

ANNUAL REPORTS & ANNUAL ACCOUNTS



2011-2012



தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம்
TAMILNADU POLLUTION CONTROL BOARD

ANNUAL REPORT

2011 - 2012



TAMILNADU POLLUTION CONTROL BOARD

76, Mount Salai, Guindy, Chennai - 32.

CONTENTS

1.	INTRODUCTION	1
2.	CONSTITUTION OF TNPCB	3
3.	ENVIRONMENTAL LEGISLATIONS	4
4.	MONITORING NETWORK FOR QUALITY OF AIR AND WATER	11
5.	ENVIRONMENTAL STANDARDS	20
6.	LEGAL ACTION	21
7.	BOARD MEETINGS	22
8.	ENVIRONMENTAL TRAINING INSTITUTE	24
9.	ENVIRONMENTAL AWARENESS AND PUBLIC PARTICIPATION	25
10.	OTHER IMPORTANT MATTERS DEALT IN THE BOARD	26
11.	ANNEXURE	32
12.	FINANCE & ACCOUNTS	53

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.
- The e-Waste (Management and Handling) Rules, 2011

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.

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 722. 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, 9 District Environmental Laboratories are functioning. These laboratories carry out analysis on samples of sewage, trade effluents, emissions and hazardous wastes.

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

3.1 ENVIRONMENTAL LEGISLATIONS

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

- ✓ The Water (Prevention and Control of Pollution) Act, 1974 as amended in 1978 & 1988.
- ✓ The Tamilnadu Water (Prevention and Control of Pollution) Rules, 1983.
- ✓ The Water (Prevention and Control of Pollution) Cess Act, 1977, as amended in 1991 and 2003.
- ✓ The Water (Prevention and Control of Pollution) Cess Rules, 1978 as amended in 1992.
- ✓ The Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987.
- ✓ The Tamilnadu Air (Prevention and Control of Pollution) Rules, 1983.
- ✓ The Environment (Protection) Act, 1986.
- ✓ The Environment (Protection) Rules, 1986 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, 2011
- ✓ 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.
- ✓ The e-Waste (Management and Handling) Rules, 2011.

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 gross 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 2011-2012, 17313 samples of sewage and trade effluents from the industries were collected and analysed. The Board has issued 1388 'Consent to Establish' orders and 1385 'Consent to operate' orders under the Water (Prevention and Control of Pollution) Act, 1974 as amended during the year 2011-2012.

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 2011-2012, ambient air quality surveys have been conducted in 1066 industries. The Board has issued 1389 'Consent to Establish' orders and 1394 'Consent to Operate' orders under the Air (Prevention and Control of Pollution) Act, 1981 as amended during the year 2011 - 2012.

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
Hostels & 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 Environment (Protection) 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 31.03.2012, there are 2771 hazardous waste generating industries in Tamil Nadu generating total of 423631.4 T/Y of hazardous waste of which 188629.5 tons is recyclable, 17334.7 tons is incinerable and 217667.2 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 is functioning since September 2009. Besides, the Federation of common effluent treatment plants, Tiruppur has identified a site at Nallur Village, Karupagoundarpalayam, Tiruppur 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 Reddiyarpalayam, 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 I and in compliance with the standards prescribed in schedule V of the said rules.

The Board has so far inventoried 3707 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 Kinar 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 3450 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 108 out of 125 municipalities have been issued NOC for the site selected by them. Out of these 76 municipalities and 45 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/Authorisation to Municipalities and Town Panchayats on 08.02.2010 in order to speedup the issue of NOC/Authorisation 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 the 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.

4. MONITORING NETWORK FOR QUALITY OF AIR AND WATER

4.1 AIR QUALITY MONITORING

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

4.1.1 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 Respirable Suspended Particulate Matter (RSPM) (PM₁₀) and gaseous pollutants such as Sulphur di oxide (SO₂) and Nitrogen-di-oxide (No₂).

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), Nitrogen-di-oxide (NO₂) and Respirable Suspended Particulate Matter (RSPM) (PM₁₀). The eight ambient air quality monitoring stations functioning in Chennai are :-

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

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

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

Area	Annual average concentrations of pollutants in ug/m ³		
	SO ₂	NO ₂	RSPM
Industrial Residential, Rural & other areas	50	40	60

The ambient air quality data collected from the above mentioned air quality monitoring stations (NAMP) indicate that the parameters such as sulphur dioxide, nitrogen dioxide are found to be well controlled in the industrial area.

The average values of respirable suspended particulates (PM₁₀) levels exceeded the revised standard at all the Monitoring stations (NAMP) in Chennai. The average values of pollutants recorded under NAMP programme during the year 2011-2012 are given in **Annexure-VI**.

In general, under CAAQM project the ambient air pollutants such as sulphur dioxide and nitrogen dioxide are well within the standards in Chennai city limit, where as respirable suspended particulate matter (PM₁₀) levels exceeded the permissible limit at all stations, 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 2011-2012 are given in **Annexure VII**.

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

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

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

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

- (a) G.D. Matriculation School Buildings - Mixed zone
- (b) Ponnijarapuram - Residential zone
- (c) SIDCO Building - Industrial zone

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

- (a) Sowdeswari College - Mixed zone

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

- (a) Highways Project Building - Residential zone
(b) M/s.Susee Cars and trucks Co., Ltd.. - Industrial zone
(c) Avvai Girls Higher Secondary School - Mixed zone

The ambient air quality data recorded during 2011-2012 indicate that the parameters such as sulphur dioxide, nitrogen dioxide are found to be well controlled at Thoothukudi, Madurai, Coimbatore and Salem. The annual average values of RSPM are found to exceed the permissible limits at Thoothukudi and Salem due to heavy commercial activities and traffic flow. The annual average values of pollutants recorded during the year 2011-2012 are given 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 NO₂ values are found well within the prescribed standard and the RSPM 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 2011-2012 are given in **Annexure - VIII**

4.2 VEHICULAR EMISSION MONITORING

4.2.1 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. Then TNPCB carried out Vehicle emission monitoring at Ambattur from 01.01.2010 to 31.10.2010.

From 2008 Government allowed private emission checking centers also to test and issue EUCC in respect of goods vehicles registered in Chennai Urban agglomeration areas. Then, number of vehicles coming to the TNPCB Emission checking station located at Ambattur reduced gradually and subsequently it was closed with effect from 01.11.2010.

At present only 256 private emission testing centers authorized by Transport Department under rule 116 (B) of Tamil Nadu Motor Vehicles Rules 1989 are testing and issuing EUCC for all kind of vehicles in Tamil Nadu.

4.3 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 2011-2012 are shown at **Annexure IX**.

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

Tamil Nadu Pollution Control Board is monitoring the inland water quality under two major programmes namely Global Environmental Monitoring System (GEMS) from 1984 and Monitoring of Indian National Aquatic Resources (MINARS) from 1988 at 32 stations along the four major rivers i.e. Cauvery, Tamiraparani, Vaigai and Palar and three lakes i.e. Ooty, Kodaikanal and Yercaud in Tamil Nadu.

