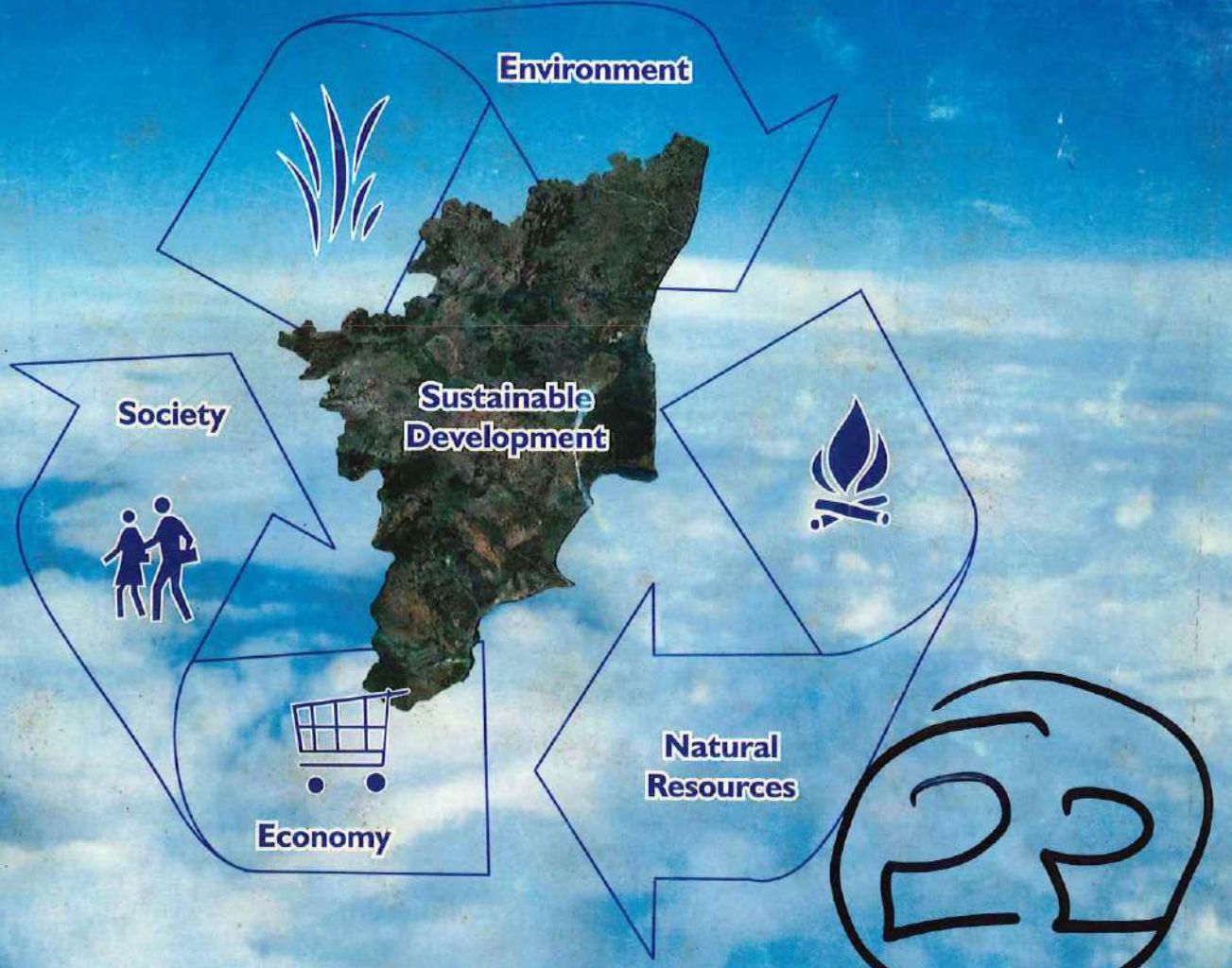


# ANNUAL REPORT 2005 - 2006



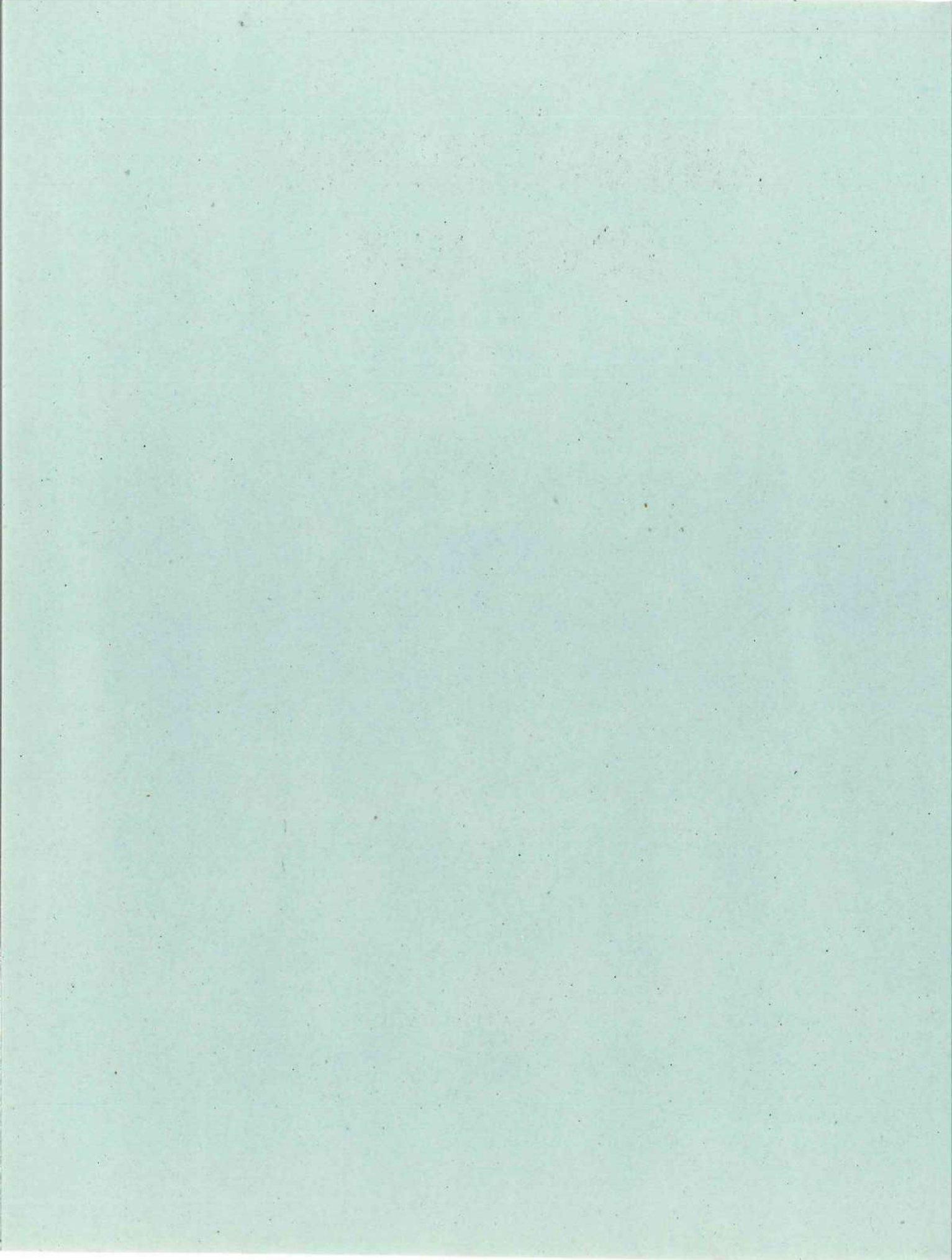
தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம்  
Tamilnadu Pollution Control Board

# **ANNUAL REPORT**

## **2005-2006**

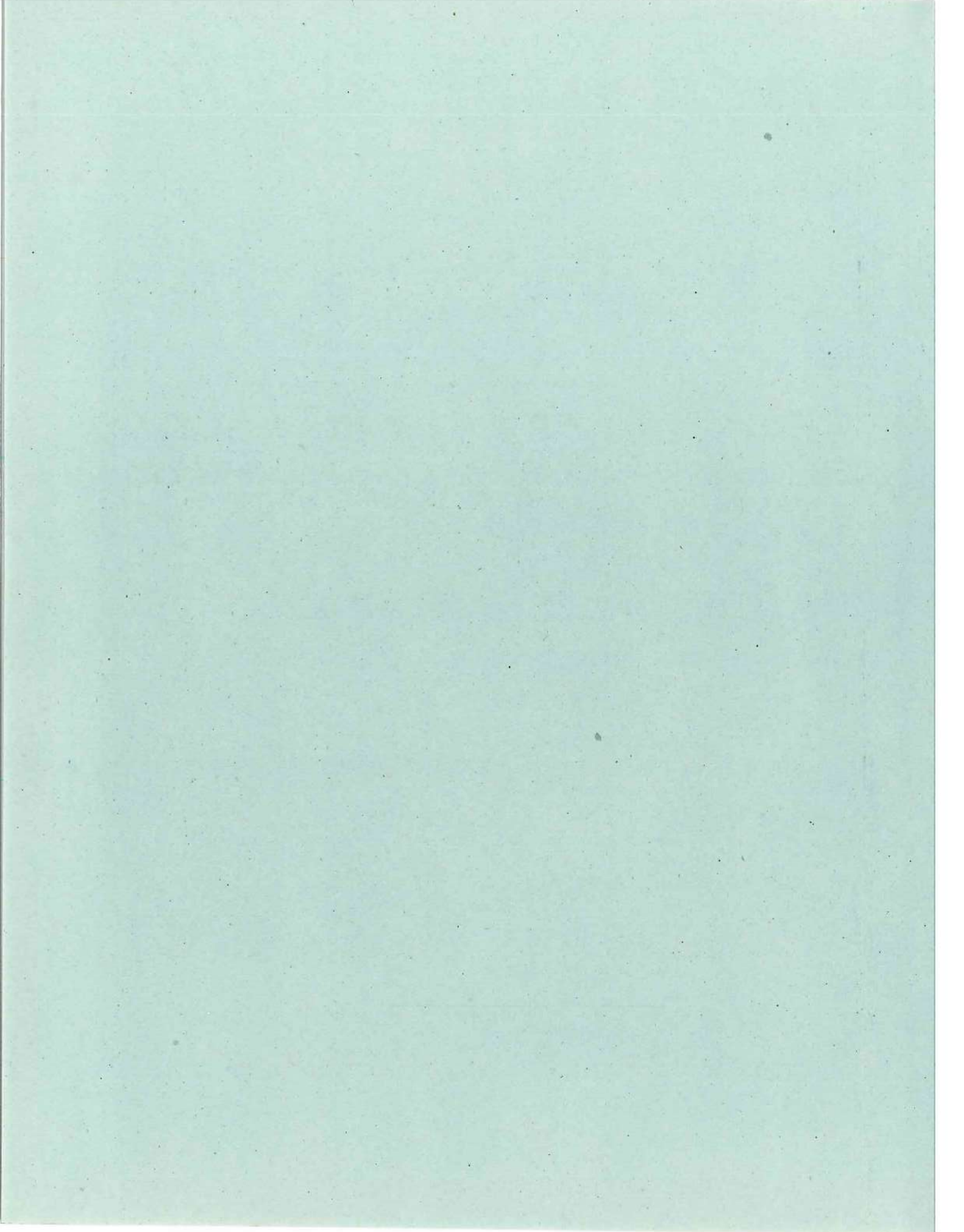


**Tamilnadu Pollution Control Board**  
76, Mount Salai, Guindy, Chennai - 600 032.



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## 1.1 INTRODUCTION

The Tamil Nadu Prevention and Control of Water Pollution Board (TNPCB) 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 Plastics Manufacture, Sale and Usage Rules, 1999 as amended in 2003.
- The Noise Pollution (Regulation and Control) Rules, 2000
- The Municipal Solid Wastes (Management and Handling) Rules, 2000
- The Battery (Management and Handling) Rules, 2001

## 1.2 FUNCTIONS

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

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

## **2.1 CONSTITUTION OF TNPCB**

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

## **2.2 ORGANISATIONAL SET UP**

The TNPCB has established its organization structure with a two-tier system consisting of head-office at Chennai and district offices with total staff strength of 709. There are 25 district offices, of which two are headed by Joint Chief Environmental Engineer, 18 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 and 2003.
- The Water (Prevention and Control of Pollution) Cess Rules, 1978 as amended in 1992.
- The Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987.
- The 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, 2004.
- The National Environment Tribunal Act, 1995.
- The Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996
- The National Environment Appellate Authority Act, 1997.
- The National Environment Appellate Authority (Appeal) Rules, 1997.
- The Bio Medical Waste (Management and Handling) Rules, 1998 as amended in 2000.
- Fly Ash Utilization Notification, 1999. as amended.
- The plastics Manufacture, Sale and Usage Rules, 1999, as amended in 2003.
- The Municipal Solid Wastes (Management and Handling) Rules, 2000.
- Noise Pollution (Regulation and Control) Rules, 2000.
- Ozone Depleting Substances (Regulation and Control) Rules, 2000.
- The Batteries (Management and Handling) Rules, 2001.

## **3.2 MONITORING OF INDUSTRIES**

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

## **3.3 PROCEDURE FOR ISSUE OF CONSENT**

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

## **3.4 WATER POLLUTION CONTROL**

The Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 is enacted to prevent and control water pollution and to preserve or maintain or restore the quality of water. As per the provisions of this Act, the local bodies and industries, which discharge sewage /trade effluent are required to apply and obtain the consent from the Board. The industries generating trade effluent are required to provide effluent treatment plant to treat their trade effluent to satisfy the standards prescribed by the Board. Industries are constantly monitored regarding the functioning of their effluent treatment plants and samples of treated sewage/trade effluents are collected regularly to assess the quality of effluent discharged and also to assess the efficiency of the effluent treatment plants provided. During the year 2005-2006, 15604 samples of sewage and trade effluents from the industries were collected and analysed. The Board has issued 1001 'Consent to Establish' orders and 2007 'Consent to operate' orders under the Water (Prevention and Control of Pollution) Act, 1974 as amended during the year 2005-2006.

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 2005-2006 is Rs. 908.29 lakhs Amount reimbursed by Government of India is Rs.323.78 lakhs. 80% of the cess-collected is reimbursed and utilised for awareness programs, projects and training programmes.

### **3.5 AIR POLLUTION CONTROL**

The Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 is enacted to prevent and control air pollution and preserve the air quality. As per the provisions of this Act, the entire State of Tamilnadu has been declared as an 'Air Pollution Control Area'. Industries, which let out process emissions, are regularly monitored through inspections of the air pollution control measures provided by the units. Ambient air quality survey/ stack emission survey are conducted in and around the industries regularly to assess the quality of the emissions let out and on the basis of the report of analysis, the industries are instructed to carry out necessary corrective measures. During the year 2005-2006, ambient air quality surveys have been conducted in 823 industries. The Board has issued 999 'Consent to Establish' orders and 1996 'Consent to Operate' orders under the Air (Prevention and Control of Pollution) Act, 1981 as amended during the year 2005-2006.

### **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                        | 25 Schemes |
| Textile Bleaching & Dyeing Units | 31 Schemes |
| Hotels & Lodges                  | 1 Scheme   |

Out of 57 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. 11 CETP schemes for tanneries and 13 CETP schemes for textile dyeing units are under various stages of implementation. State and Central Governments sanction the subsidy for implementing the CETP schemes. Prior to 2003-04 the Government of Tamil Nadu has sanctioned Rs.26.88 crores towards subsidy for the common effluent treatment plants and out of this Rs.22.66 crores has been released as on 31.03.2003 through the Board and Tamil Nadu Leather Development Corporation. During 2003-2004, 2004-2005 and 2005-2006, a subsidy of Rs.86.49 lakhs to M/s. Kovai Telungupalayam Common Effluent Treatment Private Limited and Rs 114.32 lakhs to M/s Perundurai CETP has been granted and TNPCB Fund has been released. The details of funds received & released are furnished in Annexure VI.

### 3.7 MANAGEMENT OF HAZARDOUS WASTES AND CHEMICALS

The TNPCB is taking effective steps in the handling and management of hazardous chemicals and treatment and disposal of hazardous wastes in an environmentally safe manner. The Board has identified and authorized 2422 units generating hazardous wastes under the Hazardous Wastes (Management and Handling) Rules, 1989 as amended in 2000 and 2003.

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 notified by the Government vide G.O.M.S.No.67 E&F (ECII) Dept.dt.17.5.05. The progress of work is held up due to a public interest litigation filed against the establishment of above facility.

Besides, the Federation of common effluent treatment plants, Tiruppur has identified a site at Nallur village, Karupagoundarpalayam, Tiruppur Taluk, Coimbatore District. The site has been notified as a site for establishing Common Hazardous Waste Treatment Storage and Disposal facility vide G.O.Ms.No.299 E&F (ECII) Dept.dt.2.11.2004. The federation of CETPs & ETPs in Karur have identified a site at Mathagiri village, Krishnarayapuram Taluk, Karur district for establishing a secure landfill facility for disposal of sludge generated from treatment of textile dyeing effluents. The site has been notified as a site for establishing Common Hazardous Waste Treatment Storage and Disposal facility vide G.O.Ms.No.135 E&F (ECII) Dept.dt.16.08.2005. EIA studies and Public hearing of the site has been completed. Work will be undertaken after obtaining local body clearance in the above two sites.

