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தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம்
TAMIL NADU POLLUTION CONTROL BOARD

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CHAPTER – 1

1.1 INTRODUCTION

The Tamilnadu Prevention and Control of Water Pollution Board (TNPCB) was constituted by the Government of Tamilnadu on twenty seventh day of February, Nineteen eighty two(27-2-1982) in pursuance of the Water (Prevention and Control of Pollution) Act, 1974 (Central Act 6 of 1974). The Board was later renamed as Tamilnadu Pollution Control Board (TNPCB) in the year 1983. It enforces the provisions of the Water (Prevention and Control of Pollution) Act, 1974, the Water (Prevention and Control of Pollution) Cess Act, 1977, the Air (Prevention and Control of Pollution) Act, 1981, and the rules made under the Environment (Protection) Act, 1986 which includes

- The Environment (Protection) Rules, 1986
- The Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 as amended.
- The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended in 1994 and 2000
- The Biomedical Waste (Management and Handling) Rules, 1998 as amended in 2000 & 2003.
- The Plastics Waste (Management & Handling) Rules, 2011
- The Noise Pollution (Regulation and Control) Rules, 2000
- The Municipal Solid Wastes (Management and Handling) Rules, 2000
- The Battery (Management and Handling) Rules, 2001 as amended.

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 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 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 programme 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.

CHAPTER - 2

2.1 CONSTITUTION OF TNPCB

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

2.2 ORGANISATIONAL SET UP

The TNPCB has established its organization structure with a two-tier system consisting of head-office at Chennai and district offices with total staff strength of 715. There are 31 district offices, 28 are headed by District Environmental Engineers and 3 by Assistant Environmental Engineers. The locations of district offices are shown in Annexure – II.

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

To assist the Board in monitoring the industries, 5 Advanced Environmental Laboratories, 8 District Environmental Laboratories and one 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.

CHAPTER - 3

3.1 ENVIRONMENTAL LEGISLATIONS

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

- The Water (Prevention and Control of Pollution) Act, 1974 as amended in 1978 & 1988.
- The Tamilnadu Water (Prevention and Control of Pollution) Rules, 1983.
- The Water (Prevention and Control of Pollution) Cess Act, 1977, as amended in 1991 and 2003.
- The Water (Prevention and Control of Pollution) Cess Rules, 1978 as amended in 1992.
- The Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987.
- The Tamilnadu Air (Prevention and Control of Pollution) Rules, 1983.
- The Environment (Protection) Act, 1986.
- The Environment (Protection) Rules, 1986 as amended.
- The Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2008 as amended.
- Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended in 1994 & 2000.
- The Manufacture, Use, Import, Export and Storage of Hazardous Micro organisms / genetically engineered organisms or cells Rules, 1989.
- The Public Liability Insurance Act, 1991 as amended in 1992.
- The Public Liability Insurance Rules, 1991.
- Coastal Regulation Zone Notification, 1991 as amended in 1994, 1997 & 2001.
- The Environment Impact Assessment Notification, 2006 as amended in 2009,
- The National Environment Tribunal Act, 1995.
- The Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996
- The National Environment Appellate Authority Act, 1997.
- The National Environment Appellate Authority (Appeal) Rules, 1997.
- The Bio-Medical Waste (Management and Handling) Rules, 1998 as

amended in 2000, 2003.

- Fly Ash Utilization Notification, 1999 as amended in 2003.
- The Plastics Waste (Management & Handling) Rules, 2011.
- 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 as amended.

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 ultra Red, Red, Orange, and Green according to their pollution potential. Also the industries have been classified as Large, Medium and Small scale based on the grossed fixed assets of the industry. Depending upon the category and size, industries are monitored periodically.

3.3 PROCEDURE FOR ISSUE OF CONSENT

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

3.4 WATER POLLUTION CONTROL

The Water (Prevention and Control of Pollution) Act, 1974 as amended in 1988 is enacted to prevent and control water pollution and to preserve or maintain or restore the quality of water. As per the provisions of this Act, the local bodies and industries, which discharge sewage /trade effluent, are required to apply and obtain

the consent from the Board. The industries generating trade effluent are required to provide effluent treatment plant to treat their trade effluent to satisfy the standards prescribed by the Board. Industries are constantly monitored regarding the functioning of their effluent treatment plants and samples of treated sewage/trade effluents are collected regularly to assess the quality of effluent discharged and also to assess the efficiency of the effluent treatment plants provided. During the year 2010-2011, 18455 samples of sewage and trade effluents from the industries were collected and analysed. The Board has issued 1171 'Consent to Establish' orders and 1053 'Consent to operate' orders under the Water (Prevention and Control of Pollution) Act, 1974 as amended during the year 2010-2011.

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.

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 2010-2011, ambient air quality surveys have been conducted in 1134 industries. The Board has issued 1175 'Consent to Establish' orders and 1050 'Consent to Operate' orders under the Air (Prevention and Control of Pollution) Act, 1981 as amended during the year 2010 - 2011.

3.6. COMMON EFFLUENT TREATMENT PLANTS

The TNPCB plays an important role in the establishment of Common Effluent Treatment Plants (CETPs) for clusters of small-scale industries in various parts of the State. Small-scale industries often express financial difficulties, lack of space and other reasons, which prevent them from putting up required individual effluent

treatment plant. As a large number of small-scale units are in clusters, the Board has launched a massive programme of motivating these industries to set up common effluent treatment plants. The Board assists the units in mobilization of financial resources and in the technical scrutiny of the proposals for the common effluent treatment plants.

3.6.1 FINANCIAL PATTERN OF CETP SCHEMES

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

3.6.2 STATUS OF COMMON EFFLUENT TREATMENT PLANTS:

Common effluent treatment plants are formulated in the following sectors:

Tanneries	21 Schemes
Textile Bleaching & Dyeing Units	31 Schemes
Hotels & Lodges	1 Scheme

Out of 53 CETPs formulated, 15 CETP schemes for tanneries, 29 CETP schemes for textile dyeing units and 1 CETP scheme for hotels and lodges are under operation. 7 CETP schemes for tanneries and 2 CETP schemes for textile dyeing units are under various stages of implementation. State and Central Governments sanction the subsidy for implementing the CETP schemes. Prior to 2003-04 the Government of Tamil Nadu has sanctioned Rs.26.88 crores towards subsidy for the common effluent treatment plants and out of this Rs.22.66 crores has been released as on 31.03.2003 through the Board and Tamil Nadu Leather Development Corporation. During 2003-2004, 2004-2005 and 2005-2006, State subsidy of Rs.86.49 lakhs to M/s. Kovai Telungupalayam Common Effluent Treatment Private Limited and Rs 114.32 lakhs to M/s Perundurai CETP has been granted.

3.7 MANAGEMENT OF HAZARDOUS WASTES AND CHEMICALS

Tamil Nadu Pollution Control Board is implementing the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2008 notified by the Government of India, under the E(P) Act 1986. Tamil Nadu Pollution Control Board is

taking effective steps for safe handling of hazardous wastes including collection, treatment, storage, transport and disposal in an environmentally sound manner. As on 31.03.2011, there are 2855 hazardous waste generating industries in Tamil Nadu generating total of 4,38,572.05 T/Y of hazardous waste of which 1,78,498.05 tons is recyclable, 18,190.08 tons is incinerable and 2,41,883.92 tons is landfillable.

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

Another site for CHWTSDF has been identified at SIPCOT, Perundurai, Erode District. The EIA studies and the process of public hearing have been completed. Environmental Clearance is awaited from the SEIAA.

The TNPCB is promoting utilization of Hazardous Waste in cement kilns for co-incineration. M/s.Grasim Industries, Ariyalur Reddiarpalayam, M/s.ACC, Madukarai have been given permission in this regard.

3. 8 MANAGEMENT OF BIOMEDICAL WASTES

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

Biomedical waste shall be treated and disposed in accordance with schedule 1 and in compliance with the standards prescribed in schedule –V of the said rules.

The Board has so far inventoried 3304 private hospitals, 308 Government hospitals in the State. All the health care facilities have joined area wise in common biomedical waste treatment and disposal facilities having treatment systems like autoclave, shredder, compactor, incinerator and secure landfill facility. So far 11 common facilities have been established for the private sector health care units in the State at Thenmelpakkam Village and Chennakuppam Village in Kancheepuram District. Kandipedu Village in Vellore District, two facilities at Orattukuppai Village in Coimbatore District, Sengipatti Village in Thanjavur District, Muthuvayal Village in Ramanathapuram District, Coonoor in the Nilgiris District, Ettankulam Village in Tirunelveli District, Thangayur Village in Salem District and Undurmikidakulam in Virudhunagar District.

All the 11 common treatment facilities have been issued authorisation by the Board, so far 3062 health care facilities are also issued authorisation. The Government Hospitals, under the Tamilnadu Health systems project, are being brought with Private Common Bio Medical Waste treatment facilities for the safe disposal of Bio Medical Waste management.

3.9. MANAGEMENT OF MUNICIPAL SOLID WASTES

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

Board initially issues 'No Objection Certificate' to the sites selected by the local body if the site is found suitable and not owned by the local body. This is done to speed up the process of acquiring the land and setting up the compost facility by the local bodies. So far 122 out of 148 municipalities have been issued NOC for the site selected by them. Out of these 89 municipalities and 23 Town Panchayat have

been issued with authorisation. Seven Corporations have also been issued with NOC. Further power has been delegated to DEES/AEEs to issue NOC to Municipalities and Town Panchayats on 08.02.2010 in order to speedup the issue of NOCs to the local bodies.

3.10 MANAGEMENT OF PLASTIC WASTE

The Government of India, Ministry of Environment and Forest notified the Recycled Plastics Manufacture Sale and Usage Rules, 1999 as amended under the Environment (Protection) Act, 1986 to ensure that carry bags and containers used for packing food stuff is not made of recycled plastics. As per the provision of the said rules, only virgin plastics, permitted additives and colour are to be used in plastic items shall use for packaging foodstuff. All District Collectors, local bodies, Commissioner of Police, Special Commissioner and Commissioner of civil supplies have been addressed to ensure compliance with the provision of the said rules. The Board has identified 1941 plastic products manufacturing units and issued consent for the same.

The Tamil Nadu Pollution Control Board has taken many initiatives to deal with the plastic wastes. Tamil Nadu Pollution Control Board has instructed all the local bodies to pass resolution and ban the use of use and throw carry bags, cups, tumblers, sheets, plastic plates etc., In continuation to the above, Many awareness programmes were conducted by Tamil Nadu Pollution Control Board on the ill effects of plastics and the need to use alternatives to the use and throw plastic items to the Public/Government body. All the marriage halls, hotels, educational institutions, Government offices in Tamil Nadu were instructed not to use the use and throw plastic items.

The Ministry of Environment and Forest, Government of India vide notification' dt:04-02-2011 has notified Plastic Waste (Management and Handling) Rules, 2011. As per this notification, no person shall manufacture, stock, distribute or sell any carry bag made of virgin or recycled or compostable plastic, which is less than 40 microns in thickness.

CHAPTER - 4

4.0 MONITORING NETWORK FOR QUALITY OF AIR AND WATER

4.1 AMBIENT AIR QUALITY MONITORING PROGRAMME AT CHENNAI CITY

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

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

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

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

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

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

4.1.1 The National Ambient Air Quality Standards prescribed is given below:

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

including traffic inter section				
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The ambient air quality data collected from the above mentioned air quality monitoring stations (NAMP) indicate that all the parameters such as sulphur dioxide, oxides of nitrogen, total suspended particulate matter and respirable dust particulates are found to be well controlled in the industrial area due to the effective monitoring of industrial source emissions by the TNPCB. The average values of pollutants recorded under NAMP programme during the year 2010-2011 are in **Annexure-VI.**

In general, under CAAQM project the ambient air pollutants such as sulphur dioxide and oxides of nitrogen are well within the standards in Chennai city limit, where as respirable suspended particulate matter (PM₁₀) levels exceeded the permissible limit at all stations except Adyar mainly due to the dust contributed by pipe line, telephone/electrical cable laying activities on the road and also due to the resuspension of traffic dust generated from automobile emissions and heavy vehicular traffic and pedestrian movement. The average values of pollutants recorded under CAAQM programme during the year 2010-2011 are in **Annexure – VII.**

4.2 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.

