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Tamil Nadu Pollution Control Board

ANNUAL REPORT

2007 - 2008

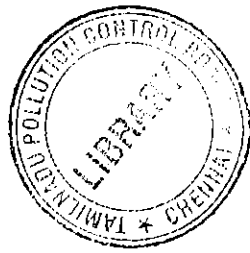


TAMILNADU POLLUTION CONTROL BOARD

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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 and Handling) Rules, 1989 as amended in 2000, 2003
- 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
- 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.

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- 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 25 district offices, 20 are headed by Joint Chief Environmental Engineers / 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 Joint Chief Environmental Engineer, 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, 10 District Environmental Laboratories and 1 Mobile Environmental Laboratory 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 and Handling) Rules, 1989 as amended in 2000, 2003.
- 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.
- 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 2007-2008, 17260 samples of sewage and trade effluents from the industries were collected and analysed. The Board has issued 1303 'Consent to Establish' orders and 1628 'Consent to operate' orders under the Water (Prevention and Control of Pollution) Act, 1974 as amended during the year 2007-2008.

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 2007-2008 is Rs. 908.29 lakhs amount reimbursed by Government of India is Rs.323.78 lakhs. 80% of the cess-collected is reimbursed and utilised for awareness programs, projects and training programmes.

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 2007-2008, ambient air quality surveys have been conducted in 862 industries. The Board has issued 1303 'Consent to Establish' orders and 1628 'Consent to Operate' orders under the Air (Prevention and Control of Pollution) Act, 1981 as amended during the year 2007 - 2008.

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.

3.6.1 FINANCIAL PATTERN OF CETP SCHEMES

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. The details of funds received & released are furnished in Annexure VI.

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 and authorized 2532 units generating hazardous wastes under the Hazardous Wastes (Management and Handling) Rules, 1989 as amended in 2000 and 2003.

A Common Hazardous Waste Treatment Storage and Disposal facility has been established at SIPCOT Industrial Estate, Gummidipoondi for treatment, storage and disposal of hazardous waste from industries located in Chennai, Kancheepuram and Thiruvallur districts. 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 federation 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.

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 2802 private hospitals, 317 Government hospitals in the State. All the health care facilities have been directed to go for common biomedical waste treatment and disposal facilities having autoclave, shredder, compactor, and incinerator for anatomical waste and secure landfill facility. Site for 11 common facilities have been identified 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 sites 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 facilities are under operation.

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 and 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.

Tiruppur municipality has started segregation of waste at source. A private agency has established a facility for composting the segregated waste of Tiruppur municipality. Further all the municipalities have started segregation of waste at source in some wards. There is an urgent need to evolve scientific approaches to the management of municipal solid wastes.

The Board is advocating the concept of segregation of wastes at source, reduction, recycle and reuse of waste. The Board has issued NOC to 106 municipalities and one corporation for composting of municipal solid waste and setting up waste processing facility. NOCs issued for 62 municipalities have been converted as authorisation.

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, Coonoor & Namakkal municipalities for Management of Municipal Solid Waste Management and to make it as a model municipality.

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:

1. National Air Quality Monitoring Programme (NAMP)
2. 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 dioxide (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 :-

1. Kathivakkam (NAMP) - industrial area
2. Manali (NAMP) - industrial area
3. Thiruvottiyur(NAMP) - mixed area
4. Kilpauk (CAAQM) - commercial (traffic inter-section)
5. Thiyagaraya Nagar (CAAQM) - commercial(traffic inter-section)
6. Vallalar Nagar (CAAQM) - commercial (traffic inter-section)

7. Anna Nagar (CAAQM) - residential area
8. 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 ug/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 dust particulates are found to be well controlled in the industrial area due to the effective monitoring of industrial source emissions by the TNPCB. In Thiruvottiyur, Respirable dust particulate matter and TSPM levels exceeded the permissible limit, mainly due to the re-suspension of traffic dust generated from automobile emission and heavy vehicular traffic. The average values of pollutants recorded under NAMP programme during the year 2007-2008 are in Annexure-VII.

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 2007-2008 are in Annexure –VIII.

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 |
|-----|--------------------|---|------------|

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:-

- | | | |
|----------------------|---|----------------------|
| Gandhi Market | - | Commercial zone |
| Main Guard Gate | - | Traffic intersection |
| Bishop Heber College | - | Mixed zone |

Golden Rock	-	Residential zone
Central bus stand	-	Traffic intersection

The ambient air quality data recorded during 2007-2008 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 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 2007-2008 are in Annexure – VII.

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 2007-2008 are in Annexure - IX.

4.2.0 VEHICULAR EMISSION MONITORING

4.2.1 VEHICLE EMISSION MONITORING IN CHENNAI CITY

The 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 2007-2008, 38,891 vehicles were tested. Among the total vehicles tested, 2,824 vehicles did not comply with the emission standards during the first test (Annexure X). Vehicles that do not comply with the emission standards are instructed to carry out corrective measures to comply with the emission standards. Emissions under control certificate are issued to only these vehicles comply with the emission standards in the subsequent tests. In addition, 94 private agencies have been authorised by the Transport Department in Chennai urban agglomeration area to check the emission levels of the vehicles.

4.3 WATER QUALITY MONITORING

The basic objective of the Water (Prevention and Control of Pollution) Act, 1974 is to maintain and restore the wholesomeness of water. To ensure this objective, regular monitoring of water quality is required. The TNPCB is monitoring the inland water quality under two major programmes namely, Monitoring of Indian National Aquatic Resources (MINARS), Global Environmental Monitoring System (GEMS).

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 Udhgamandalam lake, Kodaikanal lake and Yercaud lake are being monitored. Under GEMS and MINARS programmes the river Cauvery is being monitored. The programmes are funded by the Central Pollution Control Board, 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 furnished in annexure XI A & XI B.

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 C & D class designated best use for out door bathing, drinking water source with conventional treatment followed by disinfection and propagation of wild life and fisheries.

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, 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-XII.

The water quality study conducted during the year 2007-2008 shows that the level of pH values varied from 6.04 to 8.42 and the average values of the bio-chemical oxygen demand (BOD) varied from 0.89 to 2.4 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']

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 – XIII.

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 'B'.

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 'B' and the details are furnished in the Annexure-XIII.

4.3.1.5. LAKES

Under MINARS programme, three important lakes of Tamil Nadu at Udthagamandalam, 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 – XIV (A).

The bio-chemical oxygen demand (BOD) in Udthagamandalam 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 Udthagamandalam lake, Kodaikanal lake and Yercaud lake meets the standards prescribed under Designated best use class 'C'.

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	4
Cooum	11	3
Buckingham canal	10	11
Otteri Nullah	8	6

During the year 2007-2008, 1111 samples were collected and analysed at the Advanced Environmental Laboratory, Chennai. The mean values of water quality are furnished in Annexure XIV-B.

4.5. LABORATORIES

To assist the Board in the monitoring of industries, the Tamilnadu Pollution Control Board has Established 3 Advanced Environmental Laboratories, 10 District Environmental Laboratories and 1 Mobile Environmental Laboratory 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 analysed laboratory wise during the year 2007-2008 are shown at Annexure – XV, XVI, XVII.

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.

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 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 44473 industries and closure orders to 6832 industries for not complying with the conditions prescribed by the Board. During the year 2007-2008, 2340 show cause notices and 596 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 2007-2008, 89 appeals have been filed by the aggrieved units in the Appellate Authority and the said authority disposed 25 appeals.

7.1 BOARD MEETINGS

MEETINGS OF THE BOARD WERE HELD DURING THE PERIOD FROM APRIL 2007 TO MARCH 2008 . THESE DETAILS ARE LISTED BELOW.

SL. NO.	NO. OF SUBJECTS PLACED	NO. OF MEETINGS	DATE OF MEETING
1.	25	223	24/05/2007
2.	34	224	12/09/2007
3.	33	225	17/10/2007
4.	22	226	19/12/2007
5.	34	227	18/03/2008

7.2 MAJOR POLICY DECISION TAKEN BY THE TAMILNADU POLLUTION CONTROL BOARD DURING THE PERIOD FROM APRIL 2007 TO MARCH 2008

The Board resolved to approve the proposal of bifurcation of Kancheepuram office into two district offices having headquarters at Tambaram and Sriperumbudur, bifurcation of Thiruvallur district office into two district offices having headquarters at Ambattur and Thiruvallur and bifurcation of Erode district office into two district offices having headquarters at Erode and Perundurai by forming three new district offices and by creating the required new posts as proposed in the Agenda and to send the same with full justification to the Government for orders.

The Board resolved to approve the proposal for construction of the Kancheepuram District Environmental Engineer's office at Maraimalai Nagar with a plinth area of 6166 sft. (Ground floor + first floor) at a total cost of Rs.125 lakhs, out of which Rs.105.40 lakhs will be executed through PWD and the infrastructure facilities at a cost of Rs.19.60 lakhs through TNPCB. The Board also resolved

to approve the inclusion of necessary budget provision in the revised estimate 2007-08 under the Head 'Buildings development' and to meet the above expenditure from the Board's fund.

The Board resolved to approve the proposal for construction of the Thoothukudi District Environmental Engineer's office and Laboratory at SIPCOT, Thoothukudi with a plinth area of 8278 sft. (Ground floor + first floor) at a total cost of Rs.146.00 lakhs, out of which Rs.119.40 lakhs will be executed through PWD and the infrastructure facilities at a cost of Rs.26.60 lakhs through TNPCB. The Board also resolved to approve the inclusion of necessary budget provision in the revised estimate 2007-08 under the Head 'Buildings development' and approve to meet the above expenditure from the Board's fund.

The Board resolved to approve the adoption of G.O.Ms.No.510 Home (Transport III) Department dated 13.04.2007 for conversion of existing petrol driven autorickshaws to LPG mode and to sanction the financial commitment of Rs.6.75 crores for the TNPC Board towards issuing subsidy at the rate of Rs.2,000/- (Rupees two thousand only) per auto rickshaw for 33,731 autos as per the terms and conditions indicated in the agenda.

The Board resolved to approve the release of Rs.25.57 lakhs to CMWSSB towards Under Ground Drainage Scheme in Kumbakonam Municipality for the time being and to consider the release of balance amount of Rs.100 lakhs after reviewing the remittance of amount by other participating departments to this scheme.

The Board resolved to approve the grant of Rs.3 crores (Rupees Three crores only) towards the Board's share for implementing the scheme to develop greenbelt for abatement of air pollution and betterment of Clean Development Mechanism in urban and semi urban areas in six municipal corporations of Tamilnadu subject to:

1. The amount may be disbursed from the Cess Reimbursement Fund.
2. The amount may be disbursed in installments on receipt of utilisation certificates.
3. The expenditure may be included in the year 2007-08 under the Head of account "Pollution Awareness Expenditure – A/c Account code B 818".

