollution) Act, 1974 as amended in 1978 & 1988.
- The Tamilnadu Water (Prevention and Control of Pollution) Rules, 1983.
- The Water (Prevention and Control of Pollution) Cess Act, 1977, as amended in 1991 and 2003.
- The Water (Prevention and Control of Pollution) Cess Rules, 1978 as amended in 1992.
- The Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987.
- The Tamilnadu Air (Prevention and Control of Pollution) Rules, 1983.
- The Environment (Protection) Act, 1986.
- The Environment (Protection) Rules, 1986 and its subsequent amendments.
- The Hazardous Wastes (Management, Handling and Transboundry Movement) Rules, 2008.
- Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended in 1994 & 2000.
- The Manufacture, Use, Import, Export and Storage of Hazardous Micro organisms / genetically engineered organisms or cells Rules, 1989.
- The Public Liability Insurance Act, 1991 as amended in 1992.
- The Public Liability Insurance Rules, 1991.
- Coastal Regulation Zone Notification, 1991 as amended in 1994, 1997 & 2001.
- The Environment Impact Assessment Notification, 2006.
- The National Environment Tribunal Act, 1995.
- The Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996
- The National Environment Appellate Authority Act, 1997.

- The National Environment Appellate Authority (Appeal) Rules, 1997.
- The Bio Medical Waste (Management and Handling) Rules, 1998 as amended in 2000, 2003.
- Fly Ash Utilization Notification, 1999 as amended in 2003.
- The Plastics Manufacture, Sale and Usage Rules, 1999, as amended in 2003.
- The Municipal Solid Wastes (Management and Handling) Rules, 2000.
- Noise Pollution (Regulation and Control) Rules, 2000.
- Ozone Depleting Substances (Regulation and Control) Rules, 2000.
- The Batteries (Management and Handling) Rules, 2001.

3.2 MONITORING OF INDUSTRIES

With the increasing pace of industrialization in Tamilnadu, the need for continuous monitoring of pollution due to industrial sources has become significant. Industries are required to provide pollution control measures to meet the standards prescribed by the Board. The field officers of the Board inspect the industries under their jurisdiction periodically to assess the adequacy of pollution control measures provided by the industries to treat sewage, trade effluent and emissions and to monitor their performance. They also investigate complaints of pollution received from the public, organizations and the Government. For effective monitoring, industries are categorized as Red, Orange, and Green according to their pollution potential. Depending upon the category and size, industries are monitored periodically.

3.3 PROCEDURE FOR ISSUE OF CONSENT

Industry requires to obtain consent for discharge of sewage/trade effluent into any stream or well or into sewer or land under the Water (Prevention and Control of Pollution) Act, 1974 and to operate the plant in air pollution control area of entire Tamilnadu under the Air (Prevention and Control of Pollution) Act, 1981. The consent is issued to industries in two stages. 'Consent to Establish' is issued depending upon the suitability of the site before the industry takes up the construction activity. 'Consent to Operate' is issued before commissioning the industrial unit after the compliances of conditions of 'Consent to Establish' issued.

3.4 WATER POLLUTION CONTROL

The Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 is enacted to prevent and control water pollution and to preserve or maintain or restore the quality of water. As per the provisions of this Act, the local bodies and industries, which discharge sewage /trade effluent, are required to apply and obtain the consent from the Board. The industries generating trade effluent are required to provide effluent treatment plant to treat their trade effluent to satisfy the standards prescribed by the Board. Industries are constantly monitored regarding the functioning of their effluent treatment plants and samples of treated sewage/trade effluents are collected regularly to assess the quality of effluent discharged and also to assess the efficiency of the effluent treatment plants provided. During the year 2008-2009, 16,377 samples of sewage and trade effluents from the industries were collected and analysed. The Board has issued 1229 'Consent to Establish' orders and 1054 'Consent to operate' orders under the Water (Prevention and Control of Pollution) Act, 1974 as amended during the year 2008-2009.

The Water (Prevention and Control of Pollution) Cess Act, 1977, provides for the levy and collection of Cess on water consumed by persons carrying on certain industries and by local authorities with a view to augment the water resources and for the prevention and control of water pollution. The Board collects cess from the specified industries and local bodies and remits to the Ministry of Environment and Forest, Government of India, New Delhi, every month. The Cess assessed and collected for the financial year 2008-2009 is Rs.802.12 lakhs amount reimbursed by Government of India is Rs.673.95 lakhs. The cess reimbursed to the Board is utilised as per the MOEF guidelines.



3.5 AIR POLLUTION CONTROL

The Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 is enacted to prevent and control air pollution and preserve the air quality. As per the provisions of this Act, the entire State of Tamilnadu has been declared as an 'Air Pollution Control Area'. Industries, which let out process emissions, are regularly monitored through inspections of the air

pollution control measures provided by the units. Ambient air quality survey/ stack emission survey are conducted in and around the industries regularly to assess the quality of the emissions let out and on the basis of the report of analysis, the industries are instructed to carry out necessary corrective measures. During the year 2008-2009, ambient air quality surveys have been conducted in 927 industries. The Board has issued 1228 'Consent to Establish' orders and 1056 'Consent to Operate' orders under the Air (Prevention and Control of Pollution) Act, 1981 as amended during the year 2008 - 2009.



3.6. COMMON EFFLUENT TREATMENT PLANTS

The TNPCB plays an important role in the establishment of Common Effluent Treatment Plants (CETPs) for clusters of small-scale industries in various parts of the State. Small-scale industries often express financial difficulties, lack of space and other reasons, which prevent them from putting up required individual effluent treatment plant. As a large number of small-scale units are in clusters, the Board has launched a massive programme of motivating these industries to set up common effluent treatment plants. The Board assists the units in mobilization of financial resources and in the technical scrutiny of the proposals for the common effluent treatment plants.

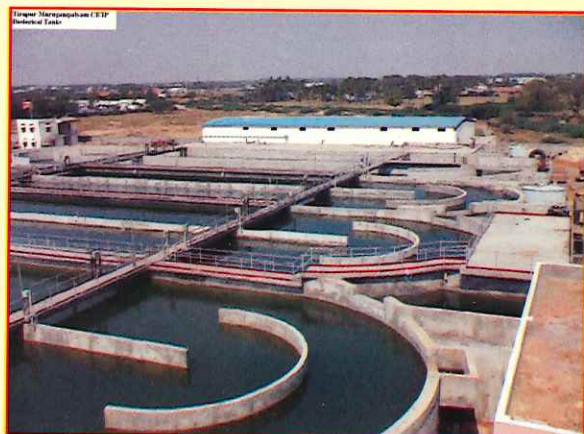
Subsidy by Central Government	25% of the project cost.
Subsidy by State Government	25% of the project cost.
Beneficiaries Contribution	20% of the project cost by way of Share capital collections.
Financial Institution Assistance	Balance by way of loans from the Financial Institutions such as IDBI. (30% of project cost)

3.6.2 STATUS OF COMMON EFFLUENT TREATMENT PLANTS:

Common effluent treatment plants are formulated in the following sectors:

Tanneries	21 Schemes
Textile Bleaching & Dyeing Units	30 Schemes
Hotels & Lodges	1 Scheme

Out of 52 CETPs formulated, 14 CETP schemes for tanneries, 19 CETP schemes for textile dyeing units and 1 CETP scheme for hotels and lodges are under operation. 7 CETP schemes for tanneries and 11 CETP schemes for textile dyeing units are under various stages of implementation. State and Central Governments sanction the subsidy for implementing the CETP schemes. Prior to 2003-04 the Government of Tamil Nadu has sanctioned Rs.26.88 crores towards subsidy for the common effluent treatment plants and out of this Rs.22.66 crores has been released as on 31.03.2003 through the Board and Tamil Nadu Leather Development Corporation. During 2003-2004, 2004-2005 and 2005-2006, State subsidy of Rs.86.49 lakhs to M/s. Kovai Telungupalayam Common Effluent Treatment Private Limited and Rs 114.32 lakhs to M/s Perundurai CETP has been granted.



3.7 MANAGEMENT OF HAZARDOUS WASTES AND CHEMICALS

The TNPCB is taking effective steps in the handling and management of hazardous chemicals and treatment and disposal of hazardous wastes in an environmentally safe manner. The Board has identified 2655 units generating hazardous wastes under the Hazardous Wastes (Management Handling and Transboundary Movement) Rules, 2008.

A Common Hazardous Waste Treatment Storage and Disposal Facility (CHWTSDF) has been established at SIPCOT Industrial Estate, Gummidipoondi for Treatment, Storage and Disposal of hazardous waste from industries located in Tamilnadu. The secured landfill facility in the (CHWTSDF) is in operation since January. 2008. The Common Hazardous Waste incinerator will be commissioned by Mid-September 2009 to take trial runs. Besides, the Federation of common effluent treatment plants, Tiruppur has identified a site at Nallur Village, Karupagoundarpalayam, Tiruppur Taluk, Coimbatore District. The site has been notified as a site for establishing Common Hazardous Waste Treatment Storage and Disposal facility vide G.O.Ms.No.299 E&F (ECII) Dept.dt.2.11.2004. The federations of CETPs & ETPs in Karur have identified a site at Mathagiri village, Krishnarayapuram Taluk, Karur district for establishing a secure landfill facility for disposal of sludge generated from treatment of textile dyeing effluents. The site has been notified as a site for establishing Common Hazardous Waste Treatment Storage and Disposal facility vide G.O.Ms.No.135 E&F (ECII) Dept.dt.16.08.2005. EIA studies and Public hearing of the site has been completed. Work will be undertaken after obtaining local body clearance in the above two sites.

Another site for CHWTSDF has been identified at SIPCOT, Perundurai, Erode District. The EIA has been completed and the public hearing is to be conducted shortly. Environmental Clearances is awaited from the SEIAA.

The TNPCBd is promoting utilization of hazardous waste in cement kilns for co-incineration. M/s.Grasim Industries, Ariyalur Reddiyarpalayam and M/s.ACC, Madukarai have been given permission in this regard.



3. 8 MANAGEMENT OF BIOMEDICAL WASTES

The Biomedical Waste (Management & Handling) Rules, 1998 as amended applies to all persons who generate, collect, receive, store, transport, treat, dispose or handle biomedical waste in any form. As per the rule, authorization is required for handling of biomedical wastes. It is the duty of the occupier of an institution generating the biomedical waste to take all steps to

ensure that the biomedical waste is handled without any adverse effect to human health and environment. Biomedical waste shall be treated and disposed in accordance with schedule 1 and in compliance with the standards prescribed in schedule V of the said rules.

The Board has so far inventoried 2480 private hospitals, 308 Government hospitals in the State. All the health care facilities have joined area wise in common biomedical waste treatment and disposal facilities having treatment systems like autoclave, shredder, compactor, incinerator and secure landfill facility. So far 11 common facilities have been established for the private sector health care units in the State at Thenmelpakkam Village and Chennakuppam Village in Kancheepuram District. Kandipedu Village in Vellore District, two facilities at Orattukuppai Village in Coimbatore District, Sengipatti Village in Thanjavur District, Muthuvayal Village in Ramanathapuram District, Coonoor in the Nilgiris District, Ettankulam Village in Tirunelveli District, Thangayur Village in Salem District and Undurmikidakulam in Virudhunagar District.

All the 11 common treatment facilities have been issued authorisation by the Board, so far 2005 health care facilities are also issued authorisation. The Government Hospitals, under the Tamilnadu Health systems project, are being brought with Private Common Bio Medical Waste treatment facilities for the safe disposal of Bio Medical Waste.



3.9. MANAGEMENT OF MUNICIPAL SOLID WASTES

With increasing urbanization and rising levels of municipal solid wastes generation, there is an urgent need to evolve scientific approaches to the management of municipal solid wastes. The Municipal Solid Wastes (Management and Handling) Rules, 2000 has been enacted for proper management of municipal solid wastes. Commissioners of Corporations, Municipalities and Executive Officers of Town Panchayats have been addressed to comply with the implementation schedule prescribed in Schedule 1 of the rules. The Board is advocating the concept of segregation of wastes at source, reduction, recycle and reuse of waste. Municipal authorities have been asked to segregate the wastes as wet compostable waste, dry recyclable waste, inert wastes, construction debris and domestic hazardous waste.

During the budget session of the State Legislative Assembly on 28.04.2007, the Hon'ble Minister for Environment has announced that eight Municipalities will be selected and be granted a total amount of rupees One Crore for the implementation of the Municipal Solid Wastes (M&H), 2000. In order to develop one Municipality or one Special Village Panchayat in each district as a Model town in Municipal Solid Waste Management, a seed money of Rs.2 Lakhs to one Municipality or Rs.1 lakh to one Special Village Panchayat in each district has been given by the Board through District Collectors. Also Rs.5 Lakhs each have been given to Dharapuram, Conoor & Namakkal Municipalities for Management of Municipal Solid Waste and to make it as a model Municipality.

Further, Board initially issues 'No Objection Certificate' to the sites selected by the local body if the site is found suitable and not owned by the local body. This is done to speed up the process of acquiring the land and setting up the compost facility by the local bodies. So far 109 out of 152 municipalities have been issued NOC for the site selected by them. Out of these 63 municipalities and one town panchayat have been issued with authorisation. Two Corporations (Tirunelveli and Coimbatore) have also been issued with NOC. Further power has been delegated to DEES/AEEs to issue NOC to Municipalities and Town Panchayats on 15.02.2008 in order to speedup the issue of NOCs to the local bodies.



3.10 MANAGEMENT OF PLASTIC WASTE

The Government of India, Ministry of Environment and Forest notified the Recycled Plastics Manufacture Sale and Usage Rules, 1999 as amended under the Environment (Protection) Act, 1986 to ensure that carry bags and containers used for packing food stuff is not made of recycled plastics. As per the provision of the said rules, only virgin plastics, permitted additives and colour are to be used in plastic items shall use for packaging foodstuff. All District Collectors, local bodies, Commissioner of Police, Special Commissioner and Commissioner of civil supplies have been addressed to ensure compliance with the provision of the said rules. The Board has identified 1732 plastic products manufacturing units and issued consent for the same.

4.0 MONITORING NETWORK FOR QUALITY OF AIR AND WATER

4.1 AIR QUALITY MONITORING

With the increased industrial and commercial activities in the vicinity of major cities, the quality of the ambient air is being affected by emissions from the industries and from the ever increasing vehicular population. As per the provision of Air (Prevention and Control of Pollution) Act, 1981, the entire state of Tamilnadu has been declared as an air pollution control area.

4.1.1 AMBIENT AIR QUALITY MONITORING PROGRAMME AT CHENNAI CITY

Tamilnadu Pollution Control Board is operating eight ambient air quality monitoring stations in Chennai under two monitoring programmes:

- (i) National Air Quality Monitoring Programme (NAMP)
- (ii) Chennai Ambient Air Quality Monitoring (CAAQM) Programme

Under NAMP three ambient air quality monitoring stations are functioning on 24 hours basis, twice a week. The samples collected from NAMP stations are analysed for the Total Suspended Particulate Matter (TSPM), Respirable Suspended Particulate Matter (RSPM). (RSPM is particulate matter less than 10 microns) and gaseous pollutants such as Sulphur di oxide (SO₂) and Oxides of Nitrogen (NO_x).

