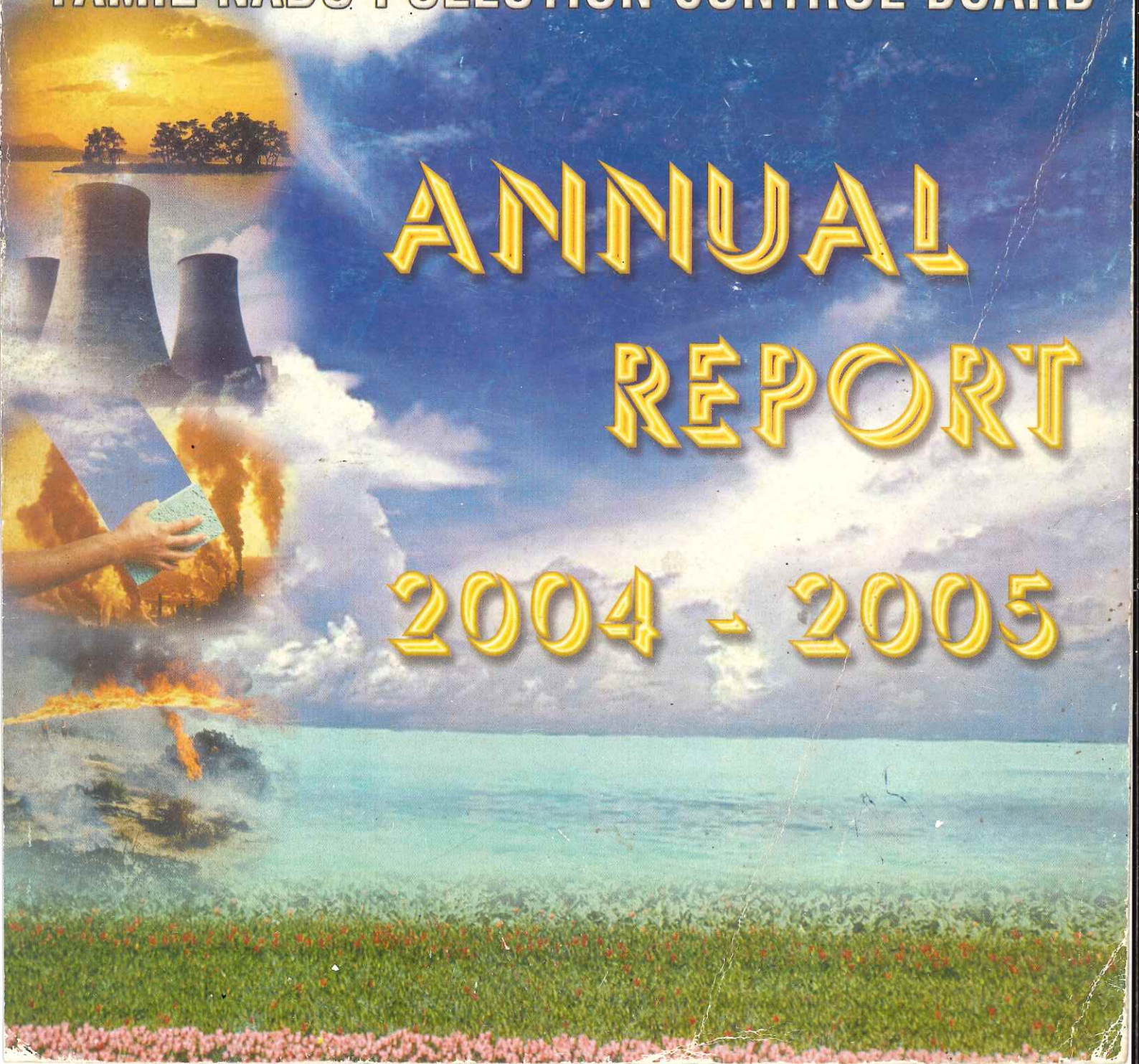




தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம்
TAMIL NADU POLLUTION CONTROL BOARD

ANNUAL REPORT

2004 - 2005

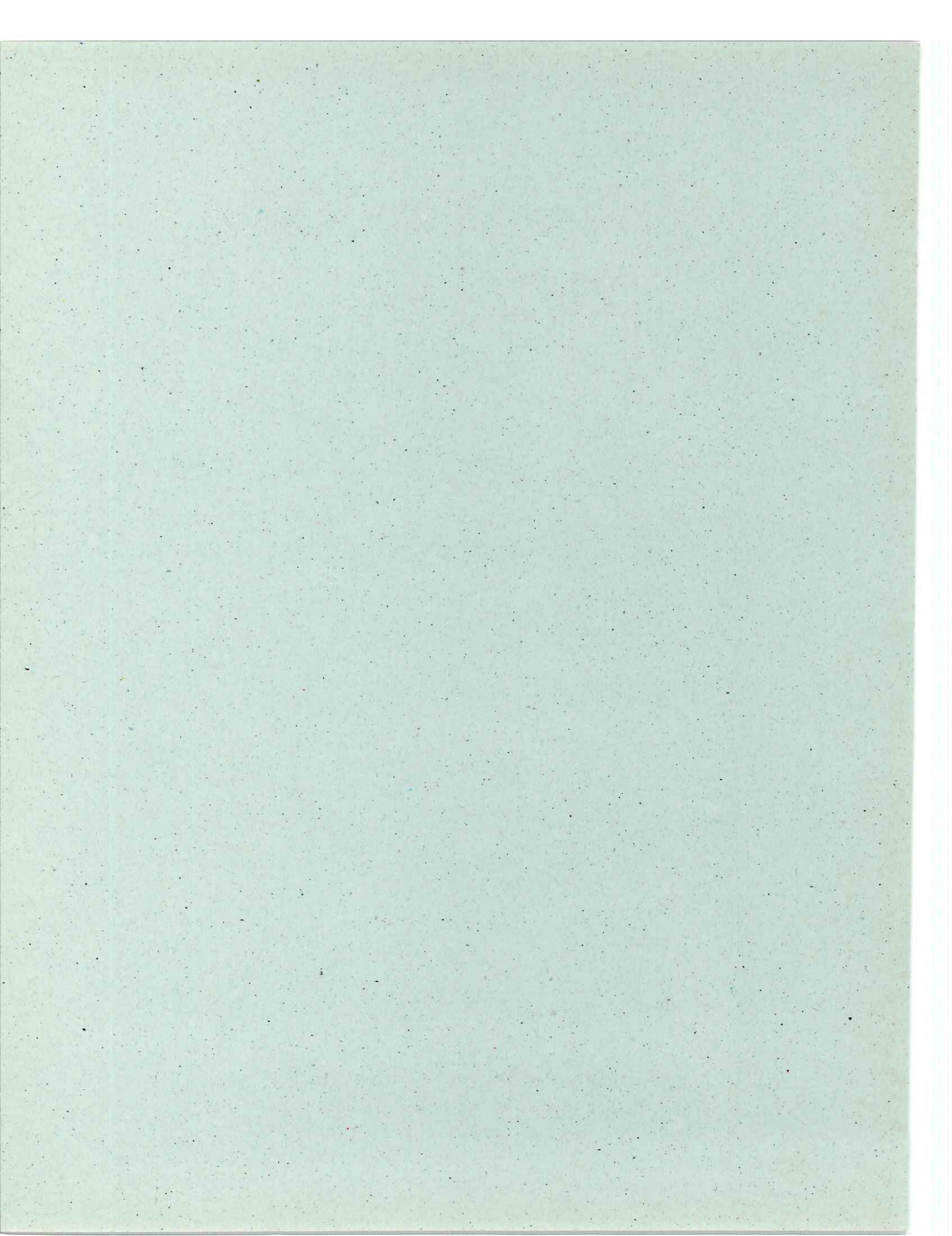


ANNUAL REPORT

2004-2005



Tamilnadu Pollution Control Board
76, Mount Salai, Guindy, Chennai - 600 032.





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1.1 INTRODUCTION

The Tamil Nadu Prevention and Control of Water Pollution Board was constituted by the Government of Tamil Nadu 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 Tamil Nadu 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 Recycled Plastics Manufacture and Usage Rules, 1999
- The Noise Pollution (Regulation and Control) Rules, 2000
- The Municipal Solid Wastes (Management and Handling) Rules, 2000
- The Battery (Management and Handling) Rules, 2001

1.2 FUNCTIONS

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

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

2.1 CONSTITUTION OF TNPCB

The TNPCB is constituted by the State Government. It comprises of a Chairperson, 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 Chairman and 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 720. There are 25 district offices, of which one is headed by Joint Chief Environmental Engineer, 19 are headed by District Environmental Engineers and 5 offices under the control of Assistant Environmental Engineers. The location of district offices are shown in Annexure – II

The TNPCB has delegated powers to the Chairperson 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 Tamil Nadu Water (Prevention and Control of Pollution) Rules, 1983.
- The Water (Prevention and Control of Pollution) Cess Act, 1977, as amended in 1991.
- 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 Tamil Nadu 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, 1994 as amended in 1997, 2000 & 2001.
- 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.
- The Recycled Plastics Manufacture and Usage Rules, 1999.
- Use of Fly Ash from Thermal Power Plants Notification, 1999.
- 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 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 after the installation of suitable and adequate effluent treatment plant and air pollution control measures.

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 2004-2005, 15,499 samples of sewage and trade effluents from the industries were collected and analysed. The Board has issued 717 'Consent to Establish' orders and 1058 'Consent to operate' orders under the Water (Prevention and Control of Pollution) Act, 1974 as amended during the year 2004-2005.

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 2004-2005 is Rs. 3295.64 lakhs and Rs. 721.16 lakhs respectively. 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 2004-2005, ambient air quality surveys have been conducted in 659 industries. The Board has issued 712 'Consent to Establish' orders and 1043 'Consent to Operate' orders under the Air (Prevention and Control of Pollution) Act, 1981 as amended during the year 2004-2005.

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	24 Schemes
Textile Bleaching & Dyeing Units	25 Schemes
Hotels & Lodges	1 Scheme

Out of 50 CETPs formulated, 14 CETP schemes for tanneries, 18 CETP schemes for textile dyeing units and 1 CETP scheme for hotels and lodges are under operation. 10 CETP schemes for tanneries and 2 CETP schemes for textile dyeing units are under various stages of implementation. Further, 5 CETP schemes for textile dyeing units are under initial stages of implementation. State and Central Governments sanction the subsidy for implementing the CETP schemes. So far Government of Tamilnadu have sanctioned Rs. 26.88 Crores as State subsidy and Government of India have sanctioned Rs.20.60 Crores as Central subsidy for the CETPs in Tamilnadu. The details are furnished in the Annexure VI and VII.

3.7 MANAGEMENT OF HAZARDOUS WASTES AND CHEMICALS

The TNPCB is taking effective steps for handling and management of hazardous chemicals and treatment and disposal of hazardous wastes in an environmentally safe manner. The Board has identified 2610 units generating hazardous wastes for which 2512 authorization under the Hazardous Wastes(Management and Handling)Rules, 1989 as amended in 2000 and 2003 have been issued.

Industries located in Chennai, Kancheepuram and Thiruvallur districts have formed the Industrial Waste Management Association for establishing a common hazardous waste treatment, storage and disposal facility through a private operator.

A site has been identified at SIPCOT Industrial Estate, Gummidipoondi as a site for establishing a Common Hazardous Waste treatment Storage and Disposal facility and it has been sent to Government for Notification.

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 EIA studies and Public hearing of the site has been completed. Proposals have been forwarded to Government for notification of site.

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

The Board has so far inventoried 2252 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.

Six common facilities at Thenmelpakkam village and Chennakuppam village in Kancheepuram District, Coonoor in The Nilgiris, Kandipedu in Vellore District, Sengipatti in Thanjavur District and Muthuvayal in Ramanathapuram District 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 I 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. The Board has issued NOC to 72 municipalities and two corporation for composting of municipal solid waste and setting up waste processing facility.

3.10 MANAGEMENT OF PLASTIC WASTES

The environmental problems arising due to indiscriminate use and disposal of throwaway plastic items have been recognized and the Board has embarked upon an intensive awareness campaign. The awareness campaign has focused on preventing the use of throwaway plastic as well as eco friendly substitutes to plastic items. Billboards educating the people about the ill effects of throwaway plastics were displayed on MTC buses in Chennai. Besides, regular awareness programmes are conducted in tourist and pilgrimage centres and also the girivalam path of Thiruvannamalai temple. Training has been imparted to self-help groups for production of palm leaf plates, cups in Salem, Vellore and Cuddalore district through the Central Palmgur and Palm Products institute of Village Industries Commission. The products are eco friendly alternatives to throw away plastics items like cups, plates etc. The Nilgiris district, Hognakkal, Kodaikannal Rameshwaram, Valparai, Yelagiri, Yercaud and Thirumoorthy falls etc have been declared as throw away plastic free zones.

The Government of India, Ministry of Environment and Forest notified the Recycled Plastics Manufacture and Usage Rules, 1999 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 1159 plastic products manufacturing units.

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 deteriorated by emissions from the industries and from the ever-increasing vehicular population. As per the provision of Air (Prevention and Control of Pollution) Act, 1981, the entire state of Tamilnadu has been declared as an air pollution control area.

4.1.1. AMBIENT AIR QUALITY MONITORING PROGRAMME AT CHENNAI CITY

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

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

Under NAMP three ambient air quality monitoring stations are functioning on 24 hours basis, twice a week. The samples collected from NAMP stations are analysed for the Total Suspended Particulate Matter (TSPM), Respirable Suspended Particulate Matter (RSPM). (RSPM is a particulate matter less than 10 microns) and gaseous pollutants such as Sulphur di oxide (SO_2) and Oxides of Nitrogen (NO_x).

Under CAAQM programme, TNPCB is operating five monitoring stations on 24 hours basis two stations per day on all working days. The pollutants measured in the CAAQM stations are Sulphur di oxide (SO_2), Oxides of Nitrogen (NO_x), Respirable Suspended Particulate Matter (RSPM) and Total suspended particulate matter (TSPM) in all stations.