In addition to the above, CPCB has sanctioned 23 new Water Quality Monitoring stations under the 11th plan period during November 2010 and the Monitoring was started from December 2010. At present 55 (32 old stations+23 new stations) stations are being monitored by Tamil Nadu Pollution Control Board. The programmes are funded by the Central Pollution Control Board, New Delhi.

Under MINARS programme, the rivers Thamiraparani, Palar and Vaigai and lakes

such as Udhamandalam Lake, Kodaikanal Lake, Yercaud Lake, Veeranam Lake, Porur Lake, Poondi Lake, Pulicat Lake and Redhills Lake are being monitored. Under GEMS and MINARS programmes the river Cauvery is being monitored.

4.4.1 The River Cauvery and its Tributaries

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 Cauvery river water is being monitored at thirty three (33) places along the river under GEMS (4 stations) and MINARS (29 stations). These places have been selected on the basis of the location of outlets for the discharge of industrial effluents, municipal 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, XB and XC**.

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 and domestic 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 (B), drinking water source with conventional treatment followed by disinfection (C) except for Musiri bore well where the water quality comes under class (D) propagation of wild life, fisheries. The water quality of Thirumanimuthar, Vasista & Sarabanga River does not meet the water quality criteria (DBU Class) and this may be due to disposal of municipal and domestic waste into the river systems directly in that particular sampling point.

4.4.2 The River Tamiraparani

The water quality of the Tamiraparani River is being monitored on a frequency prescribed by Central Pollution Control Board, New Delhi at 12 places. 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 2011-2012 shows that the average level of pH values varied from 7.02 to 7.75 and the average values of the bio-chemical oxygen demand (BOD) varied from 1 to 3 mg/l as against the standards prescribed for pH (6.5 to 8.5) and bio-chemical oxygen demand (3mg/L) respectively. The parameters analysed meet the standards prescribed for surface water quality under the class 'B' class designated best use for outdoor bathing.

4.4.3 The River Palar

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' drinking water source with conventional treatment followed by disinfection.

4.4.4 The River Vaigai

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, 8 important lakes of Tamil Nadu at Udhagamandalam, Kodaikanal, Yercaud, Veeranam lake, Porur lake, Poondi lake, Pulicat lake and Redhills lakes have been identified and monitored by collecting samples on monthly basis. The mean values of water quality are furnished in **Annexure XIII**.

The bio-chemical oxygen demand (BOD) in Udhagamandalam lake is found to exceed the standards prescribed due to the surface run off and sullage discharge into lake either directly or indirectly. The water quality of the Udhagamandalam lake meets the standards prescribed for surface water under class 'E'

The water quality of the Pulicate lake does not meet the water quality criteria (DBU Class) and this may be due to back water intrusion in that particular sampling point. The water quality of Yercaud lake, Kodikanal lake, Poondi lake, Red Hills lake and Porur lake meets the standards prescribed under class 'C' drinking water source with conventional treatment followed by disinfection. The water quality of Veeranam lake meets the standards prescribed for surface water under class 'B' outdoor bathing.

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

During the year 2011-2012, 980 samples were collected and analysed at the Advanced Environmental Laboratory, Chennai. The mean values of water quality are furnished in the **Annexure-XIV**.

4.6 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 2011 - 2012 during festival seasons with monitoring of noise level and air quality level during Deepavali and monitoring of air quality level during Bhogi, 2012. 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 87 persons attached to the private emission testing centers and issued 123 performance certificate for the emission monitoring instruments attached to the private emission testing centers.

The Hon'ble Minister for Environment made several announcements on the Floor of assembly during the year 2011 and one such announcement is regarding creating awareness among the general public on the ill effects of the use and throw plastics. To comply with the above announcement, TNPCB sanctioned Rs. 32 lakhs for conducting awareness in all the 32 Districts of the State of Tamil Nadu. Awareness programmes have been conducted in all the Districts and awareness has been created among the student community. Similar such, awareness programme are proposed to be conducted during the next year also.

SRIRANGAM EXPERIENCE

Plastic Awareness Campaigning was conducted on 4.1.2012 & 5.1.2012 at Srirangam on the eve of Vaikunda Ekadesi Festival. Placards bearing plastic avoidance slogans were placed in 200 locations in Srirangam zone to sensitize the public on the ill-effects of usage of plastics. Electronic digital boards were installed by the Corporation at four main locations mainly focusing on the plastic awareness slogans. Use of plastic water pockets was completely banned. Plastic collection centres to receive plastic wastes were opened at 51 locations. People handing over any amount of plastic wastes from the public places or even from the households were issued coupons which carried serial numbers and all other details. More than 1 lakh coupons were printed for this purpose. The lucky dip draws were held right through the festival day and the winners were announced on the same day over public address system. Three luck draws were conducted on 5.1.2012 to select the winners. First prize of gold coins was awarded to five luck winners, 21 second prize winners were awarded with silver coins. Also, 20 consolation prizes in the form of LED bulbs were distributed to encourage energy conservation.

THIRUVANNAMALAI EXPERIENCE

The District Administration of Tiruvannamalai in co-ordination with Pollution Control Board, Revenue Department, Police, Municipality, Plastic Manufactures Association and NGOs has decided to avoid menace of plastic waste during the Mahadeepam festival. The programme was implemented in association with the Volunteers from Nehru Yuva Kendra, NSS and Police. Dust bins and bio bags were provided by the Municipality. Volunteers were provided with T-Shirt, cap and ID card. The scheme was inaugurated by District Collector on 7.12.2011 by issuing T-Shirts, Caps and ID card to volunteers at the premises of Nehru Yuva Kendra and issue First Prize Coupon to Public who has put used plastic into the dust bin. 70

bins were provided starting from Agnivallam to Vellore bus stand. 500 T-Shirts & 500 caps were given to the volunteers. Slogans were printed in the T Shirt & Cap. 20feet x 10 feet banners were kept at 10 locations and 6 feet x 3 feet banners were kept in 40 locations. At 6 places, CD were played round the clock to create awareness on plastic. 60 Plastic Manufacturers Association members involved in monitoring the Volunteers. These Volunteers were changed every 12 hours. A booth was set-up at the end of Girivalam path to draw luck prizes. For every one hour, three draws were done and the lucky winners were given with silver coins. Once in 8 hours a special draw was done and a gold coin was given to the winner. In total 6 Gold Coins and 140 silver coins were given to the prize winners. These prizes were given to the winners on the spot. 3 lakh coupons were distributed. In this programme 476 kgs of plastic waste was collected and sent for recycling.

Pollution Control Board has also provided training for the operators of Effluent treatment Plant regarding the safety measures to be followed during the cleaning of the effluent tanks to avoid the accidental death. The training has been conducted in 10 locations and more than 3000 participants took part in the training programme. This training programme will reduce or eliminate the accidental death during the cleaning of Effluent treatment Plant tanks.

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.

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 2011-2012, 1933 show cause notices and 798 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 2011 2012, 175 appeals have been filed by the aggrieved units in the Appellate Authority and the said authority disposed 73 appeals.