The Board resolved to approve the grant of Rs. 60 lakhs (Rupees sixty lakhs only) for conducting awareness programmes on Environment in all the districts of Tamilnadu through NGOs/NGCs and the conduct of All India radio and Doordharshan programmes on environment themes indicated in Annexure with a suggestion to include Campaign on Grow more trees and to incorporate certain field based practical activities like Clean up campaign, etc., The Committee comprising officials of the Board may be involved in the scrutiny of the proposals received from the NGOs / NGCs for considering the projects.

The Board resolved to grant of Rs.12.50 Lakhs per Municipality totaling to Rupees One crore for the implementation of the Municipal Solid Wastes (Management & Handling) Rules, 2000, as per the announcement made by the Hon'ble Minister for Environment during the Budget session of the State Legislative Assembly on 28.04.2007 and to include Alandur Municipality instead of Nagercoil Municipality.

8.1 ENVIRONMENTAL TRAINING

One of the functions of the State Board as enumerated under the provisions of section 17 of the Water & Air Act is to collaborate with the Central Board in organizing the training of persons engaged or to be engaged in the programme relating to prevent, control or abatement of water and air pollution and to organize mass education programme relating thereof. Training is important for manpower development and to achieve work efficiency. Senior officers, engineers, scientists and ministerial staff are being given training regularly in various aspects of prevention, abatement and control of pollution.

An Environmental Pavilion has been established inside the premises of the Periyar Science and Technology Centre at Kotturpuram, Chennai to facilitate environmental training. The pavilion has a permanent exhibition center and an auditorium with facilities like a public address system, a slide and over head-projector, and a 60 mm projector. Various school children in the State of Tamilnadu visited the environmental pavilion.

8.2 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, Pollution Control Board 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 material 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 2007-2008, this training institute has conducted 43 programmes and trained 1556 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 **2007 – 2008** 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.

Apart from the above, TNPCB has imparted training to 34 persons attached to the private emission testing centers and issued 22 performance certificate for the emission monitoring instruments attached to the private emission testing centers.

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 31.3.2007, 399 public hearings have been conducted on various projects. During the year 2007-2008, 30 public hearings were conducted.

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.,

In the year 2000 - 2002 to 2004 – 2005 the District Environmental Atlas for the Districts of from Ministry of Defence, Govt. of India.

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

During the 2007-2008 the preparation of District Environmental Atlas for the district of Madurai, Namakkal and Trichy have been completed and the atlases were submitted to CPCB for approval.

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. The State Planning Commission of Government of Tamilnadu in its five year plans of the eleventh five year plan 2007 2012, has provided an outlay of Rs. 1.00 crore to undertake the above activities.

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. A major petroleum refinery unit at Manali and more than ten dyeing units in the State including one major unit 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 rainwater 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 limes 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 15 distilleries, 13 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. A major textile-dyeing unit at Tiruppur has also provided a salt recovery plant for reusing it in the process.

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. 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 certification 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).

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 as required based on the reports are taken then & there. For attending environmental related complaints especially in Chennai City, a 'Green Squad' under the control of District Environmental Engineer, Tamil Nadu Pollution Control Board, Chennai has been formed. Two patrolling vehicles and two two-wheelers have been provided to the Green Squad which visits the complaint immediately as and when received and intimate the facts to the District Environmental Engineer, Tamil Nadu Pollution Control Board, Chennai 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 25 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 301 applications seeking information for the period from 01.04.2007 to 31.03.2008 and the Board has disposed all the request of 301 applicants.

Further the Board has also received 57 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 10224 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 Environment, Wetlands, Forestry, Directories and Reports (related to environment) of Tamil Nadu.

Library subscribes for 72 journals. Besides this annual report, Newsletters, Bulletins and Reports are received from different Institutions (Indian & foreign). Received 32 online news letters. 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 committees 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 used to refer the Library. Readers are from various institutions not only from Chennai but also from allover Tamil Nadu. Readers also from other States like Pondicherry, Karnataka, Andhra Pradesh, Kerala, Maharashtra, Uttar Pradesh and West Bengal have utilized the TNPCB Library.

Membership fee:	Student:	Monthly	-	Rs. 30.00
		Annual	-	Rs. 75.00
	Individual	Annual	-	Rs 100.00

During 2007 – 2008, 3015 readers utilized the library and 119 readers obtained membership.

10.15. TNPCB News letter:

TNPCB is publishing a quarterly News letter from July 2006 onwards.

Annexure - I**List of Board Members as on 31.03.2008**

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
2.	Thiru R. RAJAGOPAL, I.A.S., Secretary to Government, Environment and Forests Department, Fort St. George, Chennai 600 009.	Member	03.01.2007 Fore Noon	31.03.2008
3.	Thiru.S. HARIDASAN THAMPY, Joint Director Finance (BPE) Department, Finance Department (BPE) Fort St. George, Chennai 600 009.	Member	26/01/2006	30.06.2007
4.	Thiru.P. RAGHAVAN, Joint Director, Finance (BPE) Department, Secretariat, Fort St. George, Chennai – 600 009.	Member	01.07.2007 Fore Noon	31.03.2008
5.	Thiru.K.A.MOHAMED AZIZ, B.E., M.Sc., Chief Inspector of Factories, Chepauk, Chennai 600 005.	Member	27.8.2004 Fore Noon	31.07.2007 Retired
6.	Thiru.P. PANNEERSELVAM, B.E., Chief Inspector of Factories, Chepauk, Chennai 600 005.	Member	01.08.2007 Fore Noon	20.11.2007 Afternoon
7.	Thiru.S. ELANGO VAN, B.E., Chief Inspector of Factories, Chepauk, Chennai 600 005.	Member	21.11.2007 Fore Noon	31.03.2008
8.	Thiru. A.S.JEEVA RATHINAM, I.A.S., Director of Town and Country Planning. Chengalvarayan Building, IV th Floor 807 Anna Salai, Chennai 600 002	Member	24.06.2005 Fore Noon.	02.08.2007 Afternoon
9.	Thiru. K. RAJARAMAN, I.A.S., Commissioner of Town and Country Planning. Chengalvarayan Building, IV th Floor 807 Anna Salai, Chennai 600 002	Member	03.08.2007 Forenoon	28.09.2007 Forenoon

10.	Thiru. Md. NAZIMUDDIN, I.A.S., Commissioner of Town and Country Planning. Chengalvarayan Building, IV th Floor 807 Anna Salai, Chennai 600 002	Member	28.09.2007 Forenoon	28.09.2007
11.	Thiru. ASHOK DONGRE, I.A.S., Commissioner of Town and Country Planning. Chengalvarayan Building, IV th Floor 807 Anna Salai, Chennai 600 002	Member	29.09.2007 Forenoon	31.03.2008
12.	Dr. P. PADMANABAN, M.B.B.S., Director of Public Health and Preventive Medicine, Chennai - 600 006	Member	01.06.2006 Forenoon	31.03.2008
13.	Thiru SWARAN SINGH I.A.S., Managing Director, TWAD Board, Chepauk, Chennai 600 005.	Member	18.05.2006 Forenoon	31.03.2008
14.	Thiru S AROUNASSALAME, B.E., FIE., Member (Generation) Tamilnadu Electricity Board, Electricity Avenue, (NPKRR Maligai), 800, Anna Salai, Chennai-600 002.	Member	01.09.2006	31.07.2007
15.	Thiru.GOVINDARAJU, B.E., Member (Generation) Tamilnadu Electricity Board, Electricity Avenue, (NPKRR Maligai), 800, Anna Salai, Chennai-600 002.	Member	01.08.2007	31.03.2008
16.	Thiru.P.Pichaiah, Joint Director of Fisheries (Retired) No.3/14 Mahalakshmi Flats, A-II, Abdul Razak Street, Saidapet, Chennai 600 015.	Member	27.8.2004 Forenoon	28.08.2007
17.	Thiru.R. SHAICK JALALUDDIN, Joint Director of Fisheries (Retired) No.4/118-2 nd North Cross Street, Kabaleeswarar Nagar, Neelangarai, Chennai 600 041.	Member	14.11.2007 Forenoon	31.03.2008
18.	Thiru.R.Narayanaswamy, District Production Committee Member District Fertiliser Committee, No.8 First Street, Tharvazhi Village and Post, Ambur (Via), Vellore District.	Member	27.8.2004 FN	13.11.2007

19	Thiru.GUMMUDIPOONDI K.VENU, (Ex. MLA) 174, GNT Road, Kavarapettai & Post, Gumudipoondi Taluk, Thiruvallur District – 601 206.	Member	14.11.2007 Forenoon	31.03.2008
20.	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, 1 st Street, 12 th Main Road, Anna Nagar, Chennai - 600 040	Member	2.6.2001 Forenoon	31.03.2008
21.	Thiru. C.T. JAGADEESAN, B.E. General Manager i/c.,(P&D), SIPCOT, 194 Marshall Road, Chennai 600 008.	Spl. Invitee	31.3.2006	30.09.2007
22.	Thiru. S. BALASUBRAMANIAN, General Manager i/c.,(A&LA), SIPCOT, 194 Marshall Road, Chennai 600 008.	Spl. Invitee	01.10.2007	31.03.2008
23.	Thiru M. RAMAN, I.A.S., Commissioner of Industries and Commerce, Chepauk, Chennai 600 005.	Spl. Invitee	27.07.2006 Afternoon	16.07.2007
24.	Thiru M. RAJEEVRANJAN, I.A.S., Commissioner of Industries and Commerce, Chepauk, Chennai 600 005.	Spl. Invitee	17.07.2007 Forenoon	31.03.2008
25.	Thiru. K.S. NEELAKANTAN, I.F.S., Director of Environment Department, Ground Floor, Panagal Building, Saidapet, Chennai 600 015.	Spl. Invitee	29.08.2005 Forenoon	05.11.2007
26.	Thiru. BAGAWAN SINGH, I.F.S., Director of Environment Department, Ground Floor, Panagal Building, Saidapet, Chennai 600 015.	Spl. Invitee	06.11.2007 Forenoon	31.03.2008