Under CAAQM programme, TNPCB is operating five monitoring stations on 24 hours basis two stations per day on all working days. The pollutants measured in the CAAQM stations are Sulphur di oxide (SO₂), Oxides of Nitrogen (NO_x), Respirable Suspended Particulate Matter (RSPM) and Total suspended particulate matter (TSPM) in all stations.

The eight ambient air quality monitoring stations in Chennai are :-

I	Kathivakkam (NAMP)	Industrial area
II	Manali (NAMP)	Industrial area
III	Thiruvottiyur (NAMP)	Industrial area
IV	Kilpauk (CAAQM)	Commercial (traffic inter-section)
V	Thiyagaraya Nagar (CAAQM)	Commercial (traffic inter-section)
VI	Vallalar Nagar (CAAQM)	Commercial (traffic inter-section)
VII	Anna Nagar (CAAQM)	Residential area
VIII	Adyar (CAAQM)	Residential area

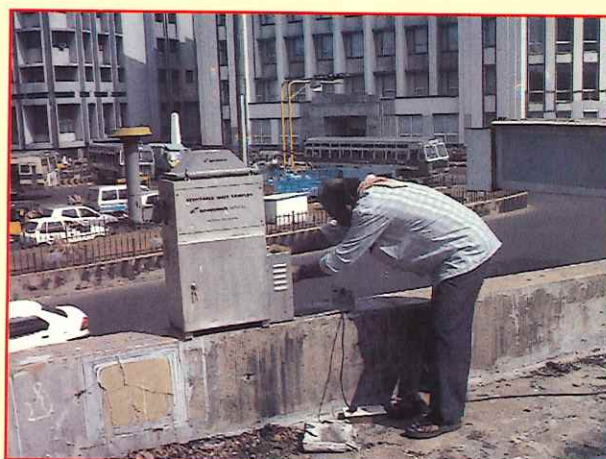
The TNPCB has established three continuous air quality monitoring stations in and around Chennai City

The National Ambient Air Quality Standards prescribed is given below:

Area	Annual average concentrations of pollutants in micro gram/m ³			
	SO ₂	NO _x	RSPM	TSPM
Industrial	80	80	120	360
Residential, Rural & mixed areas including traffic inter section	60	60	60	140

The ambient air quality data collected from the above mentioned air quality monitoring stations (NAMP) indicate that all the parameters such as sulphur dioxide, oxides of nitrogen, total suspended particulate matter and respirable suspended dust particulate matter are found to be well controlled in the industrial area due to the effective monitoring of industrial source emissions by the TNPCB. The average values of pollutants recorded under NAMP programme during the year 2008-2009 are in Annexure-VI.

In general, under CAAQM project the ambient air pollutants such as sulphur dioxide and oxides of nitrogen are well within the standards in Chennai city limit, where as total suspended particulate matter and respirable suspended particulate matter (PM₁₀) levels exceeded the permissible limit at all stations except Adyar mainly due to the dust contributed by pipe line, telephone/electrical cable laying activities on the road and also due to the resuspension of traffic dust generated from automobile emissions and heavy vehicular traffic and pedestrian movement. The average values of pollutants recorded under CAAQM programme during the year 2008-2009 are in Annexure VII.



4.1.2 AMBIENT AIR QUALITY MONITORING IN THOOTHUKUDI, COIMBATORE, SALEM, MADURAI AND TRICHY

At Thoothukudi, ambient air quality stations have been functioning from the year 1988 in the following locations.

A	Raja Agencies	Industrial zone
B	Fisheries College	Industrial zone
C	A.V.M. Building	Mixed zone

At Coimbatore, the ambient air quality stations have been functioning from the year 1991 in the following locations.

A	Collectorate Office Building	Mixed zone
B	Ponniyarajapuram	Residential zone
C	SIDCO Building	Industrial zone

At Salem, the ambient air quality station has been functioning in the following location from July 1996 onwards.

A	Sowdeswari College	Mixed zone
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At Madurai, the ambient air quality stations have been functioning from July 1996 in the following locations.

A	Highways Project Building	Residential zone
B	M/s.Susee Cars and trucks Co., Ltd.	Industrial zone
C	Avvai Girls Higher Secondary School	Mixed zone

At Trichy, under Trichy ambient air quality monitoring programme, TNPCB is operating 5 monitoring stations once in a week on 24 hours basis in all working days in the following places:-

1	Gandhi Market	Commercial zone
2	Main Guard Gate	Traffic intersection
3	Bishop Heber College	Mixed zone
4	Golden rock	Residential zone
5	Central bus stand	Traffic intersection

The ambient air quality data recorded during 2008-2009 indicate that all the parameters such as sulphur dioxide, oxides of nitrogen, total suspended particulate matter and respirable suspended particulate matter are found to be well controlled at Thoothukudi, Madurai, Coimbatore and Salem except in Thoothukudi at AVM buildings and at M/s. Raja Agencies and at Sowdeswari College buildings Salem, where the annual average value of RSPM are found to exceed the permissible limits due to heavy commercial activities and traffic flow. The annual average values of pollutants recorded during the year 2008-2009 are in Annexure -VI.

The ambient air quality data collected from the TAAQM stations in Trichy indicates that the average concentration of SO₂ and NO_x values are found well within the prescribed standard and the RSPM and TSPM values (except at Golden Rock, Bishop Heber College) are exceeding the standard prescribed by the Board. This could be attributed not only due to the increase in number of vehicles and the surface dust generated by vehicular movement but also due to the digging and laying activities for pipe lines, electrical and telephone cables. The annual average concentration of ambient air pollutants during the period 2008-2009 are in Annexure - VIII

4.2 VEHICULAR EMISSION MONITORING

4.2.1 VEHICULAR EMISSION MONITORING IN CHENNAI CITY

TNPCB is carrying out the vehicle emission monitoring since 1992 for testing the emissions from goods transport vehicles in and around Chennai city in three locations at Alandur (now located at Ambattur w.e.f. 8-12-2005), Madhavaram and Ambattur. During the year 2008-2009, 42206 vehicles were tested. Among the total vehicles tested 4760 vehicles did not comply with the emission standards during the first test. Vehicles that do not comply with the emission standards are instructed to carry out corrective measures to comply with the emission standards. Emission under control certificates are issued to only those vehicles comply with the emission standards in the subsequent tests. In addition, 74 private agencies have been authorised by the Transport Department in Chennai urban agglomeration area to check the emission levels of the vehicles. The status of vehicle tested at TNPCB VEM stations during 2008-09 are in Annexure - IX.

4.3 WATER QUALITY MONITORING

4.3.1 MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES (MINARS) AND GLOBAL ENVIRONMENTAL MONITORING SYSTEM (GEMS)

Under MINARS programme, the rivers Thamiraparani, Palar and Vaigai and lakes such as Udhamandalam lake, Kodaikanal lake and Yercaud lake are being monitored. Under GEMS and MINARS programmes the river Cauvery is being monitored. These programmes are funded by the Central Pollution Control Board, New Delhi.

4.3.1.1 THE RIVER CAUVERY

The Cauvery river is a major river in the State which drains more than one third of the State. This river has been identified as a major river for studying the impact of pollution caused by various activities of the domestic and industrial sectors.

The quality of river water is being monitored at twenty places along the river under GEMS (4 stations) and MINARS (16 stations). These places have been selected on the basis of the location of outlets for the discharge of industrial effluents and domestic wastes.

The physico-chemical and biological parameters are analysed at each of the monitoring stations. Sampling is done on a frequency prescribed by Central Pollution Control Board, Delhi and analysis is done at the Advanced Environmental Laboratory, Salem. The mean values of water quality at various sampling stations are enclosed, in Annexure - XA and XB.

The overall analysis of the data reveals that the faecal contamination of surface water of the river is a common phenomenon due to the unhygienic anthropogenic activities and disposal of either untreated or partially treated municipal waste into the river systems directly or indirectly. In general, the water quality of the river is categorized under B and C class designated best use for out door bathing, drinking water source with conventional treatment followed by disinfection.

4.3.1.2 THE THAMIRAPARANI RIVER

The water quality of the Thamiraparani river is monitored on a frequency prescribed by Central Pollution Control Board, New Delhi at seven stations. The physico-chemical parameters and biological parameters are analysed in the District Environmental Laboratory at Tirunelveli and the details have been furnished in Annexure XI.

The water quality study conducted during the year 2008-2009 shows that the level of pH values varied from 6.69 to 7.01 and the average values of the bio-chemical oxygen demand (BOD) varied from 1.0 to 2.17 mg/l as against the standards prescribed for pH (6.5 to 8.5) and bio-chemical oxygen demand (3mg/L). The parameters analysed meet the standards prescribed for surface water quality under the class 'B' & 'C'. class designated best use for out door bathing, drinking water source with conventional treatment followed by disinfection.

4.3.1.3 THE PALAR RIVER

One station viz., Vaniyambadi Municipal Head Works in the Palar river is being monitored every month. The analysis of water samples is done in the Advanced Environmental Laboratory at Chennai, for physico-chemical and bacteriological parameters. The mean values of water quality are furnished in Annexure XII.

The analysed data reveals that the water quality of the river at the sampling point meets the standards prescribed for surface water quality under class 'C'.

4.3.1.4 THE VAIGAI RIVER

The water quality of the Vaigai river is being monitored by collecting the samples once in six months from the collection well of Thirubuvanam Head works and analysed in the Advanced Environmental Laboratory at Madurai for physico-chemical and bacteriological parameters.

The water quality of the Vaigai river (collected from infiltration well) meets the standards prescribed for surface water quality under class 'A' designated best use as drinking water source without conventional treatment but after disinfection and the details are furnished in the Annexure-XII.

4.3.1.5 LAKES

Under MINARS programme, three important lakes of Tamil Nadu at Udhagamandalam, Kodaikanal and Yercaud have been identified and monitored by collecting samples once in three months. The mean values of water quality are furnished in Annexure XIII (A).

The bio-chemical oxygen demand (BOD) in Udhagamandalam lake is found to exceed the standards prescribed due to the surface run off and sullage discharge into lake either directly or indirectly.

The water quality of the Udhagamandalam lake meets the standards prescribed for surface water under class 'D' designated best use for probagation of wild life and fisheries, Kodaikanal class 'C' and the water quality of Yercaud lake meets the standards prescribed under Designated best use class 'C' suitable for drinking water source with conventional treatment followed by disinfection.

4.4 MONITORING OF CHENNAI CITY WATERWAYS

Chennai city is traversed by four waterways namely the Cooum, Adyar, Buckingham Canal and Otteri nullah. The TNPCB is monitoring these water ways to assess the level of pollution by collecting water samples every month both at water bodies and industrial outlets as detailed below:

Source	River No. of station	Industrial outlets No. of stations
Adyar	5	6
Cooum	11	5
Buckingham canal	10	9
Otteri Nullah	7	5

During the year 2008-2009, 1000 samples were collected and analysed at the Advanced Environmental Laboratory, Chennai. The mean values of water quality are furnished in the Annexure- XIII (B).



4.5 LABORATORIES

To assist the Board in the monitoring of industries, the Tamilnadu Pollution Control Board has Established 3 Advanced Environmental Laboratories, 11 District Environmental Laboratories under section 17 (2) of the Water (Prevention and Control of Pollution) Act, 1974 amended in 1978 and 1988, so as to enable the Board to perform its functions efficiently and to cover the industries located in various districts. Samples of effluents are collected periodically and analysed. The details of samples analyzed laboratory wise during the year 2008-2009 are shown at Annexure - XIV, XV, XVI.

5.1 ENVIRONMENTAL STANDARDS

One of the functions of the TNPCB is to lay down, modify or annual effluent standards for the sewage / trade effluents and for the emissions of air pollutants into the atmosphere from the industrial plants or any other source with approval of Government of Tamil Nadu.

The Board has prescribed standards for the discharge of treated sewage / trade effluents depending upon the mode of disposal either into inland surface water, sewer, and marine coastal areas or on land. Treated effluent from the industries must satisfy the respective standards before its disposal.

Ambient Air Quality Standards and Emission Standards have been fixed for polluting industries. The Board monitors the industries local bodies, automobile emission so that they adhere to the prescribed effluent / emission standards.

6.1 LEGAL ACTION

The TNPCB is taking legal action against the defaulting industries. The Board has so far issued show cause notices to 47031 industries and closure orders to 7367 industries for not complying with the conditions prescribed by the Board. During the year 2008-2009, 2558 show cause notices and 535 closure orders have been issued.

6.2. GREEN BENCH

The Hon'ble High Court of Madras has constituted a 'Green Bench' during the year 1996 as per the directions of Hon'ble Supreme Court of India dated 28.8.96 in W.P(C) No.914/1991. The Green Bench deals with cases pertaining to environment related matters.

6.3. APPELLATE AUTHORITY

During 2007, the Government of TamilNadu reconstituted the Appellate Authority under the Chairmanship of Hon'ble Justice Thiru.K.Sampath Kumaran, retired Judge of Madras High Court and Thiru.Dr.Thayumanavan, Director for Environment Studies (Retd.), Anna University and Thiru.Dr.G.B.Jaiprakash Narain, Former Director, National Institute of Technical Teachers and Research, MOHRD, Government of India, Chennai as members vide G.O.Ms. No.24 E&F (ECI) Dept. dated 08.02.2007.

Any person aggrieved by an order made by the SPCB under Section 25, 26 or 27 of the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 may within 30 days from the date on which the order is communicated to him, prefer an appeal to the said authority. During the year 2008-2009, 122 appeals have been filed by the aggrieved units in the Appellate Authority and the said authority disposed 45 appeals.

7.1 BOARD MEETINGS

MEETINGS OF THE BOARD WERE HELD DURING THE PERIOD FROM APRIL 2008 TO MARCH 2009. THESE DETAILS ARE LISTED BELOW.

SL. NO.	NO.OF SUBJECTS PLACED	BOARD MEETING NO.	DATE OF MEETING
1.	24	228 TH	24/06/2008
2.	19	229 TH	23/07/2008
3.	31	230 TH	05/11/2008
4.	14	231 TH	26/12/2008
5.	28	232 TH	09/03/2009
6.	10	233 TH	30/03/2009

7.2 MAJOR POLICY DECISION TAKEN BY THE TAMILNADU POLLUTION CONTROL BOARD DURING THE PERIOD FROM APRIL 2008 TO MARCH 2009

The Board resolved to purchase five numbers of carbon monoxide analyser from M/s.Techmark Engineers and Consultants, Chennai-61 at the total cost of Rs.24,28,391/- (Rupees Twenty four lakhs twenty eight thousand three hundred and ninety one only).

The Board resolved to purchase of thirteen numbers of COD digester from M/s.Pelcan Exporats, Chennai at the total cost of Rs. 12,82,507/- (Rupees twelve lakhs eighty two thousand five hundred and seven only).