7.1 BOARD MEETINGS

THE DETAILS OF BOARD MEETINGS HELD DURING THE PERIOD FROM APRIL 2011 TO MARCH 2012 ARE DETAILED BELOW:

Sl.No.	No.of Subject placed	Board Meeting Number	Date of Meeeting
1	23	242	27.06.2011
2	35	243	04.11.2011
3	19	244	23.12.2011
4	17	245	14.02.2012

7.2 MAJOR POLICY DECISION TAKEN BY THE TAMILNADU POLLUTION CONTROL BOARD DURING THE PERIOD FROM APRIL 2011 TO MARCH 2012.

1. The Board resolved to approve and forward the proposal to the Government for its approval for bifurcation of the Office of the District Environmental Engineer, Coimbatore.
2. The Board resolved to approve and forward the proposal to the Government for its approval the formation of O/o. Joint Chief Environmental Engineer (Monitoring Squad) at Coimbatore and Chennai Region.
3. The Board resolved to approve and forward the proposal to the Government for establishment of District Environmental Laboratory at Maraimalai Nagar by creating Scientific and supporting posts at a total cost of Rs.58 lakhs for its approval.
4. The Board resolved to approve the proposal of formation of Office of the District Environmental Engineer, Ariyalur District with creation of posts.
5. The Board resolved to approve the proposal including creation of posts and forward the proposal to the Government for its approval the formation of O/o. Joint Chief Environmental Engineer (Monitoring Squad) at Vellore, Madurai and Trichy Region.
6. The Board resolved to approve the NABL accreditation (ISO17025) proposed for the AELs at Chennai, Madurai, Salem, Coimbatore and Cuddalore at cost of Rs.72.00 lakhs.
7. The proposal included the creation of posts within this cost estimate of Rs.72.00lakhs.
8. The Board resolved to approve the proposal in principle for construction of District Environmental Engineer Office in Master Plan Complex at Thanthoni village, Karur

District at a cost of Rs.113.80 lakhs.

9. The Board resolved to approve the proposal in principle for construction of District Environmental Engineer Office and Advanced Environmental Laboratory at Sanganoor Village, Coimbatore North Taluk, Coimbatore District at a cost of Rs.208/- lakhs.
10. The Board resolved to approve the proposal in principle for construction of District Environmental Engineer Office and Advanced Environmental Laboratory at SIPCOT Industrial Complex, Cuddalore, with an exclusion of Centralized Air Conditioning cost but provision of air conditioning as is done for the other District Environmental Engineer office buildings.
11. The Board resolved to approve the proposal for the bifurcation of the Office of District Environmental Engineer, Tiruppur into two offices with head quarters of the new office at Palladam and to forward the proposal to the Government for bifurcation of the Office and creation of posts for its approval.
12. The Board resolved to approve the proposal for sharing 50% cost (Rs.29.00 lakhs) for establishment of five real-time continuous Ambient Noise Monitoring Stations in Chennai Corporation Area by Central Pollution Control Board (CPCB) under National Ambient Noise Monitoring Network Programme (NANMNP) Phase-II.
13. The Board resolved to approve the proposal for imparting training to ETP / CETP Operators on Health and Safety aspects to be followed while cleaning of Effluent Treatment Plants for the industries and Common Effluent Treatment Plants at a total cost of Rs.25.00 lakhs.

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 2011-2012 this training institute has conducted 14 programmes and trained 757 personnel in total.

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 2011-12. 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 83 programmes were conducted. In the Anna FM 38 environmental programs were broadcasted. Apart from the above, TNPCB has conducted 165 awareness programmes on various environmental issues for the public, school students, other institutions etc.

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. 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. Distilleries have been insisted to provide zero discharge system and 7 distilleries have gone for biocomposting of their effluents with press mud of sugar factories for achieving zero discharge of trade effluent and 5 distilleries have 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 APPLIED RESEARCH AND DEVELOPMENT

The TNPC Board has resolved to support research projects relating to environmental protection out of Cess Funds in accordance to TNPC Board Proceeding Ms.No.1/Dated 03.01.1996. Since, promotions of research and development activities are one of the functions of the Board as per Section 17 of the Water (Prevention and Control of Pollution Act), 1974 constituted the AR&D Evaluation Council, TNPCB. The Board has established the AR&D Wing as per G.O.Ms.No.199, E&F (ECI) Dept., Dated 23.6.95 in AEL, TNPCB, Chennai.

Subsequently, the Board has reconstituted the Council as per TNPC Board's Proceeding No.3043/AR&D/2008/Dated 22.02.2010 for its purposes with expert members from the renowned State/Central Government Research Institutions, reputed University Departments of the State and industry. To make suggestions to the Board to invite research proposals from the various research institutions and university departments of the State as per above said references.

The Sub Committee, AR&D Evaluation Council, TNPCB was also constituted to evaluate the research projects to furnish the report to the Council for its decision. The Council after careful examination finally makes the decision with comments on the projects and guidelines to the project proponents and recommends the environmentally viable projects to the consideration of the Board to sanction financial assistance from the Cess Funds.

Further, the Board as per Proceeding No.22/Dated 04/7/2008 has revised the "Guidelines of Funding of R&D Projects" and "Terms and Conditions for Tamil Nadu Pollution Control Board Funded Projects" to be sanctioned from the Cess Funds based on the suggestions of the Council.

In accordance to above and based on the suggestions of the AR&D Evaluation Council, TNPCB the Board has invited research proposals from the various university departments/research institutions of the State. The Sub Committee, AR&D Evaluation

Council, TNPCB has evaluated and furnished the report to the Council. The Council after careful examination recommended 5 projects to the Board for its consideration and sanction of research grant to the environmentally viable projects as per the objectives of TNPCB out of Cess Funds and from the sum allocated under the budget towards "Research Scheme" as per "Terms and Conditions for Tamil Nadu Pollution Control Board Funded Projects".

Based on the recommendations of the AR&D Evaluation Council, TNPCB the Board has resolved to sanction financial assistance to 5 research projects at a cost of Rs. 29.82 lakhs.

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- tnpccbcomplaint@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 required based on the reports are taken then and there. For attending environmental related complaints especially in Chennai City, a 'Green Squad' under the control of District Environmental Engineer, Tamilnadu Pollution Control Board, Chennai has been formed. Two patrolling vehicles and two two-wheelers have been provided to the Green Squad Chennai 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 31 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 1914 applications seeking information for the period from 01.04.2011 to 31.03.2012 and the

Board has disposed all the request of 1914 applicants. Further the Board has also received 125 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.

3					
4	21.08.2011	Member	7.4.2011	Dr. V. IRAI ANBU, I.A.S., Secretary to Government, Environment and Forests Department, Fort St. George, Secretariat, Chennai - 600 009.	
5	30.08.2011	Member	22.8.2011	Thiru. RAMESH RAM WISHRA, I.A.S., Secretary to Government, Environment and Forests Department, Fort St. George, Secretariat, Chennai - 600 009.	
6	24.07.2011 F.N.	Member	30.08.2011 A.N.	Thiru. VISHWANATH SHEGONKAR, I.A.S., Principal Secretary to Government, Environment and Forests Department, Fort St. George, Secretariat, Chennai - 600 009.	
7	02.01.2012 A.N.	Member	04.07.2011 A.N.	Thiru. C.V. SANKAR, I.A.S., Principal Secretary to Government, Environment and Forests Department, Fort St. George, Secretariat, Chennai - 600 009.	
8	07.01.2012 F.N.	Member	02.01.2012 A.N.	Thiru. SANDEEP SAXENA, I.A.S., Principal Secretary to Government, Environment and Forests Department, Fort St. George, Secretariat, Chennai - 600 009.	