1	Raja Agencies	Industrial zone
2	SIPCOT	Industrial zone
3	A.V.M. Building	Mixed zone

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

1	G.D. Matriculation School Buildings	Mixed zone
2	Ponniyarajapuram	Residential zone
3	SIDCO Building	Industrial zone

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

1	Sowdeswari College	Mixed zone
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At Madurai, the ambient air quality stations have been functioning from July

1996 in the following locations:

1	Highways Project Building	Residential zone
2	M/s.Susee Cars and trucks Co., Ltd.	Industrial zone
3	Avvai Girls Higher Secondary School	Mixed zone

The ambient air quality data recorded during 2010-2011 indicate that all the parameters such as sulphur dioxide, oxides of nitrogen, total suspended particulate matter and respirable suspended particulate matter are found to be well controlled at Thoothukudi, Madurai, Coimbatore and Salem except in Thoothukudi at M/s. Raja Agencies and at Sowdeswari College buildings Salem, where the annual average value of RSPM are found to exceed the permissible limits due to heavy commercial activities and traffic flow. The annual average values of pollutants recorded during the year 2010-2011 are in **Annexure - VI**

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 collected from the TAAQM stations in Trichy indicates that the average concentrations of SO₂ and NO_x values are found well within the prescribed standard and the RSPM and TSPM values (except at Bishop Heber College and at Golden Rock) 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 2010-2011 are in **Annexure - VIII**

4.3 VEHICULAR EMISSION MONITORING

4.3.1 VEHICULAR EMISSION MONITORING IN CHENNAI CITY

TNPCB was 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 (was located at Ambattur w.e.f. 8-12-2005), Madhavaram and Ambattur till 31.12.2009 and now TNPCB is carrying out Vehicle emission monitoring only at Ambattur since 01.01.2010. During the year 2010-2011, 1142 vehicles were tested. Among the total vehicles tested, 27 vehicles did not comply with the emission standards during the first test. Vehicles that do not comply with the emission standards are instructed to carry out corrective measures to comply with the emission standards. Emission under control certificates are issued to only these vehicles comply with the emission standards in the subsequent tests. In addition, 74 private agencies have been authorised by the Transport Department in Chennai urban agglomeration area to check the emission levels of the vehicles. The details of vehicles tested at TNPCB VEM, Station during 2010-11 are in **Annexure IX**.

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

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

4.4.1 THE RIVER CAUVERY

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

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

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

The overall analysis of the data reveals that the faecal contamination of surface water of the river is a common phenomenon due to the unhygienic

anthropogenic activities and disposal of either untreated or partially treated municipal waste into the river systems directly or indirectly. In general, the water quality of the river is categorized under B & C class designated best use for outdoor bathing and drinking water source with conventional treatment followed by disinfection.

4.4.2 THE THAMIRAPARANI RIVER

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

The water quality study conducted during the year 2010-2011 shows that the average level of pH values varied from 6.96 to 7.23 and the average values of the bio-chemical oxygen demand (BOD) varied from 1.4 to 2.4 mg/l as against the standards prescribed for pH (6.5 to 8.5) and bio-chemical oxygen demand (3mg/L). The parameters analysed meet the standards prescribed for surface water quality under the class 'B' & 'C' class designated best use for out door bathing and drinking water source with conventional treatment followed by disinfection.

4.4.3 THE PALAR RIVER

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

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

4.4.4 THE VAIGAI RIVER

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

The water quality of the Vaigai River (collected from infiltration well) meets the standards prescribed for surface water quality under class 'C' and the details are furnished in the **Annexure-XII**.

4.4.5 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 – XIII-(A)**.

Udthagamandalam Lake is found to exceed the standards prescribed due to the surface run off and sullage discharge into lake either directly or indirectly.

The water quality of the Udthagamandalam and Kodaikanal lake meets the standards prescribed for surface water under class 'D'(Designated Best Use for propagation of wild life and fisheries. The water quality of Yercaud lake meets the standards prescribed under class 'C'.

4.5 MONITORING OF CHENNAI CITY WATERWAYS

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

Source	River No. of station	Industrial outlets No. of stations
Adyar	6	6
Cooum	11	7
Buckingham canal	10	12
Otteri Nullah	7	5

During the year 2010-2011, 1819 samples were collected and analysed at the Advanced Environmental Laboratory, Chennai. The mean values of water quality are furnished in the **Annexure-XIII-B**.

4.6 LABORATORIES

To assist the Board in the monitoring of industries, the Tamilnadu Pollution Control Board has Established 5 Advanced Environmental Laboratories, 8 District Environmental Laboratories and one Mobile Environmental Laboratory under section 17 (2) of the Water (Prevention and Control of Pollution) Act, 1974 amended in 1978 and 1988, so as to enable the Board to perform its functions efficiently and to cover the industries located in various districts. Samples of effluents are collected periodically and analysed. The details of samples analysed laboratory wise during

the year 2010-2011 are shown at **Annexure – XIV**.

4.7 ENVIRONMENTAL AWARENESS AND PUBLIC PARTICIPATION

As a part of the awareness campaign to inform the public about the health effects caused by air & noise pollution, due to bursting crackers continuously, special monitoring programmes were launched by TNPC Board for 2010 - 2011 during festival seasons with monitoring of noise level and air quality level during Deepavali and monitoring of air quality level during Bhogi, 2011. The Noise level and the Ambient air quality surveys were conducted during Deepavali in important cities of Tamilnadu viz., Chennai, Trichy, Coimbatore, Madurai, Tirunelveli, Vellore, Salem, Hosur, Tiruppur and Cuddalore. A special Ambient air quality survey on pre-bhogi, bhogi and post bhogi days were conducted in Chennai at nine places viz., Anna Nagar, Beasant Nagar, Kilpauk, Royapuram, Thiyagaraya Nagar, Vallalar Nagar, Vysarpadi, Triplicane and Mandaveli.

Apart from the above, TNPCB has imparted training to persons 47 attached to the private emission testing centers and issued 80 performance certificate for the emission monitoring instruments attached to the private emission testing centers.

CHAPTER – 5

5.1 ENVIRONMENTAL STANDARDS

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

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

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

MOEF has issued revised standards during Nov 2009 for the National Ambient Air Quality. All the industries have been advised to adhere to the revised emission standards.

CHAPTER - 6

6.1 LEGAL ACTION

The TNPCB is taking legal action against the defaulting industries. The Board has so far issued show cause notices to 49859 industries and closure orders to 7759 industries for not complying with the conditions prescribed by the Board. During the year 2010-2011, 2257 show cause notices and 1768 closure orders have been issued.

6.2. GREEN BENCH

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

6.3. APPELLATE AUTHORITY

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

Any person aggrieved by an order made by the SPCB under Section 25, 26 or 27 of the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987 may within 30 days from the date on which the order is communicated to him, prefer an appeal to the said authority. During the year 2010 – 2011, 175 appeals have been filed by the aggrieved units in the Appellate Authority and the said authority disposed 73 appeals.

CHAPTER - 7

7.1 BOARD MEETINGS

MEETINGS OF THE BOARD WERE HELD DURING THE PERIOD FROM APRIL 2010 TO MARCH 2011. THESE DETAILS ARE LISTED BELOW.

SL. NO.	NO.OF SUBJECTS PLACED	BOARD MEETING NO.	DATE OF MEETING
1.	44	238 th	20/08/2010
2.	35	239 th	09/11/2010
3.	13	240 th	30/12/2010
4.	24	241 th	21/03/2011

7.2 MAJOR POLICY DECISION TAKEN BY THE TAMILNADU POLLUTION CONTROL BOARD DURING THE PERIOD FROM APRIL 2009 TO MARCH 2010.

- 1) The Board resolved to approve the proposal of setting up of a "Vigilance Cell" in Corporate Office, Tamilnadu Pollution Control Board and to forward the same to the Government to sanction the posts required for the cell.
- 2) The Board resolved to approve the formation of 3 flying squads with their headquarters at Vellore, Erode and Tiruppur by creation of the following posts, viz.,

- Environmental Engineer - 3
- Assistant Environmental Engineer - 6
- Steno Typists (Grade – III) - 3

with recurring cost of Rs.37.45 lakhs and non-recurring cost of Rs.23.70 lakhs. The Board also directed that new vehicles should be procured for the flying squads and that the flying squads should use Board vehicles only.

- 3) The Board resolved to approve the proposal of formation of Office of Joint Chief Environmental Engineer (Monitoring) in 5 zones by creation of the following posts, viz,

- Joint Chief Environmental Engineer- 5
- Assistant Environmental Engineer - 5
- Deputy Manager (Labs) - 5
- Steno Typist (Grade – II) - 5

and to forward the proposal for creation of the required posts to the Government for its approval.

4) The Board resolved to approve the proposal of formation of new Assistant Environmental Engineer Offices with headquarters at Theni and Sivagangai by bifurcation of Dindigul District Office and Madurai District Office and by creation of the following posts, viz.,

- Assistant Environmental Engineer - 2
- Assistant Engineer - 4
- General Assistant - 2
- Typist - 2
- Office Assistant, - 2 (Contract from TEXCO)
- Field Assistant - 2 (Contract from TEXCO)

and to forward the proposal to the Government for its approval.

5) கோ.அ.அரசு மேல்நிலைப் பள்ளி, சங்கரன் கோவில் மற்றும் அரசு மேல்நிலைப்பள்ளி, மணலி ஆகிய இரு பள்ளிகளுக்கு தலா ஒரு இலட்சம் என இரு இலட்சம் பசுமை வளையம் அமைத்திட அப்பள்ளிகளுக்கு சம்பந்தப்பட்ட மாவட்ட ஆட்சித் தலைவர் மூலமாக நிதி வழங்கிட வாரியம் ஒப்புதல் அளித்தது.

6) The Board resolved to forward the proposal of establishing 4 Real time CAAQM stations one each at Manali (Chennai), Cuddalore, Ranipet and Coimbatore at an approximate cost of Rs.575 lakhs under expansion programme with 50% sharing of cost to Central Pollution Control Board.

7) The Board resolved to approve the proposal to grant a sum of Rs.1 lakh each to the 7 municipalities in Virudhunagar District to create awareness among the public for the management of plastic waste.

8) The Board resolved to grant of financial aid of Rs.4.00 lakhs to the tourist centre Azhagar Koil, Madurai District, Tamilnadu to create awareness on the ill effects of throw away plastic items. The Board further resolved that the sum may be disbursed after the State Assembly Election.

CHAPTER - 8

8.1 ENVIRONMENTAL TRAINING INSTITUTE

ETI is an organizational wing of TNPCB, which was established in 1994 with Danish assistance. It is functioning in the 3rd floor of its corporate office of TNPCB. ETI is guided by a steering committee, chaired by Chairman of TNPCB and its Members are from Government, PCB and CEOs of Industry. An Advisory Council comprising of Members from Industries, NGOs, Academic and government institutions provides technical support to the ETI.

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

- (i) Improve awareness at all levels.
- (ii) Introduce the holistic approach to environment & sustainable development
- (iii) Introduce the basic theories, concepts and methodologies of integrated environmental planning and management aiming a sustainable development
- (iv) Promote public awareness and motivation to preserve and protect the environment through NGOs.
- (v) Create Cross - media awareness in industry, urban sector and the public on Environmental Hazards and adverse impact on quality of life.
- (vi) Pollution Control at source by cleaner technology and improved processes of materials and products. This includes conservation of non-renewable resources, resource recovery, refuse recycling and disposal of minimum waste to the environment.
- (vii) Improve environment management capacity in the sector of industry and urban development.
- (viii) Develop the ability among professionals to communicate effectively.