The Board resolved to approve the purchase of 30 Nos. of high volume samplers model APM 460 (Dwarf type) at the total cost of Rs. 10,45,913/- (Rupees Ten lakh forty five thousand nine hundred and thirteen only) from M/s.Vayubodhan Upkaran Limited, New Delhi.

The Board resolved to approve proposal for the purchase of six numbers of electronic display boards from M/s.APT Micro Solutions Limited, Trivandrum at a total cost of Rs.29,70,000/- (Rupees Twenty nine lakhs seventy thousand only).

The Board resolved to release an amount of Rs.1.50 crores (Rupees One crore and fifty lakhs only) to the Forest Department for road avenue planting in urban and sub-urban areas in Tamilnadu for the year 2008-2009 from Board's fund for the last occasion as a special case.

The Board resolved to purchase two numbers of Micro Processor Controlled UV Visible Spectrophotometer from M/s. Toshwin Analytical (P) Ltd., Chennai at the total cost of Rs.11,84,000/-(Rupees Eleven lakhs eighty four thousand only).

The Board resolved to purchase three numbers of Micro Processor based TKN Digestion and Distillation System from M/s. Pelican Equipments, Chennai at the total cost of Rs. 7,15,815/-(Rupees Seven lakhs fifteen thousand eight hundred and fifteen only).

As per the announcement made by the Hon'ble Minister for Environment and Sports in the Legislative Assembly during the period 2008-2009, the Board decided to grant Rs.1.05 crores to two Villages in each district selected among 30 districts (excluding Chennai) in the state of Tamil Nadu, which have either selected to or awarded to the Nirmal Gramma Puraskar Award, through the District Collectors for the maintenance of 500 saplings each to be planted in the selected villages.

The Board resolved to approve the formation of Zonal Level Consent Clearance Committee for clearing applications for consent to establish and consent to operate for all the existing and proposed orange-large and orange-medium industries. (Except industries attracting EIA notification.)

The Board resolved to purchase of 8 Nos. of automatic monitoring system from M/s. Techmark Engineers Consultant, Chennai at a total cost of Rs.11.52 lakhs/-(Rupees Eleven lakhs fifty two thousand only).

8.1 ENVIRONMENTAL TRAINING INSTITUTE (ETI)

ETI is an organizational wing of TNPCB, which was established in 1994 with Danish assistance. It is functioning in the 3rd floor of its corporate office of TNPCB.

ETI is guided by a steering committee, chaired by Chairman of TNPCB and its Members are from Government, PCB and CEOs of Industry. An Advisory Council comprising of members from Industries, NGOs, Academic and government institutions provides technical support to the ETI.

The main objective of the Training institute is to impart training to staff of the Pollution Control Board, Industrial representatives, Executives of Municipalities and Corporations, Line agencies and non-governmental organizations on the following aspects.

- Improve awareness at all levels.
- Introduce the holistic approach to environment & sustainable development
- Introduce the basic theories, concepts and methodologies of integrated environmental planning and management aiming a sustainable development
- Promote public awareness and motivation to preserve and protect the environment through NGOs.
- Create Cross - media awareness in industry, urban sector and the public on Environmental Hazards and adverse impact on quality of life.
- Pollution Control at source by cleaner technology and improved processes of materials and products. This includes conservation of non-renewable resources, resource recovery, refuse recycling and disposal of minimum waste to the environment.
- Improve environment management capacity in the sector of industry and urban development.
- Develop the ability among professionals to communicate effectively.
- During the year 2008-2009 this training institute has conducted 14 programmes and trained 611 personnel in total.

9.1 ENVIRONMENTAL AWARENESS AND PUBLIC PARTICIPATION

As a part of the awareness campaign to inform the public about the health effects caused by air & noise pollution due to bursting crackers continuously, special monitoring programmes were launched by TNPCB for 2008 - 2009 during festival seasons with monitoring of noise level and air quality level during deepavali and monitoring of air quality level during bhogi. The noise level and the ambient air quality surveys were conducted during deepavali in important cities of Tamilnadu viz. Chennai, Trichy, Coimbatore, Madurai, Tirunelveli, Vellore, Salem, Hosur, Tiruppur and Cuddalore. A special ambient air quality survey on pre-bhogi, bhogi, and post-bhogi days were conducted in Chennai at nine places viz. Anna Nagar, Besant Nagar, Kilpauk, Royapuram, Thiagaraya Nagar, Vallalar Nagar, Vyasarpadi, Triplicane and Mandaveli.

Environmental programmes were prepared by Board and broadcasted every Thursdays in all stations of All India Radio from 28.02.2008. Environmental programmes were prepared by Board and telecasted every Saturday through Podhigai Television from 28.02.2008. Apart from the mobile exhibition vehicle were sent to all schools of Tamil Nadu to create awareness among the students. 1636 Environmental display boards were displayed in 409 MTC buses during the year 2008 - 2009 which was very much appreciated by the public. Apart from the above, TNPCB has conducted 77 awareness program on various environmental issues for the public.



10.0 OTHER IMPORTANT MATTERS DEALT IN THE BOARD**10.1. PUBLIC HEARING**

Some specific categories of industrial projects require environmental clearance from the Ministry of Environment & Forests, Government of India as per the Notification issued. As per the instruction of the MOEF, the Tamil Nadu Pollution Control Board conducts public hearing headed by the District Collector. After conducting public hearing, inviting opinions from the public, the details of the minutes are sent to the MOEF, Government of India. Upto 31.3.2009, 485 public hearings have been conducted on various projects. 54 public hearing meetings were conducted during the year 2008-2009.

10.2. GREEN AWARDS

The Government of Tamilnadu has instituted Green Awards to encourage District Collectors to play a proactive role in promoting sustainable development in their districts. Green awards are given to the District Collectors based on the assessment of their personnel contribution to the promotion of environmental protection and sustainable development. A committee has been constituted under the Chairmanship of Secretary, Environment & Forests department to decide the awards to the Collectors.

10.3 SPATIAL ENVIRONMENTAL PLANNING

The Spatial Environmental Planning Unit of Tamilnadu Pollution Control Board has taken up the Geographic Information System based Spatial Environmental Planning (SEP) activities with the technical and financial support of Central Pollution Control Board (CPCB) for better Environmental Management from the year 2000 - 2001. These SEP activities include the preparation of District Environmental Atlas, State Environmental Atlas, Environmental Management Plan etc.,

During the year 2000 - 2001 to 2004 2005 the District Environmental Atlas for the Districts of Coimbatore, Vellore, Thoothukudi, Thiruvallur and Kancheepuram districts had been prepared by the SEP Unit of Tamilnadu Pollution Control Board and the same had been approved by CPCB. Further the approval for the publication of District Environmental Atlas of Coimbatore, Vellore, Thoothukudi, Thiruvallur and kancheepuram district has been obtained from Ministry of Defence, Govt. of India.

During the year 2005 - 2006 to 2007 - 2008, as the preparation of District Environmental Atlas for the districts of Villupuram, Cuddalore, Erode, Salem, Karur, Madurai, Namakkal and Trichy had been completed and these Atlas were submitted to CPCB for approval.

Presently as per B.P.Ms.No.44 dated 19.11.2008, as the current year activities of Spatial Environmental Planning, the project on preparation of District Environmental Atlas for Tirunelveli, Virudhunagar and Dindigul district is under progress.

CPCB has suggested regularising the Spatial Environmental Planning activities as the regular activities of the Board and continue the SEP activities with its own fund during the eleventh Five Year Plan.

10.4 WATER CONSERVATION

As a water conservation measure, three major industries in Manali and Basin Bridge area are utilising about 25 MLD (million liters per day) of city sewage in their plants after tertiary treatment for cooling purposes. This includes a major petroleum refinery unit at Manali. Further There are 207 dyeing units in the State including 148 units at Tiruppur have provided reverse osmosis plants for recovering the process water from the effluent. The recovered water is reused in the process. In sugar industries, water condensate from evaporators is reused. As a condition for issue of consent, industries have been instructed to provide rainwater harvesting arrangements. During the last two years, all the industries have set up rain water harvesting systems. The roof top rainwater harvesting system has also been provided in the offices of the Tamilnadu Pollution Control Board.

10.5 CLEANER TECHNOLOGIES

The TNPCB is involved in promoting a holistic approach of environment protection by cleaner technology options more than mere end-of-pipe treatment. With active support and encouragement from the Board, the industrial units in Tamilnadu have switched over to cleaner technologies such as adoption of membrane cell instead of mercury cell in caustic soda manufacturing, adoption of dry process instead of wet process to reduce air pollution in cement factories, adoption of double conversion and double absorption technology in sulphuric acid manufacturing, gas carburizing instead of cyanide salt in heat treatment and cyanide free electroplating. Pulp and paper industries are encouraged to go in for elemental chlorine free bleaching to reduce the formation of organo-chlorides including dioxins. Industries consuming ozone-depleting substances are systematically changing to environment friendly compounds.

Tanneries adopt desalting, reuse of lime and chrome recovery system so as to reduce the pollution load in the effluent.



10.6 WASTE MINIMISATION

With the adoption of cleaner technologies there has been progress in waste recovery and waste minimisation. Examples include recovery of materials such as chrome from tannery effluent and ammonia from fertilizers. Out of 17 distilleries, 10 distilleries have gone for biocomposting of their effluents with press mud of sugar factories for achieving zero discharge of trade effluent. Two distilleries are not in operation at present.



10.7 ENERGY CONSERVATION

As a measure for fuel conservation and recovery, all the distilleries are recovering methane gas from their spent wash through anaerobic digestion. Major sugar factories have installed co-generation power plants. The sago units recover methane gas from their trade effluent through anaerobic digestion. A CETP for tanneries in Melvisharam has installed a power generator using methane recovered from anaerobic digestion of fleshings from tannery. In activated carbon process, the waste heat is recovered and used at boiler section. Other industrial units are encouraged to use less energy and it is being audited through the environmental statements of the unit.



10.8 ENVIRONMENTAL STATEMENT

Under the rule 14 of the Environment (Protection) Rules 1986, submission of Environmental Statement is made compulsory for every industry covered under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981 or the Hazardous Waste (Management & Handling) Rules, 1989. Industries are required to submit Environmental Statement for the financial year ending 31st March every year in the prescribed Form-V before 30th September every year to the State Pollution Control Board. Environmental Statements have been obtained from all the 17 category of highly polluting industries to assess their water & energy consumption and efforts in reducing the pollution levels.

10.9 ENVIRONMENTAL AUDIT

For self auditing of the environmental management systems, all major industrial units have been asked to get the ISO 14001 certifications which are awarded after auditing the environmental management systems by an external agency. During the last two years 102 industries have obtained ISO 14001 certification and more than 200 industries are in the process of obtaining have obtained ISO14001 certification.

10.10 GREEN COVER PROGRAMME

As a measure of pollution check, industries have been directed to develop 25% of the land area as green belt with trees having a thick canopy cover. Accordingly, industries have taken action to plant adequate number of trees in and around the industrial premises.



10.11 EXTERNALLY AIDED PROJECTS

A feasibility study on industrial wastewater recycling and reuse for the tanneries in the Vellore Region has been carried out and the study is funded by the U.S. trade and Development Agency (USTDA). The project cost is US \$ 1,80,100 (approximately Rs.81 lakhs). Status reports on various topics industrial pollution, plastic waste management, Battery waste management, e-waste, 13MW, are prepared with CPCB aid.

10.12 COMPLAINT CELL

Due to increased environmental awareness and awareness on pollution control legislation several complaints are being received from various individuals / organisation/ NGOs etc. regarding water, air, noise and vehicular pollution. To take appropriate action against these complaints, an active 'Complaint Cell' is functioning in the head office, Chennai on all working days. For easy access of the public and others, separate telephone number, 22353153 is allotted for receiving complaints and guidance. The complaints are attended by calling reports along with the recommendations from the field officers of the Board. Action required based on the reports are taken then and there. For attending environmental related complaints especially in Chennai City, a 'Green Squad' under the control of District Environmental Engineer, Tamilnadu Pollution Control Board, Chennai has been formed. Two patrolling vehicles and two two-wheelers have been provided to the Green Squad Chennai District. Further the office of District Environmental Engineer, Ambattur and Tambaram have also been provided with one Two wheeler for each to the Green Squad. The Green Squad visits the complaints immediately as and when received and intimate the facts to the respective District Environmental Engineers, Tamilnadu Pollution Control Board for action.

10.13 RIGHT TO INFORMATION ACT

In pursuance to the directions of Government of Tamil Nadu, Tamil Nadu Pollution Control Board has designated the Member Secretary as State Information Officer (Appellate Authority)

and One Public Information Officer in the Corporate Office and 28 District Officers are also designated as Public Information Officers to provide information to the persons requesting for information under the Right to Information Act, 2005. The Board has received 380 applications seeking information for the period from 01.04.2008 to 31.03.2009 and the Board has disposed all the request of 380 applicants.

Further the Board has also received 75 appeal petitions and all the appeal petitions were disposed during the same period.

10.14 LIBRARY

The TNPCB Library was established during November 1989. At present 10337 books and reports are available for reference. The collection comprises of documents in the field of Environmental Protection, Air Pollution, Vehicular pollution, Water pollution, Noise pollution, Waste management, Environmental Engineering, Types of Industries, Chemical Technology, Chemical Accidents & Disasters, Soil, Energy, GIS, Pesticides, Biotechnology, Environmental Health, Toxicology, Environmental Law, Environmental Economics, Environmental Chemistry, Environmental analysis, Environmental Impact Analysis, Environmental education, Sustainable Development, Women and Development, Wetlands, Forestry, Directories and Reports (related to environment) of Tamil Nadu.

Library subscribes for 74 journals. Besides this annual reports, Newsletters, Bulletins and Reports are received from different Institutions (Indian & International). Back volumes of the journals are bound and kept for reference in the periodical section.

Library Committee and Library Purchase Committee are constituted to administrate the library activities. These committee consist Senior officers of the Board and the experts from Anna University and Indian Institute of Technology, Madras.

TNPCB library is a Reference Library. Membership is opened to all those who involve in Environmental aspects. Readers are provided Photocopying facilities. School and College Students, Research Scholars, Professors, Professionals, NGOs, Industrialists and people involved in environmental aspects. Readers are from various institution not only from Chennai but also from allover Tamil Nadu and Pondicherry. Readers are also from other States like Karnataka. Andhra Pradesh, Kerala, Maharashtra, Uttar Pradesh and West Bengal. During 2008 2009, 3036 readers utilized the library and 119 readers obtained membership.