### **3.8 MANAGEMENT OF BIOMEDICAL WASTES**

The Biomedical Waste (Management & Handling) Rules, 1998 as amended applies to all persons who generate, collect, receive, store, transport, treat, dispose or handle biomedical waste in any form. As per the rule, authorization is required for handling of biomedical wastes. It is the duty of the occupier of an institution generating the biomedical waste to take all steps to ensure that the biomedical waste is handled without any adverse effect to human health and environment. Biomedical waste shall be treated and disposed in accordance with schedule I and in compliance with the standards prescribed in schedule -V of the said rules.

The Board has so far inventoried 2449 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.

The following eight common facilities at Thenmalpakkam village and Chennakuppam village in Kanncheepuram District, Coonoor in The Nilgiris, Kandipedu in Vellore District, Sengipatti in Thanjavur District, Thangayur village in Salem District, Orattukuppai Village in Coimbatore District and Muthu vayal 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. There is an urgent need to evolve scientific approaches to the management of municipal solid wastes.

The Board is advocating the concept of segregation of wastes at source, reduction, recycle and reuse of waste. The Board has issued NOC to 90 municipalities and one Corporation for composting of municipal solid waste and setting up waste processing facility. NOCs issued for 45 municipalities have been converted as authorisation.

In order to develop one Municipality or one Special Village Panchayat in each district as a Model town in Municipal Solid Waste Management, a seed money of Rs.2 Lakhs to one Municipality or Rs.1 Lakh to one Special Village Panchayat in each district has been given by the Board through District Collectors. Also Rs 5 Lakhs each have been given to Dharapuram, Coonoor & Namakkal municipalities for Management of Municipal Solid Waste Management and to make it as a model municipality.

### **3.10 MANAGEMENT OF PLASTIC WASTE**

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

## MONITORING NETWORK FOR QUALITY OF AIR AND WATER

### 4.1. AIR QUALITY MONITORING

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

#### 4.1.1. AMBIENT AIR QUALITY MONITORING PROGRAMME AT CHENNAI CITY

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

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

Under NAMP three ambient air quality-monitoring stations are functioning on 24 hours basis, twice a week. The samples collected from NAMP stations are analysed for the Total Suspended Particulate Matter (TSPM), Respirable Suspended Particulate Matter (RSPM- particles 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: -

|   |                           |   |                                    |
|---|---------------------------|---|------------------------------------|
| 1 | Kathivakkam (NAMP)        | - | Industrial area                    |
| 2 | Manali (NAMP)             | - | Industrial area                    |
| 3 | Thiruvottiyur(NAMP)       | - | Mixed area                         |
| 4 | Kilpauk (CAAQM)           | - | Commercial (traffic inter-section) |
| 5 | Thiyagaraya Nagar (CAAQM) | - | Commercial (traffic inter-section) |
| 6 | Vallalar Nagar (CAAQM)    | - | Commercial (traffic inter-section) |
| 7 | Anna Nagar (CAAQM)        | - | Residential area                   |
| 8 | Adyar (CAAQM)             | - | Residential area                   |



The National Ambient Air Quality Standards prescribed is given below:

| Area   | Annual average concentrations of pollutants in mg/m <sup>3</sup> |                 |      |      |
|--|--|-----------------|------|------|
|  | SO <sub>2</sub>  | NO <sub>x</sub> | RSPM | TSPM |
| Industrial   | 80   | 80              | 120  | 360  |
| Residential, Rural & mixed areas including traffic inter section | 60   | 60              | 60   | 140  |

The ambient air quality data collected from the above mentioned air quality monitoring stations indicate that all the parameters such as sulphur dioxide, oxides of nitrogen, total suspended particulate matter and respirable dust particulates are found to have been well controlled in the industrial area due to the effective monitoring of industrial source emissions by the TNPCB. In Thiruvottiyur, total suspended particulate matter and respirable dust particulate matter levels exceeded the permissible limit, mainly due to the re-suspension of traffic dust generated from automobile emission and heavy vehicular traffic. The average values of pollutants recorded under NAMP programme during the year 2005-2006 are in **Annexure-VII**.

In general, under CAAQM project the ambient air pollutants such as sulphur dioxide and oxides of nitrogen are well within the standards in Chennai city limit, where as total suspended particulate matter and respirable suspended particulate matter (PM<sub>10</sub>) levels exceeded the permissible limit at all stations except Adyar mainly due to the dust contributed by pipe line, and cable laying activities on the road side and also due to the re-suspension 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 2005-2006 are in **Annexure -VIII**.

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

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

- |     |                   |   |                 |
|-----|-------------------|---|-----------------|
| (a) | Raja Agencies     | - | Industrial zone |
| (b) | Fisheries College | - | Industrial zone |
| (c) | A.V.M. Building   | - | Mixed zone      |

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

- |     |                              |   |                  |
|-----|------------------------------|---|------------------|
| (a) | Collectorate Office Building | - | Mixed zone       |
| (b) | Ponniyarajapuram             | - | Residential zone |
| (c) | SIDCO Building               | - | Industrial zone  |

At Salem, the Ambient Air Quality Station has been functioning in the following location from July 1996 onwards.

- |     |                    |   |            |
|-----|--------------------|---|------------|
| (a) | Sowdeswari College | - | Mixed zone |
|-----|--------------------|---|------------|

At Madurai, the ambient air quality stations have been functioning from July 1996 in the following locations.

- |     |                             |   |                  |
|-----|-----------------------------|---|------------------|
| (a) | Highways Project Building   | - | Residential zone |
| (b) | 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 once in a week on 24 hours basis in all working days in the following places: -

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

The ambient air quality data recorded during 2005-2006 indicate that all the parameters such as sulphur dioxide, oxides of nitrogen, total suspended particulate matter and respirable suspended particulate matter are found to have been well controlled at Thoothukudi, Madurai, Coimbatore and Salem except at Kunnathur Chatram, Madurai where the annual average value of TSPM and in Thoothukudi at AVM buildings and at Raja Agencies, where the annual average value of RSPM are found to exceed the permissible limits due to heavy commercial activities and traffic flow. The annual average values of pollutants recorded during the year 2005-2006 are in **Annexure - VII**.

The ambient air quality data collected from the TAAQM stations in Trichy indicates that the average concentration of SO<sub>2</sub> and NO<sub>x</sub> values are found well within the prescribed standard

and the RSPM and TSPM values (except at Golden Rock, Bishop Heber College) are exceeding the standard prescribed by the Board. This could be attributed not only due to the increase in number of vehicles and the surface dust generated by vehicular movement but also due to the digging and laying activities for pipe lines, electrical and telephone cables. The annual average concentration of ambient air pollutants during the period 2005-2006 are in **Annexure – IX**.

## **4.2. VEHICULAR EMISSION MONITORING**

### **4.2.1 VEHICLE EMISSION MONITORING IN CHENNAI CITY**

The TNPCB is carrying out the vehicle emission monitoring since 1992 for testing the emissions from goods transport vehicles in and around Chennai city in three locations at Alandur (now located at Ambattur w.e.f. 8-12-2005), Madhavaram and Ambattur. During the year 2005-2006, 32,200 vehicles were tested. Among the total vehicles tested, 2,308 vehicles did not comply with the emission standards during the first test. Vehicles that do not comply with the emission standards are instructed to carry out corrective measures to comply with the emission standards. Emissions under control certificate are issued to only those vehicles, which comply with the emission standards in the subsequent tests. In addition, 97 private agencies have been authorised by the Transport Department in Chennai urban agglomeration area to check the emission levels of the vehicles.

### **4.2.2. VEHICLE EMISSION MONITORING IN OTHER 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 in Dindigul District at Dindigul and Palani 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 5147 vehicles were tested. Among them 500 vehicles (9.7%) did not comply with emission standards during the first test. Emissions under Control Certificate are issued to only those vehicles, which comply with the emission standards in the subsequent tests.

The details of vehicles tested and number of vehicles, which exceeded the standards in each station, are shown in **Annexure - X**.

### **4.2.3. MEASURES TAKEN TO REDUCE VEHICULAR EMISSIONS**

New in use vehicular emission standards are being implemented through out Tamilnadu as per the amendment issued in Rule 115 of Motor Vehicle Rules 1989.

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 Tondiarpet. The computerised test equipment have been provided by TNPCB to these centers for testing exclusively MTC vehicles and Emission Under Control Certificate are issued 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%) has been introduced in Chennai since January 2005. Euro III complied Four wheelers are only registered in Chennai City from 1.4.2005 onwards. Action is being taken to introduce LPG as a cleaner fuel; especially for autorickshaws. Twenty-three LPG stations have been commissioned in Chennai city and in out skirts. Government of Tamilnadu have lowered the Sales Tax for approved LPG conversion kit from 12% to 4% since October 2005. New permits for 5000 autorikshaw with LPG mode have been issued in Chennai city. The oil companies are requested to provide premixed 2T oil dispensing facility in all the outlets in Chennai Metropolitan area so as to the ban on sale of loose 2T oil in Chennai city. Surprise roadside emission check up programme is carried out to improve maintenance of vehicles and reduce vehicular emission in co-ordination with the Transport and Traffic Police Department. The Ministry of Surface Transport has proposed to construct over bridges to ease the traffic in three important traffic junctions in Chennai city at Alandhur Kathipara junction, Koyambedu Junction and Padi Junction.

### **4.3. WATER QUALITY MONITORING**

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

#### **4.3.1. MONITORING OF INDIAN NATIONAL AQUATIC RESOURCES (MINARS) AND GLOBAL ENVIROMNETAL 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 Central Pollution Control Board, Delhi, funds the programmes.

#### **4.3.1.1. THE RIVER CAUVERY**

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

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

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

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 sewage/sullage 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) and except Musiri ferry gate, Musiri bore well, Mettur and Thirumukkudal which meets the standards prescribed under class 'B' Designated best use for outdoor bathing.

#### **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-XIII**.

The water quality study conducted during the year 2005-2006 shows that the level of pH values varied from 6.3 to 8.6 and the average values of the bio-chemical oxygen demand (BOD) varied from 1.3 to 2.4 mg/l as against the standards prescribed for pH (6.5 to 8.5) and bio-chemical oxygen demand (3mg/L). The parameters analysed meet the standards prescribed for surface water quality under the class 'B'.

#### **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 -XIV**.

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-XIV**.

#### **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 – XV**.

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

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 waterways to assess the level of pollution by collecting water samples every month both at water bodies and industrial outlets as detailed below:

| <b>Source</b>    | <b>River No. of station</b> | <b>Industrial outlets No. of stations</b> |
|------------------|-----------------------------|---|
| Adyar            | 5                           | 5   |
| Cooum            | 11                          | 3   |
| Buckingham canal | 10                          | 11  |
| Otteri Nullah    | 8                           | 6   |

During the year 2005-2006, 1113 samples were collected and analysed at the Advanced Environmental Laboratory, Chennai. The mean values of water quality are furnished in **Annexure-XVI**.

#### **4.5 APPLIED RESEARCH AND DEVELOPMENT**

The AR&D Evaluation Council of TNPCB has recommended and submitted three proposals to the Board for its approval to resume the sanction of financial assistance by the Board from out of Cess funds during the financial year 2005 -2006 to undertake research projects related to environmental pollution abatement.

The council has recommended for the formulation of long term proposals by Board in co-ordination with Research institutions/University Departments and forward the same to MoEF, New Delhi for obtaining financial assistance. In this regard, the topic area of research, the University Departments and the Research Institutions to be collaborated with TNPCB have been identified.

#### **4.6 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 **Annexure-XVII**.

## **5.1. ENVIRONMENTAL STANDARDS**

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

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

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



## **6.1 LEGAL ACTION**

The TNPCB is taking legal action against the defaulting industries. The Board has so far issued show cause notices to 34973 industries and closure orders to 5417 industries for not complying with the conditions prescribed by the Board. During the year 2005-2006, 4126 show cause notices and 979 closure orders have been issued.

## **6.2 GREEN BENCH**

The Hon'ble High Court of Madras has constituted a 'Green Bench' during the year 1996 as per the directions of Hon'ble Supreme Court of India dated 28.8.96 in W.P(C) No.914/1991. The Green Bench deals with cases pertaining to environment related 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 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 2005-2006, 61 appeals have been filed by the aggrieved units in the Appellate authority and the said authority disposed 36 appeals.

## 7.1 BOARD MEETINGS

Five Meetings of the Board were held during the period from April 2005 to March 2006 these details are listed below.

| Sl.No. | No.of subjects placed | No. of Meeting | Date of meeting |
|--------|-----------------------|----------------|-----------------|
| 1.     | 29                    | 210            | 12.04.2005      |
| 2.     | 32                    | 211            | 22.06.2005      |
| 3.     | 30                    | 212            | 23.09.2005      |
| 4.     | 36                    | 213            | 21.12.2005      |
| 5.     | 25                    | 214            | 13.02.2006      |

## 7.2 IMPORTANT DECISIONS TAKEN DURING THE YEAR 2005 – 2006.

- The Board discussed the matter in detail and decided to approve the proposal to construct an Office Building in Survey No. T.S.No.168 of Katpadi Co-Operative Township Limited, Vellore at a cost of Rs.124.50 Lakhs.
- The Board approved the proposal to undertake the study on the presence of Volatile Organic Compounds (VOCS) in the Ambient Air around the SIPCOT Industrial Complex, Cuddalore by NEERI, Mumbai at a cost of Rs.20.15 Lakhs and later claim the cost from the Cuddalore SIPCOT Industrial Association.
- The Board approved the proposal for purchase of 40 Nos. of High Volume Samplers TSPM & RSPM (PM<sub>10</sub>) from M/s.Envirotech Instruments Pvt.Limited, New Delhi at a total cost of Rs.39,87,000/- for the improvement of air quality in 5 Metro cities namely Madurai, Salem, Coimbatore, Trichy and Tirunelveli.
- The Board approved the proposal of purchasing 15 Nos of High volume Samplers (RSPM) (PM<sub>2.5</sub>) along with accessories and consumables from M/s.Envirotech Instruments (P)Ltd., New Delhi at a total cost of Rs.20,50,635/- for the improvement of air quality in 5 metro cities namely Madurai, Salem, Coimbatore, Trichy and Tirunelveli.

- The Board resolved to approve the grant of “ No Objection Certificate” to the unit of M/s.National Highways Authority of India for the project of four laning and widening and strengthening of existing two lanes NH-7 from
  - Karur to Madurai via Dindigul District of Km 305.8 to 426.6
  - Salem to Karur via Namakkal District Km 207.6 to 292.6
  - Krishnagiri to Thoppur Ghat.
  - NH-47 from Salem to Chengapalli (Erode District) Km 1.6 to Km 100)
- The Board resolved to approve for replacing the clause under Item No.2. f of B.PMs.No.4 dated 02.07.2004 as “no new / proposed stone crusher should be located within 500 metres from any National Highways or State Highways or inhabited site or educational institutions / and other public offices and places of religious importance”.
- The Board resolved to grant fresh administrative approval for the construction of Office –Cum – Lab building at Arumbakkam to accommodate the District Office and District Environmental Laboratory, Manali and accord administrative approval of Rs. 147.80 Lakhs superseding the earlier approval vide B.PMs.No.2 dated 29.06.2004 for Rs.75 Lakhs plus cost of lift.
- The Board resolved to release a total sum of Rs.41 Lakhs to the Municipalities or Special Village Panchayats in 30 Districts in the State to make them models in Municipal Solid Waste Management.
- The Board resolved to approve the proposal for procurement of computer and accessories through M/s. ELCOT, Chennai at an outlay of Rs.46,44,380/-(Rupees Forty six Lakhs Forty four thousand three hundred and eighty only) by following useful procedures.

## **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 2005-2006.

## **8.2 ENVIRONMENTAL TRAINING INSTITUTE (ETI)**

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

ETI is guided by a steering committee, chaired by Chairman of TNPCB and its Members are from Government, Pollution Control Board and CEOs of Industry.

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

- Improve awareness at all levels.
- Introduce the holistic approach to environment & sustainable development.
- Introduce the basic theories, concepts and methodologies of integrated environmental planning and management aiming a sustainable development.

- Promote public awareness and motivation to preserve and protect the environment through NGOs
- Create cross-media awareness in industry, urban sector and the public on environmental hazards and adverse impact on quality of life.
- Pollution control at source by cleaner technology and improved processes of material and products. This includes conservation of non-renewable resources, resource recovery, refuse recycling and disposal of minimum waste to the environment.
- Improve environment management capacity in the sector of industry and urban development.
- Develop the ability among professionals to communicate effectively.

During the year 2005-2006, this training institute has conducted **46** programmes and trained **2472** personnel in total.

## **9.1 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.

During the year 2005-2006, about **89** awareness programme were conducted by awareness team of TNPCB, which consists of TNPCB's own employees.