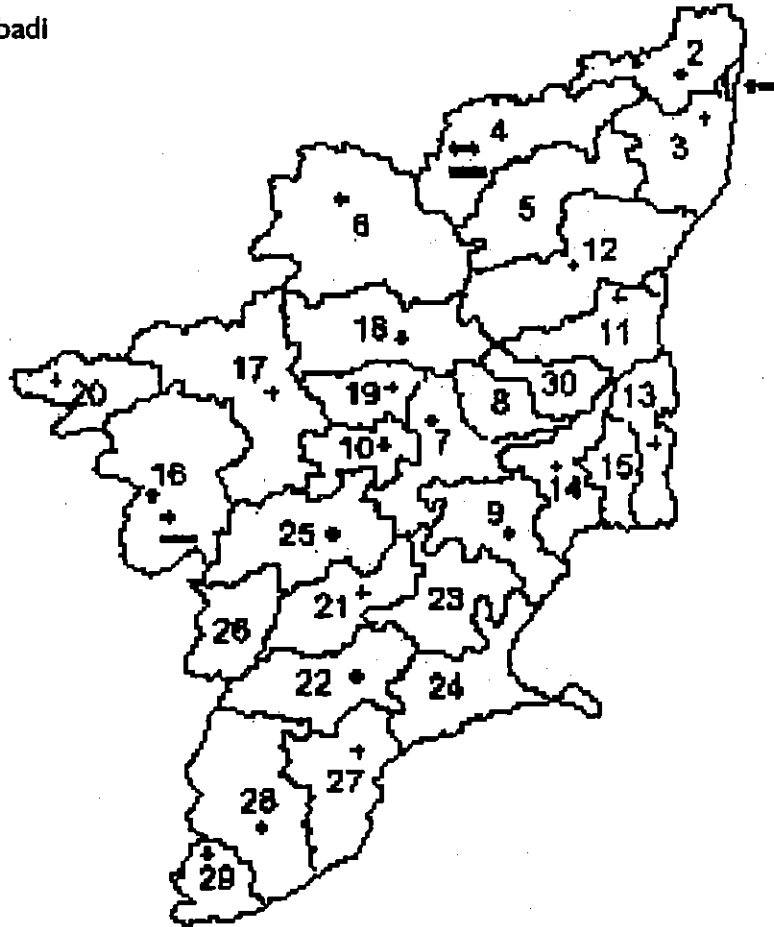
CONVENOR

1.	Dr.T.SEKAR, I.F.S., Member Secretary Tamilnadu Pollution Control Board, 76 Mount Salai, Guindy, Chennai 600 032	Member	12.12.2005 F.N.	13.11.2007 Forenoon
2	Thiru.R.RAMACHANDRAN, Member Secretary Tamilnadu Pollution Control Board, 76 Mount Salai, Guindy, Chennai 600 032	Member	13.11.2007 Forenoon.	02.01.2008
3.	Thiru.R.RAMACHANDRAN Member Secretary Tamilnadu Pollution Control Board, 76 Mount Salai, Guindy, Chennai 600 032	Member	03.01.2008 F.N.	31.03.2008

ANNEXURE - II

LOCATION OF DISTRICT OFFICES

(C) Corporate Office
 + District Office .
 TPR - Tiruppur
 VBD - Vaniyambadi



DISTRICTS

1 Chennai	11 Cuddalore	21 Madurai
2 Tiruvallur	12 Villupuram	22 Virudhunagar
3 Kancheepuram	13 Nagapattinam	23 Sivagangai
4 Vellore	14 Thanjavur	24 Ramanathapuram
5 Thiruvannmalai	15 Thiruvarur	25 Dindigul
6 Dharmapuri	16 Coimbatore	26 Theni
7 Thiruchirapalli	17 Erode	27 Thoothukudi
8 Perballur	18 Salem	28 Tirunelveli
9 Pudukottai	19 Namakkal	29 Nagercoil
10 Karur	20 The Nilgris	30 Ariyalur
		31 Krishnagiri

ANNEXURE - IV

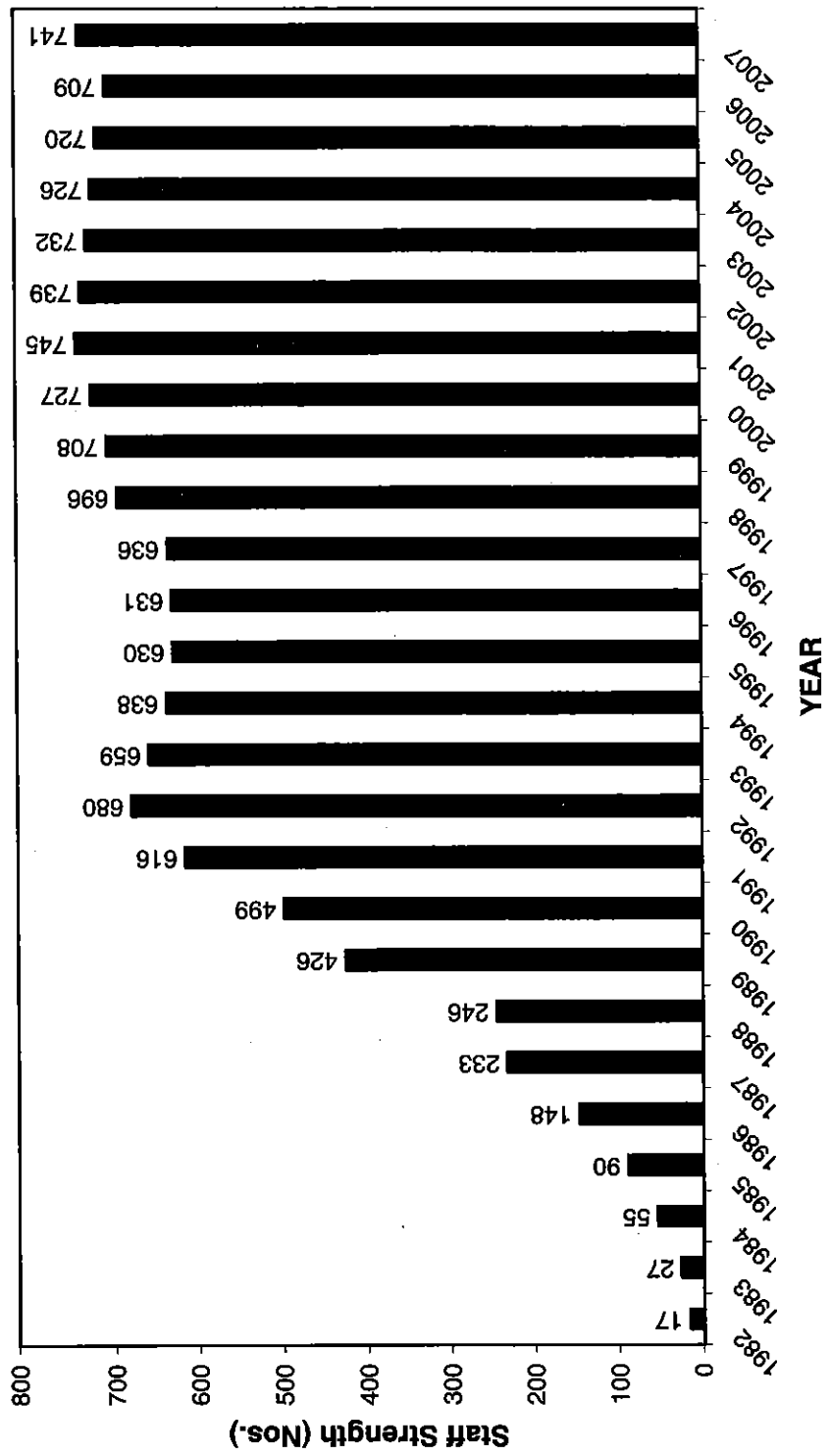
STAFF STRENGTH

NAME OF THE POST	STRENGTH
Chairman	1
Member Secretary	1
Engineering Service	140
Scientific Service	87
Scientific Supporting Staff	98
Personnel/Administration/Accounts/Miscellaneous	414
Total	741
ENGINEERING SERVICE	
Additional Chief Environmental Engineer	1
Joint Chief Environmental Engineer (i/c)	5
District Environmental Engineer	24
Executive Engineer (Construction)	1
Assistant Environmental Engineer	39
Assistant Engineer	66
Assistant Engineer (Automobile)	1
Assistant Engineer (Construction)	1
Technical Assistant	2
Sub-Total	140
SCIENTIFIC SERVICE	
Deputy Director (Labs)	2
Asst. Director (Lab)	2
Additional Manager (Labs)	6
Deputy Manager (Lab)	17
Environmental Scientist	47
Senior Meteorologist	1
Meteorologist	2
Junior Environmental Scientist	10
Sub-Total	87
SCIENTIFIC SUPPORTING STAFF	
Electrical Supervisor	1
Field Assistant	66
Lab. Attendant	28
Assistant Draughtsman	3
Sub-Total	98

NAME OF THE POST	STRENGTH
PERSONNEL / ADMINISTRATION ACCOUNTS / MISCELLANEOUS	
Financial Advisor	1
Senior Law Officer	1
Deputy Director (I.A)	1
Manager	2
Additional Manager	6
Deputy Manager	14
Assistant Managers	24
Junior Programmer	1
General Assistants	95
Data Entry Operator	2
Assistants	49
Steno Typist	30
Typists	44
Librarian	2
Driver	59
Record Clerk	13
Telephone Operator	2
Office Assistant/Watchman	59
Despatch Rider	1
Cleaner	1
Sweeper	1
Electrician	6
Total	414

Annexure V

STAFF STRENGTH FROM THE YEAR 1982 TO 2007



ANNEXURE – VI.