During the year 2010 -2011 this training institute has conducted 14 programmes and trained 757 personnel in total.

CHAPTER - 9

9.1 ENVIRONMENTAL AWARENESS AND PUBLIC PARTICIPATION

As a part of the awareness campaign to create awareness among the public about the health effects caused due to air and noise pollution by bursting of crackers continuously, Special monitoring programs were launched by TNPC Board for 2010-11, During festival seasons the monitoring of noise level, and air quality level, during deepavali the monitoring of air quality level and also during bhogi. The noise level and the ambient air quality survey was carried out during deepavali in the important cities of Tamil Nadu viz. Chennai, Trichy, Coimbatore, Madurai, Tirunelveli, Vellore, Salem, Hosur, Tiruppur and Cuddalore. A special ambient air quality survey on pre-bhogi, bhogi and post-bhogi days were carried out in Chennai at nine places viz. Anna Nagar, Besant Nagar, Kilpauk, Royapuram, Thiyagaraya Nagar, Vallalar Nagar, Vyasarpadi, Triplicane and Mandaveli.

As a part of awareness programme the mobile exhibition vehicle was also done to all schools of Tamil Nadu for creating awareness among the students for which 50 programmes were conducted. In the Anna FM 38 environmental programs were broadcasted. Apart from the above, TNPCB has conducted 160 awareness programmes on various environmental issues for the public, school students, other institutions etc.

CHAPTER – 10

10. OTHER IMPORTANT MATTERS DEALT IN THE BOARD

10.1 PUBLIC HEARING

Some specific categories of industrial projects require environmental clearance from the Ministry of Environment & Forests, Government of India as per the Notification issued. As per the instruction of the MOEF and State Environment Impact Assessment Authority, the Tamil Nadu Pollution Control Board conducts public hearing headed by the District Collector. After conducting public hearing, inviting opinions from the public, the details of the minutes are sent to the MOEF, Government of India.

10.2 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. There are 207 dyeing units in the State including 148 units at Tiruppur have provided reverse osmosis plants for recovering the process water from the effluent. The recovered water is reused in the process. In sugar industries, water condensate from evaporators is reused. As a condition for issue of consent, industries have been instructed to provide rainwater harvesting arrangements. During the last two years, all the industries have set up rain water harvesting systems. The roof top rainwater harvesting system has also been provided in the offices of the Tamilnadu Pollution Control Board.

10.3 CLEANER TECHNOLOGIES

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

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

10.4 WASTE MINIMISATION

With the adoption of cleaner technologies there has been progress in waste recovery and waste minimization. Examples include recovery of materials such as chrome from tannery effluent and ammonia from fertilizers. Out of 17 distilleries, 16 distilleries have gone for biocomposting of their effluents with press mud of sugar factories for achieving zero discharge of trade effluent. And the remaining one distillery has established concentration cum incineration system to dispose spent wash effluent and achieved zero discharge of trade effluent.

10.5 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. In activated carbon process, the waste heat is recovered and used at boiler section. Other industrial units are encouraged to use less energy and it is being audited through the environmental statements of the unit.

10.6 ENVIRONMENTAL STATEMENT

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

10.7 ENVIRONMENTAL AUDIT

For self auditing of the environmental management systems, all major industrial units have been asked to get the ISO 14001 certifications which are awarded after auditing the environmental management systems by an external agency.

10.8 GREEN COVER PROGRAMME

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

10.9 EXTERNALLY AIDED PROJECTS

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

10.10 COMPLAINT CELL

Due to increased Environmental awareness and awareness on Pollution Control Legislation several complaints are being received from various individuals / Organisation/ NGOs etc. regarding water, air, noise and vehicular Pollution. To take appropriate action against these complaints, an active 'Complaint Cell' is functioning in the head office, Chennai on all working days. For easy access of the Public and others, separate telephone number, 044-22353153, fax 044-22353153 and e-mail-tnpcbcomplaint@gmail.com is allotted for receiving complaints and guidance. The complaints are attended by calling reports along with the recommendations from the field officers of the Board. Action is taken based on the reports as early as possible. For attending environmental related complaints especially in Chennai City, a 'Green Squad' under the control of District Environmental Engineer, Tamilnadu Pollution Control Board, Chennai has been formed. Two patrolling vehicles and two two-wheelers have been provided to the Green Squad Chennai Districts. Further the Office of District Environmental Engineer, Ambattur and Tambaram at Maraimalai Nagar have also been provided with one Two wheeler for each to the Green Squad. The Green Squad visits the complaint immediately as and when received and intimates the facts to the District Environmental Engineers, Tamilnadu Pollution Control Board for action.

10.11 RIGHT TO INFORMATION ACT

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

Office and 28 District Officers are also designated as Public Information Officers to provide information to the persons requesting for information under the Right to Information Act 2005. The Board has received 456 applications seeking information for the period from 01.04.2010 to 31.03.2011 and the Board has disposed all the request of 456 applicants.

Further the Board has also received 82 appeal petitions and all the appeal petitions were disposed during the same period.

10.12 LIBRARY

The TNPC Board Library was established during November 1989. At present library has a collection of above 11,092 Books and Reports. The Collections are classified under Dewey decimal classification.

The collection comprises of documents to the field of Environmental Protection, Air Pollution, Vehicular Pollution, Water Pollution, Noise Pollution, Wastewater Treatment, Municipal Waste Management, Hazardous Waste Management, Biomedical Waste, Environmental Engineering, Industrial pollution, Chemical Technology, Disasters, Soil, Energy, Pesticides, Biotechnology, Environmental Health, Environmental Economics, Environmental Chemistry, Environmental Impact Assessment, Environmental Education, Sustainable Development, Women and Environment, Environmental Law, Forestry.

Library subscribes for 76 Journals 9 Newspapers, 16 Magazines. Besides this Annual Reports, Newsletters, Bulletins and Reports are received from different Institutions(Indian & foreign). Back volumes of the journals are bound and kept for reference in the Periodical Section.

Library is administrated by the Library Committee and Library Purchase Committee chaired by the Member Secretary. The committee consist Senior Officers of the Board and experts from Anna University and IIT, Madras. Membership is opened to all those who involve in Environmental aspects. Readers are provided photocopying facilities.

Membership Fee:

Student:

Monthly	-	Rs. 30.00
Annual	-	Rs. 75.00
Individual Annual	-	Rs.100.00

School and College Students, Research Scholars, Lectures & Professors,

Professionals, NGOs, Industrialists and other Government Department officials and people involved in environmental aspects used to refer the Library. Readers are not only from Chennai but also from allover Tamil Nadu and Pondicherry and from other States like Karnataka, Andhra Pradesh, Kerala, Maharashtra, Uttar Pradesh and West Bengal also visited the library. From April 2010 to March 2011, 2141 No. of readers utilized the Library.

Libsys software has been installed for TNPCB Library automation. Data Entry is being done. Through OPAC (Open Access Catalog) anyone can search the available books and reports and also articles published in the subscribed journals.

10.13 TNPCB Newsletter:

TNPCB Newsletter, a Quarterly is published, which brings Board activities, important notifications, research articles and news articles on environment and pollution control.

Annexure – I

List of Board Members from 1.4.2010 to 31.3.2011

Sl. No	Name and Address of the Members	Position	From	To
1	Thiru R. BALAKRISHNAN, IAS., Chairman, Tamilnadu Pollution Control Board, 76 Mount Salai, Guindy, Chennai -600 032.	Chairman	01.04.2010	25.11.10
2	DR. V. IRAI ANBU, IAS., Secretary to Government / Chairman, A/c., TNPCCB, Chennai-32	Member	26.11.10	23.01.11
3	Thiru VISHWANATH SHEGONKAR, IAS., Principal Secretary / Chairman, TNPCCB, Guindy, Chennai -32.	Member	24.01.11	31.3.2011
4	Thiru. DEBENDRANATH SARANGI, I.A.S., Principal Secretary to Government, Environment and Forests Department, Fort. St. George, Chennai -600 009.	Member	01.04.2010	02.09.10
5	Tmt. M.P. NIRMALA, IAS., Secretary to Government, Environment and Forests Department, Fort. St. George, Chennai -600 009.	Member	03.09.10	05.10.10
6	DR. V. IRAI ANBU, IAS., Secretary to Government Environment and Forests Department, Fort. St. George, Chennai -600 009.	Member	06.10.10	31.01.11
7	Thiru MD. NASIMUDIN, IAS., Secretary to Government Environment and Forests Department, Fort. St. George, Chennai -600 009	Member	01.02.11	13.02.11

8	Dr. RAMESHRM MISHRA RAO, IAS., Secretary to Government, Environment and Forests Department, Fort. St. George, Chennai -600 009.	Member	14.02.11	06.03.11
9	DR. V. IRAI ANBU, IAS., Secretary to Government Environment and Forests Department, Fort. St. George, Chennai -600 009.	Member	07.03.11	31.03.11
10	Thiru P. RAGHAVAN Joint Director Finance (BPE) Department Secretariat Fort. St. George, Chennai 600 009.	Member	01.04.2010	31.3.2011
11	Thiru. S. RAGHUNATHAN, M.Tech. Chief Inspector of Factories, Chepauk, Chennai 600 005.	Member	01.04.2010	31.8.2010
12	Thiru K. AYYANU, B.E Chief Inspector of Factories, Chepauk, Chennai 600 005.	Member	1.9.2010	31.3.2011
13	Thiru. PANKAJ KUMAR BANSAL, I.A.S., Director of Town and Country Planning. Chengalvarayan Building, IV th Floor 807 Anna Salai, Chennai 600 002	Member	01.04.2010	31.3.2011
14	Dr.S.ELANGO, M.B.B.S., M.D. DPH, DIH, Director of Public Health and Preventive Medicine, Teynampet, Chennai - 600 006	Member	01.04.2010	30.4.2010
15	Dr.R.T. PORKAIPANDIAN, M.B.B.S.,DPH, DIH, DHM, DFN, Director of Public Health and Preventive Medicine, Teynampet, Chennai - 600 006	Member	1.5.2010	31.3.2011

16	Thiru. SWARAN SINGH , I.A.S., Chairman & Managing Director, TWAD Board, Chepauk, Chennai 600 005.	Member	01.04.2010	19.5.2010
17	Thiru GANGANDEEP SINGH BEDI, IAS., Managing Director, TWAD Board, Chepauk, Chennai 600 005.	Member	20.5.2010	31.3.2011
18	Thiru. K. BALASUBRAMANIAN,B.E., Member (Generation) Tamilnadu Electricity Board, Electricity Avenue, (NPKRR Maligai), 800, Anna Salai, Chennai-600 002.	Member	1.4.2010	31.3.2011
19	Thiru. R. SHAIK JALALUDDIN Joint Director of Fisheries (Retired) 4/118-2 nd North Cross Street,, Kabalseeswarar Nagar, Neelangarai, Chennai 600 041.	Member	01.04.2010	31.3.2011
20	Thiru.GUMMUDIPOONDI K. VENU, Ex-MLA., 174. GNT. Road, Kavarapettai & Post, Gumudipoondi Taluk, Thiruvallur District 601 206.	Member	01.04.2010	31.3.2011
21	Dr. ZACKRIAH SAIT, M.B.B.S., The Regional Chairman (South Region) Leather Expo rt Promotion Council, No.2165, L Block, 1 st Street, 12 th Main Road, Anna Nagar, Chennai 600 040	Member	01.04.2010	31.3.2011
22	Thiru. S. BALASUBRAMANIAN, General Manager (P&R.), SIPCOT, 194 Marshall Road, Chennai 600 008.	Special Invitee	01.04.2010	31.10.2010
23	Tmt. MADHUMATHI KUMAR, DGM (P&SP) / General Manager (Dev.) i/c., SIPCOT,194 Marshall Road,Chennai 600 008.	Special Invitee	1.11.2010	31.3.2011