Annexure – I

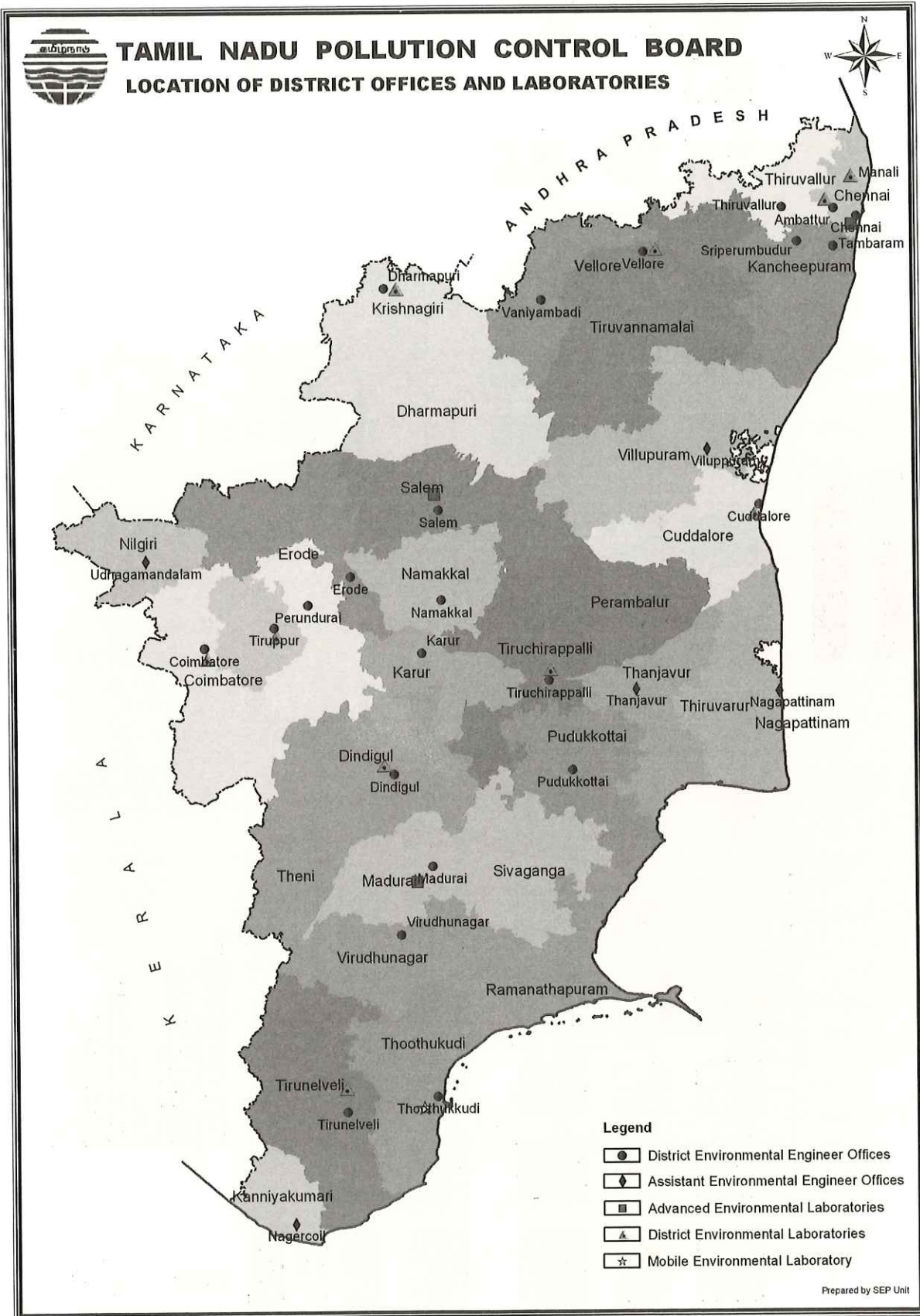
List of Board Members from 1/4/2011 to 31/3/2012

Sl. No.	BOARD MEMBERS	Position	From	To
1	Thiru. VISHWANATH SHEGONKAR, I.A.S., Principal Secretary / Chairman, Tamilnadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai – 600 032.	Member	1/4/2011	29/5/2011
2	Thiru. RAMESH RAM MISHRA, I.A.S., Principal Secretary / Chairman, Tamilnadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai – 600 032.	Member	30/5/2011	25/7/2011
3	Thiru. C.V. SANKAR, I.A.S., Principal Secretary / Chairman, Tamilnadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai – 600 032.	Member	26/7/2011	31/3/2012
4	Dr. V. IRAI ANBU, I.A.S., Secretary to Government, Environment and Forests Department, Fort St. George, Secretariat, Chennai – 600 009.	Member	1.4.2011	21.05.2011
5	Thiru. RAMESHRAM MISHRA, I.A.S., Secretary to Government, Environment and Forests Department, Fort St. George, Secretariat, Chennai – 600 009.	Member	22.5.2011	30.05.2011
6	Thiru. VISHWANATH SHEGONKAR, I.A.S., Principal Secretary to Government, Environment and Forests Department, Fort St. George, Secretariat, Chennai – 600 009.	Member	30.05.2011 A.N	24.07.2011 F.N
7	Thiru. C.V. SANKAR, I.A.S., Principal Secretary to Government, Environment and Forests Department, Fort St. George, Secretariat, Chennai – 600 009.	Member	24.07.2011 A.N	02.01.2012 A.N
8	Thiru. SANDEEP SAXENA, I.A.S., Principal Secretary to Government, Environment and Forests Department, Fort St. George, Secretariat, Chennai – 600 009.	Member	02.01.2012 A.N	07.01.2012 F.N