FUNDS RECEIVED FOR THE CETP SCHEMES
[Rs.in Lakhs]

SL. NO.	NAME OF CET P	FUND RECEIVED FROM		TOTAL
		GOVT. OF INDIA	GOVT. OF TAMILNADU	
YEAR 1991-92				
1	Pammal / Pallavaram	50.00	-	50.00
2	Erode (Tanneries)	50.00	-	50.00
3	Tiruppur	37.50	-	37.50
4	Ayyampet-Muthialpet	22.50	-	22.50
YEAR 1992-93				
1	Pammal/Pallavaram	-	50.00	50.00
2	Erode (Tanneries)	-	50.00	50.00
3	Tiruppur	-	37.50	37.50
4	Ayyampet-Muthialpet	-	22.50	22.50
5	Bhavani	-	7.50	7.50
6	Erode -I (Dyeing) B.P. Agraharam	-	15.00	15.00
7	Erode -II (Dyeing)Kasipalayam	-	17.50	17.50
8	Karur	-	21.14	21.14
YEAR 1995-96				
1	Bhavani	7.50	-	7.50
2	Erode -I (Dyeing)B.P. Agraharam	15.00	-	15.00
3	Erode -II (Dyeing)Kasipalayam	17.50	-	17.50
4	Karur	21.14	-	21.14
5	Ranipet SIDCO	25.00	50.00	75.00
6	Visharam	25.00	50.00	75.00
7	Bakkalapalli, Pernambut.	40.00	-	40.00
YEAR 1996-97				
1	R.K. Puram, Karur	-	48.22	48.22
2	Andankoil, Karur	-	50.00	50.00
3	Amaravathinagar, Karur.	-	50.00	50.00
4	Thiruvai, Karur.	-	50.00	50.00
5	SIPCOT- SIDCO Phase -II, Ranipet	-	50.00	50.00
6	Valayampet, Vaniyambadi.	-	50.00	50.00
7	Kodaikanal	-	32.50	32.50
8	Perumalpet	-	*50.00	50.00
9	Madhavaram-TALCO Industrial estate	-	50.00	50.00
10	Melpudupet, Ranipet.	-	37.78	37.78
11	Ranipet SIDCO	20.00	-	20.00
12	Melvisharam	20.00	-	20.00

YEAR 1997-98

1	SIPCOT- SIDCO Phase-II	30.00	-	30.00
2	Madhavaram,	25.00		25.00
3	Ayyampettai – Muthialpettai	-	13.20	13.20
4	Chettithangal, Melvisharam.	-	34.85	34.85
5	Pernambut (Eruguthi Mullumedu)	-	38.50	38.50
6	Mittalam, Ambur	-	50.00	50.00
7	Pudur, Vaniyambadi.	-	35.50	35.50
8	Maligaithope, Ambur.	-	50.00	50.00
9	M.C. Road, Ambur.	-	50.00	50.00
10	Tarawali, Ambur.	-	50.00	50.00
11	Gundur, Trichy.	-	50.00	50.00
12	Ramji Nagar, Trichy.	-	15.00	15.00
13	Andipalayam, Tiruppur.	-	50.00	50.00
14	Mannarai, Tiruppur	-	50.00	50.00
15	Manickapurampudur, Tiruppur	-	31.75	31.75
16	Kasipalayam, Tiruppur	-	50.00	50.00
17	Angeripalayam, Tiruppur	-	50.00	50.00
18	Veerapandi, Tiruppur	-	12.50	12.50
19	Chinnakarai, Tiruppur	-	50.00	50.00
20	Kunnangalpalayam, Tiruppur	-	50.00	50.00
21	Light House Area, Karur	-	14.74	14.74
22	Sukkaliyur, Karur	-	42.13	42.13
23	Sellandipalayam ,Karur	-	50.00	50.00
24	Karuppampalayam, Karur	-	27.00	27.00

YEAR 1998-1999

1	SIPCOT-SIDCO Phase-II.	20.00	-	20.00
2	Andipalayam, Tiruppur	53.75	3.75	57.50
3	Mannarai, Tiruppur	50.00	17.75	67.75
4	Manikapurampudur	25.00	-	25.00
5	Angeripalayam, Tiruppur	50.00	130.00	180.00
6	Veerapandi, Tiruppur	40.00	118.75	158.75
7	Chinnakarai, Tiruppur	50.00	11.25	61.25
8	Kasipalayam, Tiruppur	50.00	5.00	55.00
9	Kunnangalpalayam, Tiruppur	54.00	4.00	58.00
10	R.K.Puram, Karur	-	0.03	0.03
11	Amaravathi nagar, Karur.	-	11.00	11.00
12	Tiruvai, Karur	-	2.00	2.00
13	Andankoil, Karur.	-	3.59	3.59
14	Karuppampalayam, Karur	27.00	-	27.00
15	Sellandipalayam, Karur.	-	6.25	6.25

YEAR 1999-2000				
1	Manikapurmpudur, Tiruppur	6.75	--	6.75
2	Veerapandi, Tiruppur	128.75	-	128.75
3	Angeripalayam, Tiruppur	130.00	-	130.00
4	Kasipalayam, Tiruppur	5.00	-	5.00
5	Chinnakarai, Tiruppur	11.25	-	11.25
6	Mannarai, Tiruppur	17.75	-	17.75
7	Maligaithoppu, Ambur	50.00	-	50.00
8	Light house area, Karur	12.50	-	12.50
9	Perumalpet, Vaniyambadi	**50.00	-	50.00
10	R.K.Puram, Karur.	0.03		0.03
11	Chettithangal, Melvisharam	31.25	-	31.25
12	Melpudupet	1.25	-	1.25
YEAR 2000-2001				
1	Thiruvai, Karur	2.00	-	2.00
2	Pudur, Vaniyambadi.	10.00	-	10.00
3	Madavaram	6.25	-	6.25
4	Light house area, Karur	10.00	-	10.00
5	Karuppampalayam, Karur	-	13.66	13.66
YEAR 2001-2002				
1	Pudur, Vaniyambadi.	15.00	-	15.00
2	Light House Area, Karur	10.00	-	10.00
YEAR 2002-2003				
1	Pudur, Vaniyambadi	10.50	-	10.50
YEAR 2003-2004				
NIL				
YEAR 2004-2005				
NIL				
YEAR 2005-2006				
NIL				
YEAR 2006-2007				
NIL				

1. Rs.18.75 lakhs has been returned to State Government.
2. Rs 50 lakhs has been returned to State Government.
3. Rs 50 lakhs has been returned to Government of India.
4. Rs 86.49 lakhs has been released to M/s Kovai Telungupalayam CETP scheme from TNPCB fund.
5. Rs. 114.32 lakhs has been released to M/s. Perundurai CETP -I, Textile sector, SIGC, SIPCOT, Perundurai, Erode district.

ANNEXURE - VII
TAMILNADU POLLUTION CONTROL BOARD

STATUS OF AIR QUALITY OF IMPORTANT CITIES/ TOWNS OF TAMILNADU-UNDER NATIONAL AIR QUALITY MONITORING PROGRAMME(NAMP) ANNUAL AVERAGE CONCENTRATIONS OF AIR POLLUTANTS 2007-2008

Sl.No.	City & Location	Category	Annual Average Concentrations of Air Pollutants in $\mu\text{g}/\text{m}^3$																							
			SO ₂						NO _x						TSPM						RSPM					
			Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg						
1 CHENNAI																										
a)	Kathivakkam	Industrial	27.0	9.0	12.0	40.0	13.0	20.0	469.0	36.0	167.0	140.0	20.0													
b)	Manali	Industrial	28.0	9.0	13.0	41.0	13.0	20.0	407.0	34.0	169.0	217.0	23.0													
c)	Thirvottiyur	Mixed	31.0	9.0	13.0	56.0	12.0	20.0	407.0	56.0	153.0	177.0	24.0													
2 COIMBATORE																										
a)	DCO	Mixed	15.0	4.0	6.0	62.0	13.0	27.0	185.0	26.0	86.0	124.0	10.0													
b)	Pooniyarajapuram	Residential	15.0	4.0	5.0	50.0	7.0	25.0	212.0	20.0	80.0	168.0	9.0													
c)	SIDCO	Industrial	17.0	4.0	6.0	51.0	12.0	31.0	417.0	52.0	212.0	261.0	32.0													
3 THOOTHUKUDI																										
a)	Raja Agencies	Industrial	125.0	7.0	33.0	80.0	5.0	18.0	702.0	51.0	199.0	408.0	35.0													
b)	AVM Buildings	Mixed	76.0	9.0	29.0	129.0	5.0	18.0	490.0	15.0	134.0	305.0	23.0													
c)	Fisheries college	Industrial	102.0	9.0	33.0	47.0	4.0	17.0	293.0	27.0	105.0	210.0	19.0													
4 MADURAI																										
a)	M/s.Susee Cars & Trouks (P) Ltd.,	Industrial	15.0	8.0	12.0	31.0	17.0	24.0	133.0	39.0	91.0	89.0	16.0													
b)	Avvai Girls Higher Secondary School	Mixed	13.0	7.0	9.0	38.0	16.0	21.0	208.0	34.0	98.0	94.0	13.0													
c)	Highways project Buildings	Residential	11.0	6.0	9.0	30.0	16.0	21.0	165.0	43.0	84.0	72.0	19.0													
5 SALEM																										
a)	Sowdeswari college building	Mixed	14.0	5.0	7.0	45.0	13.0	24.0	231.0	45.0	113.0	132.0	24.0													
Prescribed Standard:																										
	i) Industrial		80			80	80			360			120													
	ii) Residential, Rural & other areas(mixed)		60			60	60			140			60													

Note: SO₂: Sulphur di oxide NO_x: Oxides of Nitrogen TSPM: Total Suspended particulate matter
RSPM : Respirable Suspended Particulate Matter (PM₁₀)

ANNEXURE - VIII

CHENNAI AMBIENT AIR QUALITY MONITORING PROGRAMME

STATUS OF AIR QUALITY DURING APRIL 2007 TO MARCH 2008

Station	ANNUAL AVERAGE CONCENTRATIONS OF AIR POLLUTANTS $\mu\text{g}/\text{m}^3$				
	SO ₂	NOx	RSPM	TSPM	
ANNA NAGAR	6	18	115	260	
ADYAR	6	12	42	82	
KILPAUK	8	18	108	241	
THIYAGARAYANAGAR	9	21	90	228	
VALLALAR NAGAR	9	20	103	278	
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 - IX
TAMILNADU POLLUTION CONTROL BOARD

STATUS REPORT OF TRICHY AIR QUALITY UNDER TRICHY AMBIENT AIR QUALITY MONITORING PROGRAMME (TAAQM)
DURING 2007 - 2008

Sl.No.	Station	Average Concentrations of Air Pollutants, µg/m ³					
		SO ₂	NOx	RSPM	PM _{2.5}	TSPM	
1	Gandhi Market	20	25	120	---	296	
2	Mainguard Gate	---	---	---	13.1	---	
3	Bishop Heber College	10	16	44	---	112	
4	Golden Rock	10	16	41	---	115	
5	Central Bus Stand, Trichy	21	26	157	---	305	
Prescribed Standard		60	60	60	40	140	

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

ANNEXURE - X

STATUS OF VEHICLE TESTED AT TNPCB VEM STATIONS DURING 2007-2008

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	38,891	37,987	2,824	1,920	904	7.26

ANNEXURE - XI-A

RIVER WATER QUALITY - RIVER CAUVERY (UNDER GEMS PROGRAMME) 2007-2008

Sl.No.	Parameters	Musiri Ferry Gate	Musiri Bore Well	Mettur	Paillalayam	Tolerance limit*	
						B	C
1	pH	7.43 - 8.06	6.92 - 8.06	7.1 - 8.66	7.24 - 8.63	6.5 - 8.5	8.5-6.5
2	DO mg/l	7.53	7.85	6.31	6.37	5	>4.0
3	BOD mg/l	1.12	<2	1.1	1.9	3	3
4	Cl mg/l	95	300	30	44	--	600
5	SO ₄ mg/l	59	35	20	25	--	400
6	NO ₃ mg/l	0.14	3.9	0.18	0.22	--	50
7	TH mg/l	320	580	200	220	--	----
8	FC MPN/100ml	680	155	508	1048	200	2000
9	TC MPN/100ml	890	215	698	1564	500	5000
10	DBU Class	C	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 - XI B