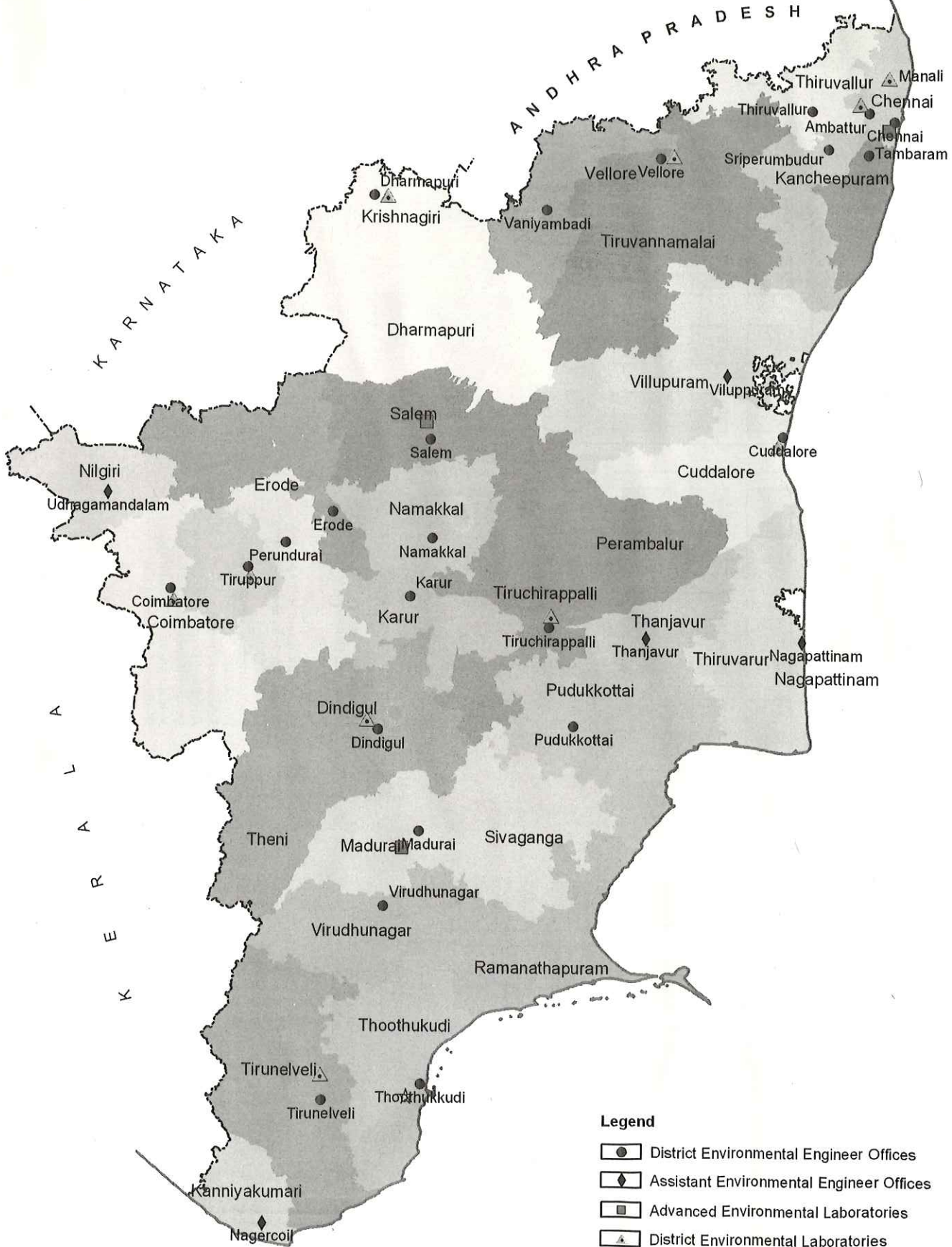
24	Thiru G. SUNDARAMURTHY, I.A.S., Commissioner of Industries and Commerce, Chepauk, Chennai -600 005.	Special Invitee	01.04.2010	31.7.2010
25	Thiru B. SELVAM, IAS., Secretary to Government, Industries and Commerce Dept., Chennai -600 009.	Special Invitee	01.08.2010	19.8.2010
26	Thiru HARMANDER SINGH, I.A.S., Commissioner of Industries and Commerce, Chepauk, Chennai -600 005.	Special Invitee	20.8.2010	31.3.2011
27	Thiru T.S. SRINIVASAMURTHY, I.F.S. Director of Environment Department, Ground Floor, Panagal Building, Saidapet, Chennai 600 015.	Special Invitee	01.04.2010	31.3.2011
28	Thiru.R.RAMACHANDRAN, M.E (PH) Member Secretary Tamilnadu Pollution Control Board, 76 Mount Salai, Guindy, Chennai 600 032	Member - Secretary	01.04.2010	31.3.2011



Annexure - II

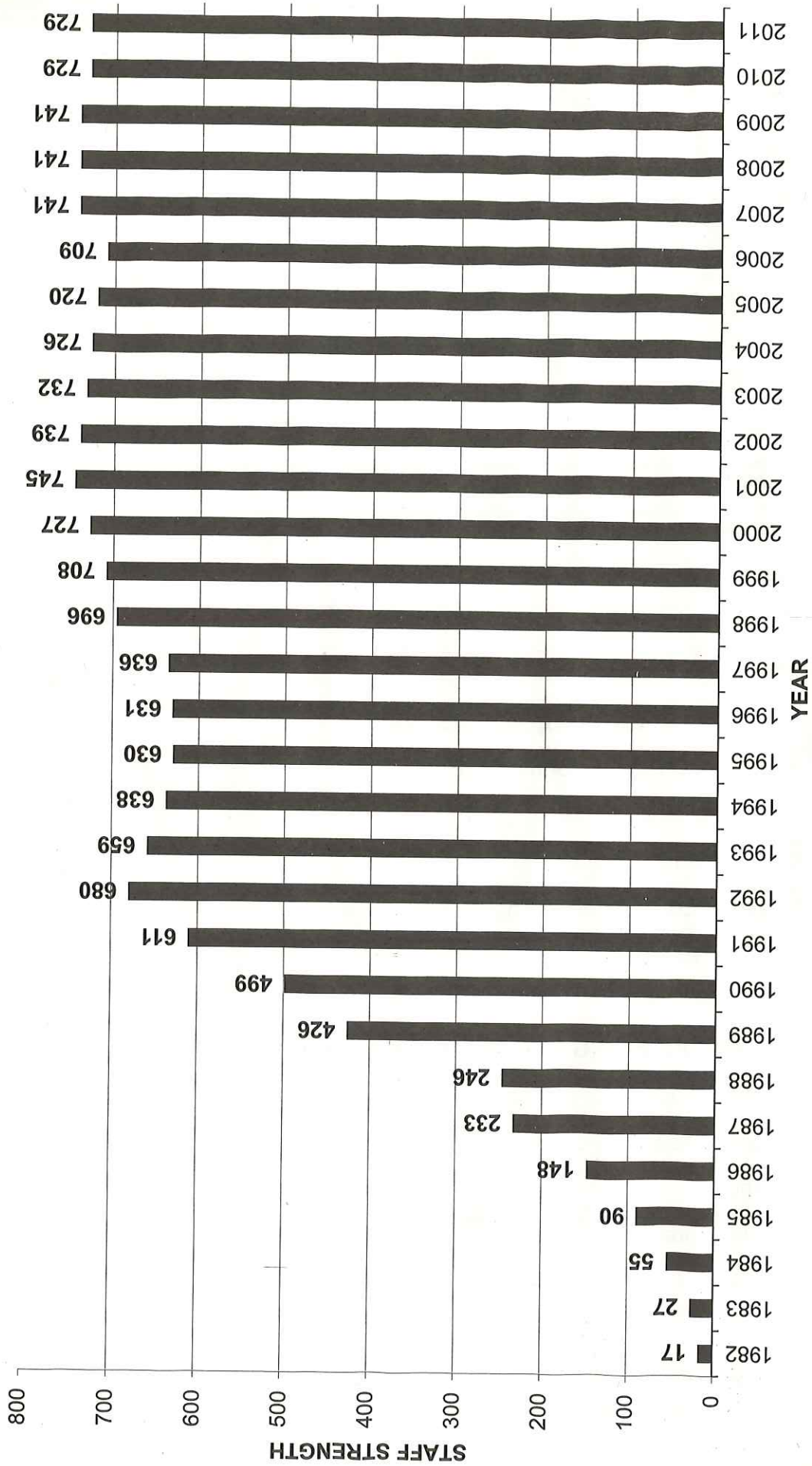
TAMIL NADU POLLUTION CONTROL BOARD

LOCATION OF DISTRICT OFFICES AND LABORATORIES



- Legend**
- District Environmental Engineer Offices
 - ◆ Assistant Environmental Engineer Offices
 - Advanced Environmental Laboratories
 - ▲ District Environmental Laboratories
 - ☆ Mobile Environmental Laboratory

**ANNEXURE - IV
STAFF STRENGTH FROM THE YEAR 1982 TO 2011**



ANNEXURE - V

STAFF POSITION AS ON 31.3.2011

NAME OF THE POST	STRENGTH
Chairman	1
Member Secretary	1
Engineering Service	129
Engineering Subordinate Service	12
Scientific Service	77
Scientific Subordinate Service	102
General Service	22
General Subordinate Service	305
Miscellaneous Service	6
Basic service	55
Deputationist	5
Total	715
ENGINEERING SERVICE	
Additional Chief Environmental Engineer	1
Joint Chief Environmental Engineer	8
Environmental Engineer	32
Assistant Environmental Engineer	37
Assistant Engineer	51
Sub Total	129
ENGINEERING SUBORDINATE SERVICE	
Electrical Supervisor (Junior Engineer)	1
Technical Assistant	2
Electrician	6
Assistant Draughtsman	3
Sub-Total	12
SCIENTIFIC SERVICE	
Deputy Director (Labs)	2

NAME OF THE POST	STRENGTH
Asst. Director (Lab)	6
Chief Scientific Officer	3
Deputy Chief Scientific Officer	18
Environmental Scientist	45
Senior Meteorologist	1
Meteorologist	2
Sub-Total	77
SCIENTIFIC SUBORDINATE SERVICE	
Junior Environmental Scientist	9
Field Assistant	66
Lab Attendant	27
Sub-Total	102
GENERAL SERVICE	
Manager	2
Additional Manager	6
Deputy Manager	14
Sub-Total	22
GENERAL SUBORDINATE SERVICE	
Assistant Manager	44
General Assistant	82
Assistant	48
Steno Typist	29
Typist	32
Telephone Operator	2
Driver	55
Rider	1
Record Clerk	12
Sub-Total	305
MISCELLANEOUS SERVICE	

NAME OF THE POST	STRENGTH
Junior Programmer	2
Data Entry Operator	2
Librarian	2
Sub-Total	6
BASIC SERVICE	
Office Assistant	52
Cleaner	1
Sweeper	1
Watchman	1
Sub-Total	55
DEPUTATION	
Financial Advisor	1
Assistant Engineer (Automobile)	1
Assistant Engineer (Construction)	1
Drivers from MTC	2
Sub-Total	5

ANNEXURE - VI

STATUS OF AIR QUALITY OF IMPORTANT CITIES/TOWNS OF TAMILNADU-UNDER NATIONAL AIR QUALITY MONITORING PROGRAMME(NAMP) ANNUAL AVERAGE CONCENTRATIONS OF AIR POLLUTANTS, 2010-2011