## **OTHER IMPORTANT MATTERS DEALT IN THE BOARD**

### **10.1 PUBLIC HEARING**

Some specific categories of industrial projects require environmental clearance from the Ministry of Environment 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 projects are conducted in the respective collectorates, since May 1998. As on 31.3.2006, **336** public hearings have been conducted and during 2005-2006, **43** public hearings were conducted.

### **10.2 GREEN AWARDS**

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

### **10.3 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 district wise 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/-.

The projects on District Environmental Atlas for the districts of Cuddalore and Villupuram were undertaken during the financial year 2005-2006.

It has been proposed to undertake the project on preparation of District Environmental Atlas for the districts of Erode, Salem and Karur during the financial year 2006-2007.

#### **10.4 WATER CONSERVATION**

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

#### **10.5 CLEANER TECHNOLOGIES**

The TNPCB 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.



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

## **10.6 WASTE MINIMISATION**

With the adoption of cleaner technologies; there has been progress in waste recovery and waste minimisation. Examples include recovery of materials such as chrome from tannery effluent and ammonia from fertilizers. Out of 15 distilleries, 13 distilleries have gone for biocomposting of their effluents with press mud of sugar factories for achieving zero discharge of trade effluent. Two distilleries are not in operation at present. A major textile-dyeing unit at Tiruppur has also provided a salt recovery plant for reusing it in the process.

## **10.7. ENERGY CONSERVATION**

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

## **10.8 ENVIRONMENTAL STATEMENT**

Under the rule 14 of the Environment (Protection) Rules 1986, submission of Environmental statement is made compulsory for every industry covered under the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981 or the Hazardous Waste (Management & Handling) Rules, 1989. Industries are required to submit Environmental statement for the financial year ending 31<sup>st</sup> March every year in the prescribed Form-V before 30<sup>th</sup> 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 QUALITY CERTIFICATION**

For self auditing of the environmental management systems, all major industrial units have been asked to get the ISO 14001 certification which are awarded after auditing the environmental

management systems by an external agency. During the last two years more than 200 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.

### **10.11 EXTERNALLY AIDED PROJECTS**

A feasibility study on industrial wastewater recycling and reuse for the tanneries in the Vellore Region has been carried out and the study was funded by U.S. trade and Development Agency (USTDA) and the project cost is US \$ 1,80,100 (approximately Rs.81 lakhs).

### **10.12 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 on all working days for easy access of the public and others, separate telephone numbers 22353153 & 22200411 are 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 Environmental Engineer, Tamilnadu Pollution Control Board, 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 Environmental Engineer, Tamilnadu Pollution Control Board, Chennai for action. During the year (2005-2006), 180 complaints were received and attended in and around Chennai City.

### **10.13 RIGHT TO INFORMATION**

In pursuance to the directions of Government of Tamil Nadu, Tamil Nadu Pollution control Board has designated the state Public Information Officer Appellate Authority and Assistant Public Information Officers to provide information to the persons requesting for the information

under the Right to Information Act 2005. The Board has received 26 applications seeking information and the Board has disposed the requests of 24 applicants as on 31.3.2006.

### **10.14 LIBRARY**

Lib  
The TNPC Bd Library was organized during November 1989. At present library has a collection of 9500 Books and Reports, 70 Journals, 1651 Back volumes, 50 Video cassettes, 35 CDs, 31 Maps, also Newsletters and Bulletins. There are Book Section and Periodical Section. The collection comprises of documents in the field of Environmental Protection, Pollution, Waste Management, Environmental Engineering, Types of Industries, Chemical Technology, Chemical Accidents & Disasters, Soil, Energy, Pesticides, Environmental Health, Toxicology, Environmental Economics, Environmental Analysis, Environmental Education, Sustainable Development, Environmental Law, Forestry, Directories, Reports on Tamil Nadu.

The library subscribes for 70 Journals 9 Newspapers, 13 Magazines. Besides, Annual Reports, Newsletters, Bulletins and Reports are received from different Institutions (Indian & Foreign)

The library is administrated by the Library Committee and Library Purchase Committee Chaired by the Member Secretary. The committee consists Senior Officers of the Board and experts from Anna University and IIT, Madras.

# ACCOUNTS

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**AUDITOR'S REPORT TO THE MEMBERS OF THE TAMILNADU  
POLLUTION CONTROL BOARD FOR THE YEAR ENDED  
31<sup>ST</sup> MARCH 2006**

We have audited the attached Balance Sheet of Tamil Nadu Pollution Control Board as at March 31, 2006 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

Coverage of Internal Audit as explained in point No.V(b) of the Notes to the 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, 2006 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 2006
- (c) In the case of the Income and Expenditure account of the excess of Income over Expenditure for the year ended 31st March 2006

Place : Chennai

Date : 10/10/2006

**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.           |
|                     | <b>OPENING BALANCE</b>  |                   |                      |
| 13604020.36         | a. Bank   | 27348381.29       |                      |
| 20680.00            | b. Cash   | 26350.00          |                      |
| 1239475.50          | c. Funds in Transit   | 4066470.90        | 31441202.19          |
|                     | <b>I. GRANTS RECEIVED</b>   |                   |                      |
|                     | a. From Government  | -                 |                      |
| 4000000.00          | b. From other Agencies  | -                 |                      |
| 3000000.00          | c. Schemes  | -                 |                      |
|                     | <b>II. FEES</b>   |                   |                      |
|                     | a. Consultant Registration Fees   | -                 |                      |
| 934176.00           | b. Cost of Application  | 1347565.00        |                      |
| 95250353.50         | c. Consent Fees   | 143073166.00      |                      |
| 68853309.65         | d. Cess Collection  | 89078095.97       |                      |
| 620120.00           | e. Fees for handling H. Waste   | 213750.00         | 233712576.97         |
|                     | <b>III. Services &amp; Rental Charges</b><br>(Lab Analysis Charges Sch - A) |                   | 35755497.50          |
| 34474423.30         |   |                   |                      |
| 40023015.00         | <b>IV INTEREST ON INVESTMENT</b>  |                   | 45591561.00          |
|                     | <b>V. MISCELLANEOUS</b>   |                   |                      |
| 4001296.50          | a. Others (Schedule-B)  | 8082467.00        |                      |
| 53187176.00         | b. Cess Re-imburement   | 32377695.00       |                      |
| -                   | c. CPCB for Green Belt Scheme   | -                 | 40460162.00          |
| <b>319208045.81</b> | <b>C/o</b>  |                   | <b>386960999.66</b>  |

**CONTROL BOARD, CHENNAI - 600 032.**

the year ended 31 March 2006.

(Prevention and control of Pollution) rules 1983.

| PREVIOUS YEAR       |     | PAYMENTS                            | TOTAL OF SUB HEAD |     | TOTAL OF MAJOR HEADS |                     |
|---------------------|-----|-------------------------------------|-------------------|-----|----------------------|---------------------|
| Rs.                 | Ps. |                                     | Rs.               | Ps. | Rs.                  | Ps.                 |
|                     |     | <b>I. CAPITAL EXPENDITURE</b>       |                   |     |                      |                     |
| 85606.00            |     | a. Assets - Land and Building       | 11204350.00       |     |                      |                     |
| 39692.00            |     | b. Laboratory Equipment             | 2649259.00        |     |                      |                     |
| 48220.00            |     | c. Vehicles                         | -                 |     |                      |                     |
| 18590.00            |     | d. Furniture                        | 356947.00         |     |                      |                     |
| 28906.00            |     | e. Office Appliance                 | 312114.00         |     |                      |                     |
| 152431.00           |     | f. Library Books                    | 334823.00         |     |                      |                     |
| 509899.00           |     | g. Electrical Installation          | 30238.00          |     |                      |                     |
|                     |     | h. Computer                         | 22150.00          |     |                      | 14909881.00         |
|                     |     | <b>II. REVENUE EXPENDITURE</b>      |                   |     |                      |                     |
|                     |     | <b>A. ADMINISTRATIVE</b>            |                   |     |                      |                     |
| 89105179.05         |     | i. Salaries                         | 96807539.60       |     |                      |                     |
| 6702046.00          |     | ii. Pension & Gratuity Contribution | 3898706.00        |     |                      |                     |
| 1536309.00          |     | iii. Surrender Leave Salary         | 2010080.00        |     |                      |                     |
| -                   |     | iv. Bonus                           |                   |     |                      |                     |
| 1461659.50          |     | v. Medical Expenses                 | 1384395.00        |     |                      | 104100720.60        |
|                     |     | <b>B. BOARD LABORATORY</b>          |                   |     |                      |                     |
| 220784.00           |     | i. Running Expenses of Lab.         | 211943.00         |     |                      |                     |
| 415040.00           |     | ii. Lab. Chemicals etc.,            | 534103.00         |     |                      | 746046.00           |
| <b>100324361.55</b> |     | <b>C/o</b>                          |                   |     |                      | <b>119756647.60</b> |



# 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.           |
| 319208045.81        | <b>B/F</b>                           |                   | 386960999.66         |
|                     | <b>VI. DEPOSITS &amp; ADVANCES</b>   |                   |                      |
| 455170.00           | i. Earnest Money Deposit             | 652129.00         |                      |
|                     | ii. Security Deposit                 | 261393.00         |                      |
| 167591.00           | iii. Advance to Staff ( Sch. - C)    | 516963.00         |                      |
| 492713851.00        | iv. Short Term Deposit               | 557572419.00      |                      |
| -                   | v. Telephone Deposit                 | -                 |                      |
| -                   | vi. Rent Advance                     | -                 |                      |
| -                   | vii. Electricity Deposit             | -                 |                      |
| -                   | viii. Other Deposit                  | 105000.00         | 559107904.00         |
| 73580122.00         | <b>VII. OTHERS (Schedule - D)</b>    |                   | 90305841.00          |
| -                   | <b>VIII Environment Impact Study</b> |                   |                      |
| -                   | <b>IX Building (Refund from PWD)</b> |                   |                      |
| <b>886124779.81</b> | <b>Total</b>                         |                   | <b>1036374744.66</b> |

Sd / -  
P. Rengupillai  
Financial Adviser

Sd / -  
Dr. T. Sekar  
Member Secretary.

Chennai - 600 032  
Date: 10/10/2006

**CONTROL BOARD, CHENNAI - 600 032.**

the year ended 31 March 2006.

(Prevention and control of Pollution) rules 1983.

| PREVIOUS YEAR       |     | PAYMENTS   | TOTAL OF SUB HEAD |     | TOTAL OF MAJOR HEADS |     |
|---------------------|-----|--|-------------------|-----|----------------------|-----|
| Rs.                 | Ps. |  | Rs.               | Ps. | Rs.                  | Ps. |
| 100324361.55        |     | <b>B/F</b>   |                   |     | 119756647.60         |     |
| 4579698.30          |     | <b>C. Running &amp; Maintenance of Vehicle</b>     |                   |     | 5147321.75           |     |
|                     |     | <b>D. MAINTENANCE &amp; REPAIRS</b>                |                   |     |                      |     |
| 1611301.00          |     | i. Buildings                                       | 851735.00         |     |                      |     |
| 5240.00             |     | ii. Furniture & Fixture                            | 1607.00           |     |                      |     |
| 1141931.00          |     | iii. Scientific instruments                        | 1068566.00        |     |                      |     |
| 441694.70           |     | iv. Office Appliance                               | 600288.00         |     |                      |     |
| 384947.00           |     | v. Electrical Installation                         | 511308.00         |     |                      |     |
| 424646.00           |     | vi. Insurance of Assets                            | 102488.00         |     |                      |     |
| 3900.00             |     | vii. Other Assets                                  |                   |     | 3135992.00           |     |
| -                   |     | <b>E. Scheme</b>                                   |                   |     | -                    |     |
| -                   |     | <b>F. Fees to Consultant and Specialists</b>       |                   |     | 24109.00             |     |
| 5000.00             |     | <b>G. Law Charges</b>                              |                   |     | 2208235.00           |     |
| 257971.00           |     | <b>H. Expenses for audit</b>                       |                   |     | 26145.00             |     |
| 27750.00            |     | <b>I. CPCB for Green Belt Scheme paid by Board</b> |                   |     | -                    |     |
|                     |     | <b>J. CETP Development Fund</b>                    |                   |     | 2883000.00           |     |
| 35642385.57         |     | <b>III MISCELLANEOUS (Schedule-E)</b>              | 48656241.95       |     |                      |     |
| 70889839.00         |     | a. Cess Remittance                                 | 85889539.00       |     | 134545780.95         |     |
| 3635700.00          |     | <b>IV ADVANCE (Schedule - F)</b>                   |                   |     | 3891405.00           |     |
|                     |     | <b>V Deposits</b>                                  |                   |     |                      |     |
| 628840000.00        |     | a. Short Term Deposits                             | 730956847.00      |     |                      |     |
| 6467212.50          |     | b. Others (Schedule - G)                           | 25621932.15       |     | 756578779.15         |     |
|                     |     | <b>VI CLOSING BALANCE</b>                          |                   |     |                      |     |
| 27348381.29         |     | Bank   | 6297449.21        |     |                      |     |
| 26350.00            |     | Cash   | 12650.00          |     |                      |     |
| 4066470.90          |     | Funds in Transit                                   | 1867230.00        |     | 8177329.21           |     |
| <b>886124779.81</b> |     | <b>Total</b>                                       |                   |     | <b>1036374744.66</b> |     |

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

Sd / -  
K.A. Mathew  
Chairman

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.           |
|                     | <b>REVENUE EXPENDITURE</b>                                    |                   |                      |
|                     | <b>A. Administrative</b>                                      |                   |                      |
| 1802355.00          | i. Pay of officers  | 1156588.00        |                      |
| 51370363.00         | ii. Pay of Establishment                                      | 52089877.50       |                      |
| 41253749.50         | iii. Allowance & Honororia<br>(Schedule-H)                    | 45564408.50       |                      |
| 46988332.60         | iv. Contribution to Gratuity &<br>Provision for Pension       | 60315123.00       |                      |
| 488364.00           | v. Surrender Leave Salary                                     | 2761854.06        | 161887851.06         |
| 972732.34           | <b>B. Running Expenses of Labs.</b>                           |                   | 3431344.58           |
| 4740961.05          | <b>C. Running and Maintenance<br/>of Vehicle (Schedule-I)</b> |                   | 5413284.75           |
|                     | <b>D. Maintenance and Repairs</b>                             |                   |                      |
| 6987.00             | i. Furniture & Fixtures                                       | 12707.00          |                      |
| 2532852.00          | ii. Lab. Equipments & Instruments                             | 1782094.00        |                      |
| 496600.70           | iii. Office Appliance   | 585925.00         |                      |
| 414547.00           | iv. Electrical Installation                                   | 605072.00         |                      |
| 1618383.00          | v. Building   | 1137991.00        | 4123789.00           |
| 5000.00             | <b>E. Fees to Consultants<br/>and Specialists</b>             |                   | 25384.00             |
| 278050.00           | <b>F. Law Charges</b>   |                   | 2346900.00           |
| 10116113.20         | <b>G. Depreciation (Form XV)</b>                              |                   | 10027058.00          |
| 31926925.37         | <b>H. Miscellaneous (Schedule-J)</b>                          |                   | 47516990.75          |
| 27550.00            | <b>I. Fees for Audit</b>                                      |                   | 27550.00             |
| 154709163.24        | <b>J. Excess of income over<br/>Exp.trf to B/S</b>            |                   | 142379548.59         |
| <b>349749029.00</b> | <b>Total</b>  |                   | <b>377179700.73</b>  |

Sd / -  
**P. Rengupillai**  
 Financial Adviser

Sd / -  
**Dr. T. Sekar**  
 Member Secretary

Chennai - 600 032  
 Date: 10/10/2006

**OF ACCOUNT**

for the year ended 31st March 2006.