RIVER WATER QUALITY RIVER CAUVERY (UNDER MINARS PROGRAMME) 2007-2008

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	6.96 - 8.67	7.72	1.11	110	2	0.37	120	297	483
2	Trichy U/S	C	7.4 - 8.47	7.43	0.79	75	38	0.13	230	760	1313
3	Grand Anaicut	C	6.88 - 8.83	7.32	2.75	40	63	0.22	390	848	1233
4	Sirumugai	C	6.98 - 8.42	7.35	2.75	6	4	0.25	100	210	489
5	Bhavani	C	7.22 - 8.13	7.11	1.40	26	11	0.2	210	1278	3488
6	Karunthattan Kudi	C	7.54 - 8.38	7.6	0.95	*	*	0.06	*	877	1157
7	Madathukulam	C	7.0 - 7.98	7.9	0.88	*	*	0.17	*	276	364
8	Erode	D	7.03 - 7.99	3.25	15.49	145	104	0.25	250	4833	10,267
9	Bhavani Sagar	C	6.82 - 8.12	6.6	1.49	14	3	0.16	140	885	1421
10	R.N. Pudur	C	7.31 - 8.16	7.21	0.97	28.0	9	0.19	210	1655	2403
11	P.Velur	C	7.26 - 8.37	7.6	1.05	52	31	0.21	220	442	689
12	Mohannur	C	7.11 - 8.19	7.2	1.16	68	29	0.34	192	635	872
13	Trichy D/S	C	7.35 - 8.29	7.18	2.70	105	43	0.21	270.00	1278	1925
14	Coleroon	C	7.55 - 8.58	7.8	1.52	160	41	0.16	290	243	648
15	Pitchavaram	C	6.8 - 8.26	6.8	1.14	125	36	0.2	290	632	1819
16	Thirumukkudal	C	7.84 - 8.47	7.5	0.88	95	39	0.16	240	225	300
	Tolerance Limit	B	6.5-8.5	5.0	3	--	--	--	--	200	500
		C	6.5-8.5	4.0	3	600	400	50	--	2000	5000
		D	6.5-8.5	4.0	--	--	--	--	--	--	--

B - Outdoor bathing

C - Drinking water source with conventional treatment followed by disinfection

D - Propagation of wild life 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

* Sample Not collected

ANNEXURE - XII

RIVER WATER QUALITY - TAMIRAPARANI (UNDER MINARS PROGRAMME)-2007-2008

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	Cheranmadevi	B	6.09 - 6.94	7.0	0.89	21	11	0.12	30	130	273
2	Kokirakulam	C	6.08 - 7.77	6.82	1.66	20	12	0.15	35	349	573
3	Papanasam	B	6.54 - 6.8	7.8	0.96	15	11	0.15	6	118	345
4	Murappanadu	B	6.6 - 8.16	7.69	1.78	70	19	0.11	150	134	266
5	Ambasamudram	B	6.06 - 7.35	7.57	0.95	16	9	0.14	15	110	218
6	Thiruvaidaimarudhur	B	6.04 - 7.56	7.3	1.1	19	10	0.18	20	82	199
7	Authoor	C	6.68 - 8.42	7.5	2.4	27	16	0.11	50	248	470
	Tolerance limit	B	6.5-8.5	> 5	3	-	-	-	-	200	500
		C	6.5-8.5	4.0	3	600	400	50	--	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 - XIII

RIVER WATER QUALITY - PALAR & VAIGAI RIVER BASIN (UNDER MINARS PROGRAMME) 2007-2008

RIVER	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)
Palar	B	6.65 - 7.96	7.1	2	84	63	0.3	125	185	302
Vaigai	B	7.11 - 7.57	6.6	2.8	198	28	0.08	118	4.5	14
Tolerance limit	A	6.5 - 8.5	>6	2 - <2	-	-	-	-	20	50
	B	6.5-8.5	> 5	3	-	-	-	200	200	500

Classification of water (Designated Best use)

A - Drinking water source without conventional treatment but after disinfection

B - Outdoor bathing

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 - XIV - A
LAKE WATER QUALITY (UNDER MINARS PROGRAMME) 2007-2008

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	C	6.88 - 7.22	3.46	16	63	13	0.73	190	44,893	58433
2	Kodaikanal	C	7.05 - 7.52	6.2	4.9	13	10	0.21	18	14	27
3	Yercaud	C	7.0 - 7.26	7.6	1.7	40	6	0.3	150	558	790
	Tolerance Limit	C	6.5 - 8.5	> 4	3	600	400	50	-	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 - XIV - B

MONITORING OF CHENNAI CITY WATERWAYS - 2007-2008

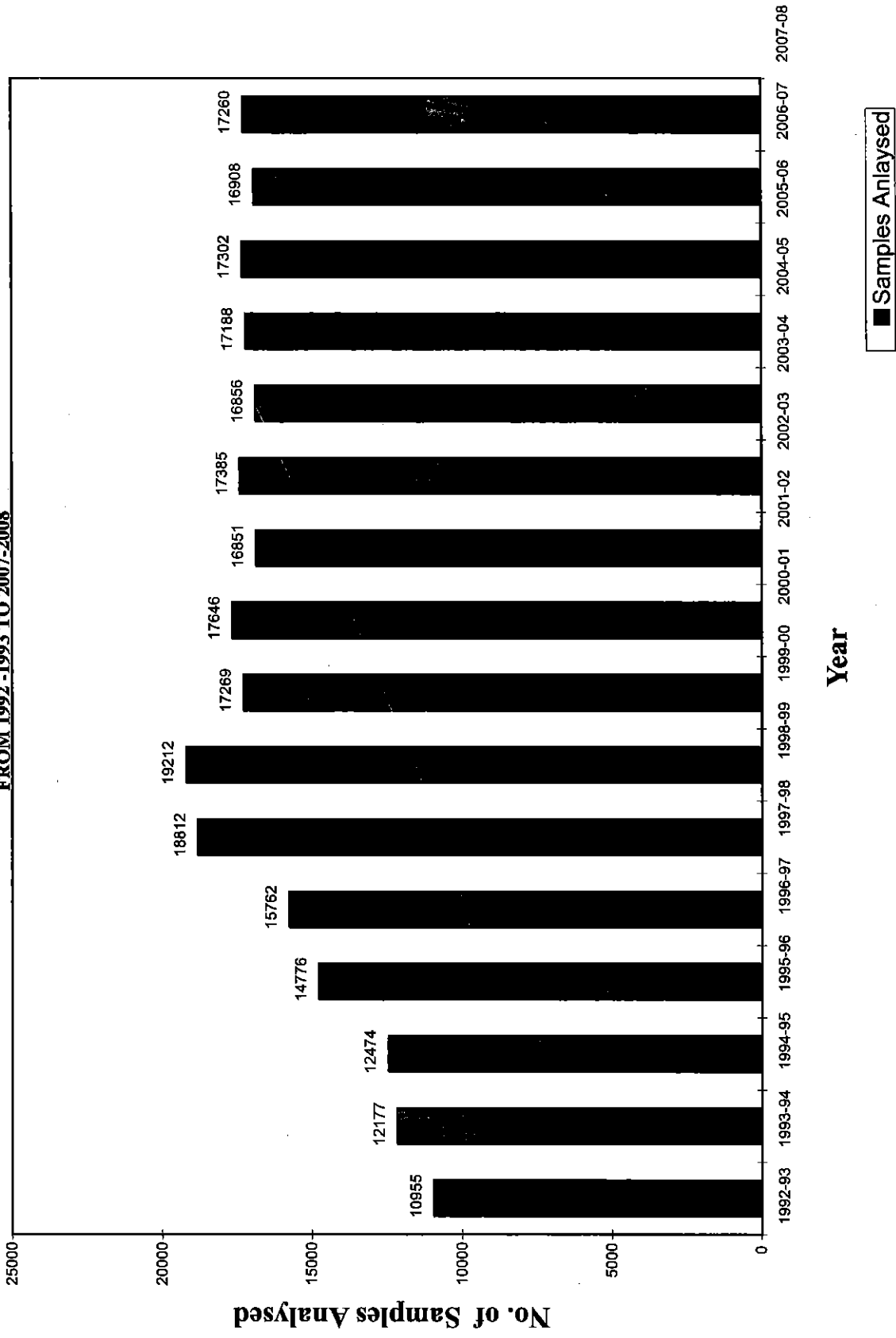
SI.No.	Source	TSS mg/l	BOD mg/l	COD mg/l
1	Adyar	52	32	131
2	Buckingham Canal	219	115	438
3	Cooum	100	57	210
4	Otterinullah	121	73	203