ANNEXURE - I

List of Board Members from 1.4.2008 to 31.03.2009

S.No.	Name & Address	Position	From	To
1	Dr.N.SUNDARADEVAN, I.A.S., Chairman, Tamilnadu Pollution Control Board, 76 Mount Salai, Guindy, Chennai 600 032.	Member	12.12.2006 Fore Noon	31.03.2008 Fore Noon
2	Thiru.R.BALAKRISHNAN,I.A.S., Chairman, Tamilnadu Pollution Control Board, 76 Mount Salai, Guindy, Chennai 600 032.	Member	31.7.2008 Fore Noon	31.03.2009
3	Thiru R. RAJAGOPAL, I.A.S., Secretary to Government, Environment and Forests Department, Fort St. George, Chennai 600 009.	Member	1.4.2008	31.5.2008
4	Dr.N.SUNDARADEVAN, I.A.S., Principal Secretary to Government, Environment and Forests Department, Fort St. George, Chennai 600 009.	Member	1.6.2008	30.11.2008
5	Thiru.DEBENDRANATH SARANGI,I.A.S., Principal Secretary to Government, Environment and Forests Department, Fort St. George, Chennai 600 009.	Member	1.12.2008	31.3.2009
6	Thiru.P. RAGHAVAN, Joint Director, Finance (BPE) Department, Secretariat, Fort St. George, Chennai - 600 009.	Member	01.07.2007 Fore Noon	31.03.2009
7	Thiru.S. ELANGO VAN, B.E., Chief Inspector of Factories, Chepauk, Chennai 600 005.	Member	21.11.2007 Fore Noon	31.01.2009
8	Thiru.S,RAGHUNATHAN, Chief Inspector of Factories, i/c, Chepauk, Chennai 600 005.	Member	1.2.2009	31.3.2009

ANNEXURE - I

List of Board Members from 1.4.2008 to 31.03.2009

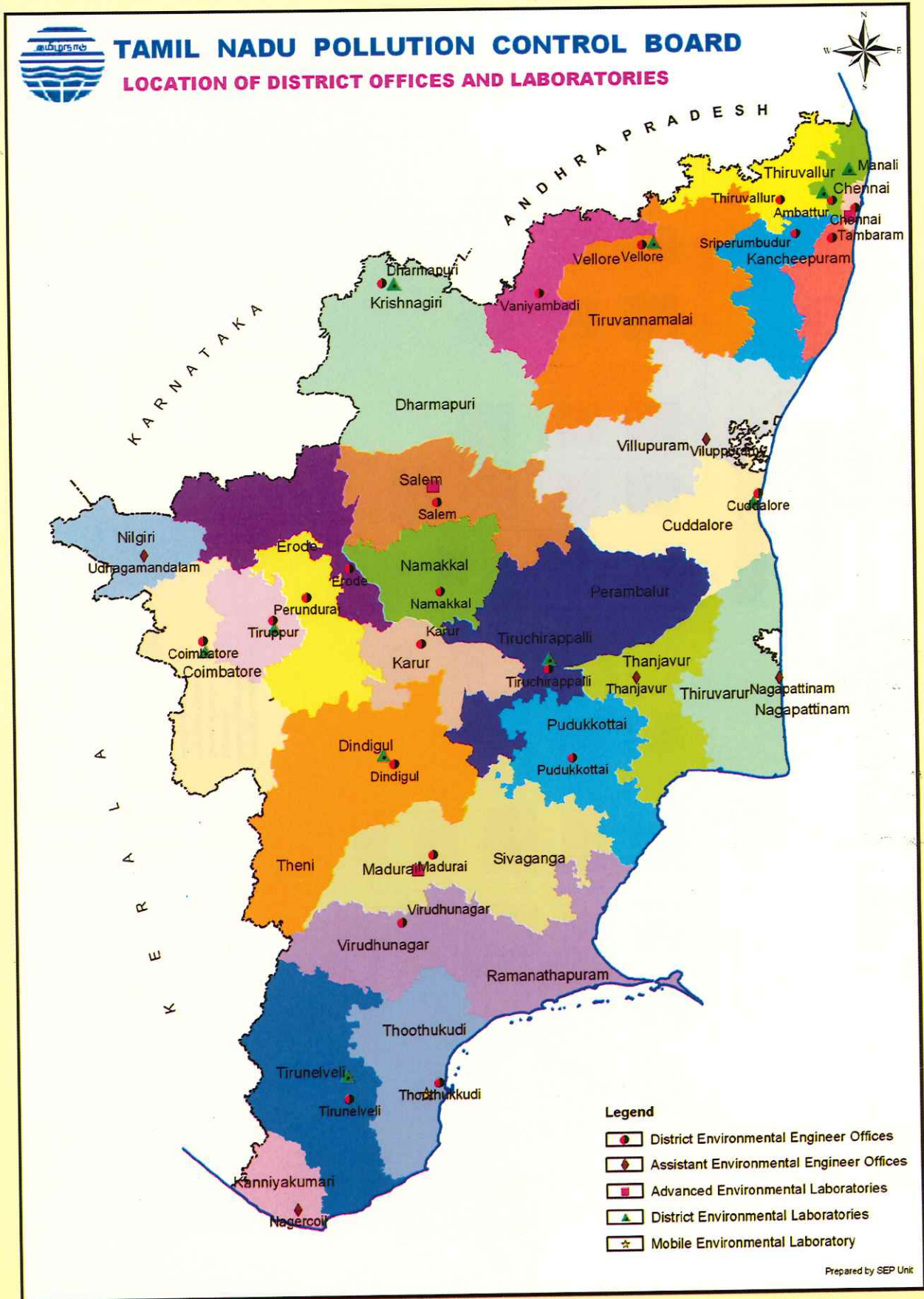
S.No.	Name & Address	Position	From	To
9	Thiru. ASHOK DONGRE, I.A.S., Director of Town and Country Planning. Chengalvarayan Building, IVth Floor 807 Anna Salai, Chennai 600 002	Member	29.09.2007 Fore Noon.	31.3.2009 Afternoon
10	Dr. P. PADMANABAN, M.B.B.S., Director of Public Health and Preventive Medicine, Chennai - 600 006	Member	01.06.2006 Forenoon	31.5.2008
11	Dr.S. ELANGO., M.B.B.S., Director of Public Health and Preventive Medicine, Chennai - 600 006	Member	01.06.2008 Forenoon	31.3.2009
12	Thiru. SWARAN SINGH I.A.S., Managing Director, TWAD Board, Chepauk, Chennai 600 005.	Member	18.05.2006 Forenoon	31.03.2009
13	Thiru.GOVINDARAJU, B.E., Member (Generation) Tamilnadu Electricity Board, Electricity Avenue, (NPKRR Maligai), 800, Anna Salai, Chennai-600 002.	Member	01.8.2007	30.06.2008
14	Thiru.K.BALASUBRAMANIAM,B.E., Member (Generation) Tamilnadu Electricity Board, Electricity Avenue, (NPKRR Maligai), 800, Anna Salai, Chennai-600 002.	Member	01.7.2008	31.03.2009
15	Thiru.R. SHAICK JALALUDDIN, Joint Director of Fisheries (Retired) No.4/118-2nd North Cross Street, Kabaleeswarar Nagar, Neelangarai, Chennai 600 041	Member	14.11.2007 Forenoon	31.03.2009
16	Thiru.GUMMUDIPOONDI K.VENU, (Ex. MLA) 174, GNT Road, Kavarapettai & Post, Gumudipoondi Taluk, Thiruvallur District - 601 206	Member	14.11.2007	31.03.2009

ANNEXURE - I

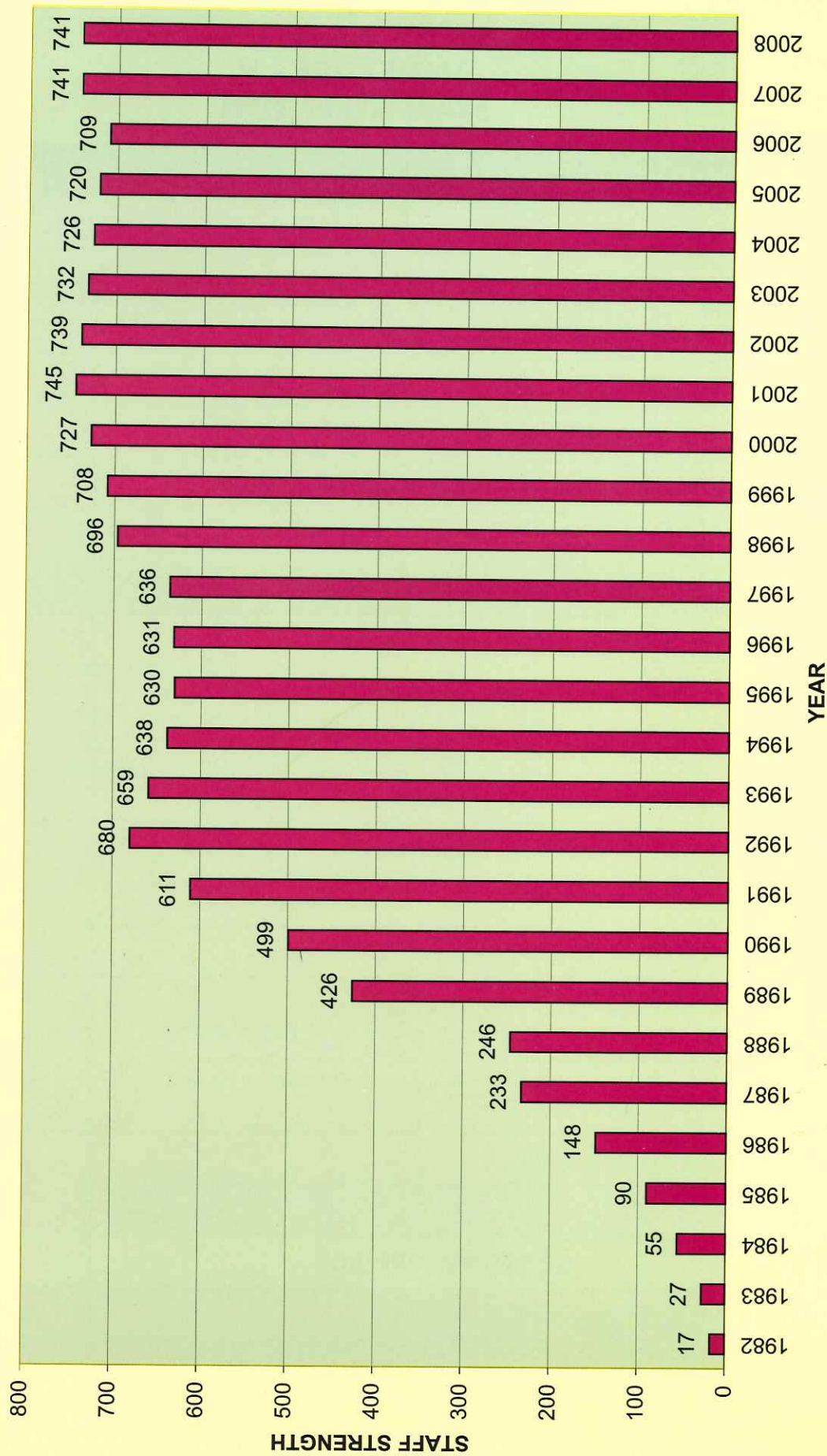
List of Board Members from 1.4.2008 to 31.03.2009

S.No.	Name & Address	Position	From	To
17	Dr. ZACKRIAH SAIT, M.B.B.S., The Regional Chairman(South Region) Leather Export Promotion Council, M/s.Presidency Kid Leather Ltd., 2165, L.Block, 1st Street, 12th Main Road, Anna Nagar, Chennai - 600 040	Member	2.6.2001 Forenoon	31.03.2009
18	Thiru. S. BALASUBRAMANIAN, General Manager i/c.,(A&LA), SIPCOT, 194 Marshall Road, Chennai 600 008.	Spl. Invitee	01.10.2007	31.03.2009
19	Thiru M. RAJEEVRANJAN, I.A.S., Commissioner of Industries and Commerce, Chepauk, Chennai 600 005.	Spl. Invitee	17.07.2007 Forenoon	16.7.2008 A.N.
20	Thiru. G. SANTHANAM, I.A.S., Commissioner of Industries and Commerce, Chepauk, Chennai 600 005.	Spl. Invitee	17.07.2008	31.03.2009
21	Thiru BAGAWAN SINGH, I.F.S., Commissioner of Industries and Commerce, Chepauk, Chennai 600 005.	Spl. Invitee	1.11.2007	7.7.2008
22	Dr.ANNAMALAI.I.F.S., Director of Environment Department, Ground Floor, Panagal Building, Saidapet, Chennai- 600 015.	Spl. Invitee	8.7.2008	31.3.2009
23	Thiru.R.RAMACHANDRAN, Member Secretary Tamilnadu Pollution Control Board, 76 Mount Salai,	Convener	3.1.2008	31.3.2009

ANNEXURE - II



**ANNEXURE - IV
STAFF STRENGTH FROM THE YEAR 1982 TO 2008**



ANNEXURE - V STAFF STRENGTH

NAME OF THE POST	STRENGTH
Chairman	1
Member Secretary	1
Engineering Service	141
Scientific Service	86
Scientific Supporting Staff	97
Personnel/Administration/Accounts/Miscellaneous	415
Total	741
ENGINEERING SERVICE	
Additional Chief Environmental Engineer	-
Joint Chief Environmental Engineer	6
District Environmental Engineer	24
Executive Engineer (Construction)	-
Assistant Environmental Engineer	39
Assistant Engineer	64
Assistant Engineer (Automobile)	1
Assistant Engineer (Construction)	1
Technical Assistant	2
Electrical Supervisor	1
Assistant Draughtsman	3
Sub-Total	141
SCIENTIFIC SERVICE	
Deputy Director (Labs)	1
Asst. Director (Lab)	2
Additional Manager (Labs)	6

NAME OF THE POST	STRENGTH
Deputy Manager (Lab)	17
Environmental Scientist	47
Senior Meteorologist	1
Meteorologist	2
Junior Environmental Scientist	10
Sub-Total	86
SCIENTIFIC SUPPORTING STAFF	
Field Assistant	66
Lab. Attendant	31
Sub-Total	97

NAME OF THE POST	STRENGTH
PERSONNEL / ADMINISTRATION ACCOUNTS / MISCELLANEOUS	
Financial Advisor	1
Senior Law Officer	-
Deputy Director (I.A)	-
Manager	2
Additional Manager	6
Deputy Manager	14
Assistant Managers	27
Junior Programmer	2
General Assistants	100
Data Entry Operator	2
Assistants	55
Steno Typist	30
Typists	39
Librarian	2
Driver	56
Record Clerk	13
Telephone Operator	2
Office Assistant/Watchman	55
Despatch Rider	1
Cleaner	1
Sweeper	1
Electrician	6
Sub-Total	415

ANNEXURE - VI

STATUS OF AIR QUALITY OF IMPORTANT CITIES/ TOWNS OF TAMILNADU-UNDER NATIONAL AIR QUALITY MONITORING PROGRAMME(NAMP) ANNUAL AVERAGE CONCENTRATIONS OF AIR POLLUTANTS 2008-2009