(Prevention and control of Pollution) rules 1983.

| PREVIOUS YEAR       |     | INCOME  | TOTAL OF SUB HEAD |     | TOTAL OF MAJOR HEADS |     |
|---------------------|-----|---|-------------------|-----|----------------------|-----|
| Rs.                 | Ps. |   | Rs.               | Ps. | Rs.                  | Ps. |
|                     |     | <b>I. Grants received</b>                                 |                   |     |                      |     |
|                     | -   | i. From Government  |                   | -   |                      |     |
|                     | -   | ii. From other Agencies                                   |                   | -   |                      |     |
|                     | -   | Less: Amount utilised for<br>Capital Expenditure          |                   | -   |                      |     |
|                     | -   | Net Grant available for<br>Revenue Expenditure            |                   | -   |                      |     |
| 161634478.50        |     | <b>II. Fees (Schedule-K)</b>                              |                   |     | 212468176.00         |     |
| 37726224.30         |     | <b>III Services &amp; Rental Charges<br/>(Schedule-L)</b> |                   |     | 37903324.50          |     |
|                     |     | <b>IV Miscellaneous Receipts</b>                          |                   |     |                      |     |
| 1650670.50          |     | i. Others (Schedule-M)                                    | 4933143.00        |     |                      |     |
| 53187176.00         |     | ii. Cess Reimbursement                                    | 32377695.00       |     | 37310838.00          |     |
| 83565211.60         |     | <b>V Interest on Investment</b>                           |                   |     | 89353834.13          |     |
| 11985268.10         |     | <b>VI Prior Period Adj.Account</b>                        |                   |     | 143528.10            |     |
| <b>349749029.00</b> |     | <b>Total</b>  |                   |     | <b>377179700.73</b>  |     |

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

Sd / -  
K.A. Mathew  
Chairman

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. |
|               | <b>A. CAPITAL FUND</b>  |                   |               |                      |     |
|               | <b>a. Grants</b>  |                   |               |                      |     |
| 50526922.18   | i. Grants received from Govt. for capital exp. upto 01.04.2005                                      |                   | 54526922.18   |                      |     |
|               | ii. Grants received from Govt. for capital exp. During the current year and utilised upto 31.3.2006 |                   | -             |                      |     |
| 4000000.00    | iii. Grants received towards specific schemes from other agencies                                   |                   | -             | 54526922.18          |     |
|               | <b>b. Excess of Income over Expenditure</b>   |                   |               |                      |     |
| 800603455.45  | i. As at 01.04.05   |                   | 945196505.49  |                      |     |
| 154709163.24  | ii. Add: Surplus during the year  |                   | 142379548.59  |                      |     |
|               |   |                   | 1087576054.08 |                      |     |
| (10116113.20) | iii. Less: Amount transferred to Depreciation Fund  |                   | (10027058.00) | 1077548996.08        |     |
|               | <b>B. Earmarked Fund (Schedule-T)</b>   |                   |               |                      |     |
| 214121500.00  | a. Pension Fund   |                   | 283055610.00  |                      |     |
| 181791400.45  | b. Depreciation Fund  |                   | 202725942.38  |                      |     |
| 5766500.00    | c. CETP Development Fund  |                   | 2883500.00    |                      |     |
| 36632649.00   | d. Earn leave encashment Fund   |                   | 39531045.00   | 528196097.38         |     |
|               | <b>C. Other Deposits</b>  |                   |               |                      |     |
| 4499529.33    | a. Deposits for supply & works (Schedule -N)  |                   | 2879533.33    |                      |     |
| 33935126.05   | b. Refundable P.G. Deposits   |                   | 33995126.05   |                      |     |
| 1225000.00    | c. Eco Development Measure  |                   | 1304000.00    | 38178659.38          |     |
|               | <b>D. Amount Due</b>  |                   |               |                      |     |
| 1425013158.78 | a. Cess Payable   |                   | 1684365517.54 |                      |     |
| (2634721.24)  | Less: Cess unrecoverable  |                   | (12864655.00) | 1671500862.54        |     |
| 7956834.24    | b. Others (Schedule -O)   |                   |               | 6924436.94           |     |
| 2908030404.28 | <b>C/o</b>  |                   |               | 3376875974.50        |     |

# OF ACCOUNT

on 31st March 2006.

(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    |     | <b>I. FIXED ASSETS</b>                          |                   |               | 8625424.65           |     |
|               |     | a. Land Development                             |                   |               | 11204350.00          |     |
|               |     | b. Building Under Construction                  |                   |               |                      |     |
| 62946566.43   |     | <b>II OTHER ASSETS</b>                          |                   |               | 71580253.08          |     |
|               |     | a. As per Form XV                               |                   |               |                      |     |
|               |     | b. Stock in hand                                |                   |               |                      |     |
| 981153.25     |     | i. Lab Chemicals                                | 898363.56         |               |                      |     |
| 827357.76     |     | ii. Glassware                                   | 809578.31         |               |                      |     |
| 227207.25     |     | iii. Misc. Stores                               | 248765.66         |               |                      |     |
| 559259.38     |     | iv. Filter Paper                                | 587768.53         |               | 2544476.06           |     |
|               |     | <b>III SUNDRY DEBTORS</b>                       |                   |               |                      |     |
| 1091636.00    |     | a. Zoning Atlas Scheme                          |                   |               | 1180074.00           |     |
|               |     | b. Cess Receivable                              |                   |               |                      |     |
| 1209516649.18 |     | i. From Industries                              | 1408845795.97     |               |                      |     |
| 209383805.15  |     | ii. From Local Bodies                           | 264467745.15      |               |                      |     |
| (2634721.24)  |     | Less: Cess unrecoverable                        | 1673313541.12     | (12864655.00) | 1660448886.12        |     |
| 20500.00      |     | c. Amount Receivable - PWD                      |                   |               | 20500.00             |     |
| 1653000.00    |     | d. Project Study - Receivable                   |                   |               | 2660500.00           |     |
|               |     | <b>IV. ADVANCES &amp; DEPOSITS</b>              |                   |               |                      |     |
| 171350351.20  |     | a. Misc. amounts recoverable<br>(Schedule - Q)  | 202917727.30      |               |                      |     |
| 3625903.00    |     | b. Others amounts recoverable<br>(Schedule - R) | 3597571.00        |               |                      |     |
| 1759498.40    |     | c. Deposits<br>(Schedule - S)                   | 1986086.40        |               | 208501384.70         |     |
| 1669933590.41 |     | <b>C/o</b>                                      |                   |               | 1966765848.61        |     |

**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. |
| 2908030404.28        |     | B/f  |                   |     | 3376875974.50        |     |
| 264956.98            |     | E. Environmental Impact Study                        |                   |     | 264956.98            |     |
| 71745198.00          |     | F. Income received in advance<br>(Schedule - P)      |                   |     | 88647364.00          |     |
| 44348500.00          |     | G. Subsidies for common<br>Effluent treatment plants |                   |     | 44348500.00          |     |
| 1189893.34           |     | H. Environmental Education<br>Fund Reserve           |                   |     | 1189893.34           |     |
| 500000.00            |     | I. Emergency response centre                         |                   |     | 500000.00            |     |
| 692000.00            |     | J. C P C B Green Belt                                |                   |     | 692000.00            |     |
| 4684136.00           |     | K. Schemes   |                   |     | 4684136.00           |     |
| <b>3031455088.60</b> |     | <b>Total</b>   |                   |     | <b>3517202824.82</b> |     |

Sd / -  
**P. Rengupillai**  
 Financial Adviser

Sd / -  
**Dr. T. Sekar**  
 Member Secretary.

Chennai - 600 032  
 Date: 10/10/2006

**OF ACCOUNT**

on 31st March 2006.

(Prevention and control of Pollution) rules 1983.

| PREVIOUS YEAR        |     | ASSETS                          | TOTAL OF SUB HEAD |     | TOTAL OF MAJOR HEADS |     |
|----------------------|-----|---------------------------------|-------------------|-----|----------------------|-----|
| Rs.                  | Ps. |                                 | Rs.               | Ps. | Rs.                  | Ps. |
| 1669933590.41        |     | B/f                             |                   |     | 1966765848.61        |     |
|                      |     | <b>V. CASH</b>                  |                   |     |                      |     |
|                      |     | <b>a. Deposits</b>              |                   |     |                      |     |
| 214121500.00         |     | 1 Pension Fund Investment       | 283055610.00      |     |                      |     |
| 181791400.55         |     | 2 Depreciation Fund Investment  | 202725942.38      |     |                      |     |
|                      |     | 3 Refundable Performance -      |                   |     |                      |     |
| 33935126.05          |     | Guarantee Deposit Investment    | 33995126.05       |     |                      |     |
| 447000.00            |     | 4 Model ETP for Sago Plant      | 447000.00         |     |                      |     |
| 857386120.40         |     | 5 Other term deposit            | 979621423.57      |     |                      |     |
| 5766500.00           |     | 6 CETP Develop. Fund Investment | 2883500.00        |     |                      |     |
| 36632649.00          |     | 7 EL Encashment Fund            | 39531045.00       |     | 1542259647.00        |     |
|                      |     | <b>b. Balance with Bank</b>     | 6297449.21        |     |                      |     |
| 27348381.29          |     | <b>c. Cash in Hand</b>          | 12650.00          |     |                      |     |
| 26350.00             |     | <b>d. Funds under Transit</b>   | 1867230.00        |     | 8177329.21           |     |
| 4066470.90           |     |                                 |                   |     |                      |     |
| <b>3031455088.60</b> |     | <b>Total</b>                    |                   |     | <b>3517202824.82</b> |     |

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

Sd / -  
K. A. Mathew  
Chairman

Sd / -  
Partner



**FORM - XV**

**ANNUAL STATEMENT OF ACCOUNTS - FIXED ASSETS AS ON 31st MARCH 2006.**  
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 01/04/2005 |                    | Additions and Adjustment during the year |                    | Total              |                    | Depreciation        |             | Closing Balance on 31/03/2006 |    | Cumulative Depreciation on 31/03/2006 |    |
|---------|--------------------------|----------------------|-------------------------------|--------------------|--|--------------------|--------------------|--------------------|---------------------|-------------|-------------------------------|----|---------------------------------------|----|
|         |                          |                      | Rs.                           | P.                 | Rs.                                      | P.                 | Rs.                | P.                 | Rs.                 | P.          | Rs.                           | P. | Rs.                                   | P. |
| 1       | Building                 | 10.00%               | 42447339.20                   | -                  | -  | -                  | 42447339.20        | 42447339.20        | 4244734.00          | 38202605.20 | 72466894.40                   |    |                                       |    |
| 2       | Computer                 | 60.00%               | 450180.13                     | 1791575.00         | 83131.00                                 | 807142.68          | 2241755.13         | 546017.00          | 1695738.13          | 5436402.87  |                               |    |                                       |    |
| 3       | Electrical Installations | 15.00%               | 724011.68                     | 83131.00           | 83131.00                                 | 807142.68          | 114106.00          | 693036.68          | 1600630.43          |             |                               |    |                                       |    |
| 4       | Furniture & Fixture      | 10.00%               | 5794755.31                    | 351539.00          | 351539.00                                | 6146294.31         | 597424.00          | 5548870.31         | 10596871.92         |             |                               |    |                                       |    |
| 5       | Lab Equipment            | 33.33%               | 5264650.15                    | 12667537.50        | 12667537.50                              | 17932187.65        | 2890419.00         | 15041768.65        | 57919753.99         |             |                               |    |                                       |    |
| 6       | Library Books            | 10.00%               | 2239628.93                    | 374560.00          | 374560.00                                | 2614188.93         | 243848.00          | 2370340.93         | 2857045.10          |             |                               |    |                                       |    |
| 7       | Office Appliance         | 10.00%               | 4611552.08                    | 348183.00          | 348183.00                                | 4959735.08         | 477744.00          | 4481991.08         | 7045101.06          |             |                               |    |                                       |    |
| 8       | Vehicle                  | 33.33%               | 1414448.95                    | 3044219.15         | 3044219.15                               | 4458668.10         | 912766.00          | 3545902.10         | 16282834.68         |             |                               |    |                                       |    |
|         | <b>TOTAL</b>             |                      | <b>62946566.43</b>            | <b>18660744.65</b> | <b>18660744.65</b>                       | <b>81607311.08</b> | <b>10027058.00</b> | <b>71580253.08</b> | <b>174205534.45</b> |             |                               |    |                                       |    |

for M/s. CSGSN & Associates, Chartered Accountants

Sd /-  
Partner

Sd /-  
K.A. Mathew  
Chairman

Sd /-  
Dr. T. Sekar  
Member Secretary

Sd /-  
P. Rengupillai  
Financial Adviser

Chennai - 600 032  
Date : 10/10/2006

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT  
FOR THE YEAR ENDED ON 31st MARCH 2006.**

**RECEIPTS**

**SCHEDULE - A**

**Services & Rental Charges**

| SL.NO | DESCRIPTION            | Rs.                | Ps. |
|-------|------------------------|--------------------|-----|
| 1     | A.A.Q.S                | 13484533.00        |     |
| 2     | Analysis Charges       | 17025982.50        |     |
| 3     | Bio Medical Management | 1524146.00         |     |
| 4     | Cess Appeal Fees       | 2750.00            |     |
| 5     | GEMS / MINARS          | 720636.00          |     |
| 6     | VEM Test Fees          | 2997450.00         |     |
|       | <b>TOTAL</b>           | <b>35755497.50</b> |     |

**SCHEDULE - B**

**MISCELLANEOUS RECEIPTS**

| SL.NO | DESCRIPTION                  | Rs.               | Ps. |
|-------|------------------------------|-------------------|-----|
| 1     | E T I                        | 280980.00         |     |
| 2     | Eco Development Measure      | 2483000.00        |     |
| 3     | Flag Day Collection          | 93800.00          |     |
| 4     | Interest on Loans / Advance  | 20189.00          |     |
| 5     | Miscellaneous Income         | 1951982.00        |     |
| 6     | Public Hearing               | 2134300.00        |     |
| 7     | Rent & Land Advance received | 2402.00           |     |
| 8     | Rent (Corporate Office)      | 76832.00          |     |
| 9     | Right to Information Fees    | 2444.00           |     |
| 10    | Sale of legal Books          | 81965.00          |     |
| 11    | Staff Death Claim            | 100000.00         |     |
| 12    | Zoning Atlas                 | 854573.00         |     |
|       | <b>TOTAL</b>                 | <b>8082467.00</b> |     |

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT  
FOR THE YEAR ENDED ON 31<sup>st</sup> MARCH 2006.**

**RECEIPTS**

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

| SL.NO | DESCRIPTION                    | Rs. | Ps.              |
|-------|--------------------------------|-----|------------------|
| 1     | Cycle Advance                  |     | 259.00           |
| 2     | Festival Advance               |     | 4475.00          |
| 3     | Handloom Advance               |     | 2580.00          |
| 4     | Marriage Advance               |     | 1710.00          |
| 5     | Pay Advance                    |     | 7500.00          |
| 6     | Short Term Advance             |     | 1800.00          |
| 7     | Telephone & Telex(Excess call) |     | 79903.00         |
| 8     | Temporary Advance              |     | 278630.00        |
| 9     | Tour Advance                   |     | 94066.00         |
| 10    | Vehicle Advance                |     | 46040.00         |
|       | <b>TOTAL</b>                   |     | <b>516963.00</b> |

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

| SL.NO | DESCRIPTION                       | Rs. | Ps.                |
|-------|-----------------------------------|-----|--------------------|
| 1     | A.A.Q.S received in advance       |     | 2287487.00         |
| 2     | Analysis fees received in advance |     | 5600.00            |
| 3     | Cess received in advance          |     | 2091203.00         |
| 4     | Consent Fees received in advance  |     | 85921551.00        |
|       | <b>TOTAL</b>                      |     | <b>90305841.00</b> |

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT  
FOR THE YEAR ENDED ON 31st MARCH - 2006.**

**PAYMENT  
SCHEDULE - E  
MISCELLANEOUS**

| SL.NO | DESCRIPTION                     | Rs.                | Ps. |
|-------|---------------------------------|--------------------|-----|
| 1     | AAQS Expenses                   | 95007.00           |     |
| 2     | Advertisement and Publicity     | 168161.00          |     |
| 3     | Appellate Authority Expenses    | 153277.00          |     |
| 4     | Bank interest and commission    | 95343.25           |     |
| 5     | Bio Medical Waste Expenses      | 7920.00            |     |
| 6     | Board Meeting Expenses          | 51481.00           |     |
| 7     | Contract Charges / Wages        | 4585126.00         |     |
| 8     | Conveyance                      | 274911.00          |     |
| 9     | D E E Legal Sample              | 8276.00            |     |
| 10    | Electricity/Water Charges       | 6127693.00         |     |
| 11    | Entertainment                   | 133531.00          |     |
| 12    | Environmental Pavilion Expenses | 200615.00          |     |
| 13    | Environmental Study Expenses    | 656143.00          |     |
| 14    | ETI Expenses                    | 97641.00           |     |
| 15    | Expenses of Audit               | 10701.00           |     |
| 16    | Family Benefit Fund             | 263551.00          |     |
| 17    | Hazourdous Monitoring Exp.      | 4119036.00         |     |
| 18    | Land Maintenance Expenses       | 33198.00           |     |
| 19    | Leave Travel Concession         | 67626.00           |     |
| 20    | Miscellaneous Expenses          | 73937.00           |     |
| 21    | Newspaper & periodicals         | 201279.00          |     |
| 22    | Office Expenses                 | 310731.00          |     |
| 23    | Outstanding Expenses            | 1754810.70         |     |
| 24    | Petty Cash Expenses             | 820864.00          |     |
| 25    | Pollution Awareness Expenses    | 1429493.00         |     |
| 26    | Postage/Telegram                | 1055765.00         |     |
| 27    | Printing and Stationery         | 2101456.00         |     |
| 28    | Property tax                    | 581630.00          |     |
| 29    | Public Hearing                  | 1154629.00         |     |
| 30    | Rent                            | 3747023.00         |     |
| 31    | Staff Welfare Expenses          | 681868.00          |     |
| 32    | Tax Deducted at source (Others) | 188156.00          |     |
| 33    | Telephone and Telex             | 1998567.00         |     |
| 34    | Trade Fair                      | 319072.00          |     |
| 35    | Training and Seminar            | 664303.00          |     |
| 36    | Travelling expenses             | 1385185.00         |     |
| 37    | Turn duty and Overtime Allow.   | 53441.00           |     |
| 38    | Vehicle Monitoring Station Exp  | 62434.00           |     |
| 39    | Zoning Atlas Exp.               | 151485.00          |     |
| 40    | CETP Subsidy                    | 11432000.00        |     |
| 41    | Expenses - Govt. of Tamil Nadu  | 1338876.00         |     |
|       | <b>TOTAL</b>                    | <b>48656241.95</b> |     |