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

- | | | | |
|--------|---------------------------|---|------------------------------------|
| (i) | Kathivakkam (NAMP) | - | industrial area |
| (ii) | Manali (NAMP) | - | industrial area |
| (iii) | Thiruvottiyur(NAMP) | - | mixed area |
| (iv) | Kilpauk (CAAQM) | - | commercial (traffic inter-section) |
| (v) | Thiyagaraya Nagar (CAAQM) | - | commercial(traffic inter-section) |
| (vi) | Vallalar Nagar (CAAQM) | - | commercial (traffic inter-section) |
| (vii) | Anna Nagar (CAAQM) | - | residential area |
| (viii) | Adyar (CAAQM) | - | residential area |

The ambient air quality data collected from the above mentioned air quality monitoring stations 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. The average values of pollutants recorded under NAMP programme during the year 2004-2005 are in Annexure-VIII-A

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 2004-2005 are in Annexure -VIII B.

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) Fenner India Ltd., Building - Industrial zone
(c) Kunnathur Chatram - Mixed zone

At Trichy, under Trichy Ambient Air Quality Monitoring programme, TNPCB is operating 5 monitoring stations on 24 hours basis two stations per day in all working days in the following places:-

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

The ambient air quality data recorded during 2004-2005 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, Coimbatore and Salem except at Kunnathur Chatram, Madurai where the annual average values of TSPM and 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 2004-2005 are in Annexure -VIII A.

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 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 concentrations of ambient air pollutants during the period 2004-2005 are in Annexure - VIII C.

4.2. VEHICULAR EMISSION MONITORING

4.2.1. VEHICLE EMISSION MONITORING IN CHENNAI CITY

The TNPCB has established three vehicular emission-testing centers at Alandur, Vyasarpadi and Ambattur for testing the emissions from goods transport vehicles. The emission testing has been conducted in these centres since 2.5.1992.

During the year 2004-2005, 34,553 vehicles were tested. Among them, 6475 vehicles (19%) did not comply with the emission standards during the first test. Vehicles that are not complying with the emission standards are instructed to carry out corrective measures to comply with emission standards and then only emission under control certificates are issued. In addition, 95 private agencies have been authorised by the Transport Department in Chennai Urban Agglomeration area to check the emission level of the vehicles.

4.2.2. VEHICLE EMISSION MONITORING IN THE DISTRICTS

The TNPCB has commissioned two vehicular emission monitoring stations in Nilgiris district at Udthagamandalam on August 1996 and Katteri on August 1999, one station each at Dindigul and Palani in Dindigul District on March, 1997 and one station in Kancheepuram District at Chengalpattu on October 1997 for testing and issuing Emission Under Control Certificate (EUCC) for transport vehicles. In these stations, a total number of 19614 vehicles were tested. Among them 4162 vehicles (21%) did not comply with emission standards during the first test.

The details of vehicles tested and number of vehicles that exceeded the standards in each station are shown in Annexure – VIII D.

4.2.3. MEASURES TAKEN TO REDUCE VEHICULAR EMISSIONS

Tamilnadu Pollution Control Board has jointly established with Metropolitan Transport Corporation (MTC) six emission testing centres at MTC fitness certificate depots, namely Alandur, Adyar, Annanagar, Vadapalani, Ayanavaram and Tondaiarpur. The computerised test equipment have been provided by TNPCB to these centers for testing exclusively MTC vehicles and issued Emission Under Control Certificate to the vehicles that are complied with emission standards.

Emission check is made mandatory for all the vehicles in Chennai city from 1.1.1998 and for cities like Coimbatore, Madurai, Salem and Trichy from 2000 onwards. Emission checking programme has been extended to other cities/towns of Tamilnadu. For controlling vehicular

emission, cleaner fuel like unleaded petrol, petrol with 1% benzene and low sulphur fuel (0.05%) have been introduced in Chennai since January 2005. Action is being taken to introduce LPG as a cleaner fuel; especially for auto rickshaws. Fifteen LPG stations have been commissioned in Chennai city and in out skirts. Joint emission check up programme is carried out to improve maintenance of vehicles and reduce vehicular emission in co-ordination with the Transport Department.

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 SYSTEMS (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, New Delhi.

4.3.1.1. THE RIVER CAUVERY

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

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

The physico-chemical and biological parameters are analysed at each of the monitoring stations. Sampling is done on a frequency prescribed by Central Pollution Control Board, New 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 -IX- A & 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 meets the standards prescribed for surface water quality under class 'C' (Designated best use for the drinking water source with conventional treatment followed by disinfection).

4.3.1.2. THE THAMIRAPARANI RIVER

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

The water quality study conducted during the year 2004-2005 shows that the level of pH values varied from 6.2 to 8.5 and the average values of the bio-chemical oxygen demand (BOD) varied from 1.0 to 3.0 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'.

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 – IX D.

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 meets the standards prescribed for surface water quality under class 'B' and the details are furnished in the Annexure-IX D.

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 – IX E.

The total coliform, Bio-chemical oxygen demand (BOD) and faecal coliform in Udthagamandalam lake are found to exceed the standards prescribed due to the surface run off and sullage discharge into lake either directly or indirectly.

In general, the water quality of the Yercaud and Udthagamandalam lakes meets the standards prescribed for surface water under class 'C' except Kodaikanal which meets the standards prescribed under Designated Best Use class 'B'

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	8
Cooum	11	2
Buckingham canal	10	12
Otteri Nullah	8	5

During the year 2004-2005, 1115 samples were collected and analysed at the Advanced Environmental Laboratory, Chennai.

4.5. MONITORING OF 17 CATEGORIES OF HIGHLY POLLUTING INDUSTRIES

The TNPCB has a special monitoring cell at its head office, Chennai to monitor the 17 categories of highly polluting industries, specified by Government of India. In Tamilnadu, 192 large and medium industries have been identified under 17 categories of highly polluting industries and these industries are being closely monitored. The details of highly polluting industries are given in Annexure - X.

4.6. OZONE MONITORING CELL

Ozone Monitoring Cell has been established in the head office, Chennai as per G.O. Ms. No. 212 dated 29.6.95. The main objectives are:

- To Survey, identify and to have an inventory of the industries in the State, producing or consuming Ozone Depleting Substances (ODS).
- Estimate the present demand and make future projections.
- Study the scope of the application of environmental friendly substitutes.
- Commit to phase-out Ozone Depleting Substances by the year 2010 for essential uses as agreed to by all the countries.

The Board has conducted a detailed survey of industries in the State producing or consuming ozone-depleting substances. From the survey, 54 industries in the State have been identified to consume ozone-depleting substances. Whenever the new industries approach the Board for consent, the consent orders are being issued with a condition that they should not use the ODS. The identified industries have been suggested on the adoption of alternatives. Government of Tamilnadu in G.O Ms No 232 E&F(EC2) Dept dated 30.12.2002 have formed a standing committee for the implementation of Montreal protocol for phasing out ODS.

4.7. 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 2004-2005 are shown at Annexure - XI, XII, XIII.

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 29,131 industries and closure orders to 4,278 industries for not complying with the conditions prescribed by the Board. During the year 2004-2005, 1123 show cause notices and 130 closure notices 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 cases.

6.3 APPELLATE AUTHORITY

During 2003, the Government of TamilNadu reconstituted the appellate Authority under the chairmanship of Hon'ble Justice Thiru.S.S.Subramani, retired judge of Madras High Court vide G.O.Ms.No.124 E&F (ECI)Dept. dated 20.6.2003.

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 as amended in 1988 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 2004-2005, 121 appeals have been filed by the aggrieved units in the Appellate authority and the said authority disposed 78 appeals.

7.1 BOARD MEETINGS

Seven meetings of the Board were held during the period from April 2004 to March 2005.

These details are listed below:

Sl.No.	No.of subjects placed	Meeting Nos	Date of meeting
1	17	203	8.4.2004
2.	52	204	22.6.2004
3.	46	205	27.8.2004
4.	20	206	19.10.2004
5.	3	207(Spl.Board.meeting)	4.11.2004
6.	43	208	9.2.2005
7.	21	209	4.3.2005

7.2 IMPORTANT DECISIONS TAKEN DURING THE YEAR 2004-2005

- The Board decided to approve the modification in the validity period of renewal of consent order being issued to medium scale of Red categories of industries from 1st October to 30th September of the next year.
- The Board decided to approve the siting criteria of the existing and new proposed stone crushing units with the date of effect from 10.5.99, the date of the Hon'ble Supreme Court order, defining the existing stone crushing units.
- The Board decided to approve the proposal to construct an office complex with ground plus three floors in the site at Survey No. 1/2 at Arumbakkam Village at a cost of Rs.75 lakhs for office of District office Chennai.
- The Board decided to approve the enhancement of the legal fees from the present rate of Rs.600/- to Rs.750/- for each WP/WA and clerical and miscellaneous expenses from the present rate of Rs.100/- to Rs.250/- for each WP/WA/WMP/CMP.

- The Board decided to approve the proposal of reimbursement of Rs.12 lakhs (Rupees Twelve lakhs only) from Tamilnadu Pollution Control Board's fund to the Principle Chief Conservator of Forests towards the maintenance assistance of Green Cover plots in wastelands in 20 districts during 2002-2003 as per the G.O. (D) No.390, Environment and Forests Department, dated 31.12.2002.
- The Board decided to collect the tariff for allotment of Tamilnadu Pollution Control Board auditorium for conducting programmes by various organisations as detailed below in addition to the tariff already fixed vide B.P.No.60 dated 4.9.99
 1. The Auditorium may be allotted at free of rent to Government Departments, Government Undertakings, NGOs taking into account the nature of the programme/ seminar, at the discretion of the Chairperson.
 2. The current consumption charges of Rs.3000/- (per day) will be collected from user NGOs/Government Undertakings who are conducting Seminar/Conference relating to Environmental Subjects even the Auditorium is provided free of rent. The current consumption charges are subject to revision as and when the tariff is raised.
- The Board decided to approve the proposal of providing Group Mediciam policy to the employees of Tamilnadu Pollution Control Board after calling for tenders from insurance Agencies, instead of paying for extension of free medical treatment at Government hospitals.
- The Board decided to approve the proposal of grant of Rs.1.00 lakhs each to 30 District Collectors in Tamilnadu to convert the important pilgrim centres as "Eco-friendly towns" and it will be met from the Board's funds.

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 during the year 2004-2005.

8.2 ENVIRONMENTAL TRAINING INSTITUTE

An Environmental Training Institute (ETI) has been established with financial assistance from DANIDA, Denmark in the year 1994 at head office, Guindy, Chennai. It is guided by a steering committee chaired by Chairman, TNPCB. An advisory council provides technical support. The main objective of the training institute is to impart training to the staff of the Board to make them competent and capable of monitoring/advising small, medium and large-scale industries on pollution treatment and prevention techniques suitable to their needs. Non-governmental organizations, local bodies and personnel from the industries are mobilised/ sensitized to the issues of environment 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.
- Improve environmental management capacity in the sector of industry and urban development.
- Develop the ability among professionals to communicate effectively.

During the year 2004-2005, this training institute has conducted 62 programmes and trained 2200 personnel in total.

ENVIRONMENTAL AWARENESS AND PUBLIC PARTICIPATION

An awareness cell is established in the head office, Guindy, Chennai to promote environmental awareness. Various awareness campaigns, workshops, rallies are being conducted regularly to highlight important environmental issues.

A special awareness campaign was launched against air and noise pollution during festival seasons such as Deepavali and Bhogi. The noise level monitoring and air quality survey were conducted during Deepavali in the important cities viz. Chennai Salem, Madurai, Coimbatore, Vellore, Hosur, Tiruppur, Cuddalore, Tirunelveli and Trichy. A special ambient air quality survey on pre-bhogi and post-bhogi days were conducted in Chennai at seven places viz. Anna Nagar, Besant Nagar, Kilpauk, Royapuram, Thiagaraya Nagar, Vallalar Nagar and Vyasarpadi. These campaigns were quite successful.

Awareness programmes are on broadcast regularly through Anna F.M. of Anna University every month.

On request of Director of Town Panchayats and Commissioner of Transport, the Awareness cell has conducted theme based programmes on Solid Waste Management and Road Safety and Vehicular Pollution through out Tamil Nadu.

Environmental awareness programmes and workshops on solid waste management, protection of ozone layer, rain water harvesting and road safety and vehicular pollution were conducted to commemorate Ozone Day, awareness programme has been conducted at Meenakshi College for women and also a Drawing competition was held for students on 16-9-2004.

During the year 2004-2005, about 60 awareness programme were conducted by awareness team of TNPCB, which consists of TNPCB's own employees.

OTHER IMPORTANT MATTERS DEALT WITH THE BOARD

10.1 PUBLIC HEARING

Some specific categories of industrial projects require environmental clearance from the Ministry of Environment and Forests, Government of India after obtaining NOC from the State Pollution Control Board. The environmental clearance involves environmental public hearing as per the notification issued by MOEF, GOI. Public hearing panels are constituted to effect public hearing. The panels, headed by the District collector, after conducting public hearings inviting suggestions and objections, from the public, will send its views to the Board. No Objection Certificates are issued to the industries to enable them to approach the Ministry of Environment and Forests, Government of India to get the environmental clearance. Public Hearings on various project are conducted in the respective collectorates, since May 1998. As on 31.3.2005, 293 public hearings have been conducted and During 2004-2005, 45 public hearings were conducted.

10.2 GREEN AWARDS

The Government of Tamilnadu has instituted green awards to encourage 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. Green awards were distributed to the District collectors of Kanyakumari, Cuddalore and Salem for the year 2004 by the Hon'ble Chief Minister of Tamilnadu.

10.3 ENVIRONMENTAL ATLAS

The TNPCB in co-ordination with CPCB is implementing the Programme of Zoning Atlas on environmental features. Initially, the Zoning Atlas was taken up for Thiruvallur and Kancheepuram Districts at a cost of Rs 6 lakhs and the same was executed by the Centre for Environmental Studies, Anna University.

Subsequently, the preparation of districtwise Environmental Atlas for the districts of Coimbatore, Vellore and Thoothukudi with a budget estimate of Rs 8.25 lakhs was taken up. During the year 2001-2002, the project on Environmental Management Plan for Chennai city was taken up at a cost of Rs 5 lakhs.