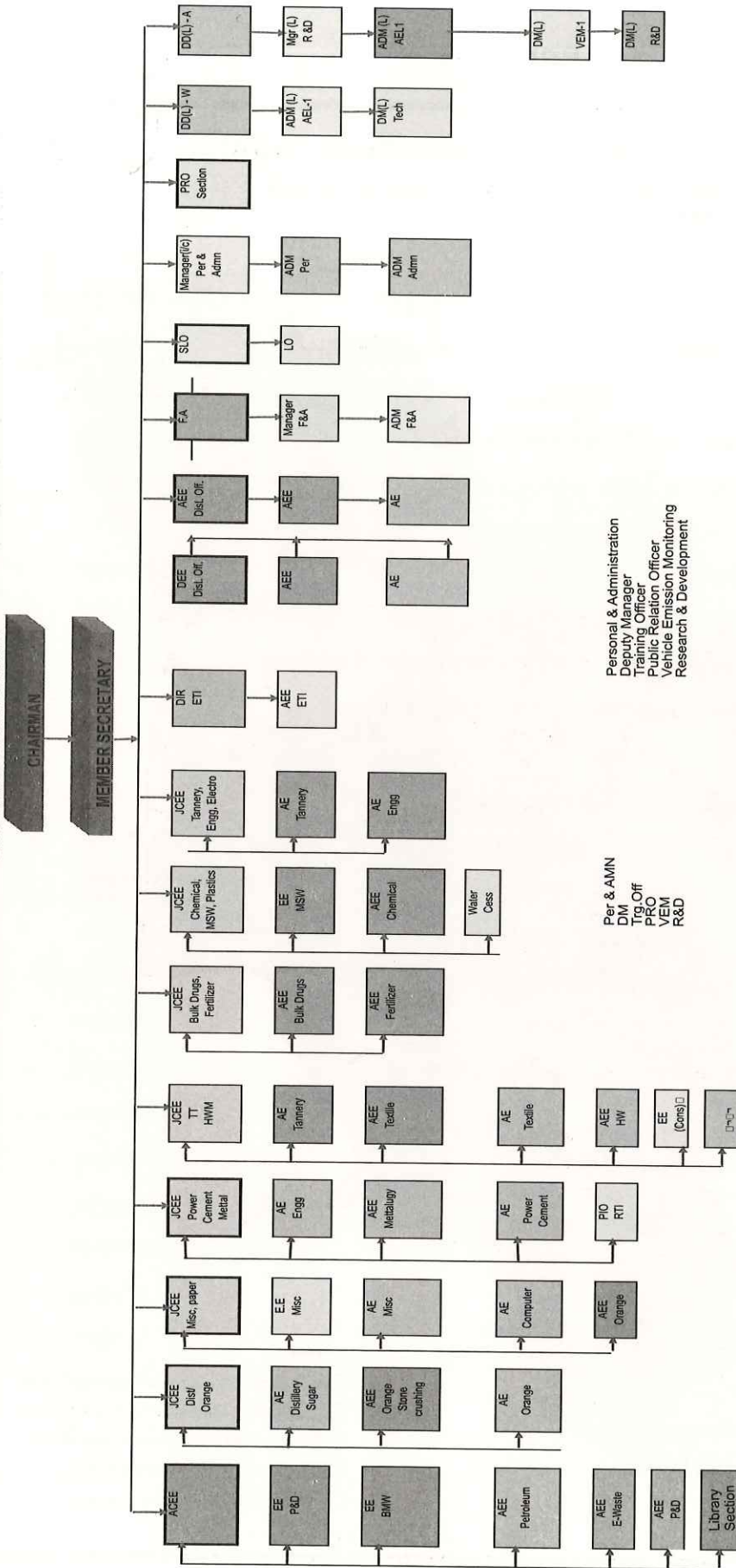
Sl. No.	BOARD MEMBERS	Position	From	To
9	Thiru. C.V. SANKAR, I.A.S., Principal Secretary to Government, Environment and Forests Department, Fort St. George, Secretariat, Chennai – 600 009.	Member	07.01.2012 A.N	31.03.2012
10	Thiru P. RAGHAVAN Joint Director Finance (BPE) Department Secretariat Fort. St. George, Chennai 600 009.	Member	1.4.2011	20.9.2011
11	Dr. P. SENTHILKUMAR, I.A.S., Special Secretary to Government., Finance Department, Secretariat, Fort St. George, Chennai – 600 009.	Member	20.9.2011	31.3.2012
12	Thiru. PANKAJ KUMAR BANSAL, I.A.S., Director of Town and Country Planning, Chengalvarayan Building, IV Floor, 807, Anna Salai, Chennai – 600 002.	Member	1.4.2011	22.5.2011
13	Thiru. A. KARTHIK, I.A.S., Director of Town and Country Planning, Chengalvarayan Building, IV Floor, 807, Anna Salai, Chennai – 600 002.	Member	23.5.2011	31.3.2012
14	Thiru. K. AYYANU, B.E., Chief Inspector of Factories, 617, Bharathkumar Bhavan, Anna Salai, Chennai- 600006	Member	1.4.2011	31.3.2012
15	Dr. R.T. PORKAIPANDIAN, M.B.B.S., DPH, DIH, DHM, DFN., Director of Public Health and Preventive Medicine, Chennai – 600 006.	Member	1.4.2011	31.3.2012
16	Thiru. GANGANDEEP SINGH BEDI, I.A.S., Managing Director, TWAD Board, Chepauk, Chennai – 600 005.	Member	1.4.2011	20.5.2011
17	Thiru. SUDALAI KANNAN, I.A.S., Managing Director, TWAD Board, Chepauk, Chennai – 600 005.	Member	23.5.2011	27.9.2011

18	Thiru. P. EKAMBARAM, I.A.S., Managing Director, TWAD Board, Chepauk, Chennai – 600 005.	Member	27.9.2011	31.03.2012
19	Thiru. K. BALASUBRAMANIAN, B.E., Director (Generation) / TANGEDCO., Tamilnadu Electricity Board, Electricity Avenue (NPKRR Maligai), 800, Anna Salai, Chennai – 600 002.	Member	1.4.2011	31.01.2012
20	Er. S. AKSHAYA KUMAR, B.E., FIE Director (Generation) / TANGEDCO., Tamilnadu Electricity Board, Electricity Avenue (NPKRR Maligai), 800, Anna Salai, Chennai – 600 002.	Member	1.2.2012	31.03.2012
21	Tmt. MADHUMATHI KUMAR, DGM (P&SP) / General Manager (P&R) SIPCOT, 194, Marshall Road, Chennai – 600 008.	Special Invitee	1.4.2011	31.03.2012
22	Thiru. HARMANDAR SINGH, I.A.S., Commissioner of Industries and Commerce, 36, South Canal Bank Road, Mandavelipakkam, R.A. Puram, Chennai – 600 028.	Special Invitee	1.4.2011	31.03.2012
23	Thiru. T.S. SRINIVASA MURTHY, I.F.S., Director of Environment Department, Ground Floor, Panagal Building, Saidapet, Chennai – 600 015.	Special Invitee	1.4.2011	31.03.2012
24	Thiru. R. RAMACHANDRDAN, Member Secretary, Tamilnadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai – 600 032.	Member	1/4/2011	23/8/2011
25	Thiru. K. KARTHIYEVAN, Member Secretary, Tamilnadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai – 600 032.	Member	23/9/2011	2/1/2012
26	Thiru. T.S. SRINIVASA MURTHY, I.F.S., Member Secretary, A/c., Tamilnadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai – 600 032.	Member	9.1.2012	31.03.2012