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT  
FOR THE YEAR ENDED ON 31st MARCH - 2006.**

**PAYMENT**

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

| SL.NO | DESCRIPTION               | Rs. | Ps.               |
|-------|---------------------------|-----|-------------------|
| 1     | Cycle Advance             |     | 4537.00           |
| 2     | Festival Advance          |     | 453300.00         |
| 3     | Handloom Advance          |     | 156355.00         |
| 4     | Leave Travel Concession   |     | 134485.00         |
| 5     | Marriage Advance          |     | 26265.00          |
| 6     | Motor Vehicle Advance     |     | 916150.00         |
| 7     | Pay Advance               |     | 7500.00           |
| 8     | Personal Computer Advance |     | 61000.00          |
| 9     | Temporary Advance         |     | 1575533.00        |
| 10    | Tour Advance              |     | 553780.00         |
| 11    | Transfer Tour Advance     |     | 2500.00           |
|       | <b>TOTAL</b>              |     | <b>3891405.00</b> |

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

| SL.NO | DESCRIPTION                | Rs. | Ps.                |
|-------|----------------------------|-----|--------------------|
| 1     | Advance to Suppliers       |     | 19873123.15        |
| 2     | Earnest Money Deposit      |     | 1038729.00         |
| 3     | ECO Development Measure    |     | 2404000.00         |
| 4     | Electricity Deposit        |     | 228166.00          |
| 5     | Enlistment Deposit         |     | 15000.00           |
| 6     | Flag Day Collection        |     | 88800.00           |
| 7     | Project Study - Receivable |     | 1466500.00         |
| 8     | Refundable PG Deposit      |     | 40000.00           |
| 9     | Security Deposit           |     | 467614.00          |
|       | <b>TOTAL</b>               |     | <b>25621932.15</b> |

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED ON 31st MARCH - 2006..**

**EXPENDITURE**

**SCHEDULE - H  
ALLOWANCES AND HONORARIA**

| SL.NO | DESCRIPTION                       | Rs.                | Ps. |
|-------|-----------------------------------|--------------------|-----|
| 1     | Allowances                        | 41525832.50        |     |
| 2     | Family Benefit Fund Contribution  | 199571.00          |     |
| 3     | Leave Travel Concession Expenses  | 210689.00          |     |
| 4     | Medical Reimbursement             | 1450133.50         |     |
| 5     | Pay Commision Arrears - VI        | 51000.00           |     |
| 6     | Travelling Expenses               | 2043445.50         |     |
| 7     | Turn Duty and Overtime Allowances | 83737.00           |     |
|       | <b>TOTAL</b>                      | <b>45564408.50</b> |     |

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

| SL.NO | DESCRIPTION  | Rs.               | Ps. |
|-------|--------------|-------------------|-----|
| 1     | Fuel         | 4309518.00        |     |
| 2     | Hire Charges | 43125.00          |     |
| 3     | Insurance    | 211189.00         |     |
| 4     | Repairs      | 849452.75         |     |
|       | <b>TOTAL</b> | <b>5413284.75</b> |     |

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED ON 31st MARCH - 2006.**

**EXPENDITURE**

**SCHEDULE - J  
MISCELLANEOUS**

| SL.NO | DESCRIPTION                               | Rs.                | Ps. |
|-------|---|--------------------|-----|
| 1     | A A Q S Expenses                          | 128167.50          |     |
| 2     | Advertisement & Publicity                 | 169937.00          |     |
| 3     | Appellate Authority Expenses              | 573709.00          |     |
| 4     | Bank Charges                              | 99994.25           |     |
| 5     | Board Meeting / Other meeting Expenses    | 250302.00          |     |
| 6     | Contract Charges / Wages                  | 4787601.00         |     |
| 7     | Conveyance Expenses                       | 364322.00          |     |
| 8     | Electricity & Water Charges               | 6720013.00         |     |
| 9     | Entertainment Expenses                    | 224907.00          |     |
| 10    | Environmental Pavilion Expenses           | 226976.00          |     |
| 11    | Environmental Study Expense               | 714612.00          |     |
| 12    | Environmental Training Institute Expenses | 1099545.00         |     |
| 13    | Expenses of audit                         | 12701.00           |     |
| 14    | Hazardous/Solid Waste Monitoring Exp.     | 4169710.00         |     |
| 15    | Insurance of Assets                       | 125720.00          |     |
| 16    | Land Maintenance Expenses                 | 33198.00           |     |
| 17    | Newspaper and Periodicals                 | 259701.00          |     |
| 18    | Office Expenses                           | 720393.50          |     |
| 19    | Pollution Awareness Expenses              | 1938504.00         |     |
| 20    | Postage & Telegram                        | 1107493.00         |     |
| 21    | Printing & Stationery                     | 2350894.00         |     |
| 22    | Property Tax and Rates                    | 581630.00          |     |
| 23    | Rent on Buildings                         | 3974124.00         |     |
| 24    | Staff Welfare Expenses                    | 810800.00          |     |
| 25    | Sundries                                  | 111974.50          |     |
| 26    | Telephone & Telex                         | 1957795.00         |     |
| 27    | Trade Fair Expenses                       | 363545.00          |     |
| 28    | Training and Seminar Expenses             | 802291.00          |     |
| 29    | Vehicle Monitoring Station Expenses       | 65555.00           |     |
| 30    | CETP Subsidy                              | 11432000.00        |     |
| 31    | Expenses - Govt. of Tamil Nadu            | 1338876.00         |     |
|       | <b>TOTAL</b>                              | <b>47516990.75</b> |     |

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT  
FOR THE YEAR ENDED ON 31st MARCH - 2006.**

**EXPENDITURE**

**SCHEDULE - K  
FEES**

| SL.NO | DESCRIPTION   | Rs.                 | Ps. |
|-------|---------------|---------------------|-----|
| 1     | Consent Fees  | 211119206.00        |     |
| 2     | Consent Forms | 1348970.00          |     |
|       | <b>TOTAL</b>  | <b>212468176.00</b> |     |

**SCHEDULE - L  
SERVICE AND RENTAL CHARGES**

| SL.NO | DESCRIPTION      | Rs.                | Ps. |
|-------|------------------|--------------------|-----|
| 1     | AAQS             | 16522006.00        |     |
| 2     | Analysis Charges | 17663232.50        |     |
| 3     | MINARS / GEMS    | 720636.00          |     |
| 4     | Stack Monitoring | 105590.00          |     |
| 5     | VEM Test Fees    | 2891860.00         |     |
|       | <b>TOTAL</b>     | <b>37903324.50</b> |     |

**SCHEDULE - M  
MISCELLANEOUS**

| SL.NO | DESCRIPTION                          | Rs.               | Ps. |
|-------|--------------------------------------|-------------------|-----|
| 1     | Bio-Medical Waste Authorisation Fees | 1486533.00        |     |
| 2     | Cess Appeal Fees                     | 2750.00           |     |
| 3     | Fees for Right to Information        | 2444.00           |     |
| 4     | Hazardous Waste Authorisation Fees   | 234250.00         |     |
| 5     | Interest on Loans & Advance          | 149975.00         |     |
| 6     | Miscellaneous Income                 | 1985251.00        |     |
| 7     | Public Hearing                       | 989737.00         |     |
| 8     | Sale of Books                        | 82203.00          |     |
|       | <b>TOTAL</b>                         | <b>4933143.00</b> |     |



**SCHEDULE FORMING PART OF BALANCE SHEET  
AS ON 31st MARCH 2006.**

**LIABILITIES**

**SCHEDULE - N  
OTHER DEPOSITS**

| SL.NO | DESCRIPTION              | Rs.               | Ps. |
|-------|--------------------------|-------------------|-----|
| 1     | Earnest Money Deposit    | 724985.20         |     |
| 2     | Enlistment Deposits      | 234500.00         |     |
| 3     | Others                   | 315000.00         |     |
| 4     | Retention Money Deposits | 320611.48         |     |
| 5     | Security Deposits        | 1284436.65        |     |
|       | <b>TOTAL</b>             | <b>2879533.33</b> |     |

**SCHEDULE - O  
SUNDRY CREDITORS**

| SL.NO | DESCRIPTION                          | Rs.               | Ps. |
|-------|--------------------------------------|-------------------|-----|
| 1     | Flag Day Collection                  | 5000.00           |     |
| 2     | Others                               | 159160.00         |     |
| 3     | Outstanding Liability                | 6283867.94        |     |
| 4     | Pay Roll Liabilities                 | 71732.00          |     |
| 5     | Staff Death/Retirement Claim Payable | 95000.00          |     |
| 6     | Tax Deducted at Source (Officers)    | 309677.00         |     |
|       | <b>TOTAL</b>                         | <b>6924436.94</b> |     |

**SCHEDULE - P  
INCOME RECEIVED IN ADVANCE**

| SL.NO | DESCRIPTION  | Rs.                | Ps. |
|-------|--------------|--------------------|-----|
| 1     | AAQS         | 280000.00          |     |
| 2     | Cess Fees    | 2125013.00         |     |
| 3     | Consent Fees | 8624235.10         |     |
|       | <b>TOTAL</b> | <b>88647364.00</b> |     |

**SCHEDULE FORMING PART OF BALANCE SHEET  
AS ON 31st MARCH 2006.**

**ASSETS**

**SCHEDULE - Q**

**MISCELLANEOUS ADVANCES**

| SL.NO | DESCRIPTION          | Rs.                 | Ps. |
|-------|----------------------|---------------------|-----|
| 1     | Advance to Suppliers | 5857825.00          |     |
| 2     | Imprest              | 15000.00            |     |
| 3     | Interest Receivable  | 191364310.00        |     |
| 4     | Land Advance         | 4848911.00          |     |
| 5     | Rent Advance         | 806318.15           |     |
| 6     | Staff Welfare Fund   | 25363.15            |     |
|       | <b>TOTAL</b>         | <b>202917727.30</b> |     |

**SCHEDULE - R**

**ADVANCES TO STAFF**

| SL.NO | DESCRIPTION                     | Rs.               | Ps. |
|-------|---------------------------------|-------------------|-----|
| 1     | Cycle Advance                   | 14615.00          |     |
| 2     | Festival Advance                | 271875.00         |     |
| 3     | Handloom Advance                | 85378.00          |     |
| 4     | Leave Travel Concession Advance | 1600.00           |     |
| 5     | Marriage Advance                | 58485.00          |     |
| 6     | Motor Vehicle Advance           | 2876207.00        |     |
| 7     | Pay Advance                     | 2500.00           |     |
| 8     | Personal Computer Advance       | 146075.00         |     |
| 9     | Temporary Advance               | 38846.00          |     |
| 10    | Tour Advance                    | 98990.00          |     |
| 11    | Transfer Tour Advance           | 3000.00           |     |
|       | <b>TOTAL</b>                    | <b>3597571.00</b> |     |

**SCHEDULE - S**

**DEPOSITS**

| SL.NO | DESCRIPTION                         | Rs.               | Ps. |
|-------|-------------------------------------|-------------------|-----|
| 1     | Customs Deposit                     | 46271.40          |     |
| 2     | Electricity Deposit                 | 868372.00         |     |
| 3     | Gas Deposit (Miscellaneous deposit) | 31746.00          |     |
| 4     | Telephone & Telex Deposit           | 1039697.00        |     |
|       | <b>TOTAL</b>                        | <b>1986086.40</b> |     |

**SCHEDULE FORMING PART OF BALANCE SHEET  
AS ON 31st MARCH 2006.**

**ASSETS**

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

| SL.NO | DESCRIPTION                          | AMOUNT       |
|-------|--------------------------------------|--------------|
|       | Opening balance as on 01-04-05       | 214121500.00 |
|       | Add: Interest @ 6%                   | 12847290.00  |
|       |                                      | 226968790.00 |
|       | Less: Disbursement from fund         |              |
|       | a) Commuted Pension                  | 424007.00    |
|       | b) Pension disbursed by Corp. Office | 2145689.00   |
|       | c) Pension disbursed by Units        | 1120364.00   |
|       |                                      | 3690060.00   |
|       | Add: Contribution to the Fund        | 223278730.00 |
|       | Closing balance as on 31-03-06       | 59776880.00  |
|       |                                      | 283055610.00 |

**EARN LEAVE ENCASHMENT FUND**

| SL.NO | DESCRIPTION                       | AMOUNT      |
|-------|-----------------------------------|-------------|
|       | Opening balance as on 01-04-05    | 36632649.00 |
|       | Add: Interest @ 6%                | 2197958.94  |
|       |                                   | 38830607.94 |
|       | Less: Disbursement from fund      |             |
|       | a) Disbursement to retirees etc., | 635441.00   |
|       |                                   | 38195166.94 |
|       | Add: Contribution to the Fund     | 1335878.06  |
|       | Closing balance as on 31-03-06    | 39531045.00 |

**DEPRECIATION FUND ACCOUNT**

| SL.NO | DESCRIPTION                      | AMOUNT       |
|-------|----------------------------------|--------------|
|       | Opening balance as on 01-04-05   | 181791400.45 |
|       | Add: Interest @ 6%               | 10907483.93  |
|       |                                  | 192698884.38 |
|       | Add: Current year's Depreciation | 10027058.00  |
|       | Closing balance as on 31-03-06   | 202725942.38 |

## Notes Forming Part of the Accounts for the year ended 31<sup>st</sup> March 2006.

### I. Significant Accounting Policies and Convention:

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

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

**a. Consent Fees:**

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

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

On Cash basis.

**c. Interest on Investments:**

On accrual basis.

**d. Revenue on Earmarked Funds:**

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

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

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

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

### II. Depreciation:

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

Building - 10%

Computer - 60%

Electrical Installations 15%

Furniture and Fixtures-10%,

Lab Equipments 33.33%,

Library Books- 10%,

Office Appliances-10%,

Vehicles-33.33%.

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

**IV) Retirement Benefits:**

- a) **Gratuity :** Gratuity is administered by a separate Trust managed by the Life Insurance Corporation of India. The contribution made against the fund is charged to revenue.
- b) **Pension & Earned Leave:** Contribution to Pension & 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 recognized on the basis of available records.

b) **Internal Audit**

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

c) **Fixed Assets:**

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

d) **Land Advances:**

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

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

|   | Rs.          |
|---|--------------|
| i) Ennore Thermal Power Station.        | 43,04,11,337 |
| ii) North Chennai Thermal Power Station | 35,87,49,056 |
| iii) Tuticorin Thermal Power Station    | 55,60,20,447 |
| iv) Local bodies                        | 25,41,25,370 |

**f) Income Tax :**

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

**VI) Contingent Liability:**

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

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

Place : Chennai  
Date : 10/10/2006

For CNGSN & Associates  
Chartered Accountants  
Sd /-  
C.N. GANGADARAN  
(Partner)  
Memb.No. | 1205

**ANNEXURE - I**  
**LIST OF BOARD MEMBERS AS ON 31.03.2006**

| Sl.No.                                      | NAME & ADDRESS   | Position | From          | To           |
|---|--|----------|---------------|--------------|
| 1.  | Tmt. GIRIJA VAIDYANATHAN, I.A.S.,<br>Chairperson,<br>Tamilnadu Pollution Control Board,<br>76 Mount Salai, Guindy, Chennai -600 032.                               | Member   | 12.11.03 FN   | 1.5.05 AN    |
| 2.  | Thiru. SURJIT.K.CHAUDHARY, I.A.S.,<br>Chairman,<br>Tamilnadu Pollution Control Board,<br>76 Mount Salai, Guindy, Chennai 600 032.                                  | Member   | 2.5.05 FN     | Till date    |
| <b>OFFICIAL NOMINATED BY THE GOVERNMENT</b> |  |          |               |              |
| 1.  | Thiru. SURJIT.K.CHAUDHARY, I.A.S.,<br>Secretary to Government,<br>Environment and Forests Department,<br>Fort. St. George, Chennai -600 009                        | Member   | 14.12.04 F.N. | Till date    |
| 2.  | Dr. K.SATYAGOPAL, I.A.S.,<br>Spl. Secretary to Government<br>Finance, Chennai 600 009.   | Member   | 3.11.05 FN    | 25.1.2006 AN |
| 3.  | Thiru.ASHOK KUMAR GUPTA, I.A.S.,<br>Spl. Secretary to Government,<br>Finance Department,<br>Fort. St. George, Chennai 600 009.                                     | Member   | 19.8.04 FN    | 3.6.05 A.N.  |
| 4.  | Thiru.K.GOPINATHAN,<br>Joint Secretary, Finance Department<br>Chennai 600 009.   | Member   | 18.7.05       | 2.11.05      |
| 5.  | S.HARIDHASAN THAMPY,<br>Joint Director Finance (BPE)<br>Fort. St. George, Chennai 600 009.   | Member   | 26.1.06       | Till date.   |
| 6.  | Thiru.G.SANTHANAM, I.A.S.,<br>Commissioner of Town and Country<br>Planning, Chennai 600 002  | Member   | 31.1.05 FN    | 23.6.05 A.N. |
| 7.  | Thiru. A.S.JEEVA RATHINAM, I.A.S.,<br>Director of Town and Country Planning.<br>Chengalvarayan Building, IV <sup>th</sup> Floor<br>807 Anna Salai, Chennai 600 002 | Member   | 24.6.05 FN.   | Till date.   |
| 8.  | Dr. S.MURUGAN<br>Director of Public Health and Preventive<br>Medicine, Chennai - 600 006   | Member   | 2.11.04 FN    | Till date    |
| 9.  | Thiru.K.A.MOHAMED AZIZ,<br>Chief Inspector of Factories, Chepauk,<br>Chennai 600 005.  | Member   | 27.8.04 FN    | Till date.   |