During the year 2004-05, as per the revised guidelines of CPCB, the District Environmental Atlas for the districts of Thiruvallur, Kancheepuram, Coimbatore, Vellore and Thoothukudi and State Environmental Atlas of Tamilnadu have been taken up at a cost of Rs 6.8 lakhs/-.

It has been proposed to undertake the project on preparation of District Environmental Atlas for the districts of Cuddalore and Villupuram during the financial year 2005-2006.

10.4 WATER CONSERVATION

As a water conservation measure, three major industries in Manali and Basin Bridge area are utilising about 25mld 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, almost all the Large medium and scale have set up rain water harvesting systems. The roof top rainwater harvesting system has also been provided in the offices of the Tamilnadu Pollution Control Board.

10.5 CLEANER TECHNOLOGIES

The TNPCB has involved in promoting a holistic approach of environment protection by going in for cleaner technologies options rather than mere end of pipe treatment. With active support and encouragement from the Board, 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.

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. 2 distilleries are not in operation at present. A major textile dyeing unit at Tiruppur has also provided a salt recovery plant for reusing 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 tannery 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 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 certificates which are awarded after auditing the environmental management systems by an external agency. During the last two years 183 industries have obtained ISO 14001 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 industrial premises. Further, the TNPCB is also coordinating with Forest department, NGOs, and local bodies for implementing a centrally sponsored scheme of greening of Tamilnadu by planting and maintaining of saplings in five corporations namely Chennai, Coimbatore, Salem, Madurai and Tirunelveli and in all municipalities of Tamilnadu.

10.11 APPLIED RESEARCH AND DEVELOPMENT

As per the provision in the section 17 of Water (Prevention and Control of Pollution) Act 1974, the Board has constituted Applied Research and Development Evaluation Council of TNPCB with expert members in the field of science and engineering to evaluate the research project proposals received from various reputed research institutions and recommend to the Board for sanction of funds. As per the recommendations of the Council the TNPCB has resolved the issues in connection with research projects funded by TNPCB since 1998. The total research grant sanctioned by TNPCB amount to be Rs.45.38/- lakhs.

10.12 EXTERNALLY AIDED PROJECTS

The TNPCB has entrusted a project to the U.S Trade and Development Agency (USTDA) to conduct a feasibility study on industrial waste water recycling and reuse for the tanneries in the Vellore Region. The entire project cost is US \$ 1,80,100 (approximately Rs.81 lakhs). The study has been completed and the final report from the agency appointed by the USTDA is awaited.

10.13 COMPLAINT CELL

Due to the increased environmental awareness and awareness on Pollution Control Legislations, 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. For easy access of the public and others, a 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 have been taken then & there. For attending environmental related complaints especially in Chennai city, a 'Green Squad' under the control of District officer, Chennai has been formed. Two patrolling vehicles and two two-wheelers have been provided to the Green Squad which visits the complainant immediately as and when received and intimate the facts to the District officer, Chennai for action.

ANNEXURE - I
LIST OF BOARD MEMBERS

LIST OF BOARD MEMBERS Period from 1.4.2005 to 31.3.2005.				
Sl.No.	NAME & ADDRESS	Position	From	To
1.	Tmt. GIRIJA VAIDYANATHAN, I.A.S. Chairperson, Tamilnadu Pollution Control Board, 76 Mount Salai, Guindy, Chennai -600 032.	Member	12.11.2003 FN	31.3.2005 AN
Official nominated by the Government				
1.	Thiru. S.PELANGO VAN, I.A.S. Secretary to Government, E&F Department, Chennai 600 009.	Member	16.11.2002 FN	21.06.2004 AN
2.	Thiru. AJAY BHATTACHARYA, I.A.S. Secretary to Government, E&F Department, Chennai 600 009.	Member	22.6.2004 FN	13.12.2004 AN
3.	Thiru. SURJIT .K. CHAUDHARY, I.A.S. Secretary to Government, Environment and Forests Department, Fort. St. George, Chennai -600 009	Member	14.12.2004 FN	Till date
4.	Dr. K. SATYAGOPAL, I.A.S. Spl. Secretary to Government, Finance, Chennai 600 009.	Member	12.6.2001 FN	15.8.2004 AN
5.	Thiru. ASHOK KUMAR GUPTA, I.A.S. Spl. Secretary to Government, Finance Department, Fort. St. George, Chennai 600 009.	Member	19.8.04 FN	Till date.
6.	Thiru.PR.BINDHUMADHAVAN, I.A.S. Commissioner of Town and Country Planning, Chennai 600 002	Member	5.1.2004 FN	2.6.2004 AN
7.	Thiru.B.ANAND, I.A.S. Commissioner of Town and Country Planning, Chennai 600 002	Member	3.6.2004 FN	30.1.2005 AN
8.	Thiru.G.SANTHANAM, I.A.S. Commissioner of Town and Country Planning, Chennai 600 002	Member	31.1.2005 FN	Till date.
9.	Thiru.HEMANT KUMAR SINHA, I.A.S. CMA, Chepauk, Chennai 5.	Member	28.9.2002 FN	26.8.2004 AN
10.	Dr. P.KRISHNAMURTHY, Director of Public Health Preventive Medicine, Chennai 6	Member	1.4.2001 FN	31.5.2004 AN

11.	Dr. P.K.RAJENDRAN, Director of Public Health and Preventive Medicine, Chennai 6	Member	1.6.2004 FN	1.11.2004 AN
12.	Dr. S.MURUGAN, Director of Public Health and Preventive Medicine, Chennai-600 006	Member	2.11.2004 FN	Till date
13.	Thiru.K.A.MOHAMED AZIZ, Chief Inspector of Factories, Chepauk, Chennai 600 005.	Member	27.8.2004 FN	Till date.
REPRESENTATIVES FROM AGRICULTURE, FISHERIES AND INDUSTRIES DEPARTMENT				
1.	Dr. ZACKRIAH SAIT, The Regional Chairman(South Region) Leather Export Promotion Council, M/s.Presidency Kid Leather Ltd., 476 Kilpauk Garden Road, Kilpauk, Chennai 600 010	Member	2.6.2001 FN	Till date
2.	Thiru.R.NARAYANASWAMY, Member, District Production Committee Member District Fertiliser Committee, No.8 First Street, Tharvazhi Village and Post, Ambur (Via), Vellore District	Member	27.8.2004 FN	Till date
3.	Thiru.PPICHIAIAH, Joint Director of Fisheries (Retired) No.3/14 Mahalakshmi Flats, A-II, Abdul Razak Street, Saidapet, Chennai 600 015.	Member	27.8.2004 FN	Till date.
REPRESENTATIVES OF GOVERNMENT UNDERTAKINGS				
1.	Thiru.S. KARUTHIAH PANDIAN, I.A.S. Managing Director, TWAD Board, Chepauk, Chennai 600 005	Member	17.5.2003 FN	Till date.
2.	Thiru.A.A.SADAGOPAN, B.E., M.SC, (Engg.) Member (Generation) Tamilnadu Electricity Board, Electricity Avenue, (NPKRR Maligai), 800, Anna Salai, Chennai-600 002	Member	15.12.2003FN	Till date.
1.	Thiru. N.VASUDEVAN, I.A.S. (Special Invitee), Director of Industries and Commerce, Chepauk, Chennai -600 005	Spl. Invitee	17.5.2003 FN	Till date.

2.	Dr.S.BALAJI, I.F.S. (Special Invitee) Director of Environment Department, Ground Floor, Panagal Building, Saidapet, Chennai 600 015.	Spl.Invitee	24.5.2000 FN	Till date
3.	Thiru. T. MEENAKSHI SUNDARAM, (Special Invitee), General Manager (P&D),SIPCOT, 194 Marshall Road,Chennai 600 008	Spl.Invitee	1.4.2001	Till date
Full-Time Member Secretary				
1.	Thiru.K.SANJEEVI, Member Secretary, Tamilnadu Pollution Control Board, Chennai -32	Member	1.12.2000 FN	31.3.2005 AN

ANNEXURE - II

LOCATION OF DISTRICT OFFICES

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

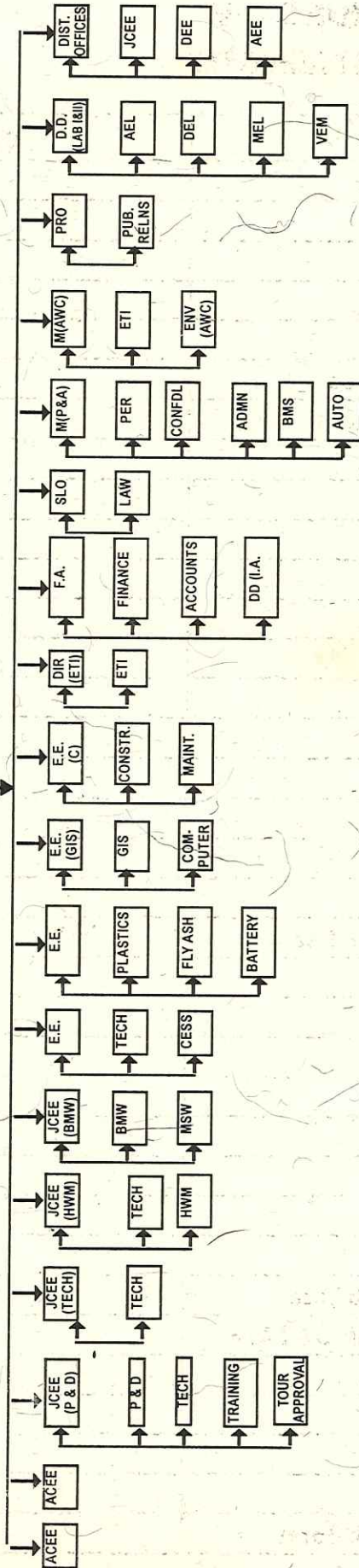


DISTRICTS

- | | | |
|--------------------|-------------------|------------------|
| 1. Chennai | 11. Cuddalore | 21. Madurai |
| 2. Tiruvallur | 12. Villupuram | 22. Virudhunagar |
| 3. KancheepUram | 13. Nagap.attinam | 23. Sivaganga |
| 4. Vellore | 14. Thanjavur | 24. Rallnad |
| 5. Thiruvannamalai | 15. Tiruvarur | 25. Dindigul |
| 6. Dharmapuri | 16. Coimbatore | 26. Theni |
| 7. Trichy | 17. Erode | 27. Tuticorin |
| 8. Perambalur | 18. Salem | 28. Tirunelveli |
| 9. Pudukottai | 19. Namakkal | 29. Nagercoil |
| 10. Karur | 20. The Nilgiris | 30. Krishnagiri |

ANNEXURE - III

CHAIRPERSON
MEMBER SECRETARY



- ACEE : Additional Chief Environmental Engineer
- JCEE : Joint Chief Environmental Engineer
- E.E. : Environmental Engineer
- E.E. : (GIS) : Environmental Engineer (GIS)
- E.E. : (C) : Executive Engineer (Construction)
- DIR (ETI) : Director (Environmental Training Institute)
- FA : Financial Adviser
- SLO : Senior Law Officer
- M(P&A) : Manager (Personnel and Administration)
- M (AWC) : Manager (Awareness Cell)
- PRO : Public Relations Officer
- DD (LAB) : Deputy Director (Laboratories)
- DD (IA) : Deputy Director (Internal Audit)
- AEL : Advanced Environmental Laboratory
- DEL : District Environmental Laboratory
- MEL : Mobile Environmental Laboratory
- VEM : Vehicular Emission Monitoring

- P&D : Planning & Development
- TECH : Technical
- BMW : Bio-Medical Waste Management
- HWM : Hazardous Waste Management
- MSW : Municipal Solid Waste Management
- GIS : Geographic Information System
- Constr : Construction
- Maint : Maintenance
- ETI : Environmental Training Institute
- IA : Internal Audit
- PER : Personnel
- DEE : District Environmental Engineers
- AEEs : Assitant Environmental Engineers