Sl. No.	City & Location	Category	Annual Average Concentrations of Air Pollutants in µg/m ³															
			SO ₂			NO _x			TSPM			RSPM						
			Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg				
1	CHENNAI																	
a)	Kathivakkam	Industrial	36	9	12	32	12	18	353	62	179	219	29	88				
b)	Manali	Industrial	58	9	12	40	12	20	407	46	165	246	38	87				
c)	Thirvottiyur	Industrial	17	8	12	28	12	20	585	77	167	292	30	66				
2	COIMBATORE																	
a)	G.D Matric School	Mixed	49	4	6	46	13	24	506	34	157	250	15	60				
b)	Poonyarajapuram	Residential	34	4	5	39	9	21	463	21	111	190	10	56				
c)	SIDCO	Industrial	43	4	6	264	12	34	1403	39	273	1184	12	102				
3	THOOTHUKUDI																	
a)	Raja Agencies	Industrial	88	4	12	35	6	14	764	79	310	385	50	178				
b)	AVM Buildings	Mixed	48	4	10	46	7	14	389	23	90	198	13	53				
c)	SIPCOT	Industrial	36	4	12	28	7	12	586	38	156	347	17	88				
4	MADURAI																	
a)	M/s.Susee Cars & Trucks (P) Ltd.,	Industrial	19	7	11	42	16	25	166	60	111	82	22	42				
b)	Awai Girls Higher Secondary School	Mixed	15	7	8	34	15	25	207	25	107	88	25	45				
c)	Highways project Buildings	Residential	17	5	11	33	12	24	222	52	101	101	23	47				
5	SALEM																	
a)	Sowdeswari college building	Mixed	12	5	9	59	13	24	228	30	111	157	28	74				
			Prescribed Standard:															
i) Industrial			80			80				360				120				
ii) Residential, Rural & other areas(mixed)			60			60				140				60				

Note: SO₂: Sulphur di oxideNO_x: Oxides of Nitrogen

TSPM: Total Suspended particulate matter

ANNEXURE -VII
CHENNAI AMBIENT AIR QUALITY MONITORING PROGRAMME
STATUS OF AIR QUALITY DURING APRIL 2010 TO MARCH 2011

Station	ANNUAL AVERAGE CONCENTRATIONS OF AIR POLLUTANTS $\mu\text{g}/\text{m}^3$		
	SO ₂	NOx	RSPM
ANNA NAGAR	8	21	98
ADYAR	8	15	34
KILPAUK	10	28	91
THIYAGARAYANAGAR	11	30	119
VALLALAR NAGAR	11	29	135
Prescribed Standard	60	60	60

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

ANNEXURE - VIII

STATUS REPORT OF TRICHY AIR QUALITY UNDER TRICHY AMBIENT AIR QUALITY MONITORING PROGRAMME (TAAQM) DURING 2010 - 2011

Sl.No.	Station	Average Concentrations of Air Pollutants, $\mu\text{g}/\text{m}^3$				
		SO ₂	NOx	RSPM	TSPM	
1	Gandhi Market	14	21	100	223	
2	Mainguard Gate	13	19	69	183	
3	Bishop Heber College	9	13	36	92	
4	Golden Rock	10	15	35	87	
5	Central Bus Stand, Trichy	20	22	92	219	
Prescribed Standard		60	60	60	140	

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

ANNEXURE - IX

STATUS OF VEHICLE TESTED AT TNPCB VEM STATIONS DURING 2010-2011

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	1,142	1,117	27	2	25	2.36%

CAUVERY RIVER WATER QUALITY(UNDER GEMS PROGRAMME)2010-2011

S.No	Name of Station	pH	D.O mg/L	BOD at 27°C mg/L	Nitrate mg/L	Total coliform MPN/100 ml	Faecal coliform MPN/100 ml	Nitrite mg/L	DBU Class
1	MUSIRI FERRY GATE	8.15	8.50	0.70	2.72	193	75	0.01	B
2	MUSIRI BORE WELL	7.39	6.5	0.4	0.97	265	180	0.06	B
3	METTUR	8.15	6.40	1.50	0.13	371	214	0.31	C
4	PALLIPALAYAM	8.00	6.00	1.70	0.23	663	385	0.07	C
*TOLLERENCE LIMIT		6.5-8.5		3	-	500	200	-	B
		6.5-8.5		4	50	5000	2000	-	C

*CPCB-GEMS / MINARS Water quality criteria

DBU Class-Designated Best Use

B-Outdoor bathing (organised)

C-Drinking water source after conventional treatment and disinfection
mg/L-milligram per liter

MPN-Most probable number

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

FC - Faecal Coliform TC - Total Coliform

**ANNEXURE-X-B
CAUVERY RIVER WATER QUALITY-(UNDER MINARS PROGRAMME)2010-2011**

S.No	Name of Station	pH	D.O mg/L	BOD at 27°C mg/L	Nitrate mg/L	Total coliform MPN/100 ml	Faecal coliform MPN/100 ml	Nitrite mg/L	DBU Class
1	Pathira kailiamman koil	7.67	8.1	0.6	0.11	258	146	0.05	B
2	Trichy U/S	8.12	5.5	0.7	1.87	263	143	0.02	B
3	Grand Anaicut	8.01	6.7	2.5	0.08	616	374	0.24	C
4	Sirumugai	7.71	7.8	1.0	0.11	274	140	0.06	B
5	Bhavani	8.01	6.0	1.5	0.22	793	405	0.02	C
6	Karunthattankudi	8.31	5.1	0.4	2.39	293	130	0.01	B
7	Madathukulam	8	8.2	0.9	0.09	246	153	0.02	B
8	Erode	7.67	4.6	3.4	0.18	2402	1665	0.31	D
9	Bhavani sagar	8.01	6.9	1.0	0.22	628	194	0.04	C
10	R.N.Pudur	7.86	6.2	1.1	0.12	1816	1361	0.02	B
11	P.Velur	7.89	6.5	1.0	0.15	396	214	0.09	B
12	Mohanur	7.93	6.6	0.9	0.13	378	208	0.06	B
13	Trichy D/S	7.89	5.1	0.8	1.60	368	170	0.015	C
14	Coleroon	8.18	8.1	1.0	0.13	442	276	0.26	B
15	Pitchavaram	8.08	7.1	1.4	0.10	412	243	0.04	B
16	Thirumukkudal	8.33	4.8	0.5	1.24	250	88	0.020	B
*TOLLERENCE LIMIT		6.5-8.5		5	500		200	B	
		6.5-8.5		4	5000		2000	C	

*CPCB-GEMS / MINARS Water quality criteria

DBU Class-Designated Best Use

B-Outdoor bathing (organised)

C-Drinking water source after conventional treatment and disinfection

mg/L-milligram per liter

MPN-Most probable number

ANNEXURE-XI

TAMIRAPARANI RIVER WATER QUALITY- (UNDER MINARS PROGRAMME)-2010-2011

S. No	Name of Station	pH	D.O mg/L	BOD at 27°C mg/L	Nitrate mg/L	Total coliform MPN/100 ml	Faecal coliform MPN/100 ml	Nitrite mg/L	DBU Class
1	PAPANASAM	7.11	7.50	1.50	0.10	118	73	0.04	B
2	CHERANMADEVI	7.02	7.3	1.7	0.083	168	80	0.060	B
3	KOKIRAKULAM	7.15	6.50	2.30	0.33	348	223	0.07	C
4	MURAPANADU	6.96	6.80	1.70	0.21	143	76	0.10	B
5	THIRUPUDAIMARUDUR	7.13	7.10	1.50	0.41	132	73	0.04	B
6	AMBASAMUDRAM	7.02	6.70	1.40	0.23	122	71	0.03	B
7	AUTHOOR	7.23	7.00	2.40	0.52	197	102	0.04	B
	*TOLLERENCE LIMIT	6.5-8.5	5	5	3	500	200	-	B
		6.5-8.5	50	4	3	5000	2000	-	C

*CPCB-GEMS / MINARS Water quality criteria

B-Outdoor bathing (organised)

C-Drinking water source after conventional treatment and disinfection

mg/L-milligram per liter

MPN-Most probable number

ANNEXURE-XII

PALAR & VAIGAI RIVER WATER QUALITY(UNDER MINARS PROGRAMME)2010-2011

S.NO	NAME OF RIVER	pH	D.O mg/L	BOD at 27°C mg/L	Nitrate mg/L	Total coliform MPN/100 ml	Faecal coliform MPN/100 ml	Nitrite mg/L	DBU Class
1	Palar	7.52	6.50	2.90	0.38	539	309	0.06	C
2	Vaigai	7.04	4.6	4	0.09	15	6	0.01	C
*TOLLERENCE LIMIT		6.5-8.5	4	3	50	5000	2000	-	C

*CPCB-GEMS / MINARS Water quality criteria

C-Drinking water source after conventional treatment and disinfection

mg/L-milligram per liter

MPN-Most probable number

ANNEXURE-XIII-A

LAKE WATER QUALITY(UNDER MINARS PROGRAMME)2010-2011

S.NO	NAME OF LAKE	pH	D.O mg/L	BOD at 27°C mg/L	Nitrate mg/L	Total coliform MPN/100 ml	Faecal coliform MPN/100 ml	Nitrite mg/L	DBU Class
1	Udhagamandalam	7.57	5.50	8.30	1	44975	25178	0.25	D
2	Kodaikanal	6.66	5.85	7.27	0	22	10	0.01	D
3	Yercaud	7.80	6.20	2.20	1	31618	13308	0.13	D
	*TOLLERENCE LIMIT	6.5-8.5	-	-	-	<5000	<2000	-	D

*CPCB-GEMS / MINARS Water quality criteria

D-Propagation of wildlife and fisheries
mg/L-milligram per liter

MPN-Most probable number

ANNEXURE - XIII - B

MONITORING OF CHENNAI CITY WATERWAYS - 2010-2011

Sl.No.	Source	TSS mg/l	BOD mg/l	COD mg/l
1	Adyar	52	18	91
2	Buckingham Canal	110	48	176
3	Cooum	62	22	101
4	Otterinullah	81	38	129

ANNEXURE XIV

PERFORMANCE OF LABORATORIES (Period : April 2010 March 2011)

S. No.	Name of the Laboratory	Water Samples				Air Survey				Air Project			Noise						
		Effluent	Projects			Total	No. of Industries	AAQS Stations	SM Stations	CAQM	NAMP	TAAQM	Spl. Project	Industry		Complaints			
			Regular	Complaints	GEMS									MINARS	CCWW	Sludge/Soil/Fuel / Others	No. of Industries	No. of Stations	No. of Industries
Advanced Environmental Laboratory																			
1	Chennai	2,602	19	-	56	1,870	34	4,580	100	506	233	1,401	-	-	61	94	602	11	37
2	Madurai	1,114	11	-	14	-	41	1,210	94	476	182	-	1,263	-	1	93	217	39	35
3	Salem	2,161	-	30	254	-	16	2,202	72	455	276	-	306	-	1	74	747	9	82
4	Coimbatore	2,161	12	-	-	-	-	1,261	83	473	213	-	2,327	-	1	62	428	22	157
5	Cuddalore	1,173	-	-	-	-	-	1,173	91	446	244	-	-	-	-	75	400	17	-
District Environmental Laboratory																			
6	Ambattur	1,208	17	-	-	-	-	1,225	90	422	317	-	1,370	-	1	53	317	30	36
7	Dindigul	662	-	-	-	-	-	662	55	338	90	-	-	-	1	57	349	1	13
8	Hosur	811	-	-	-	-	-	811	101	532	298	-	-	-	2	101	784	1	5
9	Manali	796	-	-	-	-	-	796	99	528	296	-	-	-	1	91	750	-	-
10	Trichy	1,057	-	-	-	-	-	1,109	58	355	177	-	-	589	-	53	302	1	5
11	Tirunelveli	1,037	-	-	68	-	4	1,099	81	382	134	-	-	-	2	80	448	3	17
12	Tiruppur	880	-	-	-	-	1	881	71	345	263	-	-	-	1	73	359	5	20
13	Vellore	1,446	-	-	-	-	-	1,446	79	430	301	-	-	-	1	75	427	6	16
Mobile Environmental Laboratory																			
14	Thoothukudi	-	-	-	-	-	-	-	60	343	81	-	2,553	-	1	67	426	4	20
	Total	16,238	59	30	392	1,870	96	18,455	1,134	6,031	3,105	1,401	7,819	589	74	1,048	6,556	149	443

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

ACCOUNTS

**AUDITOR'S REPORT TO THE MEMBERS OF THE
TAMILNADU POLLUTION CONTROL BOARD
FOR THE YEAR ENDED 31st MARCH 2011**

We have audited the attached Balance Sheet of Tamil Nadu Pollution Control Board as at March 31, 2011 and also the Receipts and payments account, Income and Expenditure Account for the year ended on that date annexed thereto.