**REPRESENTATIVES FROM AGRICULTURE, FISHERIES AND INDUSTRIES DEPARTMENT**

|    |  |        |            |            |
|----|--|--------|------------|------------|
| 1. | Dr. ZACKRIAH SAIT,<br>The Regional Chairman(South Region)<br>Leather Export Promotion Council,<br>M/s.Presidency Kid Leather Ltd.,<br>476 Kilpauk Garden Road, Kilpauk,<br>Chennai 600 010 | Member | 2.6.01 FN  | Till date  |
| 2. | THIRU.R.NARAYANASWAMY, Member,<br>District Production Committee Member<br>District Fertiliser Committee,<br>No.8 First Street,Tharvazhi Village and<br>Post,Ambur (Via),Vellore District   | Member | 27.8.04 FN | Till date  |
| 3. | THIRU.P.PICHAIAH,<br>Joint Director of Fisheries (Retired)<br>No.3/14 Mahalakshmi Flats, A-II,<br>Abdul Razak Street,Saidapet,<br>Chennai 600 015.   | Member | 27.8.04 FN | Till date. |

**REPRESENTATIVES OF GOVERNMENT UNDERTAKINGS**

|    |   |        |             |               |
|----|---|--------|-------------|---------------|
| 1. | Thiru. S. KARUTHIAH PANDIAN, I. A.S.<br>Managing Director,TWAD Board<br>Chepauk, Chennai 600 005  | Member | 17.5.03 FN  | Till date.    |
| 2. | Thiru. A.A. SADAGOPAN, B.E., M.SC. (Engg.)<br>Member (Generation)<br>Tamilnadu Electricity Board,<br>Electricity Avenue, (NPKRR Maligai),<br>800, Anna Salai, Chennai-600 002 | Member | 15.12.03 FN | 14.10.05 A.N. |
| 3. | Thiru. V.NAGANATHAN, BE., MIE.<br>Member (Generation)<br>Tamilnadu Electricity Board,<br>Electricity Avenue, (NPKRR Maligai),<br>800, Anna Salai, Chennai-600 002             | Member | 15.10.05    | Till date.    |

**SPECIAL INVITEES**

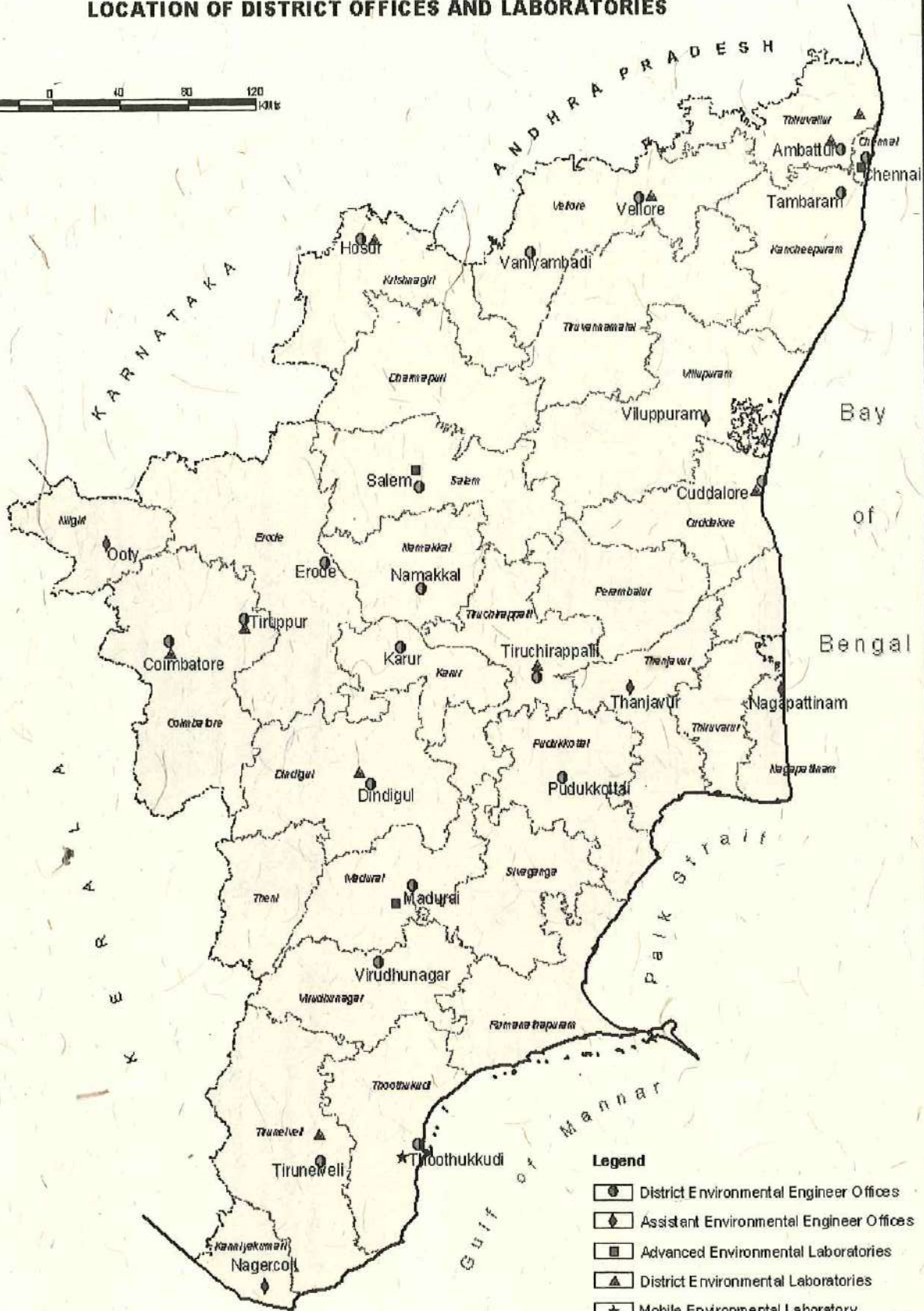
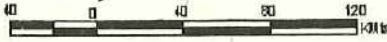
|    |   |              |               |             |
|----|---|--------------|---------------|-------------|
| 1. | Thiru. N.VASUDEVAN, I.A.S,<br>(Special Invitee),<br>Director of Industries and Commerce,<br>Chepauk, Chennai -600 005                         | Spl. Invitee | 17.5.03 FN    | 15.12.05 FN |
| 2. | Thiru, RAMESH RAM MISHRA, I.A.S.,<br>(Special Invitee)<br>Director of Industries and Commerce, (I/C)<br>Chepauk, Chennai -600 005             | Spl.Invitee  | 15.12.05 F.N. | Till date.  |
| 3. | Dr.S.BALAJI, I.F.S.,(Special Invitee)<br>Director of Environment Department,<br>Ground Floor, Panagal Building,<br>Saidapet, Chennai 600 015. | Spl.Invitee  | 24.5.2000 FN  | 29.8.05.    |



|                                   |   |             |              |               |
|-----------------------------------|---|-------------|--------------|---------------|
| 4.                                | Thiru. K.S. NEELAKANTAN, I.F.S.,<br>(Special Invitee)<br>Director of Environment Department,<br>Ground Floor, Panagal Building,<br>Saidapet, Chennai 600 015. | Spl.Invitee | 29.8.05 FN   | Till date.    |
| 5.                                | Thiru. T. MEENAKSHI SUNDARAM<br>(Special Invitee), General Manager (P&D),<br>SIPCOT, 194 Marshall Road<br>Chennai 600 008                                     | Spl.Invitee | 1.4.01       | 31.3.06 FN    |
| 6.                                | Thiru. C.T. JAGADEESAN, B.E.<br>(Special Invitee), General Manager (P&D),<br>SIPCOT, 194 Marshall Road,<br>Chennai 600 008.                                   | Spl.Invitee | 31.3.06      | Till date     |
| <b>FULL TIME MEMBER SECRETARY</b> |   |             |              |               |
| 1.                                | Thiru. R.RAMACHANDRAN,<br>Member Secretary (i/c),<br>Tamilnadu Pollution Control Board,<br>76 Mount Salai, Guindy, Chennai 600 032                            | Member      | 1.4.05       | 12.12.05 A.N. |
| 2.                                | Dr.T.SEKAR, I.F.S., Member Secretary<br>Tamilnadu Pollution Control Board,<br>76 Mount Salai, Guindy, Chennai 600 032   | Member      | 12.12.05 FN. | Till date     |

# ANNEXURE - II

## LOCATION OF DISTRICT OFFICES AND LABORATORIES



- Legend**
- ◻ District Environmental Engineer Offices
  - ◊ Assistant Environmental Engineer Offices
  - ◻ Advanced Environmental Laboratories
  - ▲ District Environmental Laboratories
  - ★ Mobile Environmental Laboratory

I N D I A N O C E A N

Prepared by OES Cell



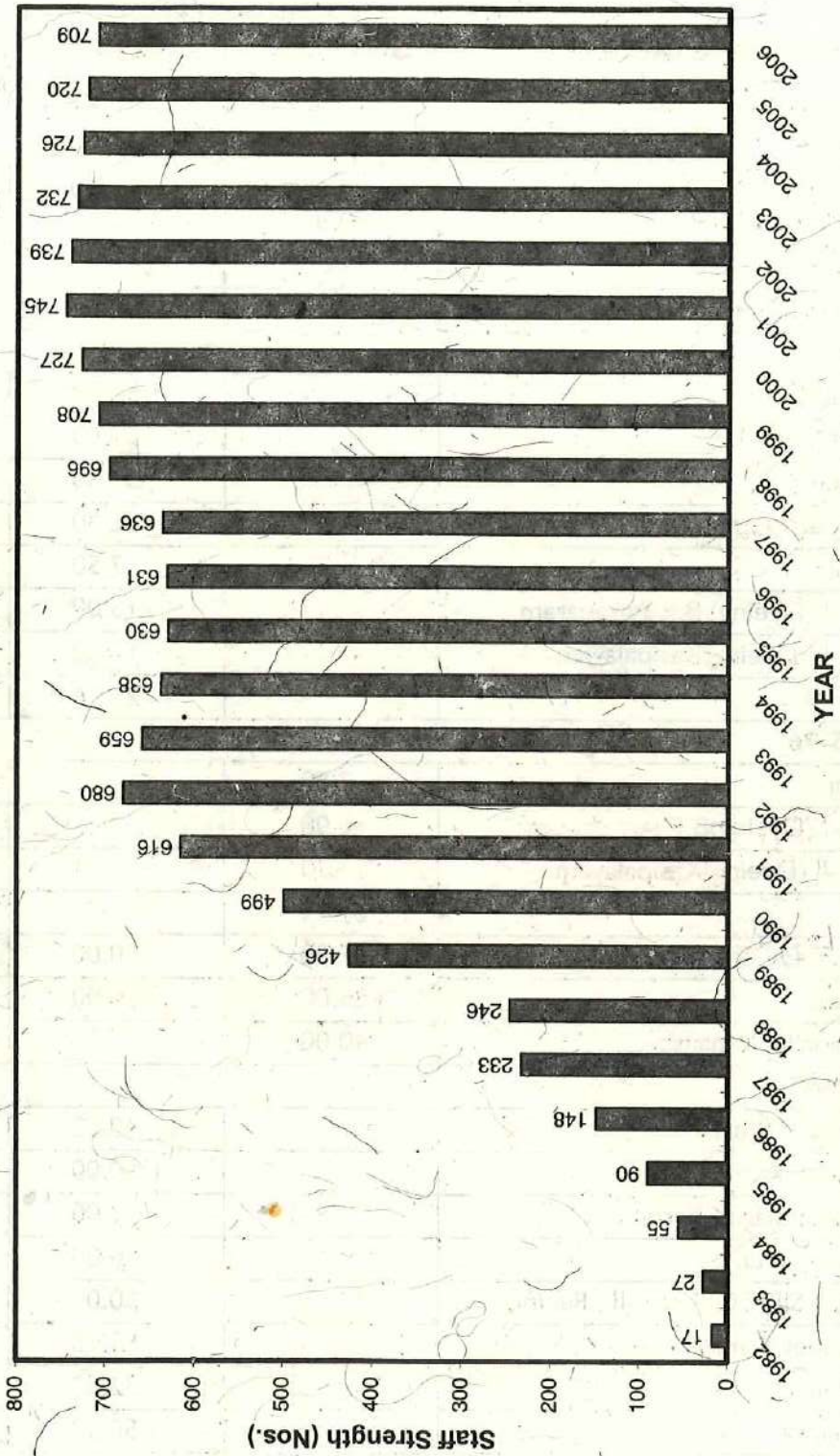
**ANNEXURE - IV**  
**STAFF STRENGTH**

| NAME OF THE POST                                | STRENGTH   |
|---|------------|
| Chairperson                                     | 1          |
| Member Secretary                                | 1          |
| Engineering Service                             | 137        |
| Scientific Service                              | 80         |
| Scientific Supporting Staff                     | 86         |
| Personnel/Administration/Accounts/Miscellaneous | 404        |
| <b>Total</b>                                    | <b>709</b> |
| <b>ENGINEERING SERVICE</b>                      |            |
| 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                | 4          |
| Assistant Engineer                              | 99         |
| Assistant Engineer (Automobile)                 | 1          |
| Assistant Engineer (Construction)               | 1          |
| Technical Assistant                             | 2          |
| <b>Sub-Total</b>                                | <b>137</b> |
| <b>SCIENTIFIC SERVICE</b>                       |            |
| Deputy Director (Labs)                          | 2          |
| Asst. Director (Lab)                            | 1          |
| Additional Manager (Labs)                       | 6          |
| Deputy Manager (Lab)                            | 16         |
| Environmental Scientist                         | 42         |
| Senior Meteorologist                            | 1          |
| Meteorologist                                   | 2          |
| Junior Environmental Scientist                  | 10         |
| <b>Sub-Total</b>                                | <b>80</b>  |
| <b>SCIENTIFIC SUPPORTING STAFF</b>              |            |
| Electrical Supervisor                           | 1          |
| Field Assistant                                 | 61         |
| Lab. Attendant                                  | 21         |
| A'D Man   | 3          |
| <b>Sub-Total</b>                                | <b>86</b>  |

**ANNEXURE - IV  
STAFF STRENGTH**

| NAME OF THE POST  | PRESENT STRENGTH |
|---|------------------|
| <b>PERSONNEL/ADMINISTRATION /ACCOUNTS / MISCELLANEOUS</b> |                  |
| Financial Advisor   | 1                |
| Deputy Director (I.A)                                     | 1                |
| Manager   | 2                |
| Additional Manager  | 5                |
| Deputy Manager  | 9                |
| Assistant Manager   | 24               |
| Junior Programmer   | 1                |
| General Assistant   | 91               |
| Data Entry Operator                                       | 3                |
| Assistant   | 38               |
| Steno Typist  | 29               |
| Typist  | 57               |
| Librarian   | 2                |
| Driver  | 59               |
| Record Clerk  | 12               |
| Telephone Operator  | 2                |
| Office Assistant/Watchman                                 | 59               |
| Despatch Rider  | 1                |
| Cleaner   | 1                |
| Sweeper   | 1                |
| Electrician   | 6                |
| <b>Sub-Total</b>  | <b>404</b>       |