ANNEXURE - XV
TAMILNADU POLLUTION CONTROL BOARD
PERFORMANCE OF LABORATORIES

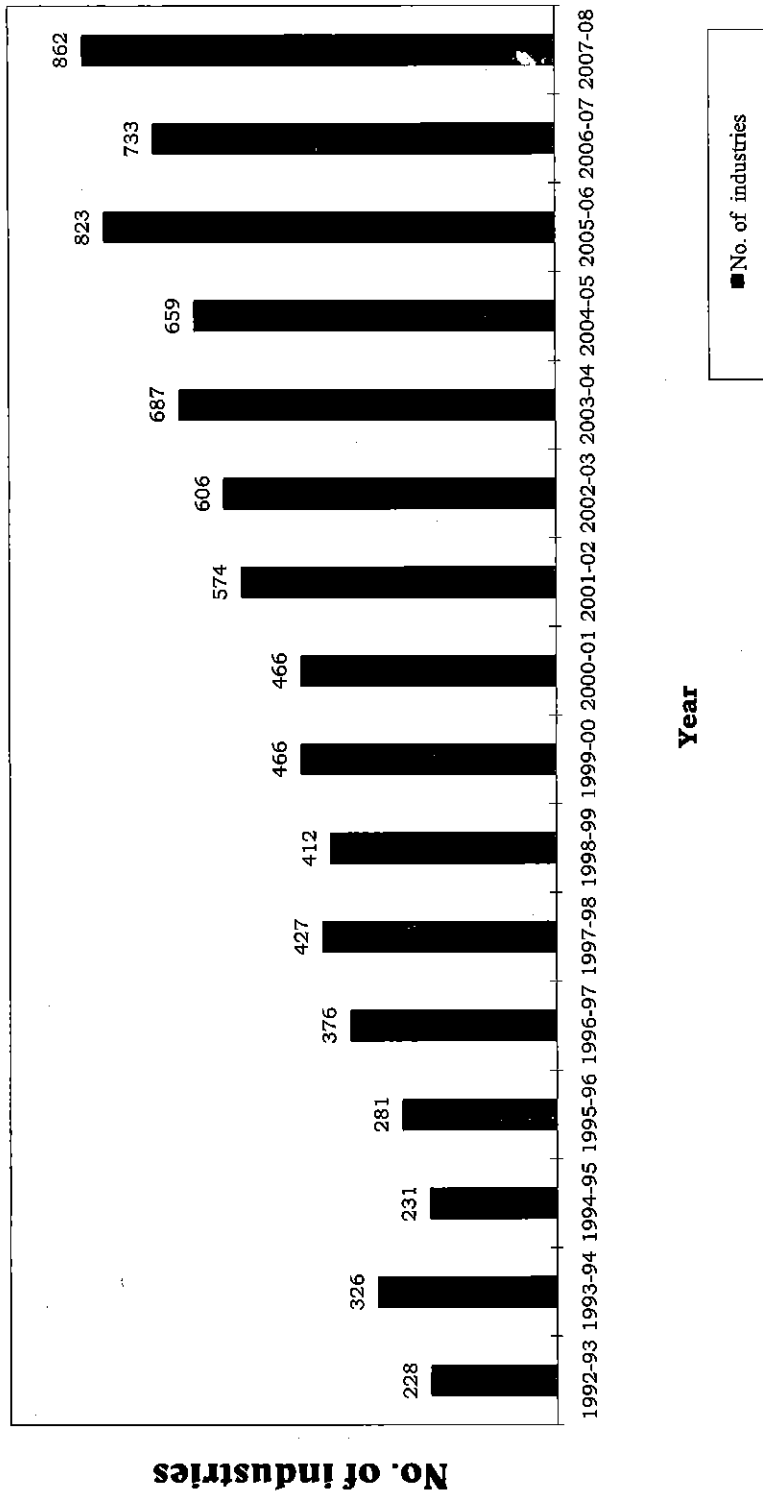
PERIOD : 2007 to 2008

S.No.	Name of the Laboratory	Water Samples					Air Survey					Air Project			Noise					
		Effluent		Projects			Total	No. of Industries	AAQS Stations	SM Stations	CAQM	NAMP	TAQM	Spl. Project	No. of Industries	Industry	No. of Stations	No. of Industries	Complaints	
		Regular	Complaint	GEMS	MINARS	Microbiology														Studge/Soil/Fuel / Other
Advanced Environmental Laboratory																				
1	Chennai	2,455	122		65	65	1,111	231	4,049	100	503	163	1,512			17	76	484	10	12
2	Madurai	871			17	17		3	908	74	422	157		881			73	702		9
3	Salem	1,895		33	186	219		26	2,359	76	435	171		405			75	797		7
District Environmental Laboratory																				
4	Ambattur	1,342	40						1,382	86	463	332		1731			82	410	11	35
5	Coimbatore	995							995	65	297	116		1,583		90	63	324	5	41
6	Cuddalore	1,013							1,013	46	294	113					42	218	2	5
7	Dindigul	743							743	37	219	71					37	203	1	6
8	Hosur	743						4	747	86	413	243			18	86	726	1	14	
9	Manali	389							389	26	149	104				26	125	3	15	
10	Trichy	1,304							1,304	85	441	134				85	506	4	20	
11	Tirunelveli	769	10		127	127		1	1,034						3,759					
12	Tiruppur	873							873	67	330	175				67	395	5	46	
13	Vellore	1,464							1,464	64	359	319				64	369	1	6	
Mobile Environmental Laboratory																				
14	Thoothukudi									50	304	94		297				270		7
	Total	14,856	172	33	395	428	1,111	265	17,260	862	4,629	2,192	1,512	4,897	3,759	125	776	5,529	59	207

**ANNEXURE - XVI
PERFORMANCE OF LABORATORIES
NUMBER OF SEWAGE TRADE EFFLUENT / WATER SAMPLES ANALYSED
FROM 1992 -1993 TO 2007-2008**



**ANNEXURE - XVII
 PERFORMANCE OF LABORATORIES
 NO OF INDUSTRIES WHEREIN AIR / STACK SURVEYS CONDUCTED
 FROM THE YEAR 1992-1993 TO 2007-2008**



ACCOUNTS

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AUDITOR'S REPORT TO THE MEMBERS OF THE TAMILNADU POLLUTION CONTROL BOARD FOR THE YEAR ENDED 31st MARCH 2008

We have audited the attached Balance Sheet of Tamil Nadu Pollution Control Board as at March 31, 2008 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

: 2 :

- a. Refer point no V (e) of the notes to accounts with respect to non recoverability of cess amounting to Rs.288.82 crores due from industries and local bodies in turn to be remitted to the Ministry of Environment Forest, Government of India.
- b. 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.

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, 2008 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 2008
- (c) In the case of the Income and Expenditure account of the excess of Income over Expenditure for the year ended 31st March 2008

Place : Chennai

Date : 26-12-2008

For CSGSN & Associates

Chartered Accountants

(Sd/-)

C.N. GANGADARAN

(Partner)

Memb.No.11205

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.	Rs. Ps.
	A. OPENING BALANCE		
6297449.21	a. Bank	46309686.99	
12650.00	b. Cash	14110.00	
1867230.00	c. Funds in Transit	2523183.00	48846979.99
	B. GRANTS RECEIVED		
-	a. From Government	-	
-	b. From other Agencies	-	
-	c. Schemes	12045941.00	12045941.00
	C. FEES		
1309715.00	a. Consultant Registration Fees	1163575.00	
151818999.50	b. Cost of Application	146236755.00	
84747331.43	c. Consent Fees	83165009.43	
54996.00	d. Cess Collection	200300.00	230765639.43
	e. Fees for handling H. Waste		
	D. SERVICES & RENTAL CHARGES		
37573373.00	(Lab Analysis Charges Sch - A)		35960588.00
4762889.00	E. INTEREST ON INVESTMENT		36237790.00
	F. MISCELLANEOUS		
18134931.00	a. Others (Schedule-B)	9994914.00	
50402880.00	b. Cess Re-imburement	29775233.00	39770147.00
356982444.14	C/o		403627085.42

CONTROL BOARD, CHENNAI - 600 032.

the Year ended 31 March 2008

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		PAYMENTS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
		A. CAPITAL EXPENDITURE				
13581920.00		a. Assets - Land and Building	9183578.00			
213255.00		b. Laboratory Equipment	1115794.00			
19650.00		c. Vehicles	-			
443426.00		d. Furniture	319233.00			
915544.00		e. Office Appliance	538691.00			
45069.00		f. Library Books	38187.00			
54632.00		g. Electrical Installation	99000.00			
290696.00		h. Computer	859170.00			12153653.00
		B. REVENUE EXPENDITURE				
		A. ADMINISTRATIVE				
112992008.30		a. Salaries	130314807.90			
20168807.00		b. Pension & Gratuity Contribution	16437251.00			
4770288.00		c. Surrender Leave Salary	4377680.00			
1249845.00		d. Bonus	1290625.00			
1395248.00		e. Medical Expenses	1374947.00			153795310.90
		B. BOARD LABORATORY				
545022.00		a. Running Expenses of Lab.	397834.00			
601752.00		b. Lab. Chemicals etc.,	1071210.00			1469044.00
		C. RUNNING & MAINTENANCE OF VEHICLE				5765707.00
5979405.00						
		D. SCHEME				4000000.00
3000000.00						
166266567.30		C/o				177183714.90

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.	Rs. Ps.
356982444.14	B/F		403627085.42
	G.DEPOSITS & ADVANCES		
1190611.00	a. Earnest Money Deposit	1723582.00	
64677.00	b. Security Deposist	130926.00	
515973.00	c. Advance to Staff (Sch. - C)	1150479.00	
309579152.00	d. Short Term Deposit	518496077.00	
10000.00	e. Telephone Deposit	-	
	f. Other Deposit	15636700.00	
100000.00	g. R.P.G.Deposit	-	537137764.00
103688750.00	H.OTHERS (Schedule - D)		119066329.00
772131607.14	Total		1059831178.42

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

Sd/-
M. Shanthi ,B.A,
Financial Adviser

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

Chennai - 600 032
Date: 26 /12 /2008

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CONTROL BOARD, CHENNAI - 600 032.

the Year ended 31 March 2008

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		PAYMENTS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
166266567.30		B/F				177183714.90
		E. MAINTENANCE & REPAIRS				
900666.00		a. Buildings	2409690.00			
21360.00		b. Furniture & Fixture	120987.00			
1468085.00		c. Scientific instruments				
480331.00		d. Office Appliance	472357.00			
721972.00		e. Electrical Installation	989974.00			
76334.00		f. Insurance of Assets	54284.00			
58526.00		g. Other Assets	744563.00			4791855.00
		F. FEES TO CONSULTANTS & SPECIALISTS				63469.00
40702.00						
343456.00		G. LAW CHARGES				373316.00
26629.00		H. AUDIT FEES				25197.00
75312788.85		I. MISCELLANEOUS (Schedule-E)				87134690.62
93824839.00		C.CESS REMITTANCE				81001346
6945755.00		D.ADVANCE (Schedule - F)				8978724.00
		E.Deposits				
369360000.00		a. Short Term Deposits	630352516.00			
7436616.00		b. Others (Schedule - G)	12558823.00			642911339.00
		F.CLOSING BALANCE				
46309686.99		a. Bank	52908651.90			
14110.00		b. Cash	23040.00			
2523183.00		c. Funds in Transit	4435835.00			57367526.90
772131607.14		Total				1059831178.42

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

Sd/-
R.Balakrishnan IAS
Chairman

Sd/-
C.N.Gangadharan
Partner
Member No. 11205 Page No. 65

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.
2082109.00		A. Administrative	2115379.00			
76750017.00		a. Pay of officers	83757393.50			
42117301.50		b. Pay of Establishment	51475372.50			
		c. Allowance & Honoraria (<i>Schedule-H</i>)				
92728057.00		d. Contribution to Gratuity & Provision for Pension	93423975.00			
7098376.00		e. Surrender Leave Salary	10273679.00		241045799.00	
1941894.41		B. Running Expenses of Labs.				1556058.91
		C. Running and Maintenance of Vehicle (<i>Schedule-I</i>)				5951689.00
6053770.00		D. Maintenance and Repairs				
33241.00		a. Furniture & Fixtures	124070.00			
1141326.90		b. Lab. Equipments & Instruments	2509584.00			
581144.00		c. Office Appliance & Others	561648.00			
773486.00		d. Electrical Installation	1061512.00			
927478.00		e. Building	2878638.00			7135452.00
		E. Fees to Consultants and Specialists				69506.00
47778.00		F. Law Charges				406546.00
362200.00		G. Fees for Audit				28090.00
27550.00		H. Miscellaneous (<i>Schedule-J</i>)				84249537.05
63322606.35		I. Depreciation (Form XV)				11641545.00
12855175.00		J. Prior Period Adj. Account				186670.00
-		K. Excess of income over Exp. trf to B/S				82588639.04
140036051.80						
448879561.96		Total				434859532.00