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

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

We report that

1. We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purposes of our audit.
2. In our opinion proper books of account as required by law have been kept by the Board so far as it appears from our examination of those books.
3. The attached Balance Sheet, Receipts and Payments account, Income and Expenditure account which are set out as provided in Rule 36 of the Tamilnadu Water (prevention and control of pollution) Rules 1983 and dealt with by this report are in agreement with the books of accounts.
4. In our opinion and to the best of information and according to the explanations given to us, the said accounts read with the schedules thereto and the notes thereon attached here to subject to the following;

- . Refer point no V(e) of the notes to accounts with respect to Land advance of Rs.48.28 lakhs which is outstanding for a long time, recoverability of which is presently not ascertainable.
- . Refer point no. V(f) of the notes to accounts with respect to Advance to suppliers for purchase of fixed assets and other expenditure for an amount of Rs 41.70 lakhs is outstanding for more than one year and requires adjustment in the books of accounts.
- . Refer point no V (g) of the notes to accounts with respect to non recoverability of cess amounting to Rs.424.50 crores due from industries and local bodies turn to be remitted to the Ministry of Environment Forest, Government of India.

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

- a) In the case of Balance Sheet, of the State of affairs of the Board as at March 31, 2011 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 2011
- c) In the case of the Income and Expenditure account of the excess of Income over Expenditure for the year ended 31st March 2011

Place : Chennai
Date : 23.12.2011

for M/s. K. Ramkumar & Co,
Firm Registration No: 02830S
Chartered Accountants

Sd/-

(R RAGHAVENDRAN)
Partner
Membership.No.26480

TAMIL NADU POLLUTION

Receipts and Payments for

See Rules 36 of Tamil Nadu Water

PREVIOUS YEAR	RECEIPTS	TOTAL OF SUB HEAD	TOTAL OF MAJOR HEADS
Rs. Ps.		Rs. Ps.	Rs. Ps.
	A. OPENING BALANCE		
97987437.81	a. Bank	191053729.44	
16460.00	b. Cash	770.00	
2295512.00	c. Funds in Transit	95512.00	191150011.44
	B. GRANTS RECEIVED		
-	a. From Government	-	
-	b. From other Agencies	-	
200000.00	c. Schemes	200000.00	200000.00
	C. FEES		
-	a. Consultant Registration Fees	-	
1017020.00	b. Cost of Application	744455.00	
745988350.41	c. Consent Fees	766601805.25	
55639956.00	d. Cess Collection	72140001.00	
25730.00	e. Fees for handling H. Waste	-	839486261.25
	D. Services & Rental Charges		
85631621.00	(Lab Analysis Charges Sch - A)		104678269.00
62985255.91	E. INTEREST ON INVESTMENT		108179155.37
	F. MISCELLANEOUS		
72897710.00	a. Others (Schedule-B)	7218852.00	
120617633.00	b. Cess Re-imburement	83598848.00	90817700.00
1245302686.13	C/o		1334511397.06

CONTROL BOARD, CHENNAI - 600 032

the year ended 31 March 2011.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		PAYMENTS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
		A. CAPITAL EXPENDITURE				
3921919.00		a. Assets - Land and Building		-		
2350434.00		b. Laboratory Equipment	3599693.00			
-		c. Vehicles	4021373.00			
933881.00		d. Furniture	613927.00			
1226068.00		e. Office Appliance	1003319.00			
116038.00		f. Library Books	134424.00			
1658784.00		g. Electrical Installation	27235.00			
1009930.00		h. Computer	1429116.00		10829087.00	
		B. REVENUE EXPENDITURE				
		A. ADMINISTRATIVE				
211974293.54		a. Salaries	250290641.00			
13908535.00		b. Pension & Gratuity Contribution	71166501.00			
8447113.00		c. Surrender Leave Salary	9401231.00			
1656767.00		d. Bonus	1630357.00			
2447789.00		e. Medical Expenses	2027052.00		334515782.00	
		B. BOARD LABORATORY				
1071376.00		a. Running Expenses of Lab.	239786.00			
658385.00		b. Lab. Chemicals etc.,	1717487.00		1957273.00	
		C. RUNNING & MAINTENANCE OF VEHICLE			7715445.00	
5453003.00					150000.00	
783795.00		D. SCHEME				
257618110.54		C/o			355167587.00	

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.
1245302686.13	B/F		1334511397.06
	G. DEPOSITS & ADVANCES		
978900.00	a. Earnest Money Deposit	851800.00	
175941.00	b. Security Deposist	163055.00	
1057323.00	c. Advance to Staff (Sch. - C)	1541446.00	
1352454119.00	d. Short Term Deposit	2177564818.00	
22.00	e. Telephone Deposit	-	
724.00	f. Other Deposit	-	2180121119.00
356264310.03	H. OTHERS (<i>Schedule - D</i>)		211796553.30
2956234025.16	Total		3726429069.36

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

Sd/-
R.S.Manoharan M.Sc., B.Ed,
Financial Adviser

Sd/-
Dr.K.Karthikeyan M.Tech Ph.d.,
Member Secretary

Chennai - 600 032
Date : 23/12/2011

CONTROL BOARD, CHENNAI - 600 032

the year ended 31 March 2011.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		PAYMENTS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
		A. CAPITAL EXPENDITURE				
3921919.00		a. Assets - Land and Building		-		
2350434.00		b. Laboratory Equipment	3599693.00			
-		c. Vehicles	4021373.00			
933881.00		d. Furniture	613927.00			
1226068.00		e. Office Appliance	1003319.00			
116038.00		f. Library Books	134424.00			
1658784.00		g. Electrical Installation	27235.00			
1009930.00		h. Computer	1429116.00		10829087.00	
		B. REVENUE EXPENDITURE				
		A. ADMINISTRATIVE				
211974293.54		a. Salaries	250290641.00			
13908535.00		b. Pension & Gratuity Contribution	71166501.00			
8447113.00		c. Surrender Leave Salary	9401231.00			
1656767.00		d. Bonus	1630357.00			
2447789.00		e. Medical Expenses	2027052.00		334515782.00	
		B. BOARD LABORATORY				
1071376.00		a. Running Expenses of Lab.	239786.00			
658385.00		b. Lab. Chemicals etc.,	1717487.00		1957273.00	
		C. RUNNING & MAINTENANCE OF VEHICLE			7715445.00	
5453003.00					150000.00	
783795.00		D. SCHEME				
257618110.54		C/o			355167587.00	

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.
1245302686.13	B/F		1334511397.06
	G. DEPOSITS & ADVANCES		
978900.00	a. Earnest Money Deposit	851800.00	
175941.00	b. Security Deposit	163055.00	
1057323.00	c. Advance to Staff (Sch. - C)	1541446.00	
1352454119.00	d. Short Term Deposit	2177564818.00	
22.00	e. Telephone Deposit	-	
724.00	f. Other Deposit	-	2180121119.00
356264310.03	H. OTHERS (Schedule - D)		211796553.30
2956234025.16	Total		3726429069.36

Sd/-

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

Sd/-

**R.S.Manoharan M.Sc., B.Ed,
Financial Adviser**

Sd/-

**Dr.K.Karthikeyan M.Tech Ph.d.,
Member Secretary**

Chennai - 600 032
Date : 23/12/2011

CONTROL BOARD, CHENNAI - 600 032

the year ended 31 March 2011.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		PAYMENTS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
257618110.54		B/F			355167587.00	
		E. MAINTENANCE & REPAIRS				
3471773.00		a. Buildings	6582951.00			
63841.00		b. Furniture & Fixture	96859.00			
720890.00		c. Scientific instruments	926237.00			
615450.00		d. Office Appliance	1078851.00			
680667.00		e. Electrical Installation	2523645.00			
38504.00		f. Insurance of Assets	52497.00			
326756.00		g. Other Assets	249340.00		11510380.00	
		F. FEES TO CONSULTANTS & SPECIALISTS			249177.00	
65711.00					1667796.00	
496427.00		G. LAW CHARGES			3806.00	
26708.00		H. AUDIT FEES			59797666.40	
66975072.83		I. MISCELLANEOUS (Schedule-E)			81294394.00	
90695675.00		C. CESS REMITTANCE			10413616.00	
6373067.00		D. ADVANCE (Schedule - F)				
		E. DEPOSITS				
2321333985.00		a. Short Term Deposits	3105000000.00			
15581376.35		b. Others (Schedule - G)	2443139.00		3107443139.00	
		F. CLOSING BALANCE				
191053729.44		a. Bank	98870295.96			
770.00		b. Cash	700.00			
95512.00		c. Funds in Transit	10512.00		98881507.96	
2956234025.16		Total			3726429069.36	

Subject to our report of even date & Schedules + Notes attached
for M/s. K. Ramkumar & Co, FR.NO:2830S
Chartered Accountants

Sd/-
C.V.Sankar IAS
Chairman

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

TAMIL NADU POLLUTION
Income and Expenditure Account for
See Rules 36 of Tamil Nadu Water

PREVIOUS YEAR		EXPENDITURE	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
		A. Administrative				
1946489.00		a. Pay of officers	1308270.00			
128673662.00		b. Pay of Establishment	150256739.00			
96996862.00		c. Allowance & Honororia (Schedule-H)	113245268.00			
154442376.00		d. Contribution to Gratuity & Provision for Pension	294914088.00			
21909597.00		e. Surrender Leave Salary	34162264.00		593886629.00	
1959989.87		B. Running Expenses of Labs.			1376216.32	
6230999.00		C. Running and Maintenance of Vehicle (Schedule-I)			7512764.00	
		D. Maintenance and Repairs				
70780.00		a. Furniture & Fixtures	101015.00			
1875271.00		b. Lab. Equipments & Instruments	1236233.00			
1087122.00		c. Office Appliance & Others	1499505.00			
1018256.00		d. Electrical Installation	2343651.00			
2995689.00		e. Building	6428521.00		11608925.00	
75312.00		E. Fees to Consultants and Specialists			328462.00	
431911.00		F. Law Charges			1852492.00	
28090.00		G. Fees for Audit			57356.00	
65350215.07		H. Miscellaneous (Schedule-J)			54923438.77	
15993203.21		I. Depreciation			14560733.00	
1141066.79		J. Prior Period Adj. Account			7690002.56	
774646980.73		K. Excess of income over Exp.trf to B/S			913511539.10	
1276873871.67		Total			1607308557.75	