**ANNEXURE V  
STAFF STRENGTH FROM THE YEAR 1982 TO 2006**



**ANNEXURE - VI**  
**FUNDS RECEIVED FOR THE CETP SCHEMES**  
[Rs.in Lakhs]

| SL. NO.             | NAME OF CETP                       | FUND RECEIVED FROM |                    | TOTAL |
|---------------------|------------------------------------|--------------------|--------------------|-------|
|                     |                                    | GOVT. OF INDIA     | GOVT. OF TAMILNADU |       |
| <b>YEAR 1991-92</b> |                                    |                    |                    |       |
| 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 |
| <b>YEAR 1992-93</b> |                                    |                    |                    |       |
| 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 |
| <b>YEAR 1995-96</b> |                                    |                    |                    |       |
| 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 |
| <b>YEAR 1996-97</b> |                                    |                    |                    |       |
| 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- SIDCOPhase -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 |

| <b>YEAR 1997-98</b>   |                                |       |        |        |
|-----------------------|--------------------------------|-------|--------|--------|
| 1                     | SIPCOT- SIDCO Phase-II         | 30.00 | -      | 30.00  |
| 2                     | Madhavaram,                    | 25.00 |        | 25.00  |
| 3                     | Ayyampettai - Muthialpettai    | -     | 13.20  | 13.20  |
| 4                     | Chettithangal, Melvisharam.    | -     | 34.85  | 34.85  |
| 5                     | Pernambut (Eruguthi Mullumedu) | -     | 38.50  | 38.50  |
| 6                     | Mittalam, Ambur                | -     | 50.00  | 50.00  |
| 7                     | Pudur, Vaniyambadi.            | -     | 35.50  | 35.50  |
| 8                     | Maligaithope, Ambur.           | -     | 50.00  | 50.00  |
| 9                     | M.C. Road, Ambur.              | -     | 50.00  | 50.00  |
| 10                    | Tarawali, Ambur.               | -     | 50.00  | 50.00  |
| 11                    | Gundur, Trichy.                | -     | 50.00  | 50.00  |
| 12                    | Ramji Nagar, Trichy.           | -     | 15.00  | 15.00  |
| 13                    | Andipalayam, Tiruppur.         | -     | 50.00  | 50.00  |
| 14                    | Mannarai, Tiruppur             | -     | 50.00  | 50.00  |
| 15                    | Manickapurampudur, Tiruppur    | -     | 31.75  | 31.75  |
| 16                    | Kasipalayam, Tiruppur          | -     | 50.00  | 50.00  |
| 17                    | Angeripalayam, Tiruppur        | -     | 50.00  | 50.00  |
| 18                    | Veerapandi, Tiruppur           | -     | 12.50  | 12.50  |
| 19                    | Chinnakarai, Tiruppur          | -     | 50.00  | 50.00  |
| 20                    | Kunnangalpalayam, Tiruppur     | -     | 50.00  | 50.00  |
| 21                    | Light House Area, Karur        | -     | 14.74  | 14.74  |
| 22                    | Sukkaliyur, Karur              | -     | 42.13  | 42.13  |
| 23                    | Sellandipalayam, Karur         | -     | 50.00  | 50.00  |
| 24                    | Karuppampalayam, Karur         | -     | 27.00  | 27.00  |
| <b>YEAR 1998-1999</b> |                                |       |        |        |
| 1                     | SIPCOT-SIDCO Phase-II          | 20.00 | -      | 20.00  |
| 2                     | Andipalayam, Tiruppur          | 53.75 | 3.75   | 57.50  |
| 3                     | Mannarai, Tiruppur             | 50.00 | 17.75  | 67.75  |
| 4                     | Manikapurampudur               | 25.00 | -      | 25.00  |
| 5                     | Angeripalayam, Tiruppur        | 50.00 | 130.00 | 180.00 |
| 6                     | Veerapandi, Tiruppur           | 40.00 | 118.75 | 158.75 |
| 7                     | Chinnakarai, Tiruppur          | 50.00 | 11.25  | 61.25  |
| 8                     | Kasipalayam, Tiruppur          | 50.00 | 5.00   | 55.00  |
| 9                     | Kunnangalpalayam, Tiruppur     | 54.00 | 4.00   | 58.00  |
| 10                    | R.K.Puram, Karur               | -     | 0.03   | 0.03   |
| 11                    | Amaravathi nagar, Karur.       | -     | 11.00  | 11.00  |
| 12                    | Tiruvai, Karur                 | -     | 2.00   | 2.00   |
| 13                    | Andankoil, Karur.              | -     | 3.59   | 3.59   |
| 14                    | Karuppampalayam, Karur         | 27.00 | -      | 27.00  |
| 15                    | Sellandipalayam, Karur.        | -     | 6.25   | 6.25   |



**YEAR 1999-2000**

|    |                            |        |   |        |
|----|----------------------------|--------|---|--------|
| 1  | Manikapurmpudur, Tiruppur  | 6.75   | — | 6.75   |
| 2  | Veerapandi, Tiruppur       | 128.75 | - | 128.75 |
| 3  | Angeripalayam, Tiruppur    | 130.00 | - | 130.00 |
| 4  | Kasipalayam, Tiruppur      | 5.00   | - | 5.00   |
| 5  | Chinnakarai, Tiruppur      | 11.25  | - | 11.25  |
| 6  | Mannarai, Tiruppur         | 17.75  | - | 17.75  |
| 7  | Maligaithoppu, Ambur       | 50.00  | - | 50.00  |
| 8  | Light house area, Karur    | 12.50  | - | 12.50  |
| 9  | Perumalpet, Vaniyambadi    | 50.00  | - | 50.00  |
| 10 | R.K.Puram, Karur.          | 0.03   | - | 0.03   |
| 11 | Chettithangal, Melvisharam | 31.25  | - | 31.25  |
| 12 | Melpudupet                 | 1.25   | - | 1.25   |

**YEAR 2000-2001**

|   |                         |       |       |       |
|---|-------------------------|-------|-------|-------|
| 1 | Thiruvai, Karur         | 2.00  | -     | 2.00  |
| 2 | Pudur, Vaniyambadi.     | 10.00 | -     | 10.00 |
| 3 | Madavaram               | 6.25  | -     | 6.25  |
| 4 | Light house area, Karur | 10.00 | -     | 10.00 |
| 5 | Karuppampalayam, Karur  | -     | 13.66 | 13.66 |

**YEAR 2001-2002**

|   |                         |       |   |       |
|---|-------------------------|-------|---|-------|
| 1 | Pudur, Vaniyambadi.     | 15.00 | - | 15.00 |
| 2 | Light House Area, Karur | 10.00 | - | 10.00 |

**YEAR 2002-2003**

|   |                    |       |   |       |
|---|--------------------|-------|---|-------|
| 1 | Pudur, Vaniyambadi | 10.50 | - | 10.50 |
|---|--------------------|-------|---|-------|

**YEAR 2003-2004**

|  |  |            |  |  |
|--|--|------------|--|--|
|  |  | <b>NIL</b> |  |  |
|--|--|------------|--|--|

**YEAR 2004-2005**

|  |  |            |  |  |
|--|--|------------|--|--|
|  |  | <b>NIL</b> |  |  |
|--|--|------------|--|--|

**YEAR 2005-2006**

|  |  |            |  |  |
|--|--|------------|--|--|
|  |  | <b>NIL</b> |  |  |
|--|--|------------|--|--|

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

**ANNEXURE - VII**

**STATUS OF AIR QUALITY OF IMPORTANT CITIES/TOWNS OF TAMILNADU-UNDER NATIONAL AIR QUALITY MONITORING PROGRAMME(NAMP) ANNUAL AVERAGE CONCENTRATIONS OF AIR POLLUTANTS 2005-2006**

| Sl. No.                                     | City & Location             | Category    | Annual Average Concentrations of Air Pollutants in µg/m <sup>3</sup> |     |     |     |     |     |      |     |     |      |     |     |  |  |  |
|---|-----------------------------|-------------|--|-----|-----|-----|-----|-----|------|-----|-----|------|-----|-----|--|--|--|
|   |                             |             | SO <sub>2</sub>  |     |     | NOx |     |     | TSPM |     |     | RSPM |     |     |  |  |  |
|   |                             |             | Max  | Min | Avg | Max | Min | Avg | Max  | Min | Avg | Max  | Min | Avg |  |  |  |
| <b>1 CHENNAI</b>                            |                             |             |  |     |     |     |     |     |      |     |     |      |     |     |  |  |  |
| a)  | Kathivakkam                 | Industrial  | 36   | 4   | 13  | 45  | 14  | 25  | 589  | 64  | 221 | 120  | 22  | 71  |  |  |  |
| b)  | Manali                      | Industrial  | 42   | 4   | 14  | 57  | 11  | 27  | 577  | 65  | 236 | 188  | 22  | 79  |  |  |  |
| c)  | Thiruvottiyur               | Mixed       | 45   | 4   | 13  | 46  | 9   | 28  | 651  | 39  | 207 | 142  | 15  | 70  |  |  |  |
| <b>2 COIMBATORE</b>                         |                             |             |  |     |     |     |     |     |      |     |     |      |     |     |  |  |  |
| a)  | DCO                         | Mixed       | 18   | 4   | 8   | 62  | 21  | 43  | 250  | 27  | 90  | 96   | 14  | 39  |  |  |  |
| b)  | Poniyarajapuram             | Residential | 14   | 4   | 7   | 57  | 19  | 38  | 209  | 30  | 86  | 108  | 10  | 44  |  |  |  |
| c)  | SIDCO                       | Industrial  | 25   | 4   | 10  | 69  | 31  | 47  | 382  | 45  | 161 | 160  | 25  | 73  |  |  |  |
| <b>3 THOOTHUKUDI</b>                        |                             |             |  |     |     |     |     |     |      |     |     |      |     |     |  |  |  |
| a)  | Raja Agencies               | Industrial  | 43   | 11  | 19  | 71  | 8   | 20  | 252  | 19  | 81  | 232  | 15  | 61  |  |  |  |
| b)  | AVM Buildings               | Mixed       | 36   | 11  | 19  | 62  | 8   | 20  | 291  | 22  | 105 | 202  | 10  | 83  |  |  |  |
| c)  | Fisheries college           | Industrial  | 31   | 11  | 19  | 71  | 7   | 22  | 220  | 16  | 66  | 209  | 13  | 54  |  |  |  |
| <b>4 MADURAI</b>                            |                             |             |  |     |     |     |     |     |      |     |     |      |     |     |  |  |  |
| a)  | Fenner (I) Assn. Building   | Industrial  | 28   | 6   | 17  | 70  | 11  | 29  | 370  | 15  | 117 | 120  | 7   | 37  |  |  |  |
| b)  | Kunnathur chathiram         | Mixed       | 26   | 5   | 10  | 83  | 10  | 28  | 460  | 52  | 208 | 185  | 18  | 57  |  |  |  |
| c)  | Highways project Buildings  | Residential | 19   | 6   | 9   | 69  | 9   | 27  | 280  | 36  | 110 | 121  | 9   | 37  |  |  |  |
| <b>5 SALEM</b>                              |                             |             |  |     |     |     |     |     |      |     |     |      |     |     |  |  |  |
| a)  | Sowdeswari college building | Mixed       | 11   | 5   | 7   | 69  | 16  | 33  | 122  | 20  | 69  | 82   | 18  | 42  |  |  |  |
| Prescribed Standard:                        |                             |             |  |     |     |     |     |     |      |     |     |      |     |     |  |  |  |
| i) Industrial                               |                             |             | 80   |     |     |     | 80  |     |      | 360 |     |      |     |     |  |  |  |
| ii) Residential, Rural & other areas(mixed) |                             |             | 60   |     |     |     | 60  |     |      | 140 |     |      |     | 60  |  |  |  |

Note: SO<sub>2</sub>: Sulphur di oxide    NOx: Oxides of Nitrogen    TSPM: Total Suspended particulate matter  
 RSPM: Respirable Suspended Particulate Matter (< 10 micron size)

## ANNEXURE - VIII

### CHENNAI AMBIENT AIR QUALITY MONITORING PROGRAMME STATUS OF AIR QUALITY DURING APRIL 2005 TO MARCH 2006

| Station             | ANNUAL AVERAGE CONCENTRATIONS OF AIR POLLUTANTS $\mu\text{g}/\text{m}^3$ |                 |      |      |
|---------------------|--|-----------------|------|------|
|                     | SO <sub>2</sub>  | NO <sub>x</sub> | RSPM | TSPM |
| ANNA NAGAR          | 6  | 26              | 75   | 183  |
| ADYAR               | 5  | 20              | 46   | 102  |
| KILPAUK             | 8  | 39              | 92   | 267  |
| THIYAGARAYANAGAR    | 8  | 37              | 81   | 209  |
| VALLALAR NAGAR      | 8  | 36              | 83   | 232  |
| Prescribed Standard | 60   | 60              | 60   | 140  |

**Note:**

SO<sub>2</sub> : Sulphur di oxide

NO<sub>x</sub> : Oxides of Nitrogen

TSPM : Total Suspended Particulate matter

RSPM : Respirable Suspended Particulate Matter (< 10 micron size)

## ANNEXURE - IX

### STATUS REPORT OF TRICHY AIR QUALITY UNDER TRICHY AMBIENT AIR QUALITY MONITORING PROGRAMME ( TAAQM) DURING 2005 - 2006

| Station                   | Average Concentrations of Air Pollutants, $\mu\text{g}/\text{m}^3$ |                 |      |      |
|---------------------------|--|-----------------|------|------|
|                           | SO <sub>2</sub>  | NO <sub>x</sub> | RSPM | TSPM |
| Gandhi Market             | 16   | 19              | 80   | 180  |
| Mainguard Gate            | 16   | 20              | 83   | 185  |
| Bishop Heber College      | 11   | 13              | 50   | 70   |
| Golden Rock               | 12   | 15              | 58   | 81   |
| Central Bus Stand, Trichy | 15   | 19              | 71   | 153  |
| Prescribed Standard       | 60   | 60              | 60   | 140  |

**Note:**

- SO<sub>2</sub> : Sulphur di oxide  
NO<sub>x</sub> : Oxides of nitrogen  
RSPM : Respirable dust particulate matter (<10 micron size)  
TSPM : Total Suspended Particulate Matter

## ANNEXURE - X

### STATUS OF VEHICLE TESTED AT TNPCB VEM STATIONS DURING 2005-2006

| 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                          | 32,200                 | 29,892                    | 2,308   | 1,626   | 682                                     | 7.17  |
| 2      | VEM Stations other than Chennai City* | 5,147                  | 4,647                     | 500   | 394   | 106                                     | 9.70  |
|        | <b>Grand Total</b>                    | <b>37,347</b>          | <b>34,539</b>             | <b>2,808</b>                                  | <b>2,020</b>  | <b>788</b>                              | <b>7.52</b>                                       |

**Note:**

\* The TNPCB VEM Stations other than Chennai City denote the stations at Udagamandalam, Katteri, Dindigul, Palani & Chengalpattu. The above stations were closed with effect from 16.11.2005 and emission check is being carried out by authorised private vehicle emission testing centres in the above places.

## ANNEXURE - XI

### RIVER WATER QUALITY - RIVER CAUVERY (UNDER GEMS PROGRAMME) 2005-2006

| Sl.No. | Parameters           | Musiri<br>Ferry Gate | Musiri<br>Bore Well | Mettur  | Pallipalayam | Tolerance<br>limit |
|--------|----------------------|----------------------|---------------------|---------|--------------|--------------------|
| 1      | pH                   | 7.8-8.7              | 7.0-8.4             | 7.7-8.9 | 7.0-9.0      | 8.5-6.5            |
| 2      | DO mg/l              | 8.2                  | 6.7                 | 7.4     | 6.5          | >4.0               |
| 3      | BOD mg/l             | <2                   | <2                  | 2.6     | 2.4          | 3                  |
| 4      | Cl mg/l              | 86                   | 248                 | 50      | 73           | 600                |
| 5      | SO <sub>4</sub> mg/l | 45                   | 14                  | 35      | 18           | 400                |
| 6      | NO <sub>3</sub> mg/l | 0.1                  | 7.5                 | 0.19    | 0.23         | 50                 |
| 7      | TH mg/l              | 252                  | 468                 | 196     | 184          | -----              |
| 8      | FC MPN/100ml         | 110                  | 41                  | 166     | 375          | 2000               |
| 9      | TC MPN/100ml         | 300                  | 86                  | 438     | 1088         | 5000               |
| 10     | DBU Class            | B                    | B                   | B       | 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
- SO<sub>4</sub> - Sulphates
- NO<sub>3</sub> - Nitrates
- TH - Total Hardness (as CaCO<sub>3</sub>)
- FC - Faecal Coliform
- TC - Total Coliform