Sl. No.	City & Location	Category	Annual Average Concentrations of Air Pollutants in Micro gram/m ³																
			SO ₂			NOx			TSPM			RSPM							
			Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg					
1	CHENNAI																		
a)	Kathivakkam	Industrial	16	11	13	21	16	19	305	147	196	103	54	78					
b)	Manali	Industrial	18	12	14	25	18	21	252	106	177	150	45	86					
c)	Thirvottiyur	Industrial	15	11	13	22	16	20	293	110	196	168	50	100					
2	COIMBATORE																		
a)	DCO	Mixed	7	4	5	38	19	30	183	56	107	91	28	59					
b)	Pooniyarajapuram	Residential	7	4	5	44	17	31	156	44	90	80	20	50					
c)	SIDCO	Industrial	8	5	6	49	25	37	332	141	221	193	85	116					
3	THOOTHUKUDI																		
a)	Raja Agencies	Industrial	35	15	27	33	8	19	454	147	281	223	97	166					
b)	AVM Buildings	Mixed	48	22	30	33	10	17	217	115	152	185	79	99					
c)	Fisheries college	Industrial	41	22	30	66	12	19	269	83	130	192	60	86					
4	MADURAI																		
a)	M/s.Susee Cars & Trucks (P) Ltd.,	Industrial	12	9	11	26	20	24	116	66	91	67	29	45					
b)	Awai Girls Higher Secondary School	Mixed	11	8	10	28	21	24	109	41	87	94	27	49					
c)	Highways project Buildings	Residential	11	9	10	26	21	24	111	64	84	67	29	41					
5	SALEM																		
a)	Sowdeswari college building	Mixed	9	8	9	26	23	25	159	83	118	104	53	79					
			Prescribed Standard																
i) Industrial			80			80			360			120							
ii) Residential, Rural & other areas(mixed)			60			60			140			60							

Note: SO₂: Sulphur di oxide NOx: Oxides of Nitrogen TSPM: Total Suspended particulate matter
RSPM : Respirable Suspended Particulate Matter (< 10 micron size)

ANNEXURE - VII

CHENNAI AMBIENT AIR QUALITY MONITORING PROGRAMME

STATUS OF AIR QUALITY DURING APRIL 2008 TO MARCH 2009

Station	ANNUAL AVERAGE CONCENTRATIONS OF AIR POLLUTANTS Micro gram/m ³			
	SO ₂	NOx	RSPM	TSPM
ANNA NAGAR	10	25	121	262
ADYAR	7	12	50	97
KILPAUK	11	28	98	231
THIYAGARAYANAGAR	11	29	129	278
VALLALAR NAGAR	12	28	140	359
Prescribed Standard	60	60	60	140

Note: SO₂ : Sulphur di oxide Nox: Oxides of Nitrogen TSPM : Total Suspended Particulate matter RSPM : Respirable Suspended Particulate Matter (<10 micron size)

ANNEXURE - VIII

**STATUS REPORT OF TRICHY AIR QUALITY UNDER TRICHY AMBIENT AIR QUALITY
MONITORING PROGRAMME (TAAQM) DURING 2008 - 2009**

Sl.No.	Station	Average Concentrations of Air Pollutants, Micro gram/m ³			
		SO ₂	NOx	RSPM	TSPM
1	Gandhi Market	20	25	95	251
2	Mainguard Gate	20	25	80	222
3	Bishop Heber College	10	14	36	78
4	Golden Rock	11	15	39	102
5	Central Bus Stand, Trichy	19	24	103	228
	Prescribed Standard	60	60	60	140

Note : SO₂ : Sulphur di oxide NOx : Oxides of nitrogen RSPM : Respirable dust particulate matter (<10 micron size)
TSPM : Total Suspended Particulate Matter, PM2.5 : Particulate Matter < than 2.5micron size.

ANNEXURE - IX

STATUS OF VEHICLE TESTED AT TNPCB VEM STATIONS DURING 2008-2009

Sl.No.	Station	No. of vehicles tested	Vehicles within the limit	Vehicles exceeded the limit during first test	Vehicles complied emission standard after rectification	Vehicles not complied emission standard	% of vehicle exceeded the limit during first test
1	Chennai city	42,206	40,835	4,760	3,389	1371	11.28

ANNEXURE - XA

RIVER WATER QUALITY - RIVER CAUVERY (UNDER GEMS PROGRAMME) 2008-2009

SI.No.	Parameters	Musiri Ferry Gate	Musiri Bore Well	Mettur	Pallipalayam	Tolerance limit*	
						B	C
1	pH	7.87	7.04	7.91	7.75	6.5-8.5	6.5-8.5
2	DO mg/l	7.3	6.1	6.31	5.76	5	4
3	BOD mg/l	1.2	0.39	1.52	1.31	3	3
4	Cl mg/l	150	285	35	69	-	1000
5	SO ₄ mg/l	65	30	30	42	-	400
6	NO ₃ mg/l	0.22	0.84	0.22	0.23	-	50
7	TH mg/l	260	510	160	160	-	600
8	FC MPN/100ml	130	160	244	542	200	2000
9	TC MPN/100ml	258	295	423	848	500	5000
10	DBU Class	B	B	C	C	----	----

Classification of water (Designated Best use)

B - Outdoor bathing

C - Drinking water source with conventional treatment followed by disinfection

DO - Dissolved Oxygen BOD - Biochemical Oxygen Demand Cl - Chlorides SO₄ - Sulphates NO₃ - Nitrates

TH - Total Hardness (as CaCO₃) FC - Faecal Coliform TC - Total Coliform

ANNEXURE - X B

RIVER WATER QUALITY RIVER CAUVERY (UNDER MINARS PROGRAMME) 2008-2009

Sl. No.	Station	DBU Class	pH Range	DO mg/l	BOD mg/l	Cl mg/l	SO ₄ mg/l	NO ₃ mg/l	TH mg/l	FC MPN/100ml	TC MPN/100ml
1	Badrakaliamman Koil	C	7.29	7.84	0.81	26	15	0.274	62	275	448
2	Trichy U/S	B	7.94	7.63	0.8	135	55	0.17	160	170	285
3	Grand Anaicut	C	7.8	6.24	2.78	215	67	0.47	330	205	366
4	Sirumugai	C	7.19	7.6	0.92	16	10	0.28	40	217	378
5	Bhavani	C	7.47	6.2	0.9	41	40	0.2	144	323	551
6	Karunthattian Kudi	B	7.8	7.43	1.1	202	3	0.25	270	168	313
7	Madathukulam	B	7.69	7.8	1.39	32	20	0.32	116	165	324
8	Erode	C	7.44	5.3	1.44	84	43	0.21	150	607	967
9	Bhavani Sagar	C	7.3	6.7	0.86	18	8	0.22	48	248	481
10	R.N. Pudur	C	7.55	6.2	1.04	39	38	0.24	160	344	594
11	P.Velur	C	7.87	7.37	0.93	190	58	0.23	220	348	593
12	Mohannur	C	7.86	7.5	0.71	155	48	0.28	210	274	465
13	Trichy D/S	C	7.89	7.83	1.3	175	59	0.15	240	320	500
14	Coleroon	C	7.91	7.62	1.16	135	48	0.25	220	471	753
15	Pitchavaram	C	7.56	5.01	1.72	121	43	0.22	230	673	1108
16	Thirumukkudal	B	8.11	7.8	0.89	205	69	0.21	240	135	248
	Tolerance Limit	B	6.5-8.5	5	3	—	—	—	—	200	500
		C	6.5-8.5	4	3	1000	400	50	600	2000	5000

B - Outdoor bathing

C - Drinking water source with conventional treatment followed by disinfection

DO - Dissolved Oxygen BOD - Biochemical Oxygen Demand Cl - Chlorides SO₄ - Sulphates
 NO₃- Nitrates, TH - Total Hardness (as CaCO₃) FC - Faecal Coliform TC - Total Coliform
 * Sample Not collected

ANNEXURE - XI

RIVER WATER QUALITY - TAMIRAPARANI (UNDER MINARS PROGRAMME)-2008-2009

SI.N o.	Station	DBU Class	pH	DO mg/l	BOD mg/l	Cl mg/l	mg/l SO ₄	mg/l NO ₃	TH mg/l	FC MPN/ 100ml	TC MPN/ 100ml
1	Cheranmadevi	B	6.74	6.98	1.76	41	15	0.12	85	133	273
2	Kokirakulam	C	6.69	6.79	2.17	48	24	0.18	90	258	373
3	Papanasam	B	6.85	7.23	1.11	19	28	0.14	26	93	215
4	Murappanadu	B	6.91	6.9	1.76	70	20	0.11	150	130	230
5	Ambasamudram	B	6.78	7.37	1.1	26	6	0.12	60	92	158
6	Thiruvaidaimarudhur	B	7.01	7.3	1	26	8	0.15	40	85	152
7	Author	C	6.98	7.41	2	77	27	0.13	220	272	466
	Tolerance limit	B	6.5-8.5	5	3	-	-	-	-	200	500
		C	6.5-8.5	4	3	1000	400	50	600	2000	5000

Designated best use underclass 'B' & 'C'

B - Outdoor bathing

C - Drinking water source with conventional treatment followed by disinfection

DO - Dissolved Oxygen BOD - Biochemical Oxygen Demand Cl - Chlorides SO₄ - Sulphates NO₃ - Nitrates
TH - Total Hardness (as CaCO₃) FC - Faecal Coliform TC - Total Coliform

ANNEXURE - XII

RIVER WATER QUALITY - PALAR & VAIGAI RIVER BASIN (UNDER MINARS PROGRAMME) 2008-2009

RIVER	DBU Class	pH	DO mg/l	BOD mg/l	Cl mg/l	mg/l SO ₄	mg/l NO ₃	TH mg/l	FC MPN/ (100ml)	TC MPN/ (100ml)
Palar	C	7.53	6.9	2	53	60	0.3	280	426	743
Vaigai	A	7.59	6.6	2.03	100	10	0.05	154	2	7
Tolerance limit	A	6.5-8.5	5	3	250	200		300	200	500
	C	6.5-8.5	4	3	1000	400	50	600	2000	5000

Classification of water (Designated Best use)

- A - Drinking water source without conventional treatment but after disinfection
- C - Drinking water source with conventional treatment followed by disinfection

DO - Dissolved Oxygen BOD - Biochemical Oxygen Demand Cl - Chlorides SO₄ - Sulphates NO₃ - Nitrates
 TH - Total Hardness (as CaCO₃) FC - Faecal Coliform TC - Total Coliform

ANNEXURE - XIII - A

LAKE WATER QUALITY (UNDER MINARS PROGRAMME) 2008-2009

Sl.No.	Station	DBU Class	pH	DO mg/l	BOD mg/l	Cl mg/l	SO ₄ mg/l	NO ₃ mg/l	TH mg/l	FC MPN/ 100ml	TC MPN/ 100ml
1	Udhagamandalam	D	6.98	4.63	8	30	18	0.99	89	39778	57443
2	Kodaikanal	C	6.81	6.6	4.7	37	16	0.09	10	7	21
3	Yercaud	C	7	6	1	41	2.3	1	63	2259	3039
	Tolerance Limit	C	6.5-8.5	4	3	1000	400	50	600	2000	5000
		D	6.5-8.5	4	—	—	—	—	300	<2000	<5000

Designated best use underclass 'B' & 'C'

B - Outdoor bathing

C - Drinking water source with conventional treatment followed by disinfection

D - Propagation of wildlife and fisheries

DO - Dissolved Oxygen BOD - Biochemical Oxygen Demand Cl - Chlorides SO₄ - Sulphates NO₃ - Nitrates
 TH - Total Hardness (as CaCO₃) FC - Faecal Coliform TC - Total Coliform

ANNEXURE - XIII - B

MONITORING OF CHENNAI CITY WATERWAYS - 2008-2009

Sl.No.	Source	TSS mg/l	BOD mg/l	COD mg/l
1	Adyar	43	28	126
2	Buckingham Canal	150	76	232
3	Cooum	58	35	131
4	Otterinullah	138	60	191

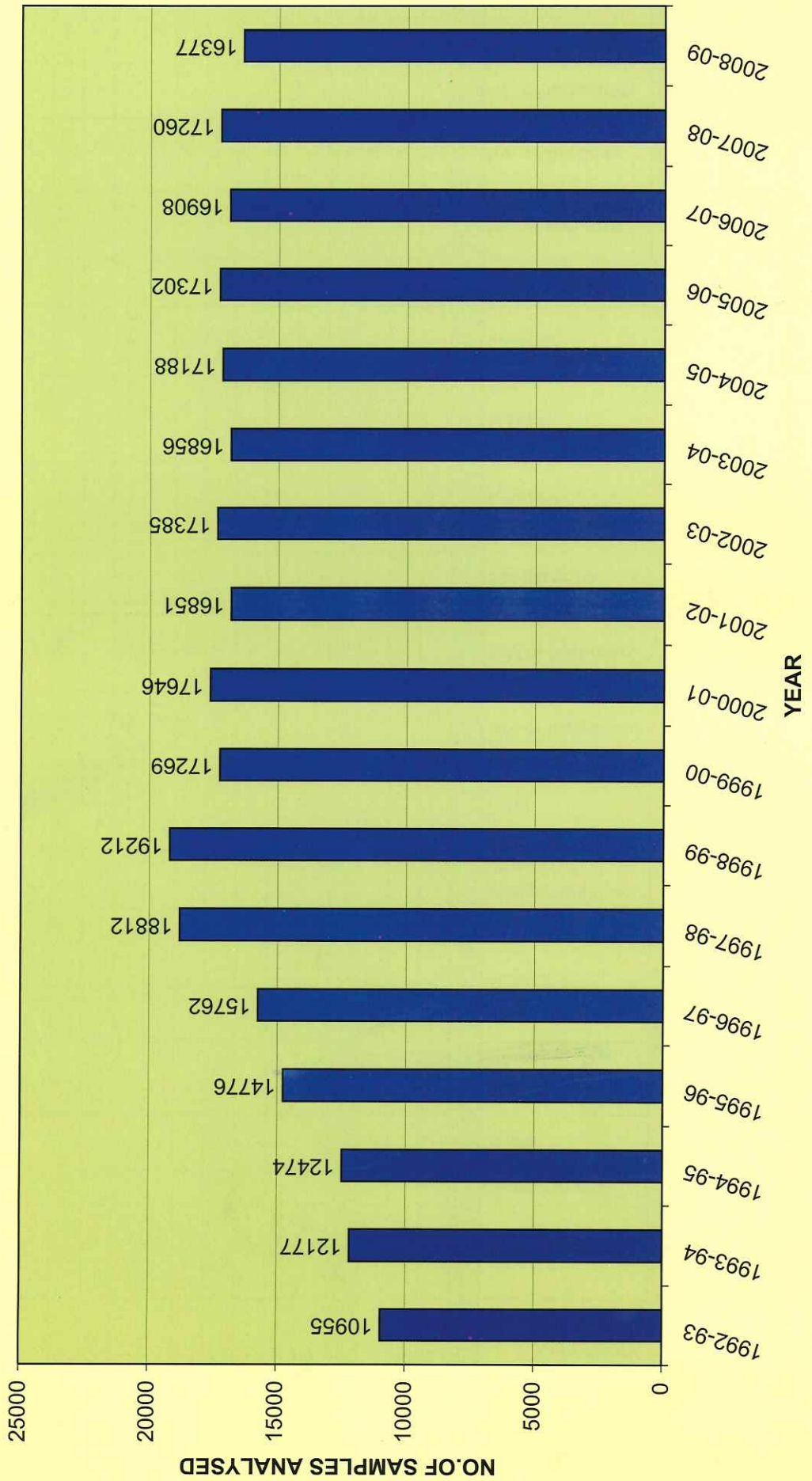
ANNEXURE XIV

PERFORMANCE OF LABORATORIES (Period : April 2008 March 2009)