Annexure II



ANNEXURE - III ORGANISATION CHART



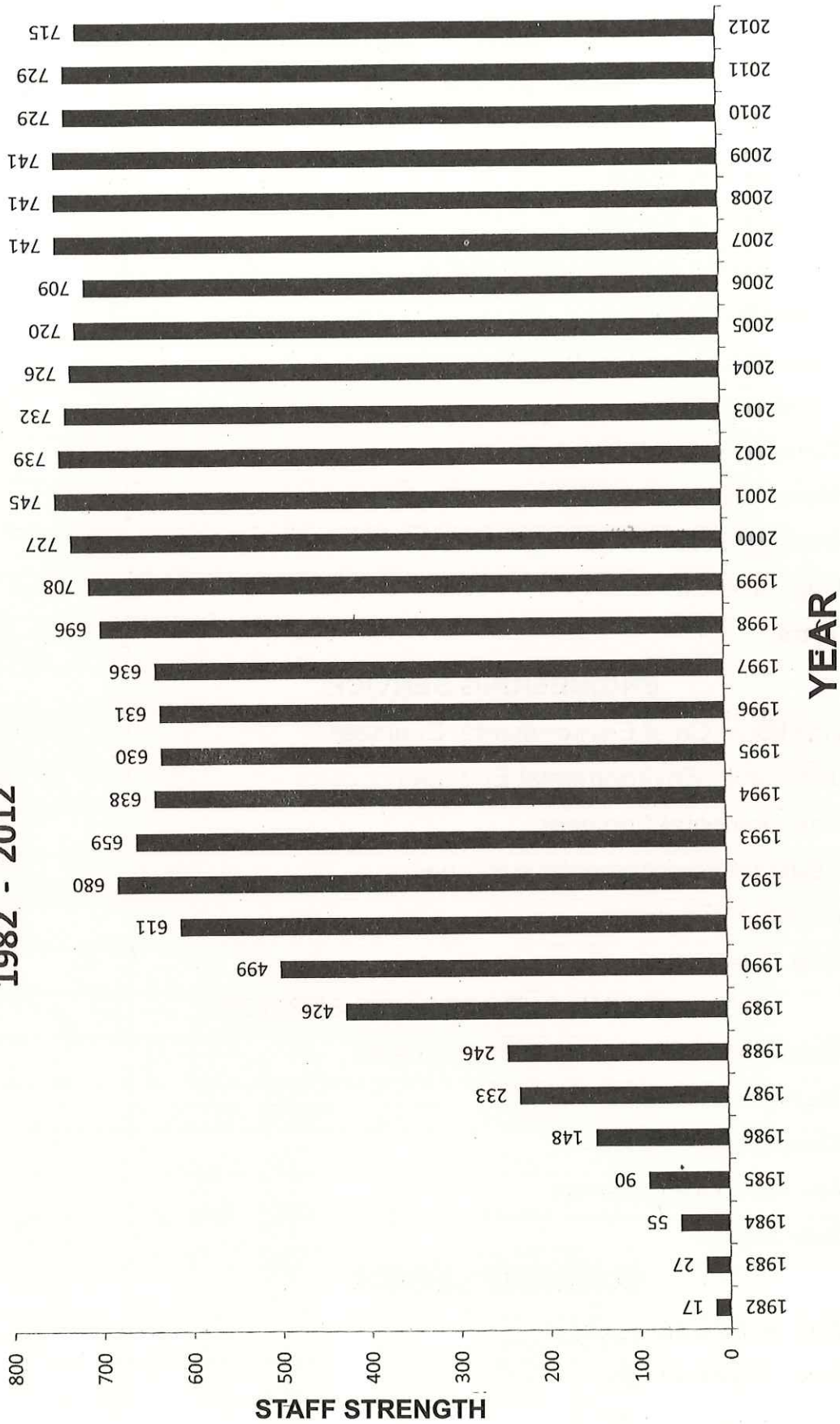
Personal & Administration
Deputy Manager
Training Officer
Public Relation Officer
Vehicle Emission Monitoring
Research & Development

Per & AMN
DM
Trg.Off
PRO
VEM
R&D

Additional Chief Environmental Engineer
Joint Chief Environmental Engineer
Environmental Engineer
District Environmental Engineer
Assistant Environmental Engineer
Assistant Engineer
Director
Financial Advisor
Senior Law Officer / Law Officer
Deputy Director (Law) / Water
Deputy Director (Lab) / Air
Asst. Director (Lab)
Additional Manager (Lab)
Additional Manager (Lab)
Manager (Lab)

ACCE
JCEE
EE
DEE
AEE
AE
DIR
FA
SLO/LO
DD(L)-W
DD(L)-A
AD(L)
ADM(L)
ADM
Mgr(L)

**ANNEXURE -IV
STAFF STRENGTH FROM THE YEAR
1982 - 2012**



ANNEXURE - V

STAFF POSITION AS ON 31.3.2012

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	312
Miscellaneous Service	6
Basic service	57
Deputationist	3
Total	722
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
Asst. Director (Lab)	6
Chief Scientific Officer	3

NAME OF THE POST	STRENGTH
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	3
Additional Manager	5
Deputy Manager	14
Sub-Total	22
GENERAL SUBORDINATE SERVICE	
Assistant Manager	45
General Assistant	101
Assistant	36
Steno Typist	28
Typist	32
Telephone Operator	2
Driver	55
Rider	1
Record Clerk	12
Sub-Total	312
MISCELLANEOUS SERVICE	
Junior Programmer	2
Data Entry Operator	2
Librarian	2
Sub-Total	6

NAME OF THE POST	STRENGTH
BASIC SERVICE	
Office Assistant	52
Cleaner	1
Sweeper	3
Watchman	1
Sub-Total	57
DEPUTATION	
Financial Adviser	1
Assistant Engineer (Automobile)	1
Assistant Engineer (Construction)	1
Sub-Total	3

ANNEXURE -VII
CHENNAI AMBIENT AIR QUALITY MONITORING PROGRAMME
STATUS OF AIR QUALITY DURING APRIL 2011 TO MARCH 2012

STATION	ANNUAL AVERAGE CONCENTRATIONS OF AIR POLLUTANTS $\mu\text{g}/\text{m}^3$		
	SO ₂	NO ₂	RSPM
ANNA NAGAR	9	18	136
ADYAR	8	12	63
KILPAUK	10	20	135
THIYAGARAYANAGAR	11	21	145
VALLALAR NAGAR	11	21	168
Prescribed Standard	50	40	60

Note: SO₂ : Sulphur di oxide NO₂: OxNitrogen di oxide
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 2011 - 2012

Sl.No.	Station	Average Concentrations of Air Pollutants, $\mu\text{g}/\text{m}^3$		
		SO ₂	NO ₂	RSPM
1	Gandhi Market	12	17	92
2	Mainguard Gate	11	17	68
3	Bishop Heber College	9	14	40
4	Golden Rock	10	15	42
5	Central Bus Stand, Trichy	13	19	113
Prescribed Standard		50	40	60

Note : SO₂ : Sulphur di oxide NO₂ : Nitrogen di oxides RSPM : Respirable dust particulate matter (<10 micron

ANNEXURE - IX

PERFORMANCE OF LABORATORIES (Period : April 2011 March 2012)