**ANNEXURE - XII**  
**RIVER WATER QUALITY RIVER CAUVERY (UNDER MINARS PROGRAMME) 2005-2006**

| Sl.No. | Station              | DBU Class | pH Range  | DO mg/l | BOD mg/l | Cl mg/l | SO <sub>4</sub> mg/l | NO <sub>3</sub> mg/l | TH mg/l | FC MPN/ 100ml | TC MPN/ 100ml |
|--------|----------------------|-----------|-----------|---------|----------|---------|----------------------|----------------------|---------|---------------|---------------|
| 1      | Pathrakaliamman Koil | C         | 7.0 - 8.7 | 7.9     | 2.1      | 12      | 5                    | 0.19                 | 56      | 213           | 595           |
| 2      | Trichy U/S           | C         | 7.9 - 8.2 | 8.4     | <2       | ----    | ----                 | 0.18                 | ----    | 173           | 633           |
| 3      | Grand Anaicut        | C         | 7.8 - 8.3 | 7.5     | 4.1      | ----    | ----                 | 0.27                 | ----    | 203           | 461           |
| 4      | Sirumugai            | C         | 6.9 - 7.9 | 7.4     | 2.0      | 12      | 4                    | 0.21                 | 56      | 483           | 1173          |
| 5      | Bhavani              | C         | 7.5 - 8.2 | 6.7     | 2.2      | 30      | 16                   | 0.22                 | 160     | 501           | 1523          |
| 6      | Karanthattan Kudi    | C         | 7.9 - 8.8 | 8.2     | 2.3      | 175     | 43                   | 0.14                 | 144     | 257           | 1447          |
| 7      | Madathukulam         | C         | 7.2 - 8.2 | 7.9     | 2.0      | 50      | 29                   | 0.14                 | 212     | 195           | 615           |
| 8      | Erode                | C         | 7.5 - 8.5 | 5.6     | 3.2      | 165     | 59                   | 0.25                 | 232     | 809           | 2183          |
| 9      | Bhavani Sagar        | C         | 6.3 - 8.2 | 6.1     | 2.3      | 18      | 7                    | 0.2                  | 84      | 549           | 1323          |
| 10     | R.N. Pudur           | C         | 7.2 - 8.4 | 6.9     | 2.3      | 60.0    | 48                   | 0.23                 | 220     | 694           | 1843          |
| 11     | P.Velur              | C         | 7.5 - 9.1 | 7.2     | 2.1      | 75      | 33                   | 0.13                 | 212     | 250           | 663           |
| 12     | Mohannur             | C         | 7.3 - 9.2 | 7.2     | 2.2      | 81      | 29                   | 0.14                 | 156     | 323           | 786           |
| 13     | Trichy D/S           | C         | 8.1 - 8.3 | 8.4     | 2.0      | ----    | ----                 | 0.17                 | ----    | 215           | 650           |
| 14     | Coleroon             | C         | 7.2 - 9.0 | 8.1     | 2.0      | 475     | 81                   | 0.08                 | 296     | 266           | 680           |
| 15     | Pitchavaram          | C         | 7.0 - 8.5 | 5.9     | 2.8      | 1955    | 222                  | 0.43                 | 788     | 497           | 1043          |
| 16     | Thirumukkudal        | C         | 8.0 - 8.4 | 8.5     | <2       | ----    | ----                 | 0.13                 | ----    | 113           | 260           |
|        | Tolerance Limit      |           | 6.5 - 8.5 | >4      | <3       | 600     | 400                  | 50                   | ----    | 2000          | 5000          |
|        |                      | B         | 6.5 - 8.5 | >5      | <3       | ----    | ----                 | ----                 | ----    | ----          | 500           |

Designated best use underclass 'C'

DO - Dissolved Oxygen

BOD - Biochemical Oxygen Demand

Cl - Chlorides

SO<sub>4</sub> - Sulphates

NO<sub>3</sub> - Nitrates

TH - Total Hardness (as CaCO<sub>3</sub>)

FC - Faecal Coliform

TC - Total Coliform

**ANNEXURE - XIII**  
**RIVER WATER QUALITY - THAMIRAPARANI**  
**(UNDER MINARS PROGRAMME)-2005-2006**

| Sl. No. | Station           | DBU Class | pH        | DO mg/l | BOD mg/l | Cl mg/l | SO <sub>4</sub> mg/l | NO <sub>3</sub> mg/l | TH mg/l | FC MPN/ 100ml | TC MPN/ 100ml |
|---------|-------------------|-----------|-----------|---------|----------|---------|----------------------|----------------------|---------|---------------|---------------|
| 1       | Cheranmadevi      | B         | 6.8 - 7.3 | 6.3     | 1.3      | 55      | 10                   | 0.3                  | 56      | 34            | 103           |
| 2       | Kokirakulam       | B         | 6.6 - 7.5 | 6.9     | 1.8      | 55      | 18                   | 0.16                 | 102     | 54            | 235           |
| 3       | Papanasam         | B         | 6.8 - 7.6 | 7.7     | 1.8      | 55      | 36                   | 0.49                 | 48      | 26            | 108           |
| 4       | Murappanadu       | B         | 6.6 - 8.4 | 6.1     | 1.3      | 55      | 26                   | 0.16                 | 104     | 10            | 28            |
| 5       | Ambasamudram      | B         | 6.3 - 7.3 | 7.3     | 1.4      | 40      | 14                   | 0.16                 | 40      | 27            | 105           |
| 6       | Thiruidaimarudhur | B         | 6.3 - 7.3 | 7.2     | 1.3      | 35      | 16                   | 0.17                 | 54      | 11            | 26            |
| 7       | Authoor           | B         | 6.5 - 8.6 | 6.9     | 2.4      | 55      | 26                   | 0.13                 | 100     | 35            | 156           |
|         | Tolerance limit   |           | 6.5 - 8.5 | > 5     | 3        | -       | -                    | -                    | -       | -             | 500           |

Designated best use underclass 'B'

DO - Dissolved Oxygen  
 BOD - Biochemical Oxygen Demand  
 Cl - Chlorides  
 SO<sub>4</sub> - Sulphates  
 NO<sub>3</sub> - Nitrates  
 TH - Total Hardness (as CaCO<sub>3</sub>)  
 FC - Faecal Coliform  
 TC - Total Coliform



**ANNEXURE - XIV**  
**RIVER WATER QUALITY PALAR & VAIGAI RIVER BASIN**  
**(UNDER MINARS PROGRAMME)2005-2006**

| Sl. No. | RIVER           | DBU Class | pH      | DO mg/l | BOD mg/l | Cl mg/l | SO <sub>4</sub> mg/l | NO <sub>3</sub> mg/l | TH mg/l | FC MPN/ 100ml | TC MPN/ 100ml |
|---------|-----------------|-----------|---------|---------|----------|---------|----------------------|----------------------|---------|---------------|---------------|
| 1       | Palar           | B         | 6.8-7.9 | 7       | 2        | 33      | 24                   | 0.21                 | 152     | 151           | 286           |
| 2       | Vaigai          | B         | 7.5-7.6 | 6.8     | 2.3      | 151     | 8.4                  | 0.05                 | 224     | 4             | 13            |
| 3       | Tolerance limit | B         | 6.5-8.5 | >5      | 3        | -       | -                    | -                    | -       | -             | 500           |

Designated best use underclass 'B'

DO - Dissolved Oxygen  
 BOD - Biochemical Oxygen Demand  
 Cl - Chlorides  
 SO<sub>4</sub> - Sulphates  
 NO<sub>3</sub> - Nitrates  
 TH - Total Hardness (as CaCO<sub>3</sub>)  
 FC - Faecal Coliform  
 TC - Total Coliform

**ANNEXURE - XV**  
**LAKE WATER QUALITY (UNDER MINARS PROGRAMME)2005-2006**

| Sl. No. | STATION         | DBU Class | pH         | DO mg/l | BOD mg/l | Cl mg/l | SO <sub>4</sub> mg/l | NO <sub>3</sub> mg/l | TH mg/l | FC MPN/ 100ml | TC MPN/ 100ml |
|---------|-----------------|-----------|------------|---------|----------|---------|----------------------|----------------------|---------|---------------|---------------|
| 1       | Udhagamandalam  | C         | 6.8 - 8.1  | 5.2     | 9.3      | 48      | 14                   | 0.83                 | 97      | 1396          | 3822          |
| 2       | Kodaikanal      | B         | 6.40 - 7.9 | 6.4     | 2.7      | 19      | 4.4                  | 0.04                 | 37      | 9             | 25            |
| 3       | Yercaud         | C         | 6.8 - 8.5  | 7.6     | 3.1      | 35      | 4                    | 0.13                 | 87      | 538           | 1500          |
|         | Tolerance Limit | B         | 6.5 - 8.5  | >5      | 3        | -       | -                    | -                    | -       | -             | 500           |
|         |                 | C         | 6.5 - 8.5  | >4      | 3        | 600     | 400                  | 50                   | -       | 2000          | 5000          |

DO - Dissolved Oxygen  
 BOD - Biochemical Oxygen Demand  
 Cl - Chlorides  
 SO<sub>4</sub> - Sulphates  
 NO<sub>3</sub> - Nitrates  
 TH - Total Hardness (as CaCO<sub>3</sub>)  
 FC - Faecal Coliform  
 TC - Total Coliform  
 Designated best use.

**ANNEXURE - XVI**  
**MONITORING OF CHENNAI CITY WATERWAYS**

| <b>SL.NO</b> | <b>Source</b>    | <b>TSS mg/l</b> | <b>BOD mg/l</b> | <b>COD Mg/l</b> |
|--------------|------------------|-----------------|-----------------|-----------------|
| 1            | Adyar            | 76              | 41              | 167             |
| 2            | Buckingham Canal | 307             | 168             | 602             |
| 3            | Cooum            | 247             | 116             | 368             |
| 4            | Otterinullah     | 145             | 80              | 252             |

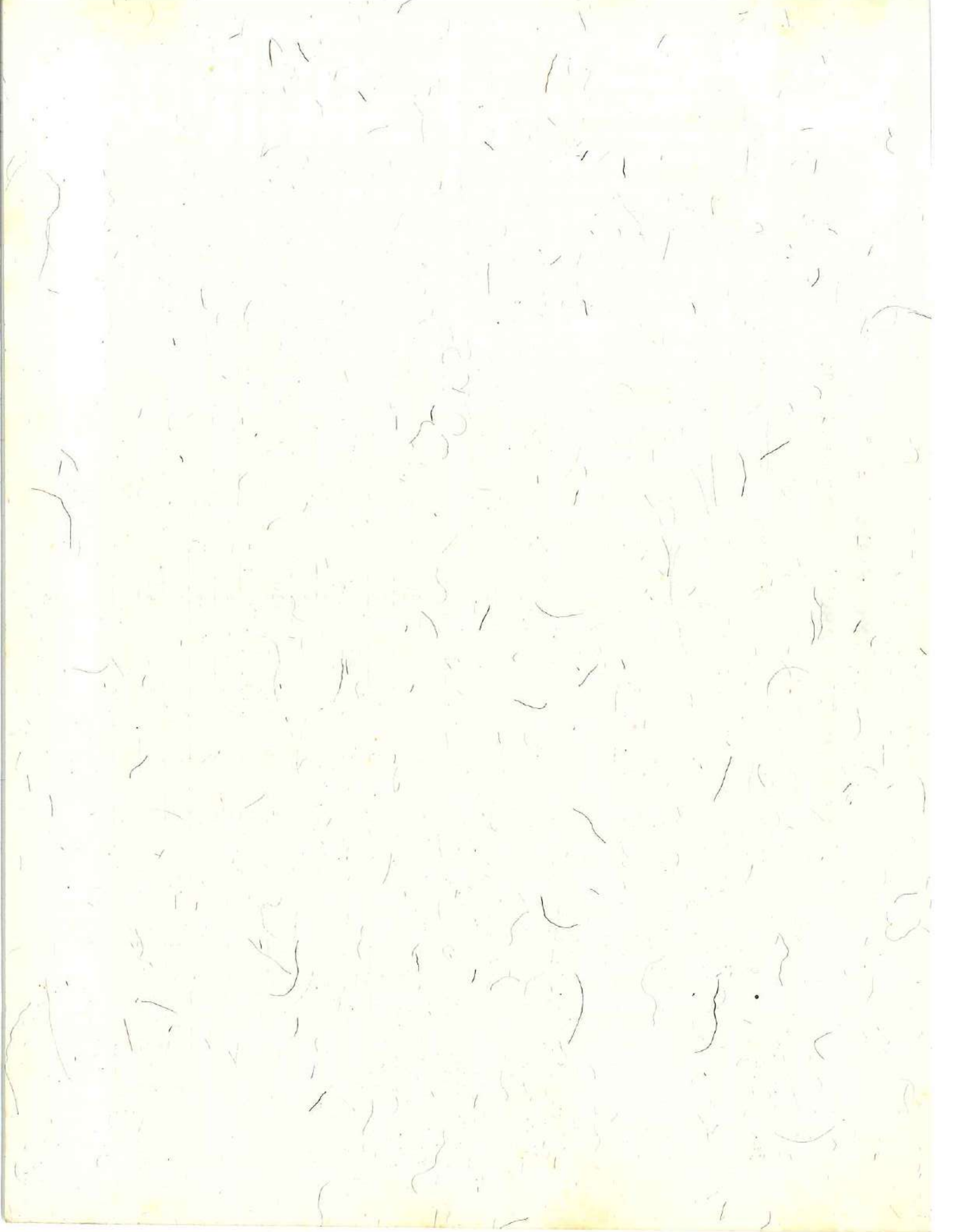
BOD - Biochemical Oxygen Demand

TSS - Total Suspended Solids

COD - Chemical Oxygen Demand

**ANNXURE XVII**  
**PERFORMANCE OF LABORATORIES (2005 - 2006)**

| Sl. No.                                  | Name of the Laboratory | Water Samples |           |           |            |              |            | Air Survey    |            |                   | Air Project   |              |              |            | Noise    |              |                   |              |                 |            |                 |
|--|------------------------|---------------|-----------|-----------|------------|--------------|------------|---------------|------------|-------------------|---------------|--------------|--------------|------------|----------|--------------|-------------------|--------------|-----------------|------------|-----------------|
|  |                        | Effluent      |           | Projects  |            |              |            | Sludge/Soil   | Total      | No. of Industries | AAQS Stations | SM Stations  | CAQM         | NAMP       | TAAQM    | Spl. Project | No. of Industries | Industry     | No. of Stations | Complaints | No. of Stations |
|  |                        | Regular       | Legal     | GEMS      | MINARS     | CCWW         |            |               |            |                   |               |              |              |            |          |              |                   |              |                 |            |                 |
| <b>Advanced Environmental Laboratory</b> |                        |               |           |           |            |              |            |               |            |                   |               |              |              |            |          |              |                   |              |                 |            |                 |
| 1  | Chennai                | 2,642         | 41        | 6         | 32         | 1,129        | 237        | 4,087         | 100        | 489               | 153           | 1,636        | -            | -          | -        | -            | 34                | 208          | 27              | 59         |                 |
| 2  | Madurai                | 989           | -         | -         | 15         | -            | -          | 1,004         | 72         | 413               | 154           | -            | 894          | -          | -        | -            | 71                | 691          | 6               | 126        |                 |
| 3  | Salem                  | 2,895         | -         | 30        | 171        | -            | 10         | 3,106         | 62         | 340               | 185           | -            | 439          | -          | -        | -            | 60                | 558          | 8               | 59         |                 |
| <b>District Environmental Laboratory</b> |                        |               |           |           |            |              |            |               |            |                   |               |              |              |            |          |              |                   |              |                 |            |                 |
| 4  | Ambattur               | 987           | -         | -         | -          | -            | -          | 987           | 70         | 354               | 119           | -            | 866          | -          | -        | -            | 69                | 340          | 1               | 5          |                 |
| 5  | Coimbatore             | 787           | -         | -         | -          | -            | -          | 787           | 74         | 334               | 123           | -            | 839          | -          | -        | -            | 62                | 316          | 34              | 270        |                 |
| 6  | Cuddalore              | 909           | -         | -         | -          | -            | -          | 909           | 37         | 235               | 77            | -            | -            | -          | -        | -            | 36                | 199          | -               | -          |                 |
| 7  | Dindigul               | 636           | -         | -         | -          | -            | -          | 636           | 34         | 211               | 75            | -            | -            | -          | -        | -            | 34                | 170          | -               | -          |                 |
| 8  | Hosur                  | 777           | -         | -         | -          | -            | -          | 777           | 62         | 299               | 142           | -            | -            | -          | -        | -            | 62                | 439          | 1               | 5          |                 |
| 9  | Manali                 | 251           | -         | -         | -          | -            | -          | 251           | 41         | 229               | 135           | -            | -            | -          | -        | -            | 36                | 186          | -               | -          |                 |
| 10                                       | Trichy                 | 1,330         | -         | -         | -          | -            | -          | 1,330         | 132        | 579               | 236           | -            | -            | 600        | -        | -            | 97                | 705          | 4               | 38         |                 |
| 11                                       | Tirunelveli            | 834           | -         | -         | 68         | -            | -          | 902           | -          | -                 | -             | -            | -            | -          | -        | -            | -                 | -            | -               | -          |                 |
| 12                                       | Tiruppur               | 994           | -         | -         | -          | -            | -          | 994           | 45         | 219               | 95            | -            | -            | -          | -        | -            | 39                | 227          | 4               | 76         |                 |
| 13                                       | Vellore                | 1,532         | -         | -         | -          | -            | -          | 1,532         | 49         | 305               | 275           | -            | -            | -          | -        | -            | 49                | 295          | 11              | 87         |                 |
| <b>Mobile Environmental Laboratory</b>   |                        |               |           |           |            |              |            |               |            |                   |               |              |              |            |          |              |                   |              |                 |            |                 |
| 14                                       | Thoothukudi            | -             | -         | -         | -          | -            | -          | -             | 45         | 313               | 110           | -            | 845          | -          | -        | -            | 37                | 185          | -               | -          |                 |
|  | <b>Total</b>           | <b>15,563</b> | <b>41</b> | <b>36</b> | <b>286</b> | <b>1,129</b> | <b>247</b> | <b>17,302</b> | <b>823</b> | <b>4,320</b>      | <b>1,879</b>  | <b>1,636</b> | <b>3,883</b> | <b>600</b> | <b>-</b> | <b>-</b>     | <b>686</b>        | <b>4,519</b> | <b>96</b>       | <b>725</b> |                 |





## **Tamilnadu Pollution Control Board**

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