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

Sd/-
M. Shanthi ,B.A,
Financial Adviser

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

Chennai - 600 032
Date: 26 /12 /2008

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OF ACCOUNT

for the Year ended 31st March 2008

(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	-	-	-	-
238601335.50		B.Fees (Schedule-K)			250575161.00	
36142288.00		C.Services & Rental Charges (Schedule-L)			35333727.00	
15072542.00		D.Miscellaneous Receipts				
50402880.00		a. Others (Schedule-M)	6618161.00			
		b. Cess Reimbursement	29775233.00		36393394.00	
97768858.46		E.Interest on Investment			112557250.00	
10891658.00		F.Prior Period Adj.Account				
448879561.96		Total			434859532.00	

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

Sd/-
R.Balakrishnan IAS
Chairman

Sd/-
C.N.Gangadharan
Partner
Member No. 11205

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 01.04.2007	54526922.18	
-	ii. Grants received from Govt. for capital exp. During the current year and utilised upto 31.3.2008	-	
-	iii. Grants received towards specific schemes from other agencies	-	
	iv. Less: Amount transferred to Depreciation Fund	-	54526922.18
	b. Excess of Income over Expenditure		
1077548996.08	i. As at 01.04.07	1204729872.88	
140036051.80	ii. Add: Surplus during the year	82588639.04	
		1287318511.92	
(12855175.00)	iii. Less: Amount transferred to Depreciation Fund	11641545.00	1275676966.92
	B. Earmarked Fund (Schedule-T)		
372500000.00	a. Pension Fund	472500000.00	
227744673.92	b. Depreciation Fund	253050898.92	
3363250.00	c. CESTP Development Fund	3363250.00	
44200000.00	d. Earn leave encashment Fund	51500000.00	780414148.92
	C. Other Deposits		
3888412.33	a. Deposits for supply & works (Schedule -N)	20182976.11	
33927126.05	b. Refundable P.G. Deposits	32972126.05	
1304000.00	c. Eco Devlpt. Measure Deposit	8229000.00	61384102.16
	D. Amount Due		
2010282878.69	a. Cess Payable	2913782997.12	
(613834.57)	Less: Cess unrecoverable	13272684.57	2900510312.55
11983303.14	b. Others (Schedule -O)		11974912.24
3967836604.62	C/o		5084487364.97

OF ACCOUNT

the Year ended 31 March 2008

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		ASSETS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
8625424.65		A.FIXED ASSETS	8641088.65			
23360150.00		a. Land Development	32996724.00		41637812.65	
		b. Buildings Under Construction				
66370329.08		B.OTHER ASSETS			61726481.08	
		a. As per Form XV				
		b. Stock in hand				
1075956.32		i. Lab Chemicals	1096403.47			
785729.44		ii. Glassware	782575.56			
221246.63		iii. Misc. Stores	214819.07			
1015123.26		iv. Filter Paper	1525174.14		3618972.24	
1649084490.04		C.SUNDRY DEBTORS				
357295723.80		a. Cess Receivable				
		i. From Industries	2449309568.04			
		ii. From Local Bodies	457117507.80			
(613834.57)		Less: Cess unrecoverable	2906427075.84	(13272684.57)	2893154391.27	
20500.00		b. Amount Receivable - PWD			20500.00	
3080500.00		c. Project Study - Receivable			3976367.00	
312549774.30		D.ADVANCES & DEPOSITS				
		a. Misc. amounts recoverable				
		(Schedule - Q)	266446463.15			
5974702.00		b. Others amounts recoverable	9701619.00			
		(Schedule - R)				
2014033.00		c. Deposits	2167055.00		278315137.15	
		(Schedule - S)				
2430859847.95		C/o			3282449661.39	

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.
3967836604.62	B/f		5084487364.97
264956.98	E.Environmental Impact Study		264956.98
105133158.00	F.Income received in advance (Schedule - P)		120472771.00
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
1684136.00	K.Schemes		1730077.00
-	L. Sponership for Schemes		2100000.00
4098799248.94	Total		5232935563.29

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

Sd/-
M. Shanthi ,B.A,
Financial Adviser

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

Chennai - 600 032
Date: 26 /12 /2008

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OF ACCOUNT

for the Year ended 31st March 2008

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		ASSETS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
2430859847.95		B/I				3282449661.39
		E.DEPOSITS WITH BANK				
372500000.00		1. Pension Fund Investment	472500000.00			
227744673.92		2. Depreciation Fund Investment	253050898.92			
		3. Refundable Performance -				
33927126.05		Guarantee Deposit Investment	32972126.05			
44200000.00		4. EL Encashment Fund Investment	51500000.00			
3363250.00		5. CETP Develop. Fund Investment	3363250.00			
937357371.03		6. Other term deposits	1079732100.03			1893118375.00
		F.CASH				
46309686.99		a. Balance with Banks	52908651.90			
14110.00		b. Cash in Hand	23040.00			
2523183.00		c. Funds under Transit	4435835.00			57367526.90
4098799248.94		Total				5232935563.29

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

Sd/-
R.Balakrishnan IAS
Chairman

Sd/-
C.N.Gangadharan
Partner

Member No. 11205 Page No. 71

FORM - XV

**ANNUAL STATEMENT OF ACCOUNTS - FIXED ASSETS AS ON 31st MARCH 2008.
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 01/04/2007		Additions and Adjustment during the year		Total		Depreciation		Closing Balance on 31/03/2008		Cumulative Depreciation on 31/03/2008	
			Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
1	Building	10.00%	35789450.20		-		35789450.20		3580995.00		32208455.20		79887164.40	
2	Computer	60.00%	860944.13		249449.00		1110393.13		577132.00		533261.13		7139228.87	
3	Electrical Installations	15.00%	1083792.68		157580.00		1241372.68		522198.00		719174.68		2239808.43	
4	Furniture & Fixture	10.00%	5438569.31		322223.00		5760792.31		564714.00		5196078.31		11745462.92	
5	Lab Equipment	33.33%	10645128.65		635988.00		11281116.65		3605246.00		7675870.65		66605369.99	
6	Library Books	10.00%	2178054.93		38537.00		2216591.93		219359.00		1997232.93		3317025.10	
7	Office Appliance	10.00%	4906278.08		613626.00		5519904.08		168931.00		5350973.08		7713857.06	
8	Vehicle	33.33%	5468111.10		4980294.00		10448405.10		2402970.00		8045435.10		20054337.68	
	Total		66370329.08		6997697.00		73368026.08		11641545.00		61726481.08		198702254.45	

for M/s. CNGSN & Associates,
Chartered Accountants

C.N.Gangadharan
Partner
Member No.11205

R.Balakrishnan IAS
Chairman

R.Ramachandran ME(PH)
Member Secretary

M. Shanthi, BA.,
Financial Adviser

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

Chennai - 600 032.
Date : 26 / 12 / 2008

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2008.**

RECEIPTS

SCHEDULE - A

Services & Rental Charges

SL.NO	DESCRIPTION	Rs.	Ps.
1	A.A.Q.S	18813590.00	
2	Analysis Charges	12726346.00	
3	Bio Medical Management	695700.00	
4	Cess Appeal Fees	1450.00	
5	GEMS / MINARS / NAMP	419382.00	
6	Noise Leavel Measurement	183100.00	
7	VEM Test Fees	3121020.00	
	TOTAL	35960588.00	

SCHEDULE - B

MISCELLANEOUS RECEIPTS

SL.NO	DESCRIPTION	Rs.	Ps.
1	ETI	1179000.00	
2	Environment study receipt	2100000.00	
3	Interest on Loans & Advance	189059.00	
4	Miscellaneous Income	3463164.00	
5	Profit on sale of Assets	38750.00	
6	Public Hearing	2055823.00	
7	Right to Information Fees	25819.00	
8	Sale of legal Books	51180.00	
9	Zoning Atlas	892119.00	
	TOTAL	9994914.00	

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2008.**

RECEIPTS

SCHEDULE - C

ADVANCE TO STAFF (Receipts)

SL.NO	DESCRIPTION	Rs.	Ps.
1	Computer Advance		430.00
2	Cycle Advance		333.00
3	Festival Advance		4600.00
4	Handloom Advance		6050.00
5	Marriage Advance		825.00
6	Other Advance		900.00
7	Telephone & Telex (Excess call)		80147.00
8	Temporary Advance		638799.00
9	Tour Advance		235437.00
10	Vehicle Advance		182958.00
	TOTAL		1150479.00

SCHEDULE - D

ADVANCE AND DEPOSITS

SL.NO	DESCRIPTION	Rs.	Ps.
1	A.A.Q.S received in advance		233845.00
2	Cess received in advance		4349176.00
3	Consent Fees received in advance		114287240.00
4	Land Advance		196068.00
	TOTAL		119066329.00

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2008.**

PAYMENT

**SCHEDULE - E
MISCELLANEOUS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	AAQS Expenses		127887.00
2	Appellate Authority Expenses		114782.00
3	Bank interest and commission		138579.00
4	Board Meeting Expenses		158234.00
5	Contract Charges / Wages		5451919.00
6	Conveyance		316207.00
7	Eco Devplt. Measure		1075000.00
8	Electricity / Water Charges		7085317.00
9	Entertainment		270732.00
10	Environmental Pavilion Expenses		206989.00
11	Environmental Study Expenses		1038981.00
12	ETI Expenses		174690.00
13	Expenses of Audit		7827.00
14	Family Benefit Fund		270751.00
15	Hazourdous Monitoring Exp.		15986.00
16	Interest on P G D		31500.00
17	Land Maintenance Expenses		33425.00
18	Leave Travel Concession		105305.00
19	Miscellaneous Expenses		156257.22
20	Newspaper & periodicals		207403.00
21	Office Expenses		570295.00
22	Outstanding Expenses		1869968.00
23	Petty Cash Expenses		709142.00
24	Pollution Awareness Expenses		48628573.00
25	Postage / Telegram		1048622.00
26	Printing and Stationery		2662498.40
27	Prior Period Expenses		246775.00
28	Property tax		655926.00
29	Public Hearing		2133847.00
30	Rent		3765271.00
31	Silver Jubilee Expenses		44942.00
32	Staff Welfare Expenses		1440598.00
33	Telephone and Telex		2314044.00
34	Trade Fair		97363.00
35	Training and Seminar		973917.00
36	Travelling expenses		1982783.00
37	Turn duty and Overtime Allow.		46483.00
38	Vehicle Monitoring Station Exp		111954.00
39	Zoning Atlas Exp.		843918.00
	TOTAL		87134690.62