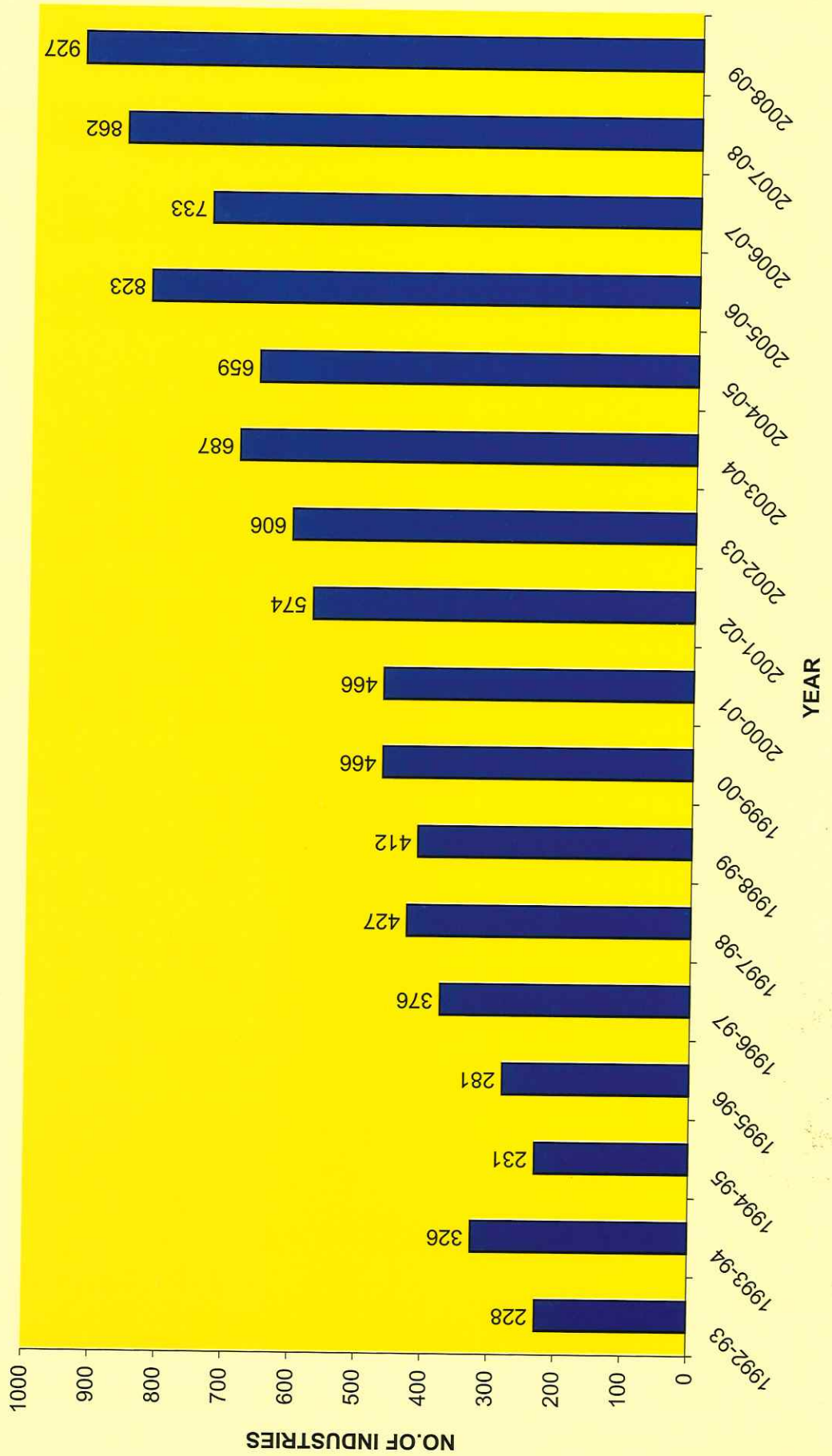
S.N o.	Name of the Laboratory	Water Samples				Air Survey				Air Project				Noise			
		Effluent		Projects		Total	No. of Industries	AAQS Stations	SM Stations	CAAQM	NAMP	TAAQM	Spl. Project	Industry		Complaints	
		Regular	Complaints	GEMS	MINARS									Microbiology	CCWW	Sludge/Soil/Fuel / Others	No. of Industries
Advanced Environmental Laboratory																	
1	Chennai	1,571	8	55	55	611	222	2,467	80	347	184	1,426		62	384	41	85
2	Madurai	1,054		11	11		11	1,076	76	448	170		1,908	75	668	7	94
3	Salem	1,832		186	217			2,049	75	448	183		863	74	803	15	116
District Environmental Laboratory																	
4	Ambattur	1,365						1,365	87	477	307		1956	83	417	9	32
5	Coimbatore	1,056						1,056	71	387	164		1,965	38	434	5	33
6	Cuddalore	874						874	54	334	114			54	278	1	6
7	Dindigul	734						734	52	310	102			52	344		
8	Hosur	762						762	89	481	304			89	755		
9	Manali	973				389		1,362	43	253	147			42	258		31
10	Trichy	1,236						1,236	107	577	170		1,737	104	637	17	
11	Tirunelveli	859		55			22	936									42
12	Tiruppur	1,212						1,212	61	317	155			53	335	8	50
13	Vellore	1,248						1,248	71	394	381			67	431	9	
14	Thoothukudi								61	374	105		1,385	31	157	2	10
	Total	14,776	8	31	307	1,000	255	16,377	927	5,147	2,486	1,426	8,077	824	5,001	112	499

GEM = Global Environmental Monitoring System, MINARS = Monitoring of Indian Aquatic Resources, CCWW = Chennai City Water Ways Project
 AAQs = Ambient Air Quality Monitoring, SM = Stack Monitoring Survey, TAAQM = Trichy Ambient Air Quality Monitoring Project, CAAQM = Chennai
 Ambient Air Quality Monitoring Project and NAMP = National Ambient Air Quality Monitoring Project.

ANNEXURE - XV
PERFORMANCE OF LABORATORIES
NO.OF SEWAGE/TRADE EFFLUENT/WATER SAMPLES ANALYSED
FROM 1992 - 92 TO 2008-09



ANNEXURE - XVI
AIR/STACK SURVEYS CONDUCTED
FROM 1992-93 TO 2008-09





ACCOUNTS

**AUDITOR'S REPORT TO THE MEMBERS OF THE TAMILNADU
POLLUTION CONTROL BOARD FOR THE YEAR ENDED 31st MARCH 2009**

We have audited the attached Balance Sheet of Tamil Nadu Pollution Control Board as at March 31, 2009 and also the Receipts and payments account, Income and Expenditure Account for the year ended on that date annexed thereto.

These financial statements are the responsibility of the entity's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with the auditing standards generally accepted in India. Those Standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by the management as well as evaluating the overall financial statements presentation. We believe that our audit provides a reasonable basis for our opinion.

We report that

1. We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purposes of our audit.
2. In our opinion proper books of account as required by law have been kept by the Board so far as it appears from our examination of those books.
3. The attached Balance Sheet, Receipts and Payments account, Income and Expenditure account which are set out as provided in Rule 36 of the Tamilnadu Water (prevention and control of pollution) Rules 1983 and dealt with by this report are in agreement with the books of accounts.
4. In our opinion and to the best of information and according to the explanations given to us, the said accounts read with the schedules thereto and the notes thereon attached here to subject to the following
 - a. Refer point no V(d) of the notes to accounts with respect to Land advance of Rs.48.48 lakhs which is outstanding for a long time, recoverability of which is presently not ascertainable.
 - b. Refer point no V(e) of the notes to accounts with respect to Advance to suppliers for purchase of fixed assets and other expenditure for an amount of Rs 134.25 lakhs is outstanding for a longtime and requires adjustment in the books of accounts.

- c. Refer point no V (f) of the notes to accounts with respect to non recoverability of cess amounting to Rs.329.61 crores due from industries and local bodies in turn to be remitted to the Ministry of Environment Forest, Government of India.

Give the information required by the Tamil Nadu Water (prevention and control of pollution) Rules 1983, in the manner so required and give a true and fair view in conformity with the accounting principles generally accepted in India:

- (a) In the case of Balance Sheet, of the State of affairs of the Board as at March 31, 2009 and
- (b) In the case of the Receipts and Payments account of the total receipts and payments of the Board for the year ended 31st March 2009
- (c) In the case of the Income and Expenditure account of the excess of Income over Expenditure for the year ended 31st March 2009

Place : Chennai

Date : 29-12-2009

For **K RAMKUMAR & CO**
Chartered Accountants

(R RAGHAVENDRAN)
Partner
Mem.No.26480

KAMALALAYA

E-7 III Floor, Gemini Parsn Apartments, Cathedral Garden Road, Chennai-600 006.

Phone : 28284869, 28257991 Fax : 28221519

E-mail: Contact@ramcoaudit.com Website: www.ramcoaudit.com

TAMIL NADU POLLUTION

Receipts and Payments for See Rules 36 of Tamil Nadu Water

PREVIOUS YEAR	RECEIPTS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
		Rs.	Ps.	Rs.	Ps.
	A. OPENING BALANCE				
46309686.99	a. Bank	52908651.90			
14110.00	b. Cash	23040.00			
2523183.00	c. Funds in Transit	4435835.00		57367526.90	
	B. GRANTS RECEIVED				
	a. From Government		-		
	b. From other Agencies		-		
12045941	c. Schemes				-
	C. FEES				
	a. Consultant Registration Fees		-		
1163575.00	b. Cost of Application	1131944.00			
146236755.00	c. Consent Fees	215013239.00			
83165009.43	d. Cess Collection	78398720.50			
200300.00	e. Fees for handling H. Waste	23910.00		294567813.50	
	D. Services & Rental Charges				
35960588.00	(Lab Analysis Charges Sch - A)			39365092.00	
	E. INTEREST ON INVESTMENT				
36237790.00				39846704.00	
	F. MISCELLANEOUS				
9994914.00	a. Others (Schedule-B)	6505215.50			
29775233.00	b. Cess Re-imburement	67395298.00		73900513.50	
403627085.42	C/o			505047649.90	

CONTROL BOARD, CHENNAI - 600 032

the year ended 31 March 2009.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		RECEIPTS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
		A. CAPITAL EXPENDITURE				
9183578.00		a. Assets - Land and Building	13926428.00			
1115794.00		b. Laboratory Equipment	1622319.00			
-		c. Vehicles	-			
319233.00		d. Furniture	700623.00			
538691.00		e. Office Appliance	507727.00			
38187.00		f. Library Books	92189.00			
99000.00		g. Electrical Installation	2000112.00			
859170.00		h. Computer	5334333.00		24183731.00	
		B. REVENUE EXPENDITURE				
		A. ADMINISTRATIVE				
130314807.90		a. Salaries	176182163.10			
16437251.00		b. Pension & Gratuity Contribution	26470136.00			
4377680.00		c. Surrender Leave Salary	6058746.00			
1290625.00		d. Bonus	1384840.00			
1374947.00		e. Medical Expenses	2003315.00		212099200.10	
		B. BOARD LABORATORY				
397834.00		a. Running Expenses of Lab.	2493931.00			
1071210.00		b. Lab. Chemicals etc.,	503811.00		2997742.00	
		C. RUNNING & MAINTENANCE OF VEHICLE				
5765707.00					6858482.00	
4000000.00		D. SCHEME				
					235462.00	
177183714.90		C/o			246374617.10	

CONTROL BOARD, CHENNAI - 600 032

the year ended 31 March 2009.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		PAYMENTS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
177183714.90		B/F				246374617.10
		E. MAINTENANCE & REPAIRS				
2409690.00		a. Buildings	190035.00			
120987.00		b. Furniture & Fixture	107022.00			
		c. Scientific instruments	240932.00			
472357.00		d. Office Appliance	1480101.00			
989974.00		e. Electrical Installation	7048.00			
54284.00		f. Insurance of Assets	0.00			
744563.00		g. Other Assets	199952.00			2225090.00
		F. FEES TO CONSULTANTS & SPECIALISTS				62352.00
63469.00						
373316.00		G. LAW CHARGES				190,170.00
25197.00		H. AUDIT FEES				-
87134690.62		I. MISCELLANEOUS (Schedule-E)				75003970.04
81001346.00		C. CESS REMITTANCE				78804849.00
8978724.00		D. ADVANCE (Schedule - F)				9593360.00
		E. Deposits				
630352516.00		a. Short Term Deposits	708237158.00			
12558823.00		b. Others (Schedule - G)	11592187.00			719829345.00
		F. CLOSING BALANCE				
52908651.90		a. Bank	97987437.81			
23040.00		b. Cash	16460.00			
4435835.00		c. Funds in Transit	2295512.00			100299409.81
1059831178.42		Total				1232383162.95

Subject to our report of even date & Schedules + Notes attached for M/s. K. Ramkumar & Co, Chartered Accountants

Sd/-
R.Balakrishnan IAS
Chairman

Sd/-
R.Raghavendran [M.No.26480]
Partner

ANNUAL STATEMENT

Income and Expenditure Account

See Rules 36 of Tamil Nadu Water

PREVIOUS YEAR	EXPENDITURE	TOTAL OF SUB HEAD	TOTAL OF MAJOR HEADS
Rs. Ps.		Rs. Ps.	Rs. Ps.
	A. Administrative		
2115379.00	a. Pay of officers	1609080.00	
83757393.50	b. Pay of Establishment	91733567.00	
51475372.50	c. Allowance & Honororia (Schedule-H)	94660877.00	
	d. Contribution to Gratuity & Provision for Pension	99559398.00	
93423975.00	e. Surrender Leave Salary	13955406.00	301518328.00
10273679.00			
1556058.91	B. Running Expenses of Labs.		1406451.54
	C. Running and Maintenance of Vehicle (Schedule-I)		6182631.00
5951689.00			
	D. Maintenance and Repairs		
124070.00	a. Furniture & Fixtures	147668.00	
2509584.00	b. Lab. Equipments & Instruments	2540134.00	
561648.00	c. Office Appliance & Others	1014171.00	
1061512.00	d. Electrical Installation	1034974.00	
2878638.00	e. Building	1652496.00	6389443.00
	E. Fees to Consultants and Specialists		80775.00
69506.00			
406546.00	F. Law Charges		210734.00
28090.00	G. Fees for Audit		28090.00
84249537.05	H. Miscellaneous (Schedule-J)		64361684.44
11641545.00	I. Depreciation (Form XV)		11457658.00
186670.00	J. Prior Period Adj.Account		848511.00
82588639.04	K. Excess of income over Exp.trf to B/S		177992295.58
434859532.00	Total		570476601.56

Sd/-
K.Chitra, B.Com,MBA,FCA.,
Manager (F&A)