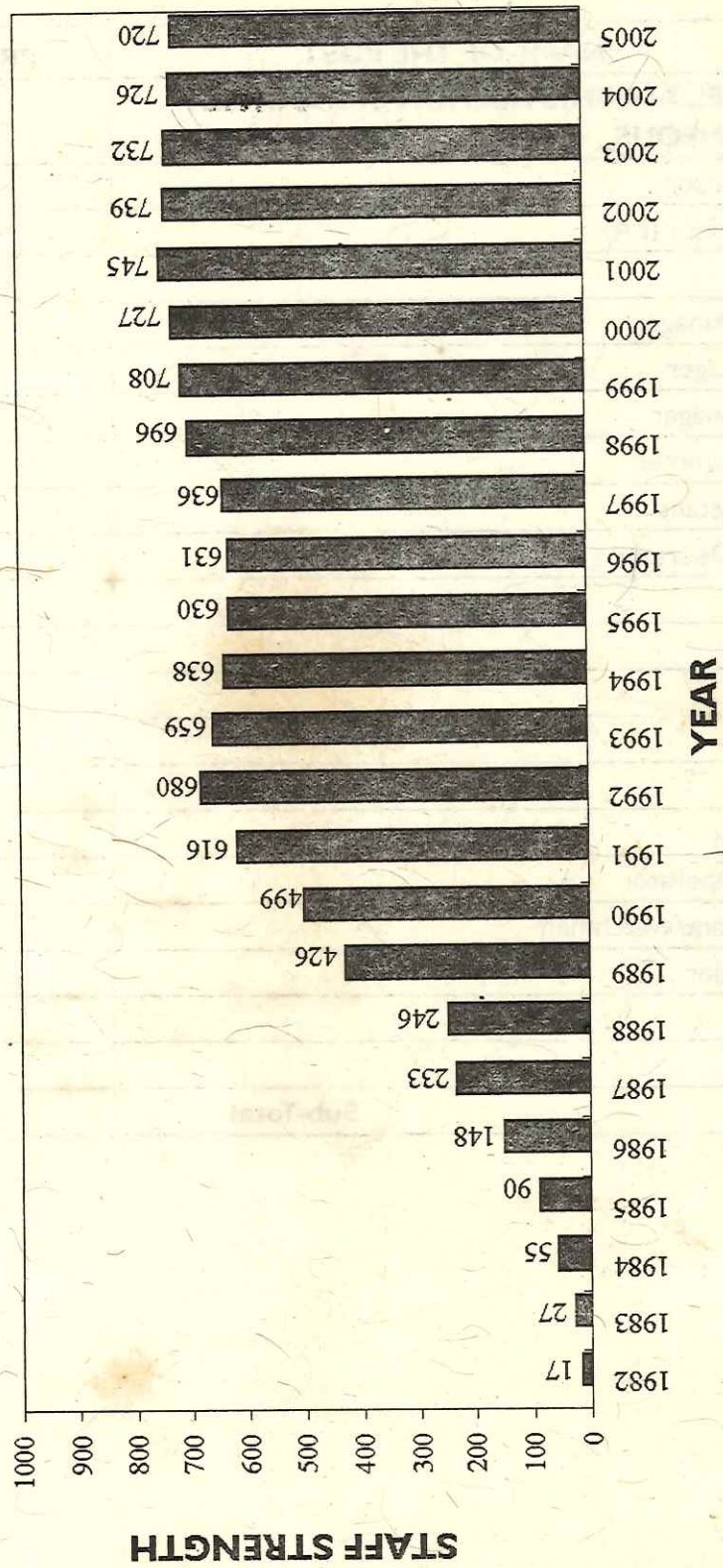
ANNEXURE - IV STAFF STRENGTH

NAME OF THE POST	STRENGTH
Chairperson	1
Member Secretary	1
Engineering Service	142
Scientific Service	81
Scientific Supporting Staff	89
Personnel/Administration/Accounts/Miscellaneous	406
Total	720
ENGINEERING SERVICE	
Additional Chief Environmental Engineer	1
Joint Chief Environmental Engineer (i/c)	5
District Environmental Engineer	3
District Environmental Engineer(i/c)	20
Executive Engineer(Construction)	1
Assistant Environmental Engineer	5
Assistant Engineer	100
Assistant Engineer (Automobile)	1
Assistant Engineer (Construction)	1
Assistant Draughtsman	3
Technical Assistant	2
Sub-Total	142
SCIENTIFIC SERVICE:	
Deputy Director (Labs)	2
Additional Manager	3
Deputy Manager (Lab)	20
Environmental Scientist	43
Senior Meteorologist	1
Meteorologist	2
Junior Environmental Scientist	10
Sub-Total	81
SCIENTIFIC SUPPORTING STAFF	
Electrical Supervisor	1
Field Assistant	61
Lab. Attendant	21
Electrician	6
Sub-Total	89

**ANNEXURE - IV
STAFF STRENGTH**

NAME OF THE POST	PRESENT STRENGTH
PERSONNEL/ADMINISTRATION /ACCOUNTS / MISCELLANEOUS	
Financial Advisor	1
Deputy Director (I.A)	1
Manager	2
Additional Manager	6
Deputy Manager	10
Assistant Manager	24
Junior Programmer	1
General Assistant	93
Data Entry Operator	3
Assistant	39
Steno Typist	30
Typist	57
Librarian	2
Driver	59
Record Clerk	12
Telephone Operator	2
Office Assistant/Watchman	61
Despatch Rider	1
Cleaner	1
Sweeper	1
Sub-Total	406

ANNEXURE - V
ORGANISATIONAL GROWTH FROM THE YEAR 1982 TO 2005



ANNEXURE - VI

DETAILS OF CETP SCHEMES AT VARIOUS PLACES OF TAMILNADU

SL. No	LOCATION OF CETP	DISTRICT	NO. OF MEMBER TANNERIES	QUANTITY OF EFFLUENT (in KLD)	COST OF PROJECT (Rs.in Cr)
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A. TANNERIES

I. Under Operation:

(1)	(2)	(3)	(4)	(5)	(6)
1	Pammal / Pallavaram	Kancheepuram	152	3000	7.03
2	Madhavaram-TALCO Industrial Estate	Thiruvallur	14	400	1.25
3	SIDCO-Ranipet, SIPCOT	Vellore	84	2500	2.95
4	Melvisharam	Vellore	32	3400	3.63
5	Thuthipet, Ambur	Vellore	40	1590	4.14
6	Ramji Nagar	Tiruchirapalli	4	525	0.60
7	Valayampet sector Vaniyambadi.	Vellore	108	3122	3.37
8	Udayenthiram, Vaniyambadi.	Vellore	10	220	0.70
9	Bakkalapalli, Pernampet.	Vellore	17	891	1.60
10	V.C Mottur, Ranipet	Vellore	76	4000	4.60
11	Dindigul	Dindigul	61	2533	5.00
12	Malligaithopu, Ambur	Vellore	8	1100	2.00
13	SIPCOT- SIDCO Phase -II, Ranipet	Vellore	15	1560	2.52
14	Melpudupet, Ranipet	Vellore	12	600	1.51

II. Under Progress:

15	Chettithangal, Ranipet.	Vellore	6	600	1.39
16	Perumalpet, Vaniyambadi.	Vellore	18	4000	11.02
17	Pudur, Vaniyambadi.	Vellore	5	600	1.42
18	Valayampet, Vaniyambadi	Vellore	10	1470	2.00
19	Mittalam, Ambur	Vellore	4	1500	2.59
20	Gundur	Tiruchirapalli	5	1775	2.85
21	Chengalvarayanpattarai, Vaniyambadi	Vellore	6	400	1.80
22	V.Kota Road, Pernampet.	Vellore	47	2500	2.87
23	Sembattu, Trichy.	Tiruchirapalli	14	2400	3.00
24	SIGC, Perundurai	Erode	25	2000	12.70

B. TEXTILE DYEING UNITS**I. Under Operation:**

(1)	(2)	(3)	(4)	(5)	(6)
1	Ayyampet -Muthialpet	Kancheepuram	65	1500	1.43
2	Andipalayam, Tiruppur.	Coimbatore	21	4500	2.15
3	Kunnangalpalayam, Tiruppur.	Coimbatore	19	4250	2.16
4	Angeripalayam, Tiruppur.	Coimbatore	80	8500	7.20
5	Chinnakarai, Tiruppur.	Coimbatore	31	5000	2.45
6	Kasipalayam, Tiruppur.	Coimbatore	19	4000	2.20
7	Mannarai, Tiruppur.	Coimbatore	32	4200	2.71
8	Veerapandi, Tiruppur.	Coimbatore	75	10000	6.75
9	Manickapurampudur, Tiruppur.	Coimbatore	11	1600	1.27
10	Karruppanpalayam	Karur	15	1300	1.63
11	R.K.Puram	Karur	48	1500	1.93
12	Andankoil	Karur	35	1900	2.14
13	Amaravathi Nagar	Karur	48	2400	2.44
14	Light House	Karur	46	1150	1.44
15	Thirumanilaiyur	Karur	57	2100	2.08
16	Sukkaliyur	Karur	66	1700	1.69
17	Sellandipalayam	Karur	137	2600	2.25
18	Perundurair	Erode	12	3600	10.32

II. Under Progress

19	Telungupalayam	Coimbatore	45	3710	4.61
20	Ponnaiyarajapuram	Coimbatore	31	3000	4.08

III. Under Initial Stages

21	Erumappalayam	Salem	27	1017	1.32
22	Vanavil nagar	Salem	24	900	1.26
23	Vanna Nagar	Namakkal	32	1200	1.47
24	Gugai	Salem	24	900	1.35
25	Komarapalayam	Namakkal	57	4959	3.39

C. HOTELS AND LODGES**I. Under operation**

1	Kodaikanal	Dindigui	90	820	1.30
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ANNEXURE - VII
FUNDS RECEIVED FOR THE CETP SCHEMES
[Rs.in Lakhs]

SL.NO.	NAME OF CETP	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- SIDCOPPhase -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- SIDCOPhase-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

Note :

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 57.56 lakhs has been released to M/s Kovai Telungupalayam CETP scheme from TNPCB fund.

ANNEXURE - VIII A

STATUS OF AIR QUALITY OF IMPORTANT CITIES/TOWNS OF TAMILNADU-UNDER NATIONAL AIR QUALITY MONITORING PROGRAMME(NAMP) ANNUAL AVERAGE CONCENTRATIONS OF AIR POLLUTANTS 2004-2005

Sl. No.	City & Location	Category	Annual Average Concentrations of Air Pollutants in $\mu\text{g}/\text{m}^3$														
			SO ₂			NOx			TSPM			RSPM					
			Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg			
1 CHENNAI																	
a)	Kathivakkam	Industrial	44	5	19	60	14	32	273	54	128	135	37	73			
b)	Manali	Industrial	48	7	20	80	14	34	365	77	181	165	40	95			
c)	Thiruvottiyur	Mixed	38	6	19	54	12	31	494	56	133	279	36	85			
2 COIMBATORE																	
a)	DCO	Mixed	15	4	7	65	25	39	314	36	134	140	19	53			
b)	Poniyarapuram	Residential	18	4	7	86	20	41	423	33	113	361	19	51			
c)	SIDCO	Industrial	29	4	9	90	11	48	552	42	192	159	28	84			
3 THOOTHUKUDI																	
a)	Raja Agencies	Industrial	57	13	20	59	9	17	137	14	62	96	9	39			
b)	AVM Buildings	Mixed	41	13	19	54	9	18	421	19	71	103	14	46			
c)	Fisheries college	Industrial	56	12	19	89	9	18	118	18	60	83	14	38			
4 MADURAI																	
a)	Fenner India Ltd Building	Industrial	55	8	18	54	12	28	277	64	136	44	22	52			
b)	Kunnathur chathiram	Mixed	17	5	9	48	11	22	1243	106	355	1038	70	177			
c)	Highways project Buildings	Residential	19	5	9	44	11	20	389	33	109	224	15	51			
5 SALEM																	
a)	Sowdeswari college building	Mixed	10	5	7	77	12	34	173	33	71	89	16	38			
Prescribed Standard:																	
i) Industrial			80			80			360			120					
ii) Residential, Rural & other areas(mixed)			60			60			140			60					

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

ANNEXURE - VIII B

CHENNAI AMBIENT AIR QUALITY MONITORING PROGRAMME STATUS OF AIR QUALITY DURING APRIL 2004 TO MARCH 2005

Station	ANNUAL AVERAGE CONCENTRATIONS OF AIR POLLUTANTS $\mu\text{g}/\text{m}^3$			
	SO ₂	NO _x	RSPM	TSPM
ANNA NAGAR	6	20	68	158
ADYAR	5	14	33	71
KILPAUK	7	36	97	308
THIYAGARAYANAGAR	8	30	77	197
VALLALAR NAGAR	8	33	87	255
Prescribed Standard	60	60	60	140

Note:

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

ANNEXURE - VIII C

STATUS REPORT OF TRICHY AIR QUALITY UNDER TRICHY AMBIENT AIR QUALITY MONITORING PROGRAMME (TAAQM) DURING 2004 - 2005

Station	Average Concentrations of Air Pollutants, $\mu\text{g}/\text{m}^3$			
	SO ₂	NO _x	RSPM	TSPM
Gandhi Market	15	19	90	208
Mainguard Gate	15	19	84	197
Bishop Heber College	11	15	53	72
Golden Rock	12	15	62	87
Central Bus Stand, Trichy	15	18	81	180
Prescribed Standard	60	60	60	140

Note:

SO₂ : Sulphur di oxide

NO_x : Oxides of nitrogen

RSPM : Respirable dust particulate matter (< 10 micron size)

TSPM : Total Suspended Particulate Matter

ANNEXURE - VIII D

STATUS OF VEHICLE TESTED AT TNPCB VEM STATIONS DURING 2004-2005

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	34553	28138	6475	4944	1531	19
2	Udhagamandalam	5247	4275	972	834	138	19
3	Dindigul	2303	2195	108	40	68	5
4	Palani	3783	3204	579	543	36	15
5	Chengalpattu	5454	3637	1817	1606	211	33
6	Katteri	2827	2141	686	610	76	24
	Grand Total	54167	43590	10637	8577	2060	20

ANNEXURE - IX A
RIVER WATER QUALITY RIVER CAUVERY (UNDER MINARS PROGRAMME) 2004-2005

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	Pathrakaliamman Koil	C	6.5 - 8.2	7.6	2.0	6	2	0.2	22	327	1668
2	Trichy U/S	C	8.1 - 8.3	7.7	2.0	-	-	0.07	-	290	950
3	Grand Anaicut	C	7.8 - 8.6	7.5	2.7	-	-	0.3	-	193	675
4	Sirumugai	C	6.3 - 7.9	7.6	2.0	14	4	0.2	48	458	1888
5	Bhavani	C	7.6 - 8.8	5.8	2.4	40	14	0.16	170	421	1673
6	Karanthattan Kudi	—	-	-	-	-	-	-	-	-	-
No Water flow											
7	Madathukulam	C	7.6 - 8.2	7.8	0.8	-	-	0.03	-	1979	6332
8	Erode	C	7 - 8.9	5.1	3.9	50	20	0.34	150	1918	6257
9	Bhavani Sagar	C	7.0 - 8.4	5.9	2.1	40	10	0.2	110	180	706
10	R.N. Pudur	C	7.4 - 8.7	6.4	2.5	-	-	0.24	-	225	791
11	P.Velur	C	7.4 - 8.9	6.6	2.5	-	-	0.74	-	195	805
12	Mohannur	C	7.4 - 8.9	6.9	2.4	-	-	0.66	-	202	911
13	Trichy D/S	C	7.3 - 8.0	6.2	4.0	-	-	0.13	-	290	760
14	Coleroon	C	7.0 - 8.9	7.4	2.0	14246	1518	0.08	3640	116	827
15	Pitchavaram	C	6.9 - 8.4	6.4	2.2	13051	1510	0.09	4040	183	573
16	Thirumukkudal	C	7.9 - 8.5	7.5	2.0	60	19	0.1	180	188	635
	Tolerance Limit		6.5 - 8.5	>4	3	600	400	50	-	2000	5000

Designated best use underclass 'C'