S.No.	Name of the Laboratory	Water Samples				Air Survey				Air Project				Noise			
		Effluent		Projects		Total	No. of Industries	AQS Stations	SM Stations	CAAQM	NAMP	TAQPM	Spl. Project	Industry		Complaints	
		Regular	Complaints	GEMS	MINARS									CCWW	Sludge/Soil/Fuel / Others	No. of Stations	No. of Industries
Advanced Environmental Laboratory																	
1	Chennai	2,478	6	-	110	980	108	3,682	103	550	319	1,413	-	87	585	3	15
2	Madurai	1,112	-	-	28	-	10	1,150	88	518	170	-	788	86	758	13	180
3	Salem	1,497	-	68	350	-	19	1,934	77	420	200	-	463	75	672	3	12
4	Coimbatore	1,378	-	-	-	-	-	1,378	94	498	268	-	695	147	796	13	79
5	Cuddalore	981	-	-	-	-	-	981	90	482	235	-	-	90	476	-	-
District Environmental Laboratory																	
6	Ambattur	1,319	-	-	-	-	-	1,319	86	470	278	-	856	79	396	10	65
7	Dindigul	631	-	-	-	-	-	631	58	350	103	-	-	58	371	2	48
8	Hosur	719	-	-	-	-	-	719	100	538	330	-	-	100	768	2	-
9	Manali	881	-	-	-	-	-	881	37	215	109	-	-	40	207	-	-
10	Trichy	1,219	-	-	-	-	6	1,225	116	645	233	-	715	114	605	3	17
11	Tirunelveli	738	-	-	120	-	10	868	-	-	-	-	-	-	-	-	-
12	Tiruppur	875	-	-	-	-	241	1,116	81	407	205	-	-	88	489	5	35
13	Vellore	1,429	-	-	-	-	-	1,429	78	416	319	-	-	67	411	2	10
Mobile Environmental Laboratory																	
14	Thoothukudi	-	-	-	-	-	-	-	58	318	100	-	819	35	175	2	10
	Total	15,257	6	68	608	980	394	17,313	1,066	5,827	2,869	1,413	3,621	1,066	6,709	58	471

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

ANNEXURE-X-A

CAUVERY RIVER WATER QUALITY(UNDER GEMS PROGRAMME)2011-2012

S.NO	Name of stations	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27 C mg/L	Nitrate mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO ₃ mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Mettur	6.49	8.06	360	1	0.2	155	316	2	8	141	32	19	3	0.75	138	31	22	12	34	250	230	6	<0.005	<0.002	3	0.31	B
2	Pallipalayam	6.23	7.87	424	1	0.2	178	339	3	4	169	41.5	17.33	3	0.78	151	31	18	12	44	280	262	4	0.102	<0.002	4	0.26	B
3	Musiri borewell	5.40	7.57	1396	1	0.2	2	24	2	2	330	217.5	16	4	1.33	532	147	41	112	98	978	930	4	0.04075	<0.002	7	0.39	D
4	Musiri ferrygate	7.65	8.05	592	1	0.2	139	274	6	9	215	71.66	16.66	3	0.9	192	38	23	20	68	399	373	8	<0.005	<0.002	7	0.35	B
*Tolerance Limit		5	6.5-8.5		3	-	200	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	B
		4	6.5-8.5	1000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	D

*CPCB-GEMS / MINARS Water quality criteria

DBU Class-Designated Best Use

B-Outdoor bathing (organised)

D-Propagation of wild life, fisheries

mg/L-milligram per liter

MPN-Most probable number

ANNEXURE-X-B

CAUVERY RIVER WATER QUALITY-(UNDER MINARS PROGRAMME)/2011-2012

S.NO	Name of stations	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27 C mg/L	Nitrate mg/L	Fecal coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class		
1	Pathira	7.79	8.10	244	1	0.28	95	204	4	3	77	26	16	2	0.78	73	14	9	6	28	161	143	8	<0.005	<0.002	2	0.28	B	
2	kailamman koil	7.83	8.00	179	1	0.26	93	199	4	0	60	19	17	2	0.75	64	14	7	6	15	125	105	8	<0.005	<0.002	2	0.2	B	
3	Sirumugai	6.18	7.85	273	1	0.17	144	293	3	2	102	27	17	2	0.62	93	21	9	9	21	183	167	5	<0.005	<0.002	3	0.2	B	
4	Bhavani sagar	5.73	8.26	309	1	0.18	153	307	3	3	127	28	17	3	0.87	118	26	12	8	27	208	192	8	<0.005	<0.002	3	0.26	B	
5	Bhavani	6.29	8.06	488	1	0.26	157	318	3	7	169	37	17	3	0.87	152	34	16	14	35	286	265	6	<0.005	<0.002	4	0.4	B	
6	R.N. Pudur	6.08	7.84	430	2	0.24	168	338	5	6	172	44	18	4	0.99	161	33	19	15	44	297	271	5	<0.005	<0.002	5	0.3	B	
7	Erode	6.87	7.95	458	1	0.19	152	298	3	6	172	47	16	3	0.78	154	31	18	18	48	299	280	4	<0.005	<0.002	5	0.3	B	
8	P. Velur	6.43	7.83	486	1	0.17	158	326	3	6	173	46	16	3	0.75	150	31	17	15	45	302	278	4	0.069	0.002	4	0.23	B	
9	Mohanur	7.83	8.00	179	1	0.26	93	199	4	0	60	19	17	2	0.75	64	14	7	6	15	125	105	8	<0.005	<0.002	2	0.2	B	
10	Madathukulam	6.41	8.12	562	1	0.17	154	313	3	12	202	83	27	3	0.85	207	40	26	22	70	424	383	6	<0.005	0.002	6	0.4	B	
11	Thirumukkudal	7.40	8.16	533	1	0.20	131	268	4	10	185	56	17	3	0.81	168	42	19	17	61	350	633	5	0.0453	<0.002	6	0.4	B	
12	Trichy U/S	6.15	8.02	716	1	0.17	188	368	4	11	234	91	17	3.3	1.03	243	46	31	39	81	465	436	8	0.110	<0.002	10	0.3	B	
13	Trichy D/S	6.26	8.02	734	1	0.23	176	328	4	10	246	92	19	3	0.94	406	49	31	43	81	480	454	5	0.112	<0.002	11	0.31	B	
14	Grand Anaicut	7.37	8.14	1083	1	0.21	144	298	5	7	180	237	17	3	0.87	219	35	31	30	148	664	638	8	<0.005	<0.002	13	0.40	E	
15	Coleroon	7.12	8.27	1034	1	0.17	148	278	6	10	182	216	16	4	1.08	213	35	30	30	148	634	602	10	<0.005	<0.002	14	0.4	E	
16	Pitchavaram	6.44	8.05	677	1	0.20	163	357	6	11	214	94	16	3	0.92	176	38	22	24	168	448	417	11	0.0765	<0.002	9	0.3	B	
	Karunthattankudi	5	6.5-8.5		3	-	200	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	B	
	*Tolerance Limit										600										2100								E

*CPCB-GEMS / MINARS Water quality criteria

DBU Class-Designated Best Use

B - Outdoor bathing (organised)