Sd/-
M. Shanthi, BA.,
Financial Adviser

Sd/-
R.Ramachandran ME(PH)
Member Secretary

Chennai - 600 032
Date: 29/12/2009

OF ACCOUNT

for the year ended 31st March 2009.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		INCOME	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
		A. Grants received				
	-	a. From Government		-		
	-	b. From other Agencies		-		
	-	Less: Amount utilised for Capital Expenditure		-		
	-	Net Grant available for Revenue Expenditure		-		-
250575161.00		B. Fees (Schedule-K)				322922139.00
35333727.00		C. Services & Rental Charges (Schedule-L)				39991012.00
6618161.00		D. Miscellaneous Receipts		4589395.50		
29775233.00		a. Others (Schedule-M)		67395298.00		71984693.50
		b. Cess Reimbursement				
112557250.00		E. Interest on Investment				135578757.06
	-	F. Prior Period Adj.Account				-
434859532.00		Total				570476601.56

Subject to our report of even date & Schedules + Notes attached for M/s. K. Ramkumar & Co, Chartered Accountants

Sd/-
R.Balakrishnan IAS
Chairman

Sd/-
R.Raghavendran [M.No.26480]
Partner

ANNUAL STATEMENT

Balance Sheet

See Rules 36 of Tamil Nadu Water

PREVIOUS YEAR		LIABILITIES	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
		A. CAPITAL FUND				
		a. Grants				
54526922.18		i. Grants received from Govt. for capital exp. upto 01.04.2008	54526922.18			
	-	ii. Grants received from Govt. for capital exp. During the current year and utilised upto 31.3.2009		-		
	-	iii. Grants received towards specific schemes from other agencies		-		
		iv. Less: Amount transferred to Depreciation Fund		-		54526922.18
		b. Excess of Income over Expenditure				
1204729872.88		i. As at 01.04.08	1275676966.92			
82588639.04		ii. Add: Surplus during the year	177992295.58			
			1453669262.50			
(11641545.00)		iii. Less: Amount transferred to Depreciation Fund		11457658.00		1442211604.50
		B. Earmarked Fund (Schedule-T)				
472500000.00		a. Pension Fund	575091757.00			
253050898.92		b. Depreciation Fund	279691610.86			
3363250.00		c. CETP Development Fund	3363250.00			
51500000.00		d. Earn leave encashment Fund	62028365.00			920174982.86
		C. Other Deposits				
20182976.11		a. Deposits for supply & works (Schedule -N)	28364135.56			
32972126.05		b. Refundable P.G. Deposits	32587126.05			
8229000.00		c. Eco Devlpt. Measure Deposit	229000.00			61180261.61
		D. Amount Due				
2913782997.12		a. Cess Payable	3374401013.55			
(13272684.57)		Less: Cess unrecoverable	1261347.00			3373139666.55
11974912.24		b. Others (Schedule -O)				15623671.14
5084487364.97		C/o				5866857108.84

OF ACCOUNT

as on 31st March 2009.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		ASSETS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
8641088.65		A. FIXED ASSETS				
32996724.00		a. Land Development	8641088.65			
		b. Buildings Under Construction	46783415.00		55424503.65	
61726481.08		B. OTHER ASSETS				
		a. As per Form XV			62183052.08	
		b. Stock in hand				
1096403.47		i. Lab Chemicals	1297170.28			
782575.56		ii. Glassware	794101.62			
214819.07		iii. Misc. Stores	212462.14			
1525174.14		iv. Filter Paper	1512169.66		3815903.70	
2449309568.04		C. SUNDRY DEBTORS				
457117507.80		a. Cess Receivable				
		i. From Industries	2835922144.97			
		ii. From Local Bodies	527547867.80			
(13272684.57)		Less: Cess unrecoverable	3363470012.77			
			1261347.00		3362208665.77	
20500.00		b. Amount Receivable - PWD			20000.00	
3976367.00		c. Project Study - Receivable			6328132.00	
266446463.15		D. ADVANCES & DEPOSITS				
		a. Misc. amounts recoverable (Schedule - Q)	186077332.15			
9701619.00		b. Others amounts recoverable (Schedule - R)	12182301.00			
2167055.00		c. Deposits (Schedule - S)	2172780.00		200432413.15	
3282449661.39		C/o			3690412670.35	

ANNUAL STATEMENT

Balance Sheet

See Rules 36 of Tamil Nadu Water

PREVIOUS YEAR	LIABILITIES	TOTAL OF SUB HEAD	TOTAL OF MAJOR HEADS
Rs. Ps.		Rs. Ps.	Rs. Ps.
5084487364.97	B/f		5866857108.84
264956.98	E. Environmental Impact Study		264956.98
120472771.00	F. Income received in advance (Schedule - P)		105082931.00
21498500.00	G. Subsidies for common Effluent treatment plants		21498500.00
1189893.34	H. Environmental Education Fund Reserve		1189893.34
500000.00	I. Emergency response centre		500000.00
692000.00	J. C P C B Green Belt		692000.00
1730077.00	K. Schemes		1730077.00
2100000.00	L. Sponsorship for Schemes		1837500.00
5232935563.29	Total		5999652967.16

Sd/-
K.Chitra, B.Com,MBA,FCA.,
Manager (F&A)

Sd/-
M. Shanthy, BA.,
Financial Adviser

Sd/-
R.Ramachandran ME(PH)
Member Secretary

OF ACCOUNT

as on 31st March 2009.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR	ASSETS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
		Rs.	Ps.	Rs.	Ps.
3282449661.39	B/f			3690412670.35	
	E. INVESTMENTS				
472500000.00	1. Pension Fund Investment	575091757.00			
253050898.92	2. Depreciation Fund Investment	279691610.86			
	3. Refundable Performance -				
32972126.05	Guarantee Deposit Investment	32587126.05			
51500000.00	4. EL Encashment Fund Inv.	62028365.00			
3363250.00	5. CETP Develop. Fund Investment	3363250.00			
1079732100.03	6. Other term deposits	1256178778.09		2208940887.00	
	F. CASH & BANK BALANCE				
52908651.90	a. Balance with Banks	97987437.81			
23040.00	b. Cash in Hand	16460.00			
4435835.00	c. Funds under Transit	2295512.00		100299409.81	
5232935563.29	Total			5999652967.16	

Subject to our report of even date & Schedules + Notes attached
for M/s. K. Ramkumar & Co, Chartered Accountants

Sd/-
R.Balakrishnan IAS
Chairman

Sd/-
R.Raghavendran [M.No.26480]
Partner

FORM - XV

ANNUAL STATEMENT OF ACCOUNTS - FIXED ASSETS AS ON 31st MARCH 2009.

See Rules 36 of Tamil Nadu Water (Prevention and control of Pollution) rules 1983.

Sl. No.	Particulars of Assets	Rate of Depreciation	Opening Balance on 01/04/2008	Additions and Adjustment during the year	Total	Depreciation	Closing Balance on 31/03/2009	Cumulative Depreciation on 31/03/2009
			Rs.	Rs.	Rs.	Rs.	Rs.	Rs. P.
1	Building	10.00%	32208455.20	143335.00	32351790.20	3231645.00	29120145.20	79537814.40
2	Computer	60.00%	533261.13	5305993.00	5839254.13	1001203.00	4838051.13	7563299.87
3	Electrical Installations	15.00%	719174.68	2575200.00	3294374.68	198895.00	3095479.68	1916505.43
4	Furniture & Fixture	10.00%	5196078.31	909693.00	6105771.31	574874.00	5530897.31	11755622.92
5	Lab Equipment	33.33%	7675870.65	1646794.00	9322664.65	2871214.00	6451450.65	65871337.99
6	Library Books	10.00%	1997232.93	36873.00	2034105.93	201157.00	1832948.93	3298823.10
7	Office Appliance	10.00%	5350973.08	667416.00	6018389.08	566433.00	5451956.08	8111359.06
8	Vehicle	33.33%	8045435.10	628925.00	8674360.10	2812237.00	5862123.10	20463604.68
	Total		61726481.08	11914229.00	73640710.08	11457658.00	62183052.08	198518367.45

for M/s. K. Ramkumar & Co
Chartered Accountants

Sd/-
R.Raghavendran [M.No.26480]
Partner

Sd/-
R.Balakrishnan IAS
Chairman

Sd/-
R.Ramachandran ME(PH)
Member Secretary

Sd/-
M. Shanthi, BA.,
Financial Adviser

Sd/-
K.Chitra, B.Com,MBA,FCA.,
Manager (F&A)

Chennai - 600 032
Date: 29/12/2009

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2009.**

RECEIPTS

SCHEDULE - A

Services & Rental Charges

SL.NO	DESCRIPTION	Rs.	Ps.
1	Air Ambient Quality Survey	21109020.00	
2	Analysis Charges	12712802.00	
3	Bio Medical Management	635400.00	
4	Cess Appeal Fees	1600.00	
5	GEMS / MINARS / NAMP	920385.00	
6	Noise Leavel Measurement	601385.00	
7	VEM Test Fees	3384500.00	
	TOTAL	39365092.00	

SCHEDULE - B

MISCELLANEOUS RECEIPTS

SL.NO	DESCRIPTION	Rs.	Ps.
1	Environment study receipt	136351.00	
2	Environment Training Institute	315000.00	
3	Interest on Loans & Advance	15074.00	
4	Miscellaneous Income	604247.50	
5	Others	17441.00	
6	Profit on sale of Assets	884600.00	
7	Public Hearing	3925000.00	
8	Right to Information Fees	19583.00	
9	Sale of legal Books	24475.00	
10	Zoning Atlas	563444.00	
	TOTAL	6505215.50	

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2009.**

SCHEDULE - C

ADVANCE TO STAFF (Receipts)

SL.NO	DESCRIPTION	Rs.	Ps.
1	Computer Advance	50490.00	
2	Festival Advance	4100.00	
3	Handloom Advance	28707.00	
4	Other Advance	1767.00	
5	Telephone (Excess call)	91908.60	
6	Temporary Advance	650035.00	
7	Tour Advance	81058.00	
8	Vehicle Advance	31460.00	
	TOTAL	939525.60	

SCHEDULE - D

ADVANCES AND DEPOSITS

SL.NO	DESCRIPTION	Rs.	Ps.
1	A.A.Q.S received in advance	103935.00	
2	Cess received in advance	10933056.00	
3	Consent Fees received in advance	85619649.00	
4	Flag Day collection	25,700.00	
5	Others - Court Deposit	8503405.45	
	TOTAL	105185745.45	

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2009.**

PAYMENT

**SCHEDULE - E
MISCELLANEOUS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	AAQS Expenses	40102.00	
2	Advertisement & Publicity	187628.00	
3	Appellate Authority Expenses	129128.00	
4	Bank interest and commission	131250.04	
5	Board Meeting Expenses	99381.00	
6	Contract Charges / Wages	8436002.00	
7	Conveyance	326306.00	
8	Eco Devplt. Measure	8000000.00	
9	Electricity / Water Charges	6327787.00	
10	Entertainment	197927.00	
11	Environmental Pavilion Expenses	282577.00	
12	Environmental Study Expenses	1754696.00	
13	ETI Expenses	16328.00	
14	Expenses of Audit	14213.00	
15	Family Benefit Fund	336432.00	
16	Hazourdos Monitoring Exp.	62570.00	
17	Interest on P G D	61750.00	
18	Land Maintenance Expenses	53757.00	
19	Leave Travel Concession	322568.00	
20	Miscellaneous Expenses	119783.00	
21	Newspaper & periodicals	195806.00	
22	Office Expenses	677688.00	
23	Outstanding Expenses	3638397.00	
24	Petty Cash Expenses	751247.00	
25	Pollution Awareness Expenses	22789245.00	
26	Postage / Telegram	1201164.00	
27	Printing and Stationery	3157745.00	
28	Prior Period Expenses	574302.00	
29	Property tax	903612.00	
30	Public Hearing	1972225.00	
31	Rent	4018340.00	
32	Staff Welfare Expenses	1341757.00	
33	State Environmental Impact Assessment Authority Exp.	851836.00	
34	Telephone and Telex	2395779.00	
35	Trade Fair	355658.00	
36	Training and Seminar	253330.00	
37	Travelling expenses	2340228.00	
38	Turn duty and Overtime Allow.	68582.00	
39	Vehicle Monitoring Station Exp	384212.00	
40	Zoning Atlas Exp.	232632.00	
	TOTAL	75003970.04	

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2009.**

PAYMENT

SCHEDULE - F

ADVANCE TO STAFF (PAYMENT)

SL.NO	DESCRIPTION	Rs.	Ps.
1	Festival Advance	895200.00	
2	Handloom Advance	210677.00	
3	Leave Travel Concession	186898.00	
4	Marriage Advance	36000.00	
5	Motor Vehicle Advance	887250.00	
6	Personal Computer Advance	3973995.00	
7	Temporary Advance	2777405.00	
8	Tour Advance	625935.00	
	TOTAL	9593360.00	

SCHEDULE - G

DEPOSITS AND ADVANCES (PAID) (OTHERS)

SL.NO	DESCRIPTION	Rs.	Ps.
1	Advance to Suppliers	7287488.00	
2	Earnest Money Deposit	787136.00	
3	Electricity Deposit	5725.00	
4	Enlistment Deposit	15000.00	
5	Other Advance	441214.00	
6	Project Study Exp Receiveable	2166863.00	
7	Refundable PG Deposit	385000.00	
8	Rent Advance	296400.00	
9	Retention Money Deposit	69101.00	
10	Security Deposit	138260.00	
	TOTAL	11592187.00	

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH - 2009.**

EXPENDITURE

SCHEDULE - H

ALLOWANCES AND HONORARIA

SL.NO	DESCRIPTION	Rs.	Ps.
1	Allowances	56212883.00	
2	Bonus	1383340.00	
3	Contributory Pension Scheme	85448.00	
4	Family Benefit Fund Contribution	189652.00	
5	Health Insurance	216209.00	
6	Leave Travel Concession Expenses	504016.00	
7	Medical Reimbursement	1624890.00	
8	Pay Commission Arrears - VI	30924860.00	
9	Special Provident Fund-Board's Contribution	80000.00	
10	Travelling Expenses	3358673.00	
11	Turn Duty and Overtime Allowances	80906.00	
	TOTAL	94660877.00	

SCHEDULE - I

RUNNING AND MAINTENANCE OF VEHICLES

SL.NO	DESCRIPTION	Rs.	Ps.
1	Fuel	4498315.00	
2	Hire Charges	244026.00	
3	Insurance	418940.00	
4	Repairs 1021350.00		
	TOTAL	6182631.00	