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 - IX B

RIVER WATER QUALITY - RIVER CAUVERY (UNDER GEMS PROGRAMME) 2004-2005

Sl.No.	Parameters	Musiri Ferry Gate	Musiri Bore Well	Mettur	Pallipalayam	Tolerance limit
1	pH	8.0 - 8.2	7.0 - 7.7	7.6 - 8.9	7.5 - 9.0	6.5-8.5
2	DO mg/l	7.9	7	7.1	6.1	>4.0
3	BOD mg/l	2	2	2	3.4	3
4	Cl mg/l	-	225	100	340	600
5	SO ₄ mg/l	-	20	103	41	400
6	NO ₃ mg/l	0.08	3.1	0.3	0.23	50
7	TH mg/l	-	460	300	240	—
8	FC MPN/100ml	260	105	126	920	2000
9	TC MPN/100ml	1350	590	506	3897	5000
10	DBU Class	C	C	C	C	—

Classification of water (Designated Best use)

- A - Drinking water source without conventional treatment but after disinfection
- B - Outdoor bathing
- C - Drinking water source with conventional treatment followed by disinfection
- D - Fish culture and wild life propagation
- E - Irrigation, industrial cooling and controlled waste disposal

- 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 - IX C
RIVER WATER QUALITY - THAMIRAPARANI
(UNDER MINARS PROGRAMME)-2004-2005

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	6.7 - 7.9	7.1	1.2	30	7	0.17	13	62	223
2	Kokirakulam	B	6.6 - 7.9	6.2	2.2	25	13	0.07	22	87	385
3	Papanasam	B	6.2 - 7.9	7.3	1.2	35	28	0.13	11	52	235
4	Murappanadu	B	6.8 - 7.9	6.7	1.1	-	-	0.1	-	12	37
5	Ambasamudram	B	6.2 - 7.9	7.4	1.4	25	5	0.16	5	36	179
6	Thiruvaidaimarudhur	B	6.3 - 7.8	7.1	1.8	20	7	0.18	14	11	32
7	Authoor	B	7.3 - 8.4	7.0	2.8	-	-	0.1	-	46	198
	Tolerance limit		6.5-8.5	>5	3	-	-	-	-	-	500

Designated best use underclass 'B'

- 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 - IX D
RIVER WATER QUALITY PALAR & VAIGAI RIVER BASIN
(UNDER MINARS PROGRAMME)2004-2005

Sl. No.	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
1	Palar	B	6.9 - 8.0	5.9	2	53	42	0.15	116	163	293
2	Vaigai	B	6.8 - 7.4	6.7	4.5	96	22	0.1	116	26	37
3	Tolerance limit		6.5-8.5	> 5	3	-	-	-	-	-	500

Designated best use underclass 'B'

- 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 - IX E
LAKE WATER QUALITY (UNDER MINARS PROGRAMME)2004-2005

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	5.7 - 8.2	4.2	10.2	73	14	0.44	120	2,579	11,085
2	Kodaikanal	B	6.1 - 8.0	5.5	7.9	21	4	0.09	22	56	101
3	Yercaud	C	6.4 - 7.9	7	2.1	53	4.5	0.11	81	126	604
	Tolerance Limit	B	6.5 - 8.5	> 5	3	-	-	-	-	-	500
		C	6.5 - 8.5	> 4	3	600	400	50	-	2000	5000

Designated best use underclass 'B'

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

ANNEXURE - X
DETAILS OF 17 CATEGORY OF INDUSTRIES IN TAMILNADU

As on 31.03.2005

SL.NO	Category	No. of Industries
1	Aluminium	1
2	Caustic Soda	3
3	Cement*	16
4	Copper Smelter	1
5	Distillery	15
6	Dyes & Dye Intermediate	1
7	Fertilizer	7
8	Integrated Iron & Steel	1
9	Tanneries	62
10	Pesticide	1
11	Petrochemicals	5
12	Basic Drugs & Pharmaceutical	17
13	Pulp & Paper**	5
14	Oil Refinery	3
15	Sugar	38
16	Thermal Power Plant	16
17	Zinc Smelter	0
	Total	192

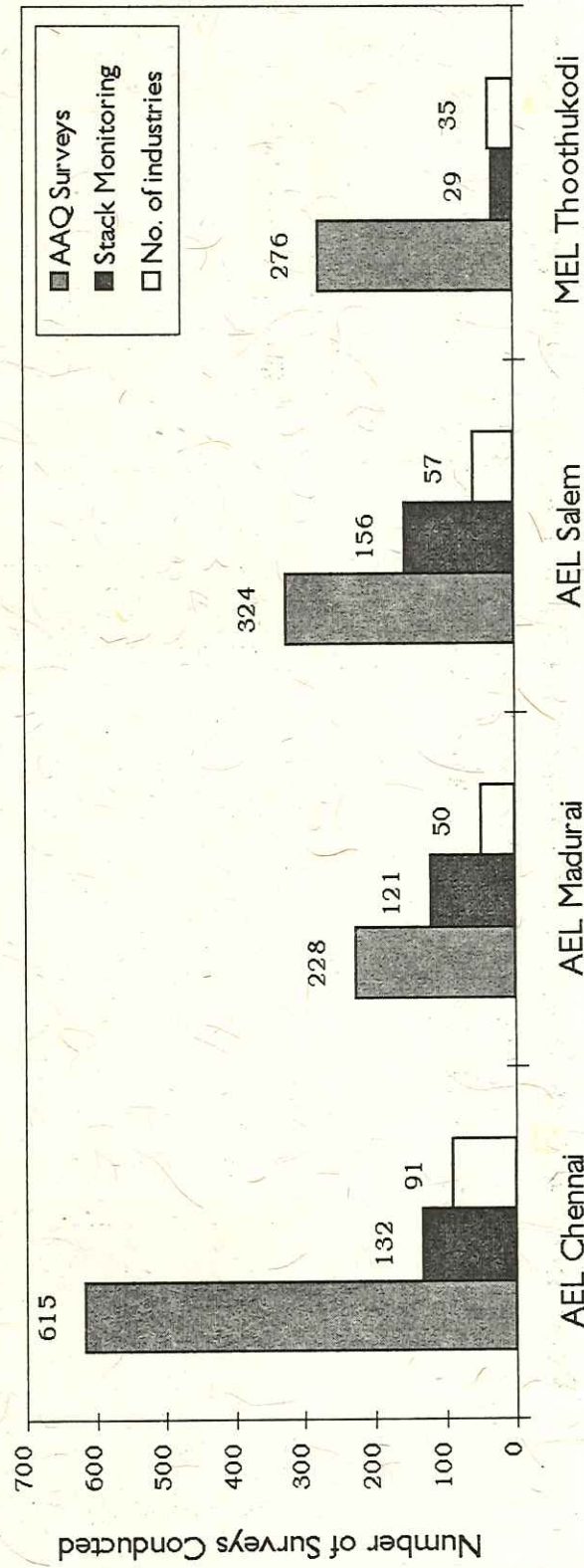
* 200 Tpd and above.

** 30 Tpd and above.

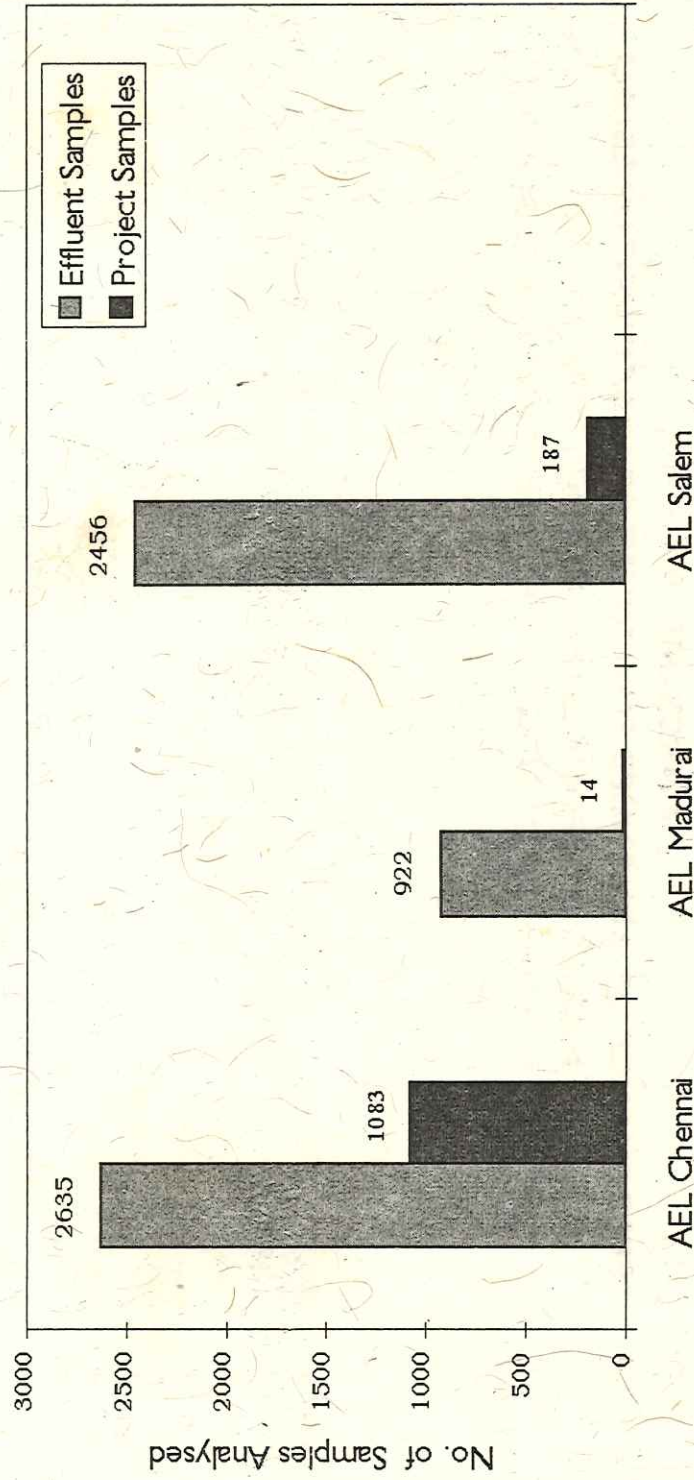
ANNEXURE XI
PERFORMANCE OF LABORATORIES (2004 - 2005)

Sl. 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	Complaints	No. of Stations		
		Regular	Legal	GEMS	MINARS	CCWW													Sludge/Soil	No. of Industries
Advanced Environmental Laboratory																				
1	Chennai	2,635	-	2	18	1,063	317	4,035	91	615	132	1,504	-	-	-	-	5	22	12	37
2	Madurai	922	-	-	14	-	-	936	50	228	121	730	-	-	-	-	50	535	1	-
3	Salem	2,456	-	28	159	-	20	2,663	57	324	156	432	-	-	-	-	50	548	9	65
District Environmental Laboratory																				
4	Ambattur	1,072	-	-	-	-	-	1,072	51	278	107	-	912	-	-	-	50	250	4	17
5	Coimbatore	600	-	-	-	-	-	600	32	151	62	-	558	-	-	-	25	130	8	65
6	Cuddalore	806	-	-	-	-	-	806	43	244	102	-	-	-	-	-	66	192	-	-
7	Dindigul	725	-	-	-	-	-	725	33	198	57	-	-	-	-	-	31	155	3	15
8	Hosur	904	-	-	-	-	-	904	66	347	154	-	-	-	-	-	66	490	3	27
9	Manali	283	-	-	-	-	-	283	37	190	113	-	-	-	-	-	34	175	-	-
10	Trichy	1,330	-	-	-	-	-	1,330	67	347	103	-	853	-	-	-	64	416	2	11
11	Tirunelveli	1,046	-	-	68	-	-	1,114	-	-	-	-	-	-	-	-	-	-	-	-
12	Tiruppur	1,133	-	-	-	-	-	1,133	45	225	103	-	-	-	-	-	41	233	7	106
13	Vellore	1,587	-	-	-	-	-	1,587	52	304	268	-	-	-	-	-	50	292	3	14
Mobile Environmental Laboratory																				
14	Thoothukudi	-	-	-	-	-	-	-	35	276	29	-	834	-	-	-	27	135	4	28
Total		15,499	-	30	259	1,063	337	17,188	659	3,727	1,507	1,504	3,466	853	-	-	559	3,573	56	385

ANNEXURE - XI (ii)
PERFORMANCE OF ADVANCED ENVIRONMENTAL LABORATORIES(AEL) /
MOBILE ENVIRONMENTAL LABORATORY(MEL)
NUMBER OF SURVEYS CONDUCTED DURING THE YEAR 2004 - 2005