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2008.**

PAYMENT

**SCHEDULE - F
ADVANCE TO STAFF (PAYMENT)**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Festival Advance		936900.00
2	Handloom Advance		134044.00
3	Leave Travel Concession		68022.00
4	Motor Vehicle Advance		403400.00
5	Personal Computer Advance		3833690.00
6	Temporary Advance		2532858.00
7	Tour Advance		1069810.00
	TOTAL		8978724.00

**SCHEDULE - G
DEPOSITS AND ADVANCES (PAID) (OTHERS)**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Advance to Suppliers		8671967.00
2	Customs Deposit		100000.00
3	Earnest Money Deposit		1118583.00
4	Electricity Deposit		32817.00
5	Other Advance		479875.00
6	Refundable PG Deposit		994450.00
7	Rent Advance		51000.00
8	RMD		707714.00
9	Security Deposit		401717.00
10	Telephone Deposit		700.00
	TOTAL		12558823.00

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2008.**

EXPENDITURE

**SCHEDULE - H
ALLOWANCES AND HONORARIA**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Allowances		45471666.50
2	Bonus		1334461.00
3	Family Benefit Fund Contribution		210751.00
4	Leave Travel Concession Expenses		125072.00
5	Medical Reimbursement		1388597.00
6	Pay Commision Arrears - VI		46196.00
7	SPF - Board's Contribution		30000.00
8	Travelling Expenses		2802498.00
9	Turn Duty and Overtime Allowances		66131.00
	TOTAL		51475372.50

**SCHEDULE - I
RUNNING AND MAINTENANCE OF VEHICLE**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Fuel		4369013.00
2	Hire Charges		222546.00
3	Insurance		318896.00
4	Repairs		1041234.00
	TOTAL		5951689.00

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2008.**

EXPENDITURE

**SCHEDULE - J
MISCELLANEOUS**

SL.NO	DESCRIPTION	Rs.	Ps.
1.	A A Q S Expenses	561362.00	
2	Advertisement & Publicity	724782.00	
3	Appellate Authority Expenses	285322.00	
4	Bank Charges	138649.00	
5	Board Meeting / Other meeting Expenses	454351.00	
6	Contract Charges / Wages	5940138.00	
7	Conveyance Expenses	404365.00	
8	E P F for deputationist	11297.00	
9	Electricity & Water Charges	7442488.00	
10	Entertainment Expenses	237747.00	
11	Environmental Pavilion Expenses	278026.00	
12	Environmental Study Expenses	209124.00	
13	Environmental Training Institute Expenses	1789303.00	
14	Expenses of audit	10002.00	
15	Hazardous / Solid Waste / Bio Medical Exp.	15986.00	
16	Insurance of Assets	54284.00	
17	Interest on RPGD	95550.00	
18	Land Maintenance Expenses	42025.00	
19	Newspaper and Periodicals	267544.00	
20	Office Expenses	841434.00	
21	Pollution Awareness Expenses	49486017.15	
22	Postage & Telegram	1085598.00	
23	Printing & Stationery	2644803.90	
24	Property Tax and Rates	655926.00	
25	Rent on Buildings	4108711.00	
26	Silver Jubilee celebration Expenses	302680.00	
27	Staff Welfare Expenses	1623116.00	
28	Sundries	223366.00	
29	Telephone & Telex	2290925.00	
30	Trade Fair Expenses	262318.00	
31	Training and Seminar Expenses	1064621.00	
32	Vehicle Monitoring Station Expenses	115360.00	
33	Zoning Atlas Scheme Expenses	582316.00	
	TOTAL	84249537.05	

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2008.**

INCOME

**SCHEDULE - K
FEES**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Consent Fees	249411386.00	
2	Consent Forms	1163775.00	
	TOTAL	250575161.00	

**SCHEDULE -L
SERVICE AND RENTAL CHARGES**

SL.NO	DESCRIPTION	Rs.	Ps.
1	AAQS	19079420.00	
2	Analysis Charges	12530805.00	
3	NAAQM / NAMP	419382.00	
4	Noise level survey fees	183100.00	
5	VEM Test Fees	3121020.00	
	TOTAL	35333727.00	

**SCHEDULE -M
MISCELLANEOUS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Bio-Medical Waste Authorisation Fees	756200.00	
2	Cess Appeal Fees	1450.00	
3	E.T.I. Course fees	1179000.00	
4	Fees for Right to Information	26116.00	
5	Hazardous Waste Authorisation Fees	139800.00	
6	Interest on Loans & Advance	370795.00	
7	Miscellaneous Income	3665976.00	
8	Profit on sale of Assets	29489.00	
9	Public Hearing	398155.00	
10	Sale of Books	51180.00	
	TOTAL	6618161.00	

**SCHEDULE FORMING PART OF BALANCE SHEET
AS ON 31st MARCH 2008.**

LIABILITIES

SCHEDULE - N

OTHER DEPOSITS

SL.NO	DESCRIPTION	Rs.	Ps.
1	Earnest Money Deposit		2297395.20
2	Enlistment Deposits		234500.00
3	Others		16025553.78
4	Retention Money Deposits		470172.48
5	Security Deposits		1155354.65
	TOTAL		20182976.11

SCHEDULE - O

SUNDRY CREDITORS

SL.NO	DESCRIPTION	Rs.	Ps.
1	Others		199155.00
2	Outstanding Liability		10465944.24
3	Pay Roll Liabilities		576782.00
4	Staff Claim Payable		702400.00
5	Tax Deducted at Source (Officers)		28056.00
6	Tax Deducted at Source (Others)		2575.00
	TOTAL		11974912.24

SCHEDULE - P

INCOME RECEIVED IN ADVANCE

SL.NO	DESCRIPTION	Rs.	Ps.
1	AAQS Charges		101405.00
2	Analysis Charges		1076171.00
3	Cess Fees		4698505.00
4	Consent Fees		114596690.00
	TOTAL		120472771.00

**SCHEDULE FORMING PART OF BALANCE SHEET
AS ON 31st MARCH 2008.**

ASSETS

**SCHEDULE - Q
MISCELLANEOUS ADVANCES**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Advance to Suppliers		8388049.00
2	Interest Receivable		251653735.00
3	Land Advance		4848911.00
4	Other Advance		716450.00
5	Rent Advance		839318.15
	TOTAL		266446463.15

**SCHEDULE - R
ADVANCES OF STAFF**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Cycle Advance		999.00
2	Festival Advance		543040.00
3	Handloom Advance		66561.00
4	L T C Advance		1864.00
5	Marriage Advance		26835.00
6	Motor Vehicle Advance		2060352.00
7	Personal Computer Advance		6306792.00
8	Temporary Advance		516007.00
9	Tour Advance		179169.00
	TOTAL		9701619.00

**SCHEDULE - S
DEPOSITS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Customs Deposit		151973.00
2	Electricity Deposit		942939.00
3	Gas Deposit (Miscellaneous deposit)		31746.00
4	Telephone & Telex Deposit		1040397.00
	TOTAL		2167055.00

**SCHEDULE FORMING PART OF BALANCE SHEET
AS ON 31st MARCH 2008.**

ASSETS

**SCHEDULE - Q
EARMARKED FUND**

PENSION FUND ACCOUNT

SL.NO	DESCRIPTION		AMOUNT
1	Opening balance as on 01-04-07		372500000.00
	Add: Interest @ 6%		22350000.00
			394850000.00
	Less: Disbursement from fund		
	a) Commuted Pension	933975.00	
	b) Pension disbursed by Corp. Office	4221798.00	
c) Pension disbursed by Units	2277717.00	7433490.00	
			387416510.00
Add: Contribution to the Fund			85083490.00
	Closing balance as on 31-03-08		472500000.00

EARN LEAVE ENCASHMENT FUND

SL.NO	DESCRIPTION		AMOUNT
2	Opening balance as on 01-04-07		44200000.00
	Add: Interest @ 6%		2652000.00
			46852000.00
	Less: Disbursement from fund		
	a) Disbursement to retirees etc.,		1334766.00
			45517234.00
Add: Contribution to the Fund			5982766.00
	Closing balance as on 31-03-08		51500000.00

DEPRECIATION FUND ACCOUNT

SL.NO	DESCRIPTION		AMOUNT
3	Opening balance as on 01-04-07		227744673.92
	Add: Interest @ 6%		13664680.00
			241409353.92
	Add: Current year's Depreciation		11641545.00
		Closing balance as on 31-03-08	

Notes Forming Part of the Accounts for the year ended 31st March 2008.

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	31-03-2008
Employee Profile	
Age of Retirement	58 / 60 years
No. of Employees	727
Total monthly relevant salary for pension	1,08,68,219/-
No. of pensioners	40
Total monthly pension	3,53,775/-
No. of family pensioners	29
Total monthly family pension	1,36,540/-
Assumptions as per AS 15R	
Discount rates as per para 78	8%
Salary escalation fixed as per para 83-91 and 120(1)	4%
Attrition rate fixed	1%
Funding mechanism	Earmarked deposits
Present value of obligation	47,25,00,000/-

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	31-03-2008
Employee Profile	
Age of Retirement	58 / 60 years
No. of Employees	727
Total monthly relevant salary for pension	1,08,68,219/-
Average Age	46
Average past service	17
No. of leave days (EL)	1,74,480
Decrement adjusted /estimated future service	10
Assumptions as per AS 15R	
Discount rates as per para 78	8%
Expected rate of return computer as per paras 107-109	0%
Salary escalation fixed as per para 83-91 and 120(1)	4%
Attrition rate fixed	1%
Proportion of leave availment	10%
Proportion of encashment during service	10%
Proportion of encashment on separation	80%
Funding mechanism	Earmarked deposits
Present value of obligation	5,15,00,000/-

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.

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

	Rs.
i) Ennore Thermal Power Station.	76,38,41,948.00
ii) North Chennai Thermal Power Station	75,37,13,055.00
iii) Tuticorin Thermal Power Station	86,53,78,420.00
iv) Local bodies	44,52,18,795.00

f) 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 : 26.12.2008

For **CNGSN & Associates**
Chartered Accountants





Tamilnadu Pollution Control Board

76, Mount Salai, Guindy, Chennai - 600 032.

Tel : 22353134 to 22353141