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2009.**

EXPENDITURE

**SCHEDULE - J
MISCELLANEOUS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Ambient Air Quality Survey Expenses	94817.00	
2	Advertisement & Publicity	161284.00	
3	Appellate Authority Expenses	1160274.00	
4	Bank Charges	139700.04	
5	Board Meeting / Other meeting Expenses	440048.00	
6	Contract Charges / Wages	9123909.00	
7	Conveyance Expenses	417364.00	
8	Electricity & Water Charges	7016250.00	
9	Entertainment Expenses	212475.00	
10	Environmental Pavilion Expenses	403774.00	
11	Environmental Study Expenses	1777889.00	
12	Environmental Training Institute Expenses	1312917.00	
13	Expenses of audit	15411.00	
14	Hazardous / Solid Waste / Bio Medical Exp.	62570.00	
15	Insurance of Assets	48660.00	
16	Interest on RPG Deposit	61750.00	
17	Land Maintenance Expenses	53257.00	
18	Newspaper and Periodicals	260378.00	
19	Office Expenses	1104567.00	
20	Pollution Awareness Expenses	23618455.00	
21	Postage Expenses	1251203.00	
22	Printing & Stationery	3489667.00	
23	Property Tax and Rates	930020.00	
24	Rent on Buildings	4246006.00	
25	Staff Welfare Expenses	1564126.00	
26	State Environmental Impact Assessment Authority Exp.	1878921.00	
27	Sundries	195247.00	
28	Telephone Expenses	2373772.40	
29	Trade Fair Expenses	271124.00	
30	Training and Seminar Expenses	284010.00	
31	Vehicle Monitoring Station Expenses	39480.00	
32	Zoning Atlas Scheme Expenses	352359.00	
	TOTAL	64361684.44	

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2009.**

INCOME

**SCHEDULE - K
FEES**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Consent Fees	321789035.00	
2	Consent Forms	1133104.00	
	TOTAL	322922139.00	

**SCHEDULE - L
SERVICE AND RENTAL CHARGES**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Air Ambient Quality Survey	21299979.00	
2	Analysis Charges	13799763.00	
3	NAAQM / NAMP / GEMS	920385.00	
4	Noise level survey fees	586385.00	
5	Vehicle Emission Monitoring Test Fees	3384500.00	
	TOTAL	39991012.00	

**SCHEDULE - M
MISCELLANEOUS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Bio-Medical Waste Authorisation Fees	642650.00	
2	Cess Appeal Fees	1600.00	
3	Environmental Training Inst. - Course fees	315000.00	
4	Fees for Right to Information	19583.00	
5	Hazardous Waste Authorisation Fees	31250.00	
6	Interest on Loans & Advance	145604.00	
7	Miscellaneous Income	642659.50	
8	Profit on sale of Assets	876886.00	
9	Public Hearing	1888838.00	
10	Sale of Books	25325.00	
	TOTAL	4589395.50	

**SCHEDULE FORMING PART OF BALANCE SHEET
AS ON 31st MARCH 2009.**

LIABILITIES

**SCHEDULE - N
OTHER DEPOSITS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Earnest Money Deposit	1695799.20	
2	Enlistment Deposits	219500.00	
3	Others	24427849.23	
4	Retention Money Deposits	676423.48	
5	Security Deposits	1344563.65	
	TOTAL	28364135.56	

**SCHEDULE - O
SUNDRY CREDITORS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Flag Day Collection	25700.00	
2	Others	1096096.00	
3	Outstanding Liability	11903123.44	
4	Pay Roll Liabilities	2183224.70	
5	Staff Claim Payable	352400.00	
6	Tax Deducted at Source (Officers)	63127.00	
	TOTAL	15623671.14	

SCHEDULE - P

INCOME RECEIVED IN ADVANCE

SL.NO	DESCRIPTION	Rs.	Ps.
1	Analysis Charges	13555.00	
2	Cess Fees	11637027.00	
3	Consent Fees	93432349.00	
	TOTAL	105082931.00	

**SCHEDULE FORMING PART OF BALANCE SHEET
AS ON 31st MARCH 2009.**

ASSETS

**SCHEDULE - Q
MISCELLANEOUS ADVANCES**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Advance to Suppliers	13424540.00	
2	Interest Receivable	165486699.00	
3	Land Advance	4848911.00	
4	Other Advance	1181464.00	
5	Rent Advance	1135718.15	
	TOTAL	186077332.15	

**SCHEDULE - R
ADVANCES TO STAFF**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Festival Advance	538825.00	
2	Handloom Advance	113855.00	
3	Imprest	5000.00	
4	Leave Travel Concession Advance	8314.00	
5	Marriage Advance	45100.00	
6	Motor Vehicle Advance	2325397.00	
7	Personal Computer Advance	8847083.00	
8	Temporary Advance	204467.00	
9	Tour Advance	94260.00	
	TOTAL	12182301.00	

**SCHEDULE - S
DEPOSITS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Customs Deposit	151973.00	
2	Electricity Deposit	948664.00	
3	Gas Deposit (Miscellaneous deposit)	31746.00	
4	Telephone & Telex Deposit	1040397.00	
	TOTAL	2172780.00	

**SCHEDULE FORMING PART OF BALANCE SHEET
AS ON 31st MARCH 2009.**

SCHEDULE-T

**EARMARKED FUND
PENSION FUND ACCOUNT**

SL.NO	DESCRIPTION	AMOUNT
1	Opening balance as on 01-04-08	472500000.00
	Add: Interest @ 6%	28350000.00
		500850000.00
	Less: Disbursement from fund	
	a) Commuted Pension	1990307.00
	b) Pension disbursed by Corp. Office	5335152.00
	c) Pension disbursed by Units	1813558.00
		9139017.00
	Add: Contribution to the Fund	491710983.00
		83380774.00
	Closing balance as on 31-03-09	575091757.00

EARN LEAVE ENCASHMENT FUND

SL.NO	DESCRIPTION	AMOUNT	
2	Opening balance as on 01-04-08	51500000.00	
	Add: Interest @ 6%	3090000.00	
		54590000.00	
	Less: Disbursement from fund		
	a) Disbursement to retirees etc.,	1737389.00	
		1737389.00	
	Add: Contribution to the Fund	52852611.00	
		9175754.00	
		Closing balance as on 31-03-09	62028365.00

DEPRECIATION FUND ACCOUNT

SL.NO	DESCRIPTION	AMOUNT
3	Opening balance as on 01-04-08	253050898.92
	Add: Interest @ 6%	15183053.94
		268233952.86
	Add: Current year's Depreciation	11457658.00
		Closing balance as on 31-03-09

Notes Forming Part of the Accounts for the year ended 31st March 2009.

I. Significant Accounting Policies and Convention:

(i) The financial statements have been prepared on the assumption of going concern concept.

(ii) Revenue Recognition: Revenues are recognized in the following manner:

a. Consent Fees:

Consent Fees received relating to the period up to which financial statements are drawn is accounted on cash basis and the amount received beyond the date of Balance Sheet is accounted as "consent fees received in advance" and is carried as liability.

b. Other Fees, Services Charges, Cess reimbursement and other Income:

On Cash basis.

c. Interest on Investments:

On accrual basis.

d. Revenue on Earmarked Funds:

Revenue accrued on earmarked funds is recognized on accrual basis and transferred to the respective fund accounts.

(iii) **Investments:** Investments are stated at the carrying cost.

(iv) **Fixed Assets:** Fixed Assets are stated at written down value.

(v) **Expenses:** On accrual basis.

II. Depreciation:

Depreciation is calculated on written down value by applying the following rates:

Building - 10%

Computer - 60%

Electrical Installations 15%

Furniture and Fixtures-10%,

Lab Equipments 33.33%,

Library Books- 10%,

Office Appliances-10%,

Vehicles-33.33%.

III) Stock on Hand: Stock of Lab chemicals, Glassware, Misc. Stores & Filter papers are valued at cost. Cost is arrived under First in First out method.

IV) Retirement Benefits:

a) Gratuity: Gratuity is administered by a separate Trust managed by the Life Insurance Corporation of India. The contribution made against the fund is charged to revenue.

b) Pension & Earned Leave: Contribution to Pension is provided in the accounts as per Actuarial valuation. Fixed Deposits are earmarked and transferred to separate fund account to meet out the liability. The assumptions are as under:

Date of Valuation	31-03-2009
Employee Profile	
Age of Retirement	58 / 60 years
No. of Employees	739
Total monthly relevant salary for pension	1,21,36,460/-
No. of pensioners	483
Total monthly pension	4,38,377/-
No. of family pensioners	29
Total monthly family pension	1,77,358/-
Assumptions as per AS 15R	
Discount rates as per para 78	7.28%
Salary escalation fixed as per para 83-91 and 120(1)	4%
Attrition rate fixed	1%
Funding mechanism	Earmarked deposits
Present value of obligation	57,50,91,757/-

c) Earn Leave: Contribution to Earned Leave is provided in the accounts as per Actuarial valuation. Fixed Deposits are earmarked and transferred to separate fund account to meet out the liability.

Date of Valuation	31-03-2009
Employee Profile	
Age of Retirement	58 / 60 years
No. of Employees	739
Total monthly relevant salary for pension	1,21,36,460/-
Average Age	47
Average past service	17
No. of leave days (EL)	1,77,360
Decrement adjusted /estimated future service	7
Assumptions as per AS 15R	
Discount rates as per para 78	7.28%
Expected rate of return computed as per paras 107-109	0%
Salary escalation fixed as per para 83-91 and 120(1)	4.00%
Attrition rate fixed	1.00%
Proportion of leave availment	10.00%
Proportion of encashment during service	10.00%
Proportion of encashment on separation	80.00%
Funding mechanism	Earmarked deposits
Present value of obligation	6,20,28,365/-

V) Other Points:

a) Consent Fees / Cess

The Board is collecting Cess and consent fees. However necessary information/data is not available to determine whether all industries to which the provisions of the Act apply have paid Cess and consent fees. In the absence of such information, income from this head has been recognized on the basis of available records.

b) Internal Audit

The Board has an adequate Internal Audit System. However the same may be strengthened to cover all the activities of the units of the Board.

c) Fixed Assets:

The fixed assets have been physically verified by independent Officers of the Board. No major discrepancy was observed on comparison with the stock registers.

d) Land Advances:

This represents amount paid towards the land cost to SIPCOT amounting to Rs.48,48,911/- which is yet to be capitalized pending registration.

e) Advance to Suppliers:

Rs.1,34,24,540/- has been paid as Advance to suppliers for purchase of assets and other expenditure and is pending adjustment.

f) Cess receivable includes disputed amount from the following industries / Local Bodies.

i)	Ennore Thermal Power Station.	83,19,85,328.00
ii)	North Chennai Thermal Power Station	87,66,88,988.00
iii)	Tuticorin Thermal Power Station	1,05,98,51,085.00
iv)	Local bodies	52,75,47,868.00

g) Income Tax :

No Provision for Income Tax has been made as the Board is of the view that it is exempted from the provisions of the Income Tax Act of 1961. Action has been initiated by the Ministry of Environment & Forest New Delhi, with Ministry of Finance to seek exemption from application of provisions of Income Tax Act to Pollution Control Boards.

VI) Contingent Liability:

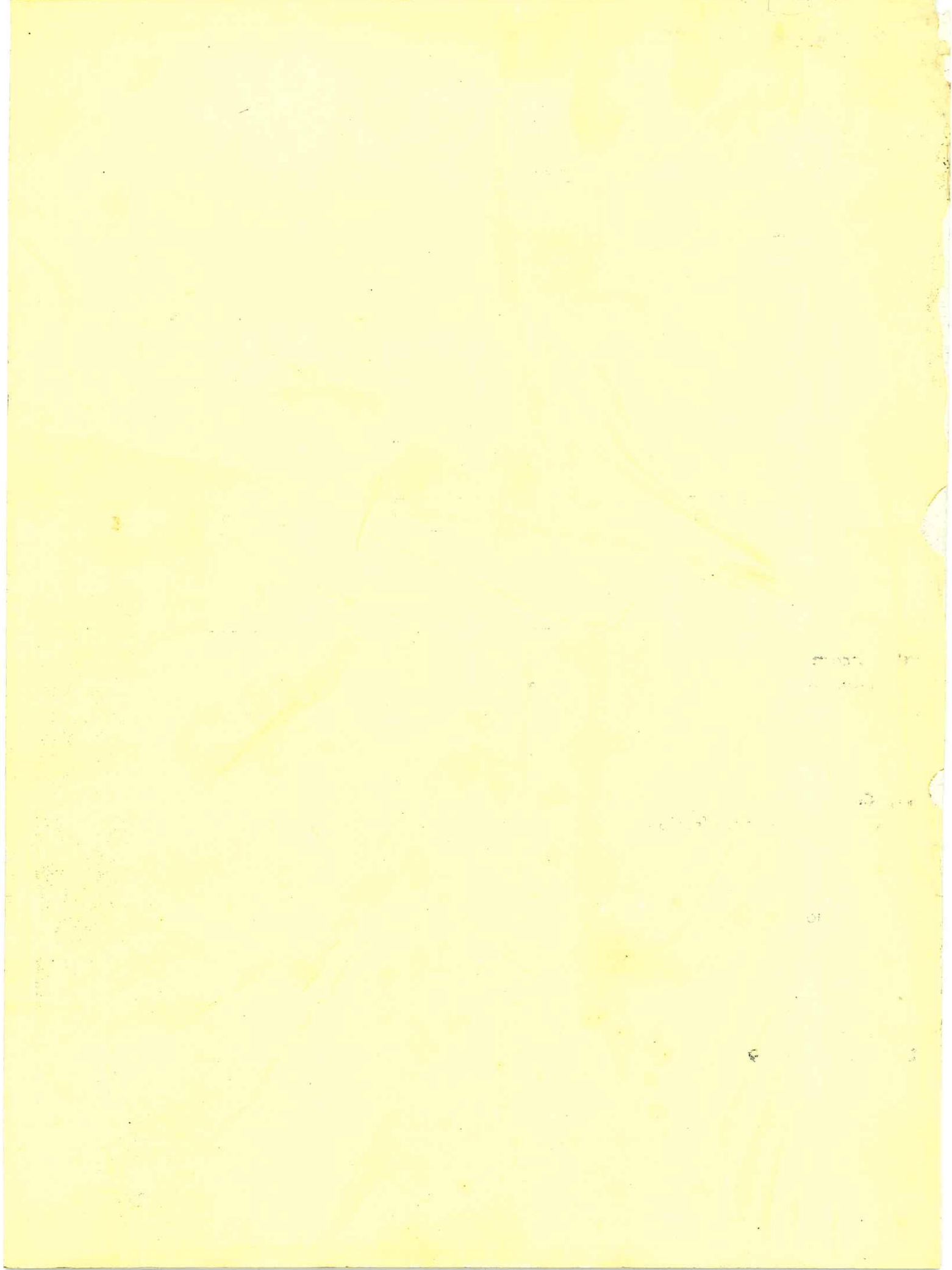
Claim towards professional charges of Rs.6,00,000/- which is disputed by the Board and hence not provided for.

VII) Previous year figures are regrouped and reclassified wherever considered necessary.

Place : Chennai
Date : 29.12.2009

for M/s. K. Ramkumar & Co,
Chartered Accountants

(R. Raghavendran)
Partner
Mem. No.26480





தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம்
TAMIL NADU POLLUTION CONTROL BOARD
76, Mount Salai, Guindy, Chennai - 600 032.
Tel : 044 2235 3134 to 2235 3141