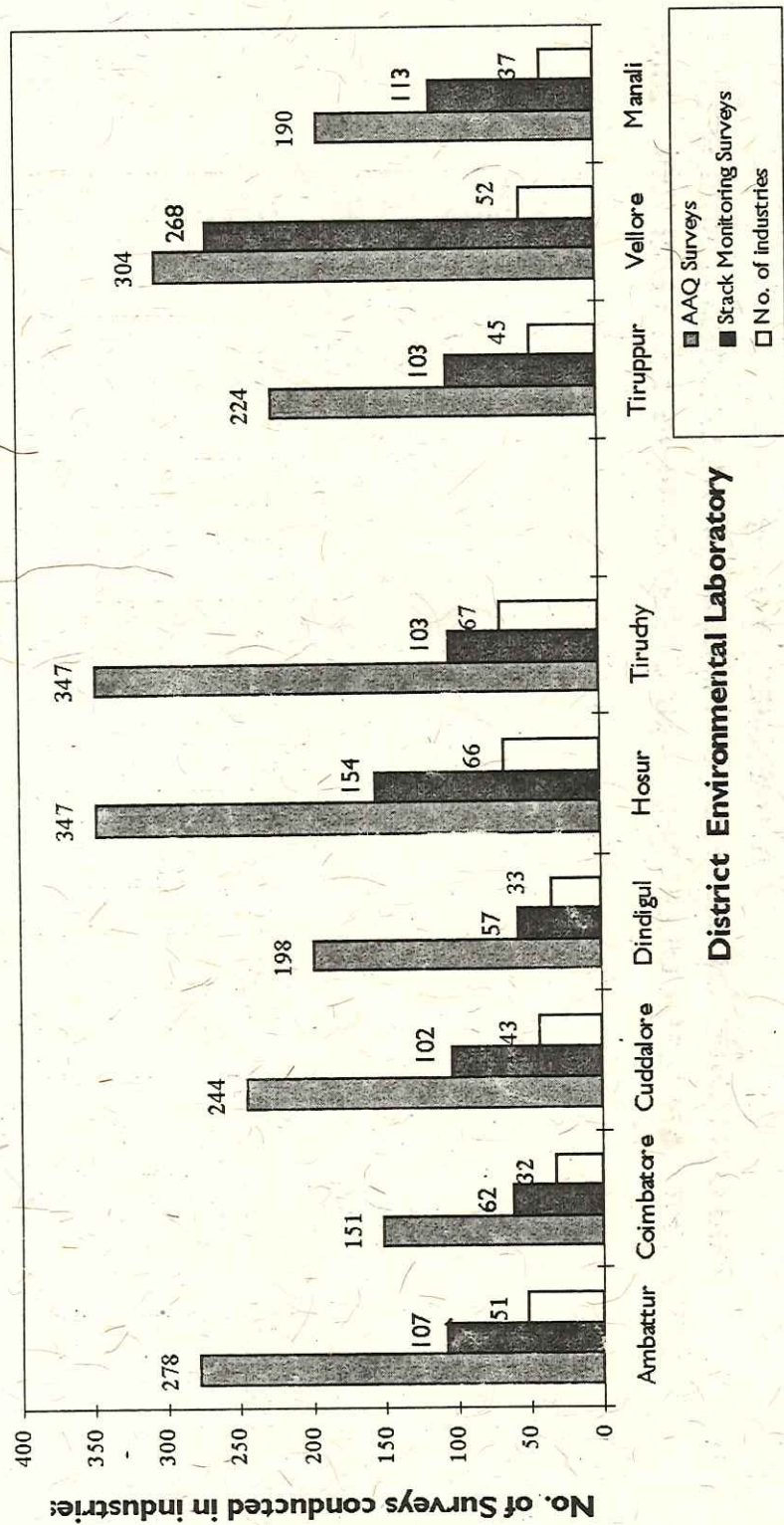
ANNEXURE - XI (i)
PERFORMANCE OF ADVANCED ENVIRONMENTAL LABORATORIES(AEL) /MOBILE ENVIRONMENTAL LABORATORIES(MEL)
EFFLUENT / PROJECTS-SAMPLES ANALYSED DURING THE YEAR 2004 - 2005



ANNEXURE - XII - (i)
PERFORMANCE OF DISTRICT ENVIRONMENTAL LABORATORIES(DEL)
EFFLUENT SAMPLES COLLECTED / ANALYSED DURING THE YEAR 2004 - 2005

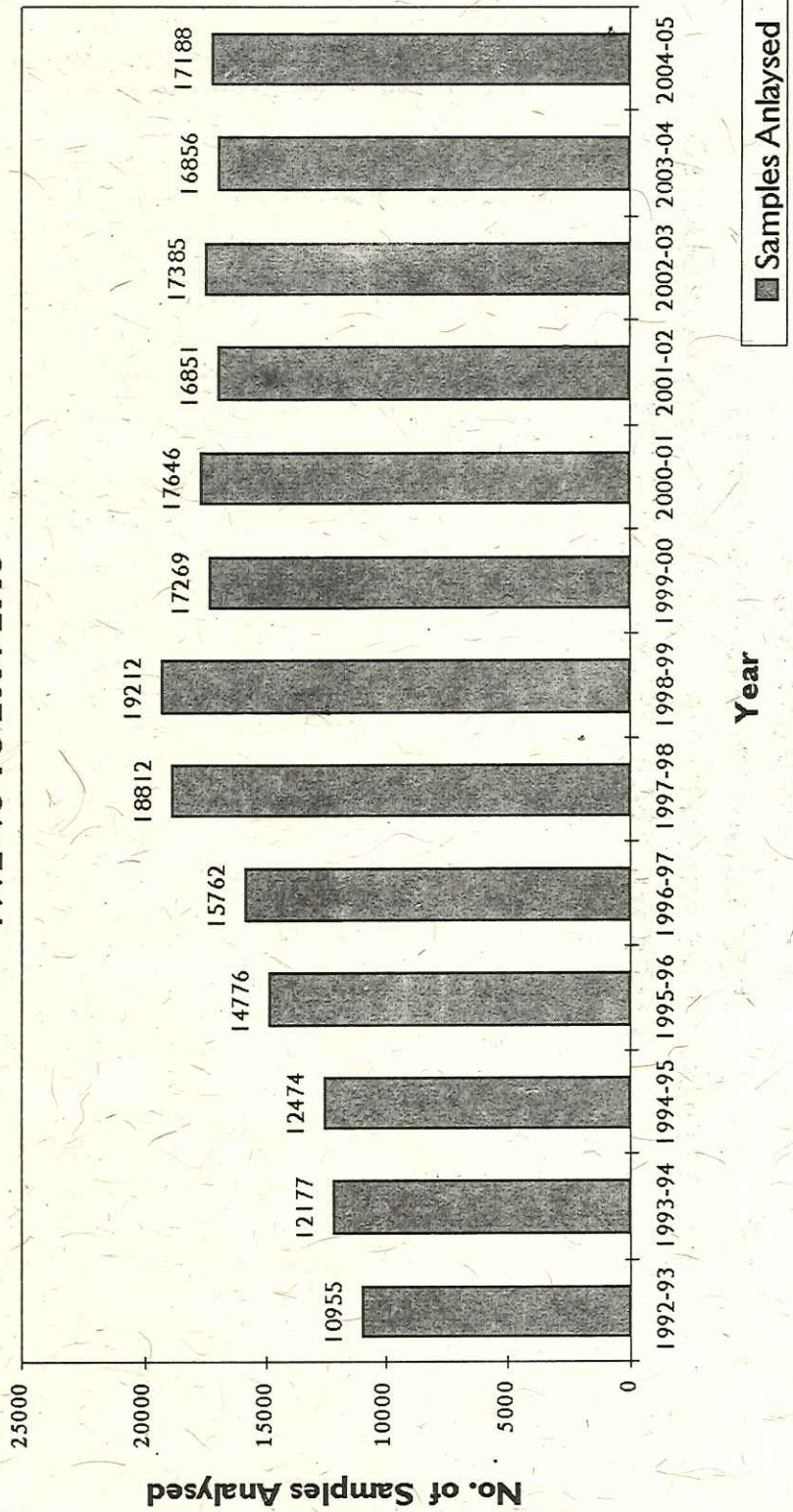


ANNEXURE - XII (ii)
PERFORMANCE OF DISTRICT ENVIRONMENTAL LABORATORIES (DEL)
NUMBER OF SURVEYS CONDUCTED DURING THE YEAR 2004 - 2005

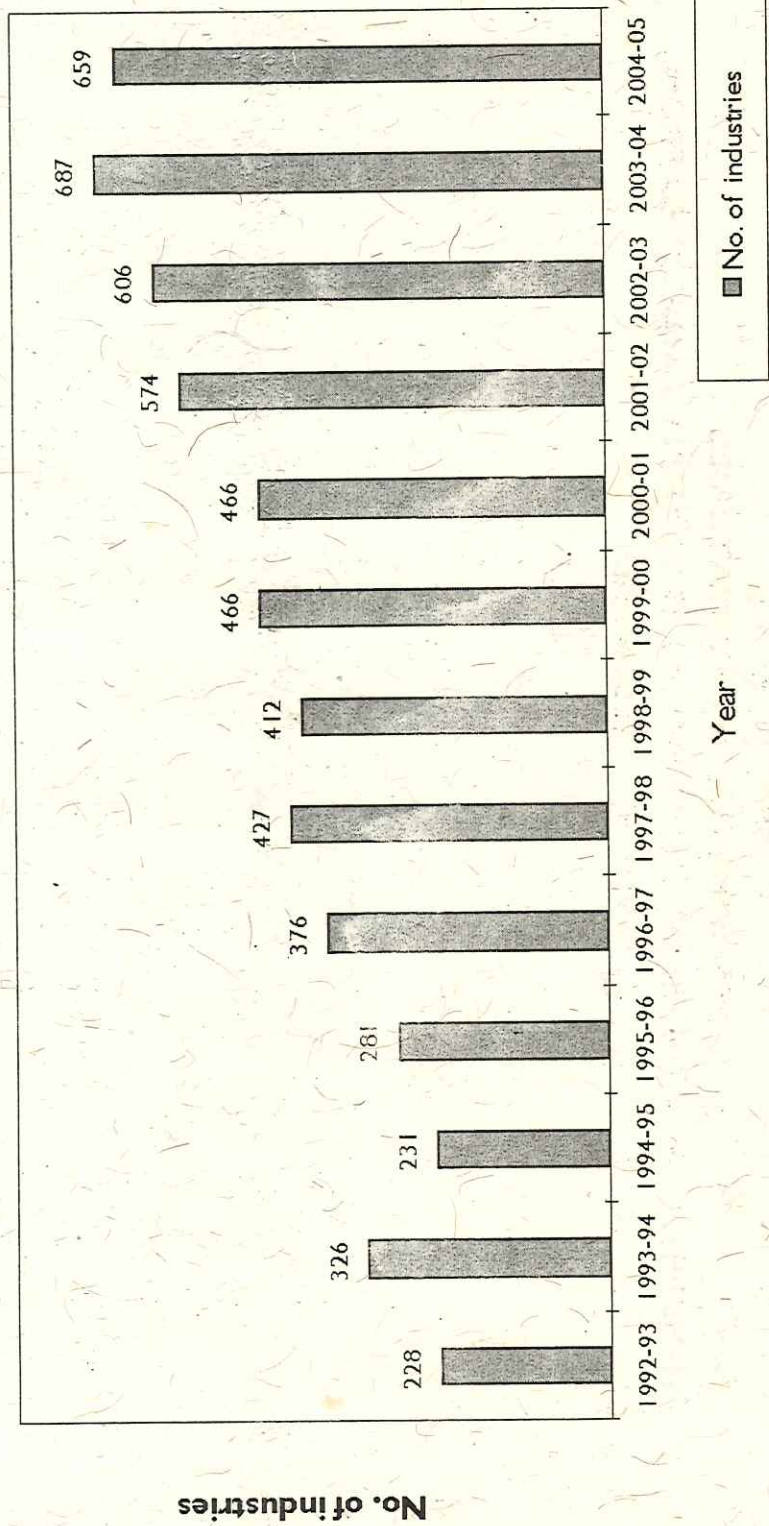


District Environmental Laboratory

ANNEXURE -XIII (i)
PERFORMANCE OF LABORATORIES
NUMBER OF SEWAGE TRADE EFFLUENT / WATER SAMPLES ANALYSED FROM
1992 -93 TO 2004-2005



**ANNEXURE -XIII-(ii)
PERFORMANCE OF LABORATORIES
NO OF INDUSTRIES WHEREIN AIR / STACK SURVEYS CONDUCTED
FROM THE YEAR 1992-93 TO 2004-2005**



ACCOUNTS

Dr. C.N.GANGADARAN

B.Com,FCA,MBIM (Lond.),Ph.D.

S.NEELAKANTAN

B.Com, FCA

R. THIRUMALMARUGAN

M.Com, FCA

G. CHELLA KRISHNA

M.Com, ACA, PGPM

**CNGSN & ASSOCIATES
CHARTERED ACCOUNTANTS**

"Agastyar Manor"

New No.20,Old No.13,Raja St.,

T. Nagar, Chennai-600 017.

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D. KALAIALAGAN

B.Com., FCA

B. RAMAKRISHNAN

B.Com.,FCA,Grad.CWA

V. VIVEK ANAND

B.Com, FCA

**AUDITOR'S REPORT TO THE MEMBERS OF THE TAMILNADU
POLLUTION CONTROL BOARD FOR THE YEAR ENDED 31st MARCH
2005**

We have audited the attached Balance Sheet of Tamil Nadu Pollution Control Board as at March 31, 2005 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

- i) Coverage of Internal Audit as explained in point No.V(b) of the Notes to the accounts.
- ii) Old advances amounting to Rs.4,83,250/- require to be adjusted as explained in point V (c) of the notes to the accounts.
- iii) Reconciliation of Fixed Assets account as appearing in the General Ledger with their break up balances as explained in point No. V d) of Notes to accounts.

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, 2005 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 2005
- (c) In the case of the Income and Expenditure account of the excess of Income over Expenditure for the year ended 31st March 2005

Place : Chennai

Date : 23.09.2005

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.
		OPENING BALANCE				
54700183.22		a. Bank	13604020.36			
29400.00		b. Cash	20680.00			
7166279.40		c. Funds in Transit	1239475.50		14864175.86	
		I. GRANTS RECEIVED				
	-	a. From Government		0.00		
	-	b. From other Agencies	4000000.00			
440557.00		c. Schemes	3000000.00		7000000.00	
		II. FEES				
		a. Consultant Registration Fees		0.00		
851910.00		b. Cost of Application	934176.00			
104002562.50		c. Consent Fees	95250353.50			
65654359.47		d. Cess Collection	68853309.65			
301000.00		e. Fees for handling H. Waste	620120.00		165657959.15	
		III. Services & Rental Charges (Lab Analysis Charges Sch - A)			34474423.30	
36156310.00						
		IV INTEREST ON INVESTMENT			40023015.00	
53799995.00						
		V. MISCELLANEOUS				
5923908.00		a. Others (Schedule-B)	4001296.50			
35824662.00		b. Cess Re-imburement	53187176.00			
200000.00		c. CPCB for Green Belt Scheme		0.00	57188472.50	
365051126.59		C/o			319208045.81	

CONTROL BOARD, CHENNAI - 600 032.

the year ended 31 March 2005.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		PAYMENTS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
		I. CAPITAL EXPENDITURE				
		a. Assets - Land Advance and Building Development	85606.00			
249200.00		b. Laboratory Equipment	39692.00			
532251.00		c. Vehicles	48220.00			
40150.00		d. Furniture	18590.00			
188878.00		e. Office Appliance	28906.00			
878322.00		f. Library Books	152431.00			
37834.00		g. Electrical Installation	509899.00		883344.00	
13546.00						
		II. REVENUE EXPENDITURE				
		A. ADMINISTRATIVE				
		i. Salaries	89105179.05			
85538725.70		ii. Pension & Gratuity Contribution	6702046.00			
9094869.00		iv. Surrender Leave Salary	1536309.00			
725328.00		v. Bonus	0.00			
-		vi. Medical Expenses	1461659.50		98805193.55	
1506504.50						
		B. BOARD LABORATORY				
		i. Running Expenses of Lab.	220784.00			
115978.00		ii. Lab. Chemicals etc.,	415040.00		635824.00	
975574.00						
99897160.20		C/o			100324361.55	