Sd/-

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

Sd/-

R.S.Manoharan M.Sc., B.Ed,
Financial Adviser

Sd/-

Dr.K.Karthikeyan M.Tech Ph.d.,
Member Secretary

Chennai - 600 032
Date : 23/12/2011

CONTROL BOARD, CHENNAI - 600 032

the year ended 31 March 2011.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		INCOME	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
		A. Grants received				
	-	a. From Government		-		
	-	b. From other Agencies		-		
		Less: Amount utilised for				
	-	Capital Expenditure		-		
		Net Grant available for				
	-	Revenue Expenditure		-		
852276665.41		B. Fees (Schedule-K)			1136566888.58	
81391090.00		C. Services & Rental Charges (Schedule-L)			92580820.00	
		D. Miscellaneous Receipts				
8795985.00		a. Others (Schedule-M)	16784644.00			
120617633.00		b. Cess Reimbursement	83598848.00		100383492.00	
210310746.26		E. Interest on Investment			277560394.33	
3481752.00		F. Prior Period Adj. Account			216962.84	
1276873871.67		Total			1607308557.75	

Subjec to our report of even date & Schedules + Notes attached
for M/s. K. Ramkumar & Co, FR.NO:2830S
Chartered Accountants

Sd/-
C.V.Sankar IAS
Chairman

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

ANNUAL STATEMENT

Balance Sheet

See Rules 36 of Tamil Nadu Water

PREVIOUS YEAR	LIABILITIES	TOTAL OF SUB HEAD	TOTAL OF MAJOR HEADS
Rs. Ps.		Rs. Ps.	Rs. Ps.
	A. CAPITAL FUND		
	a. Grants		
54526922.18	i. Grants received from Govt. for capital exp. upto the yr.2004-05.	54526922.18	
	ii. Grants received from Govt. for capital exp. during the current year and utilised.	-	
-	iii. Grants received towards specific schemes from other agencies	-	
-	iv. Less: Amount transferred to Depreciation Fund		54526922.18
	b. Excess of Income over Expenditure		
1442211604.50	i. As at 01.04.10	2199789498.23	
774646980.73	ii. Add: Surplus during the year	913511539.10	
		3113301037.33	
(17069087.00)	iii. Less: Amount transferred to Depreciation Fund	19822117.00	3093478920.33
	B. Earmarked Fund (Schedule-T)		
751166042.00	a. Pension Fund	1025396304.00	
313542194.51	b. Depreciation Fund	352176843.18	
3363250.00	c. CETP Development Fund	3363250.00	
79212551.00	d. Earn leave encashment Fund	104370222.00	1485306619.18
	C. Other Deposits		
39410686.56	a. Deposits for supply & works (Schedule -N)	51273371.56	
32587126.05	b. Refundable P.G. Deposits	32587126.05	
3729000.00	c. Eco Devlpt. Measure Deposit	3729000.00	87589497.61
3477327270.53	C/o.		4720901959.30

OF ACCOUNT

as on 31st March 2011.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR		ASSETS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
Rs.	Ps.		Rs.	Ps.	Rs.	Ps.
		A. FIXED ASSETS				
8641088.65		a. Land Development	8641088.65			
50954336.00		b. Buildings Under Construction	50954336.00		59595424.65	
		B. OTHER ASSETS				
65114168.43		a. As per Form XV			61768451.43	
		b. Stock in hand				
1334790.85		i. Lab Chemicals	1375802.12			
811818.98		ii. Glassware	768105.39			
201749.48		iii. Misc. Stores	195625.88			
1087168.52		iv. Filter Paper	1058309.12		3397842.51	
		C. SUNDRY DEBTORS				
		a. Cess Receivable				
3077810671.86		i. From Industries	3545294500.30			
6817761111.80		ii. From Local Bodies	780126556.80			
			4325421057.10			
(6699440.00)		Less : Cess unrecoverable		-	4325421057.10	
20000.00		b. Amount Receivable - PWD			20000.00	
7484077.00		c. Project Study - Receivable			7484077.00	
3888536541.57		C/o.			4457686852.69	

ANNUAL STATEMENT

Balance Sheet

See Rules 36 of Tamil Nadu Water

PREVIOUS YEAR	LIABILITIES	TOTAL OF SUB HEAD	TOTAL OF MAJOR HEADS
Rs. Ps.		Rs. Ps.	Rs. Ps.
3477327270.53	B/f.		4720901959.30
	D. Amount Due		
3765196415.44	a. Cess Payable	4326906324.88	
(6699440.00)	Less: Cess unrecoverable	-	4326906324.88
20712658.84	b. Others (Schedule -O)		23874994.00
264956.98	E.Environmental Impact Study		264956.98
	F.Income received in advance		
374910006.03	(Schedule - P)		199510609.30
	G.Subsidies for common		
21498500.00	Effluent treatment plants		21498500.00
	H.Environmental Education		
1189893.34	Fund Reserve		1189893.34
500000.00	I.Emergency response centre		500000.00
692000.00	J. C P C B Green Belt		692000.00
1930077.00	K. Schemes		1930077.00
1024250.00	L.Sponsorship for Schemes		1074250.00
7658546588.16	Total		9298343564.80

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

Sd/-
R.S.Manoharan M.Sc., B.Ed,
Financial Adviser

Sd/-
Dr.K.Karthikeyan M.Tech Ph.d.,
Member Secretary

Chennai - 600 032
 Date : 23/12/2011

OF ACCOUNT

as on 31st March 2011.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR	ASSETS	TOTAL OF SUB HEAD	TOTAL OF MAJOR HEADS
Rs. Ps.		Rs. Ps.	Rs. Ps.
3888536541.57	B/f.		4457686852.69
	D. ADVANCES & DEPOSITS		
333220124.15	a. Misc. amounts recoverable (Schedule - Q)	548255571.15	
12034414.00	b. Others amounts recoverable (Schedule - R)	15676655.00	
2274380.00	c. Deposits (Schedule - S)	2275480.00	566207706.15
	E. INVESTMENTS		
751166042.00	1. Pension Fund Investment	1025396304.00	
313542194.51	2. Depreciation Fund Investment	352176843.18	
32587126.05	3. Refundable Performance - Guarantee Deposit Investment	32587126.05	
79212551.00	4. EL Encashment Fund Inv.	104370222.00	
3363250.00	5. CETP Develop. Fund Investment	3363250.00	
2051459953.44	6. Other term deposits	2657673752.77	4175567498.00
	F. CASH & BANK BALANCE		
191053729.44	a. Balance with Banks	98870295.96	
770.00	b. Cash in Hand	700.00	
95512.00	c. Funds under Transit	10512.00	98881507.96
7658546588.16	Total		9298343564.80

Subject to our report of even date & Schedules + Notes attached
for M/s. K. Ramkumar & Co, FR.NO:2830S
Chartered Accountants

Sd/-
C.V.Sankar IAS
Chairman

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

FORM - XV

ANNUAL STATEMENT OF ACCOUNTS - FIXED ASSETS AS ON 31st MARCH 2011.
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 01/04/2010 Rs.	Additions and Adjustment during the year Rs.	Total Rs.	Depreciation Rs.Rs.	Closing Balance on 31/03/2011 Rs. P.	Cumulative Depreciation on 31/03/2011
1.	Building	10.00%	26429543.20	0.00	26429543.20	2642954.00	23786589.20	85105415.40
2.	Computer	60.00%	2808738.13	5318652.00	8127390.13	6655475.00	1471915.13	17268871.87
3.	Electrical Installations	15.00%	3892797.68	517385.00	4410182.68	610279.00	3799903.68	3214466.43
4.	Furniture & Fixture	10.00%	5861298.31	733922.00	6595220.31	858584.00	5736636.31	13224975.92
5.	Lab Equipment	33.33%	7230065.65	3816289.00	11046354.65	4033236.00	7013118.65	73980529.99
6.	Library Books	10.00%	1761237.93	134924.00	1896161.93	185683.00	1710478.93	3676605.10
7.	Office Appliance	10.00%	6186837.08	1349540.00	7536377.08	718044.00	6818333.08	9447336.06
8.	Vehicle	33.33%	10943650.45	4605688.00	15549338.45	4117862.00	11431476.45	29491370.68
	Total		65114168.43	16476400.00	81590568.43	19822117.00	61768451.43	235409571.45

Subjec to our report of even date & Schedules + Notes attached for M/s. K. Ramkumar & Co, FR.NO:2830S Chartered Accountants

Sd/-
K.Chitra B.Com,MBA,FCA.,R.S.Manoharan M.Sc., B.Ed, Dr.K.Karthikeyan M.Tech Ph.d.,
Manager (F&A) Financial Adviser

Sd/-
C.V.Sankar IAS
Chairman

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

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2011.**

RECEIPTS

SCHEDULE - A

Services & Rental Charges

SL.NO	DESCRIPTION	Rs.	Ps.
1	Air Ambient Quality Survey	52292834.00	
2	Analysis Charges	33417571.00	
3	Bio Medical Management	849425.00	
4	Cess Appeal Fees	550.00	
5	GEMS / MINARS / NAMP	6052458.00	
6	Noise Leavel Measurement	189431.00	
7	SEIAA Processing Fees	11800000.00	
8	VEM Test Fees	76000.00	
	TOTAL	104678269.00	

SCHEDULE - B

MISCELLANEOUS RECEIPTS

SL.NO	DESCRIPTION	Rs.	Ps.
1	Environment Training Institute	1006500.00	
2	Interest on Loans & Advance	51287.00	
3	Miscellaneous Income	851187.00	
4	Others	1640324.00	
5	Prior period Adustment account	513433.00	
6	Public Hearing	3090000.00	
7	Right to Information Fees	54111.00	
8	Sale of legal Books	12010.00	
	TOTAL	7218852.00	

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2011.**

SCHEDULE - C

ADVANCE TO STAFF (Receipts)

SL.NO	DESCRIPTION	Rs.	Ps.
1	Computer Advance	49900.00	
2	Festival Advance	3800.00	
3	Leave Travel Concession	535.00	
4	Others	988784.00	
5	Temporary Advance	372006.00	
6	Tour Advance	101466.00	
7	Vehicle Advance	24955.00	
	TOTAL	1541446.00	

SCHEDULE - D

ADVANCES AND DEPOSITS

SL.NO	DESCRIPTION	Rs.	Ps.
1	A.A.Q.S received in advance	104900.00	
2	Advances	245380.00	
3	Cess received in advance	10156811.00	
4	Consent Fees received in advance	189458721.30	
5	Deposits	517.00	
6	Flag Day collection	8250.00	
7	Others - Court Deposit	11821974.00	
	TOTAL	211796553.30	

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2011.**

**PAYMENT
SCHEDULE - E
MISCELLANEOUS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	AAQS Expenses	138834.00	
2	Appellate Authority Expenses	171552.00	
3	Bank interest and commission	69140.31	
4	Board Meeting Expenses	576277.00	
5	Contract Charges / Wages	14084460.00	
6	Conveyance	417315.00	
7	Electricity / Water Charges	7669674.00	
8	Entertainment	192780.00	
9	Environmental Pavilion Expenses	223053.00	
10	Environmental Study Expenses	104430.00	
11	ETI Expenses	24544.00	
12	Expenses of Audit	5471.00	
13	Family Benefit Fund	114280.00	
14	Financial Assistance for projects	1889818.00	
15	Land Maintenance Expenses	129997.00	
16	Leave Travel Concession	18659.00	
17	Miscellaneous Expenses	1947079.00	
18	Newspaper & periodicals	262254.00	
19	Office Expenses	1231578.00	
20	Outstanding Expenses	4085355.00	
21	Petty Cash Expenses	688697.00	
22	Pollution Awareness Expenses	1616563.00	
23	Postage / Telegram	1316809.00	
24	Printing and Stationery	3563189.00	
25	Prior Period Expenses	181206.56	
26	Property tax	912190.00	
27	Public Hearing	2517924.00	
28	Rent	4637515.00	
29	Staff Welfare Expenses	2596826.00	
30	State Environmental Impact Authority Exp.	1134509.00	
31	Telephone and Telex	3095781.53	
32	Trade Fair	545885.00	
33	Training and Seminar	352859.00	
34	Travelling expenses	3187862.00	
35	Turn duty and Overtime Allow.	91500.00	
36	Vehicle Monitoring Station Exp	1800.00	
	TOTAL	59797666.40	

SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT

FOR THE YEAR ENDED ON 31st MARCH 2011.