CONTROL BOARD, CHENNAI - 600 032.

the year ended 31 March 2005.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		PAYMENTS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
99897160.20		B/F			100324361.55	
4353106.45		C. Running & Maintenance of Vehicle			4579698.30	
		D. MAINTENANCE & REPAIRS				
1364539.00		i. Buildings, land & Rent	1611301.00			
32161.00		ii. Furniture & Fixture	5240.00			
841927.00		iii. Scientific instruments	1141931.00			
579426.00		iv. Office Appliance	441694.70			
54543.00		v. Electrical Installation	384947.00			
427643.00		vi. Insurance of Assets	424646.00			
4400.00		vii. Other Assets	3900.00		4013659.70	
16615.00		E. Scheme				0.00
		F. Fees to Consultant and Specialists				0.00
33750.00					5000.00	
172536.00		G. Law Charges			257971.00	
25616.00		H. Expenses for audit			27750.00	
		I. CPCB for Green Belt Scheme paid by Board				0.00
0.00						0.00
		J. CETP REFUND TO CPCB				0.00
40852132.60		III MISCELLANEOUS (Schedule-E)	35642385.57			
64301762.00		a. Cess Remittance	70889839.00		106532224.57	
		IV ADVANCE (Schedule - F)			3635700.00	
3033395.00		V Deposits				
		a. Short Term Deposits	628840000.00			
745486985.00		b. Others (Schedule - G)	6467212.50		635307212.50	
11079946.48						
		VI CLOSING BALANCE				
		Bank	27348381.29			
13604020.36		Cash	26350.00			
20680.00		Funds in Transit	4066470.90		31441202.19	
1239475.50						
987421819.59		Total			886124779.81	

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

Sd / -
Surjit K. Chaudhary I.A.S.
Chairman (a/c)

Sd / -
Partner

ANNUAL STATEMENT
Income and Expenditure Account
See Rules 36 of Tamil Nadu Water

PREVIOUS YEAR		EXPENDITURE	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
		REVENUE EXPENDITURE				
		A. Administrative				
		i. Pay of officers	1802355.00			
2022777.00		ii. Pay of Establishment	51370363.00			
50264976.50		iii. Allowance & Honororia (Schedule-H)	41253749.50			
36830557.00		iv. Contribution to Gratuity & Provision for Pension	46988332.60		141903164.10	
18620458.00		v. Surrender Leave Salary	488364.00			
725328.00						
1887011.52		B. Running Expenses of Labs.			972732.34	
		C. Running and Maintenance of Vehicle (Schedule-I)			4740961.05	
4602692.70		D. Maintenance and Repairs				
		i. Furniture & Fixtures	6987.00			
34411.00		ii. Lab.Equipments & Instruments	2532852.00			
1445898.00		iii. Office Appliance	496600.70			
617539.00		iv. Electrical Installation	414547.00			
57095.00		v. Building	1618383.00		5069369.70	
1469855.00		E. Fees to Consultants and Specialists			5000.00	
35000.00		F. Law Charges			278050.00	
179975.00		G. Depreciation (Form XV)			10116113.20	
13285956.42		H. Miscellaneous (Schedule-J)			31926925.37	
44833918.10		I. Fees for Audit.			27550.00	
27750.00		J. Prior Period Expenditure			-	
87982024.36		K. Excess of income over Exp.trf to B/S			154709163.24	
26747344.90						
291670567.50		Total			349749029.00	

Sd / -
Amelia G. Dare B.A.,
Financial Adviser

Sd / -
R. Ramachandran M.E.(PH)
Member Secretary. (i/c)

Chennai - 600 032
Date: 23 /09/2005

OF ACCOUNT

for the year ended 31st March 2005.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		INCOME	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
		I. Grants received				
	-	i. From Government		-		
	-	ii. From other Agencies		-		
	-			-		
	-	Less: Amount utilised for Capital Expenditure		-		
	-	Net Grant available for Revenue Expenditure		-		
141864555.50		II. Fees (Schedule-K)			161634478.50	
37147397.00		III Services & Rental Charges (Schedule-L)			37726224.30	
809673.00		IV Miscellaneous Receipts				
35824637.00		i. Others (Schedule-M)	1650670.50			
		ii. Cess Reimbursement	53187176.00		54837846.50	
76024305.00		V Interest on Investment			83565211.60	
-		VI Prior Period Adj.Account			11985268.10	
291670567.50		Total			349749029.00	

Sd / -
Surjit K. Chaudhary I.A.S.
Chairman (a/c)

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

Sd / -
Partner

ANNUAL STATEMENT

Balance Sheet as
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				
		i. Grants received from Govt. for capital exp. upto 01.04.2004	50526922.18			
50526922.18		ii. Grants received from Govt. for capital exp. During the current year and utilised upto 31.3.2005		-		
		iii. Grants received towards specific schemes from other agencies	4000000.00		54526922.18	
		b. Excess of Income over Expenditure				
		i. As at 01.04.04	800603455.45			
		ii. Less: Amount transferred to Depreciation Fund	(10116113.20)			
796327552.73			790487342.25			
(22471442.18)		iii. Add: Surplus during the year	154709163.24		945196505.49	
26747344.90						
		B. Earmarked Fund (Schedule-T)				
		a. Pension Fund	214121500.00			
179200610.00		b. Depreciation Fund	181791400.45			
161957818.25		c. CETP Development Fund	5766500.00			
8649500.00		d. Earn leave encashment Fund	36632649.00		438312049.45	
19646730.00						
		C. Other Deposits				
		a. Deposits for supply & works (Schedule -N)	4499529.33			
4138219.83		b. Refundable P.G. Deposits	33935126.05			
34400126.05		c. Eco Development Measure	1225000.00		39659655.38	
		D. Amount Due				
		a. Cess Payable	1425013158.78			
1167707548.89		Less: Provision	(2634721.24)		1422378437.54	
(1368936.86)		b. Others (Schedule -O)			7956834.24	
18594694.89						
2444056688.68		C/o			2908030404.28	

OF ACCOUNT

on 31st March 2005.

(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		I. FIXED ASSETS a. Land Development			8625424.65	
71986571.63		II OTHER ASSETS a. As per Form XV			62946566.43	
855909.15		b. Stock in hand				
841306.39		i. Lab Chemicals	981153.25			
228171.56		ii. Glassware	827357.76			
977851.38		iii. Misc. Stores	227207.25			
		iv. Filter Paper	559259.38		2594977.64	
546378.00		III SUNDRY DEBTORS a. Zoning Atlas Scheme			1091636.00	
975278602.09		b. Cess Receivable				
187543257.55		i. From Industries	1209516649.18			
		ii. From Local Bodies	209383805.15			
(1368936.86)		Less: Provision for doubtful Debts	1418900454.33		1416265733.09	
			(2634721.24)			
21434.00		c. Amount Receivable - PWD			20500.00	
0.00		d. Project Study - Receivable			1653000.00	
110642960.20		IV. ADVANCES & DEPOSITS a. Misc. amounts recoverable (Schedule - Q)	171350351.20			
3709894.00		b. Others amounts recoverable (Schedule - R)	3625903.00			
1759266.40		c. Deposits (Schedule - S)	1759498.40		176735752.60	
1361648090.14		C/o			1669933590.41	

ANNUAL STATEMENT
Balance Sheet as
See Rules 36 of Tamil Nadu Water

PREVIOUS YEAR		LIABILITIES	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
2444056688.68		B/f			2908030404.28	
264956.98		E. Environmental Impact Study			264956.98	
70728220.00		F. Income received in advance (Schedule - P)			71745198.00	
44348500.00		G. Subsidies for common Effluent treatment plants			44348500.00	
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			4684136.00	
2563464395.00		Total			3031455088.60	

Sd / -
Amelia G. Dare B.A.,
Financial Adviser

Sd / -
R. Ramachandran M.E.(PH)
Member Secretary. (i/c)

Chennai - 600 032
 Date: 23 /09/2005

OF ACCOUNT

on 31st March 2005.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		ASSETS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
1361648090.14		B/f			1669933590.41	
		V. CASH				
		a. Deposits				
179200610.00		1 Pension Fund Investment	214121500.00			
161957818.25		2 Depreciation Fund Investment	181791400.55			
		3 Refundable Performance -				
34400126.05		Guarantee Deposit Investment	33935126.05			
447000.00		4 Model ETP for Sago Plant	447000.00			
782650344.70		5 Other term deposit	857386120.40			
8649500.00		6 CETP Develop. Fund Investment	5766500.00			
19646730.00		7 EL Encashment Fund	36632649.00		1330080296.00	
		b. Balance with Bank	27348381.29			
13604020.36		c. Cash in Hand	26350.00			
20680.00		d. Funds under Transit	4066470.90		31441202.19	
1239475.50						
2563464395.00		Total			3031455088.60	

Sd / -
Surjit K. Chaudhary I.A.S.
Chairman (a/c)

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

Sd / -
Partner

FORM - XV

ANNUAL STATEMENT OF ACCOUNTS - FIXED ASSETS AS ON 31st MARCH 2005.
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 01/04/2004		Additions and Adjustment during the year		Total		Depreciation		Closing Balance on 31/03/2005		Cumulative Depreciation on 31/03/2005	
			Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.	Rs.	P.
1	Building	10.00%	47075032.48		86075.00		47161107.48		4713768.28		42447339.20		68222160.40	
2	Computer	60.00%	1115900.32		9550.00		1125450.32		675270.19		450180.13		4890385.87	
3	Electrical Installations	15.00%	283436.37		520203.00		803639.37		79627.69		724011.68		1486524.43	
4	Furniture & Fixture	10.00%	6426926.01		11691.00		6438617.01		643861.70		5794755.31		9999447.92	
5	Lab Equipment	33.33%	7609031.26		202892.00		7811923.26		2547273.11		5264650.15		55029334.99	
6	Library Books	10.00%	2332115.01		149541.00		2481656.01		242027.08		2239628.93		2613197.10	
7	Office Appliance	10.00%	5075805.42		47936.00		5123741.42		512189.34		4611552.08		6567357.06	
8	Vehicle	33.33%	2068324.76		48220.00		2116544.76		702095.81		1414448.95		15370068.68	
	Total		71986571.63		1076108.00		73062679.63		10116113.20		62946566.43		164178476.45	

for M/s. CSGSN & Associates, Chartered Accountants

Sd/-

Amelia G. Dare B.A.,
Financial Adviser

Sd/-

R. Ramachandran M.E.(PH)
Member Secretary. (i/c)

Sd/-

Surjit K. Chaudhary I.A.S.
Chairman (a/c)

Sd/-

Partner

Chennai - 600 032

Date: 23/09/05

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2005.**

RECEIPTS

SCHEDULE - A

Services & Rental Charges

SL.NO	DESCRIPTION	Rs.	Ps.
1	A.A.Q.S	11955064.00	
2	Analysis Charges	15948764.30	
3	Bio Medical Management	119050.00	
4	Cess Appeal Fees	1800.00	
5	GEMS	357772.00	
6	NAAQM	1468013.00	
7	VEM Test Fees	4623960.00	
	TOTAL	34474423.30	

SCHEDULE - B

MISCELLANEOUS RECEIPTS

SL.NO	DESCRIPTION	Rs.	Ps.
1	Amount received from PWD	934.00	
2	E T I	154177.00	
3	TDS - Others	3060.00	
4	Interest on Loans / Advance	37788.00	
5	Miscellaneous Income	330918.50	
6	Pay Roll Receipt	100022.00	
7	Public Hearing	1782144.00	
8	Rent & Land Advance received	137778.00	
9	Rent (Corporate Office)	105596.00	
10	Sale of legal Books	78835.00	
11	Eco Development Measure	1225000.00	
12	Prior Period Adjustment	45044.00	
	TOTAL	4001296.50	

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2005.**

RECEIPTS

**SCHEDULE - C
ADVANCE TO STAFF (Receipts)**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Festival Advance		1000.00
2	L T C Advance		1641.00
3	Telephone & Telex(Excess call)		37433.00
4	Temporary Advance		99780.00
5	Tour Advance		9602.00
6	Vehicle Advance		18135.00
	TOTAL		167591.00

**SCHEDULE - D
ADVANCES AND DEPOSITS (OTHERS) (RECEIVED)**

SL.NO	DESCRIPTION	Rs.	Ps.
1	A.A.Q.S received in advance		2584595.00
2	Analysis fees received in advance		1014590.00
3	Cess received in advance		1785027.00
4	Consent Fees received in advance		68195910.00
	TOTAL		73580122.00

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH - 2005.**

**PAYMENT
SCHEDULE - E
MISCELLANEOUS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Appellate Authority Expenses	72227.00	
2	Advertisement and Publicity	336905.00	
3	Bank interest and commission	45725.85	
4	Bio Medical Waste Expenses	119816.00	
5	Board Meeting Expenses	3873.00	
7	C E T P Expenses	2883000.00	
8	Contract Charges / Wages	4538168.00	
9	Conveyance	288695.00	
10	D E E Legal Sample	13885.00	
11	Electricity/Water Charges	5885918.00	
12	Entertainment	59826.00	
13	Environmental Pavilion Expenses	232657.00	
14	ETI Expenses	137848.00	
15	Expenses of Audit	8206.00	
16	Family Benefit Fund	277996.00	
17	Financial Assistance to Projects	172700.00	
18	Hazourdous Monitoring Exp.	286531.00	
19	Interest on RPG Deposit	94500.00	
20	Land Maintenance Expenses	20926.00	
21	LTC Expenses	177714.00	
22	Miscellaneous Expenses	76266.00	
23	Newspaper & periodicals	222001.00	
24	Office Expenses	260256.00	
25	Outstanding Expenses	1602911.70	
26	Petty Cash Expenses	665693.15	
27	Pollution Awareness Expenses	4663167.87	
28	Postage/Telegram	870585.00	
29	Printing and Stationery	1355777.50	
30	Prior period adjustment account	37247.00	
31	Property tax	507334.00	
32	Public Hearing	1034967.00	
33	Rent	3610450.00	
34	Staff Retirement claim paid	35800.00	
35	Staff Welfare Expenses	650797.00	
36	Tax Deducted at Source	137673.00	
37	Telephone and Telex	1895737.00	
38	Trade Fair	416347.00	
39	Training and Seminar	193681.00	
40	Travelling expenses	1448927.50	
41	Turn duty and Overtime Allow.	64780.00	
42	Zoning Atlas Exp.	234870.00	
	TOTAL	35642385.57	