PAYMENT

SCHEDULE - F

ADVANCE TO STAFF (PAYMENT)

SL.NO	DESCRIPTION	Rs.	Ps.
1	Festival Advance	823000.00	
2	Handloom Advance	338020.00	
3	Leave Travel Concession	24200.00	
4	Marriage Advance	30000.00	
5	Motor Vehicle Advance	5132610.00	
6	Other Advance	95000.00	
7	Personal Computer Advance	1540073.00	
8	Temporary Advance	2165228.00	
9	Tour Advance	265485.00	
	TOTAL	10413616.00	

SCHEDULE - G

DEPOSITS AND ADVANCES (PAID) (OTHERS)

SL.NO	DESCRIPTION	Rs.	Ps.
1	Advance to Suppliers	1023652.00	
2	Earnest Money Deposit	782300.00	
3	Other Advance/Deposit	104752.00	
4	Rent Advance	53064.00	
5	Retention Money Deposit	190813.00	
6	Security Deposit	288558.00	
	TOTAL	2443139.00	

SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT

FOR THE YEAR ENDED ON 31st MARCH - 2011.

EXPENDITURE

SCHEDULE - H

ALLOWANCES AND HONORARIA

SL.NO	DESCRIPTION	Rs.	Ps.
1	Allowances	86237343.00	
2	Bonus	1630357.00	
3	Contributory Pension Scheme	1190631.00	
4	Employee's Provident Fund for Deputationist	6612.00	
5	Health Insurance	165075.00	
6	Leave Travel Concession Expenses	39961.00	
7	Medical Reimbursement	2034760.00	
8	Pay Commision Arrears	18164126.00	
9	Special Provident Fund-Board's Contribution	120000.00	
10	Travelling Expenses	3556153.00	
11	Turn Duty and Overtime Allowances	100250.00	
	TOTAL	113245268.00	

SCHEDULE - I

RUNNING AND MAINTENANCE OF VEHICLES

SL.NO	DESCRIPTION	Rs.	Ps.
1	Fuel	5148115.00	
2	Hire Charges	505500.00	
3	Insurance	500723.00	
4	Repairs	1358426.00	
	TOTAL	7512764.00	

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2011.**

EXPENDITURE

SCHEDULE - J

MISCELLANEOUS

SL.NO	DESCRIPTION	Rs.	Ps.
1	Air Ambient Quality Survey Expenses	138834.00	
2	Advertisement & Publicity	311121.00	
3	Appellate Authority Expenses	2697869.00	
4	Bank Charges	37382.24	
5	Board Meeting / Other meeting Expenses	1038377.00	
6	Contract Charges / Wages	15133812.00	
7	Conveyance Expenses	494702.00	
8	D.E.E. - Legal sample Expenses	10200.00	
9	Electricity & Water Charges	8134350.00	
10	Entertainment Expenses	219521.00	
11	Environmental Pavilion Expenses	223053.00	
12	Environmental Study Expenses	104430.00	
13	Environmental Training Institute Expenses	125931.00	
14	Expenses of audit	7855.00	
15	Financial Assistance to Projects	1889818.00	
16	Insurance of Assets	39309.00	
17	Land Maintenance Expenses	129997.00	
18	Newspaper and Periodicals	321165.00	
19	Office Expenses	1298212.00	
20	Pollution Awareness Expenses	1940155.00	
21	Postage Expenses	1369364.00	
22	Printing & Stationery	3596614.00	
23	Property Tax and Rates	784090.00	
24	Rent on Buildings	4807430.00	
25	Staff Welfare Expenses	2111199.00	
26	State Environmental Impact Authority Exp.	3895183.00	
27	Sundries	303746.00	
28	Telephone Expenses	2834127.53	
29	Trade Fair Expenses	481208.00	
30	Training and Seminar Expenses	442584.00	
31	Vehicle Monitoring Station Expenses	1800.00	
	TOTAL	54923438.77	

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2011.**

**INCOME
SCHEDULE - K
FEES**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Consent Fees	1135822533.58	
2	Consent Forms	744355.00	
	TOTAL	1136566888.58	

**SCHEDULE - L
SEVICE AND RENTAL CHARGES**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Air Ambient Quality Survey	52479745.00	
2	Analysis Charges	33783186.00	
3	NAAQM / NAMP / GEMS	6052458.00	
4	Noise level survey fees	189431.00	
5	Vehicle Emission Monitoring Test Fees	76000.00	
	TOTAL	92580820.00	

**SCHEDULE - M
MISCELLANEOUS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Bio-Medical Waste Authorisation Fees	665675.00	
2	Cess Appeal Fees	550.00	
3	Environmental Training Inst. - Course fees	1006500.00	
4	Fees for Right to Information	54161.00	
5	Hazardous Waste Authorisation Fees	230250.00	
6	Interest on Loans & Advance	380423.00	
7	Miscellaneous Income	1878191.00	
8	Public Hearing	756634.00	
9	Sale of Books	12260.00	
10	SEIAA Processing Fees	11800000.00	
	TOTAL	16784644.00	

SCHEDULE FORMING PART OF BALANCE SHEET**AS ON 31st MARCH 2011.****LIABILITIES****SCHEDULE - N****OTHER DEPOSITS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Earnest Money Deposit	1847409.20	
2	Enlistment Deposits	219500.00	
3	Miscellaneous Deposits	46903521.23	
4	Retention Money Deposits	948106.48	
5	Security Deposits	1354834.65	
	TOTAL	51273371.56	

SCHEDULE - O**SUNDRY CREDITORS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Flag Day collection	8250.00	
2	Others	962937.00	
3	Outstanding Liability	19179491.00	
4	Pay Roll Liabilitie	3155968.00	
5	Staff Claim Payable	195935.00	
6	Tax Deducted at Source (Officers)	342357.00	
7	Tax Deducted at Source (Others)	30056.00	
	TOTAL	23874994.00	

SCHEDULE - P**INCOME RECEIVED IN ADVANCE**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Air Ambient Quality Service	30400.00	
2	Analysis Charges	74500.00	
3	Cess Fees	10521709.00	
4	Consent Fees	188884000.30	
	TOTAL	199510609.30	

SCHEDULE FORMING PART OF BALANCE SHEET

AS ON 31st MARCH 2011.

ASSETS

SCHEDULE - Q

MISCELLANEOUS ADVANCES

SL.NO	DESCRIPTION	Rs.	Ps.
1	Advance to Suppliers	6601993.00	
2	Interest Receivable	535556375.00	
3	Land Advance	4827931.00	
4	Other Advance (Imprest)	5000.00	
5	Rent Advance	1264272.15	
	TOTAL	548255571.15	

SCHEDULE - R

ADVANCES TO STAFF

SL.NO	DESCRIPTION	Rs.	Ps.
1	Festival Advance	520900.00	
2	Handloom Advance	206948.00	
3	Leave Travel Concession Advance	6614.00	
4	Marriage Advance	40185.00	
5	Motor Vehicle Advance	5930638.00	
6	Other Advance (Cellphone Advance)	23600.00	
7	Personal Computer Advance	8606467.00	
8	Temporary Advance	192907.00	
9	Tour Advance	148396.00	
	TOTAL	15676655.00	

SCHEDULE - S

DEPOSITS

SL.NO	DESCRIPTION	Rs.	Ps.
1	Customs Deposit	151973.00	
2	Electricity Deposit	950264.00	
3	Gas Deposit (Miscellaneous deposit)	132846.00	
4	Telephone & Telex Deposit	1040397.00	
	TOTAL	2275480.00	

**SCHEDULE FORMING PART OF BALANCE SHEET
AS ON 31st MARCH 2011**

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

SL.NO	DESCRIPTION		AMOUNT
1	Opening balance as on 01-04-10		751166042.00
	Add: Interest @ 6%		45069963.00
			796236005.00
	Less : Disbursement from fund		
	a) Commuted Pension	3299204.00	
	b) Pension disbursed by Corp. Office	7796564.00	
	c) Pension disbursed by Units	4393266.00	15489034.00
			780746971.00
	Add: Contribution to the Fund		244649333.00
	Closing balance as on 31-03-11		1025396304.00

EARN LEAVE ENCASHMENT FUND

	DESCRIPTION		AMOUNT
2	Opening balance as on 01-04-10		79212551.00
	Add: Interest @ 6%		4752753.00
			83965304.00
	Less: Disbursement from fund		
	a) Disbursement to retirees-Board	1144990.00	
	b) Disbursement to retirees-Units	3050108.00	4195098.00
			79770206.00
	Add: Contribution to the Fund		24600016.00
	Closing balance as on 31-03-11		104370222.00

DEPRECIATION FUND ACCOUNT

	DESCRIPTION		AMOUNT
3	Opening balance as on 01-04-10		313542194.51
	Add : Interest @ 6%		18812531.67
			332354726.18
	Add : Current year's Depreciation		19822117.00
	Closing balance as on 31-03-11		352176843.18

Notes Forming Part of the Accounts for the year ended 31st March 2011.

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

Date of Valuation	31-03-2011
Employee Profile	
Age of Retirement	58 / 60 years
No. of Employees	711
Total monthly relevant salary for pension	1,50,49,713/-
No. of pensioners	63
Total monthly pension	8,79,829/-
No. of family pensioners	37
Total monthly family pension	3,25,567/-
Assumptions as per AS 15R	
Discount rates as per para 78	8.00%
Salary escalation fixed as per para 83-91 and 120(1)	4%
Attrition rate fixed	1%
Funding mechanism	Earmarked deposits
Present value of obligation	102,53,96,304/-

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

Date of Valuation	31-03-2011
Employee Profile	
Age of Retirement	58 / 60 years
No. of Employees	711
Total monthly relevant salary for leave encashment	1,92,59,870/-
Average Age	49
Average past service	19
No. of leave days (EL)	1,70,640
Decrement adjusted / estimated future service	9

Assumptions as per AS 15R

Discount rates as per para 78	8.00%
Expected rate of return computed as per paras 107-109	0.00%
Salary escalation fixed as per para 83-91 and 120(1)	4.00%
Attrition rate fixed	1.00%
Proportion of leave availment	10.00%
Proportion of encashment during service	10.00%
Proportion of encashment on separation	80.00%
Funding mechanism	Earmarked deposits
Present value of obligation	10,43,70,222/-

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) Interest accrued on deposits has been adopted as worked out by Board. In the absence of confirmation by the respective banks, the income from this head has been recognized on the basis of the Board's workings.

c) Internal Audit :

The Board has an adequate Internal Audit System.

d) Fixed Assets :

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

e) Land Advances :

This represents amount paid towards the land cost to SIPCOT amounting to Rs.48,27,931 which is yet to be capitalized pending registration.

f) Advance to suppliers :

Rs. 41,69,814 has been paid as Advance to Suppliers for purchase of assets and other expenditure and is pending adjustment for more than one year.

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h) A sum of Rs.16,15,500/- towards cess receivable from certain industries and payable to MoEF New Delhi is debited to record. Adjustment of this sum will be done in Accounts after it is approved by Board as per orders of the Board in its resolution no.240-2-4 dated 30.12.10.

g) Income Tax :

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

VI) Contingent Liability :

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

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

Place : Chennai
Date : 23.12.2011

for M/s. K. Ramkumar & Co,
Firm Registration No: 02830S
Chartered Accountants

(R RAGHAVENDRAN)
Partner
Membership No. 26480