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH - 2005.**

PAYMENT

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

SL.NO	DESCRIPTION	Rs.	Ps.
1	Cycle Advance		18000.00
2	Festival Advance		480510.00
3	Handloom Advance		118838.00
4	Imprest to Staff		14435.00
5	L T C Advance		209872.00
6	Marriage Advance		30000.00
7	Motor Vehicle Advance		560076.00
8	Other Advance		5000.00
9	Temporary Advance		1736669.00
10	Tour Advance		462300.00
	TOTAL		3635700.00

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

SL.NO	DESCRIPTION	Rs.	Ps.
1	Advance to Suppliers		4138969.00
2	Electricity Deposit		12204.00
3	Miscellaneous Deposit		110600.00
4	Project Study - Receivable		1653000.00
5	Rent Advance		63250.00
6	Refundable PG Deposit		465000.00
7	Security Deposit (Refund)		23189.50
8	Telephone Deposit		1000.00
	TOTAL		6467212.50

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH - 2005.**

EXPENDITURE

**SCHEDULE - H
ALLOWANCES AND HONORARIA**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Allowances	36813845.00	
2	Family Benefit Fund Contribution	222836.00	
3	Leave Travel Concession Expenses	402421.00	
4	Medical Reimbursement	1528704.00	
5	Pay Commision Arrears - VI	51000.00	
6	Travelling Expenses	2155028.50	
7	Turn Duty and Overtime Allowances	79915.00	
	Total	41253749.50	

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

SL.NO.	DESCRIPTION	Rs.	Ps.
1	Fuel	3715470.55	
2	Hire Charges	16520.00	
3	Insurance	204039.00	
4	Repairs	804931.50	
	Total	4740961.05	

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH - 2005.**

EXPENDITURE

**SCHEDULE - J
MISCELLANEOUS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	AAQS Expenses		70682.00
2	Advertisement & Publicity		277966.00
3	Appellate Authority Expenses		494001.00
4	Bank Charges		52077.35
5	Bio-waste Management Expenses		133469.00
6	Board Meeting Expenses		41097.00
7	Contract Charges / Wages		4744069.00
8	Conveyance Expenses		340097.00
9	D E E's Legal Sample Expenses		2500.00
10	Electricity & Water Charges		6805797.00
11	Entertainment Expenses		108800.50
12	Environmental Pavilion Expenses		262832.00
13	Environmental Training Institute Expenses		1126859.00
14	Expenses of audit		9848.00
15	Financial Assistance to Projects		172700.00
16	Hazardous Waste Monitoring Expenses		323902.00
17	Insurance of Assets		424646.00
18	Interest on Performance Guarantee Deposit		94500.00
19	Land Maintenance Expenses		24826.00
20	Newspaper and Periodicals		275587.00
21	Office Expenses		335182.00
22	Pollution Awareness Expenses		5407878.87
23	Postage & Telegram		917112.00
24	Printing & Stationery		1598238.60
25	Property Tax and Rates		507334.00
26	Rent on Buildings		3835647.00
27	Staff Welfare Expenses		710718.00
28	Sundries		115731.00
29	Telephone & Telex		1810230.05
30	Trade Fair Expenses		455248.00
31	Training and Seminar Expenses		447350.00
	TOTAL		31926925.37

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH - 2005.**

EXPENDITURE

**SCHEDULE - K
FEES**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Consent Fees	160700382.50	
2	Consent Forms	934096.00	
	TOTAL	161634478.50	

**SCHEDULE - L
SERVICE AND RENTAL CHARGES**

SL.NO	DESCRIPTION	Rs.	Ps.
1	AAQS	13758529.00	
2	Analysis Charges	16757400.30	
3	GEMS	357772.00	
4	Hazardous Waste Management Fees	760550.00	
5	NAAQM	1468013.00	
6	Noise Level (Measurement)		
7	VEM Test Fees	4623960.00	
	Total	37726224.30	

**SCHEDULE - M
MISCELLANEOUS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Bio-Medical Waste Management Fees	9250.00	
2	Cess Appeal Fees	1800.00	
3	Interest on Loans & Advance	272215.00	
4	Miscellaneous Income	318953.50	
5	Public Hearing	969617.00	
6	Sale of Books	78835.00	
	TOTAL	1650670.50	

**SCHEDULE FORMING PART OF BALANCE SHEET
AS ON 31st MARCH 2005.**

LIABILITIES

**SCHEDULE - N
OTHER DEPOSITS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Earnest Money Deposit	1111585.20	
2	Enlistment Deposits	249500.00	
3	Others	1594962.00	
4	Retention Money Deposits	309252.48	
5	Security Deposits	1234229.65	
	TOTAL	4499529.33	

**SCHEDULE - O
SUNDRY CREDITORS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Others	95979.00	
2	Outstanding Liability	6365702.24	
3	Pay Roll Liabilities	1472416.00	
4	Staff Death/Retirement Claim Payable	5000.00	
5	Tax Deducted at Source (Officers)	17737.00	
	TOTAL	7956834.24	

**SCHEDULE - P
INCOME RECEIVED IN ADVANCE**

SL.NO	DESCRIPTION	Rs.	Ps.
1	AAQS	1012126.00	
2	Analysis Fees	663275.00	
3	Cess Fees	1785027.00	
4	Consent Fees	68284770.00	
	TOTAL	71745198.00	

**SCHEDULE FORMING PART OF BALANCE SHEET
AS ON 31st MARCH 2005.**

ASSETS

SCHEDULE - Q

MISCELLANEOUS ADVANCES

SL.NO	DESCRIPTION	Rs.	Ps.
1	Advance to Suppliers	5530121.90	
2	Insurance Claim Receivable	43243.00	
3	Interest Receivable	159898666.00	
4	Land Advance	4848911.00	
5	Others	26508.00	
6	Pre Paid Expenses	159938.00	
7	Rent Advance	817600.15	
8	Staff Welfare Fund	25363.15	
	TOTAL	171350351.20	

SCHEDULE - R

ADVANCES TO STAFF

SL.NO	DESCRIPTION	Rs.	Ps.
1	Cycle Advance	21516.00	
2	Festival Advance	286275.00	
3	Handloom Advance	83325.00	
4	Leave Travel Concession Advance	1400.00	
5	Marriage Advance	56730.00	
6	Miscellaneous Advance (P R L, TDS)	1994.00	
7	Motor Vehicle Advance	2760677.00	
8	Pay Advance	2500.00	
9	Personal Computer Advance	122105.00	
10	Short Term Advance	1800.00	
11	Temporary Advance	94731.00	
12	Tour Advance	118750.00	
13	Transfer Tour Advance	74100.00	
	TOTAL	3625903.00	

SCHEDULE - S

DEPOSITS

SL.NO	DESCRIPTION	Rs.	Ps.
1	Customs Deposit	46271.40	
2	Electricity Deposit	644856.00	
3	Gas Deposit (Miscellaneous deposit)	31746.00	
4	Staff Higher Studies Deposit	4928.00	
5	Telephone & Telex Deposit	1031697.00	
	TOTAL	1759498.40	

**SCHEDULE FORMING PART OF BALANCE SHEET
AS ON 31st MARCH 2005.**

ASSETS

**SCHEDULE - T
EARMARKED FUND
PENSION FUND ACCOUNT**

SL.NO	DESCRIPTION	AMOUNT
	Opening balance-as on 01-04-04	179200610.00
	Add: Interest @ 6%	10752036.60
		189952646.60
	Less: Disbursement from fund	
	a) Commuted Pension	1073357.00
	b) Pension disbursed by Corp. Office	990508.00
	c) Pension disbursed by Units	737689.00
		2801554.00
		187151092.60
	Add: Contribution to the Fund	26970407.40
	Closing balance as on 31-03-05	214121500.00

EARN LEAVE ENCASHMENT FUND

SL.NO	DESCRIPTION	AMOUNT
	Opening balance as on 01-04-04	19646730.00
	Add: Interest @ 6%	1178803.80
		20825533.80
	Less: Disbursement from fund	
	a) Disbursement to retirees etc.,	1053432.00
		1053432.00
		19772101.80
	Add: Contribution to the Fund	16860547.20
	Closing balance as on 31-03-05	36632649.00

DEPRECIATION FUND ACCOUNT

SL.NO	DESCRIPTION	AMOUNT
	Opening balance as on 01-04-04	161957818.25
	Add: Interest @ 6%	9717469.00
		171675287.25
	Add: Current year's Depreciation	10116113.20
	Closing balance as on 31-03-05	181791400.45

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 recognised 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 recognised 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 & 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.

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 recognised on the basis of available records.

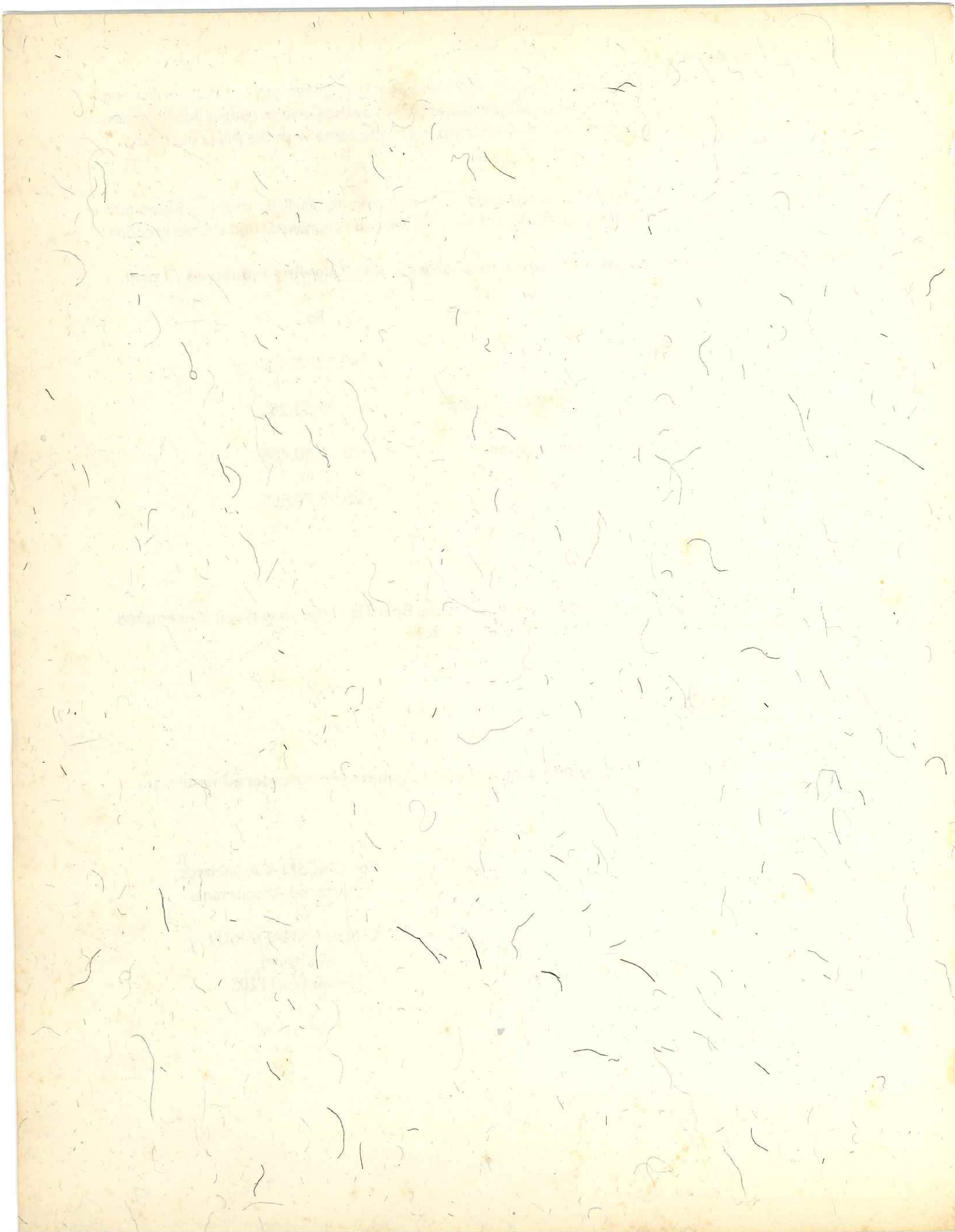
b) Internal Audit

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

c) Loans & Advances :

Loans and advances includes various advances listed below pending for adjustments for a long period of time

	Rs.
(i) Advance to Supplier	4,83,250
(ii) TTA advance & Pay advance	76,600
(iii) Others	22,668
(iv) Staff Higher Studies Deposit	4,928
Total	<u>5,87,446</u>



(d) Fixed Assets:

Value of the Fixed Assets as shown by the Fixed Assets Register and physical verification report are to be reconciled with the balances as shown by the General Ledger. Identification numbers have to be painted on the Assets to verify the same with the Asset register.

(e) Land Advances:

This represents amount paid towards the land cost to various municipalities and corporations amounting to Rs.48, 48,911 which is yet to be capitalised under Land account.

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

	Rs.
i) Ennore Thermal Power Station.	42,12,42,482
ii) North Chennai Thermal Power Station.	31,27,53,282
iii) Tuticorin Thermal Power Station.	40,70,40,488
iv) Local bodies	20,93,70,665

(g) Income Tax :

No Provision for Income Tax has been made as the Board is of the view that it is exempted from the provisions of the Income Tax Act of 1961.

VI) Contingent Liability: Nil

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

Place : Chennai
Date : 23/09/2005

For CNGSN & Associates
Chartered Accountants

Sd / -

C.N. GANGADARAN
(Partner)

Memb.No.11205



Tamilnadu Pollution Control Board

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