E-Irrigation, industrial, cooling, controlled waste disposal

mg/L-milligram per liter

MPN-Most probable number

ANNEXURE-X-C

CAUVERY RIVER WATER QUALITY-(UNDER MINARS PROGRAMME)2011-2012

S.NO	Name of stations	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27 C mg/L	Nitrate mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Komarapalayam	6.13	7.83	418	1 0.3	169	326	3	3	1 148	28	13	46	280	263	10	0.16	<0.002	5	0.33	B							
2	Urrachikottai	5.95	7.86	296	1 0.1	124	277	3	3	1 110	23	9	26	199	182	7	0.01	<0.002	3	0.29	B							
3	Vairapalayam	6.63	7.82	411	1 0.2	143	297	4	8	171	38	17	38	17	3	1 149	31	17	12	42	270	255	5	0.05	<0.002	4	0.32	B
4	Pugalur	6.94	8.06	602	1 0.2	173	337	4	10	220.33	94	16	3	1 230	47	23	30	82	394	442	5	0.01	<0.002	7	0.39	B		
5	Pettavaithalai	7.18	8.09	628	1 0.2	148	297	4	11	214	76	17	3	1 201	41	26	22	73	412	386	5	0.01	<0.002	7	0.34	B		
6	Kumbakonam	6.74	8.16	523	2 0.2	155	291	6	8	190	61	16	3	1 170	33	19	23	59	349	328	9	0.01	<0.002	9	0.33	B		
7	Mayilealur	6.15	8.02	671	2 0.2	150	296	5	9	198	75	17	3	1 174	32	25	16	65	371	349	8	0.01	<0.002	6	0.36	B		
8	Sathiyamanagalam	6.50	7.84	239	1 0.2	135	266	3	2	93	25	17	2	1 92	20	10	8	22	166	153	6	0.01	<0.002	3	0.20	B		
9	Kalingairayan Canal (B5)	5.56	7.96	445	1 0.3	154	298	4	6	176.66	40.58	19	3	1 180	39	19	19	38	297	272	9	0.01	<0.002	4	0.40	B		
10	Kalingairayan Canal (B10)	4.66	7.93	534	2 0.2	173	353	4	5	178	63	22	3	1 180	40	19	21	56	350	329	5	0.03	<0.002	6	0.28	C		
11	Thirumanimuthar	0.68	7.59	2314	36 2.3	109116	197617	20	16	633	395	160	51	14	494	69	78	66	322	1441	1398	32	4.55	0.059	53	0.47	Below E	
12	Vasista	0.66	7.30	1702	92 0.4	139908	235833	61	13	515	242	263	47	10	482	72	73	60	164	1112	1015	142	6.26	0.038	69	0.46	Below E	
13	Sarabanga	0.89	7.63	3363	44 0.4	201500	340250	37	24	627	697	245	54	14	594	119	72	83	433	2022	1993	104	4.52	0.049	71	0.37	Below E	
	*Tolerance Limit	5.0	6.5-8.5		3	200	500																					B
		4	6.0-9.0		3	50	2000	5000				600										1500						C

Below E-Not meeting A,B,C,D&E Criteria

mg/L-milligram per liter

MPN-Most probable number

*CPCB-GEMS / MINARS Water quality

DBU Class-Designated Best Use

B-Outdoor bathing (organised)

C-Drinking water source after conventional treatment and disinfection

ANNEXURE-XI

TAMIRAPARANI RIVER WATER QUALITY-(UNDER MINARS PROGRAMME)-2011-2012

S.NO	Name of stations	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27 C mg/L	Nitrate mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Papanasam	7.33	7.65	104	1	0.07	36	93	14	0	39	21	23	3.3	3	34	7	4	8	16	78	59	14	0.02	<0.002	1.67	0.04	B
2	Cheranmadevi	7.12	7.74	106	1	0.13	66	117	16	0	36	17	18	NA	1	31	8	2	8	11	58	36	15	0.04	<0.002	1.50	<0.1	B
3	Kokirakulam	6.41	7.75	141	2	0.15	176	350	19	0	50	22	27	NA	3	44	12	3	9	15	80	53	18	0.05	<0.002	2.00	<0.1	B
4	Murapanadu	6.84	7.45	361	2	0.13	75	160	17	0	70	67	22	NA	2	77	24	6	11	60	207	178	17	0.04	<0.002	4.09	1.00	B
5	Thiruvaidamarudur	6.98	7.43	88	1	0.10	52	112	14	0	27	15	14	NA	2	23	6	2	7	8.8	49	31	13	0.02	<0.002	1.33	<0.1	B
6	Ambasamudram	7.00	7.53	73	1	0.08	42	92	14	0	26	13	15	NA	2	24	6	2	7	6.5	47	30	13	0.02	<0.002	1.33	<0.1	B
7	Authoroor	7.01	7.55	1642	3	0.14	73	159	21	2	174	393	36	NA	4	279	90	25	21	352	945	902	27	0.06	<0.002	16.00	<0.1	B
8	Eral	6.93	7.22	365	2	0.13	66	130	15	0	113	26	20	NA	2	94	30	5	13	41	206	172	16	0.03	<0.002	4.58	<0.1	B
9	Kallidai Kurichi	7.44	7.59	87	1	0.09	41	94	13	0	28	15	15	NA	2	23	6	2	7	9	47	30	13	0.02	<0.002	1.42	<0.1	B
10	Srivaikuntam	6.80	7.02	264	1	0.13	76	151	13	0	80	21	23	NA	2	73	22	4	11	26	152	121	14	0.04	<0.002	3.67	<0.1	B
11	Vellakovil	6.27	7.69	179	2	0.21	122	273	22	0	55	25	17	NA	2	48	15	3	10	17	102	66	20	0.05	<0.002	2.25	<0.1	B
12	Sivalaperi	6.28	7.59	192	2	0.18	125	270	24	0	57	27	33	NA	2	53	16	3	11	17	110	74	22	0.05	<0.002	2.33	<0.1	B
	*Tolerance Limit	5	6.5-8.5		3	-	200	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	B

*CPCB-GEMS / MINARS Water quality criteria

DBU Class-Designated Best Use
B-Outdoor bathing (organised)

mg/L-milligram per liter
MPN-Most probable number

ANNEXURE-XII

PALAR & VAIGAI RIVER WATER QUALITY(UNDER MINARS PROGRAMME)2011-2012

S.NO	Name of stations	D.O mg/L	pH	Conductivity m mhos/cm	BOD at 27 C mg/L	Nitrate mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenophthaline Alkalinity mg/L	Total Alkalinity as CaCO3 mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N.as N mg/L	Hardness as CaCO3 mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Palar	6.18	7.50	759	1.83	0.18	811	2148	2	6	263	60	11	21	5	152	38	14	38	110	491	444	4	0.06	0.32	5	0.34	C
2	Vaigai	6.2	7.49	1178	7	1.15	2	7	4	<1	20	230	56	1.68	0	400	60	61	28	122	726	466	4	0.41	<0.002	12	0.64	C
*Tolerance Limit		4	6.0-9.0		3	50	2000	5000	-	-	-	600	-	-	-	-	-	-	-	400	1500	-	-	-	-	-	1.5	C

*CPCB-GEMS / MINARS Water quality criteria

DBU Class-Designated Best Use

C-Drinking water source after conventional treatment and disinfection

mg/L-milligram per liter

MPN-Most probable number

ANNEXURE-XIII

LAKE WATER QUALITY(UNDER MINARS PROGRAMME)2011-2012

S.NO	Name of stations	D.O mg/L	pH	Conductivity in mhos/cm	BOD at 27 C mg/L	Nitrate mg/L	Fecal coliform MPN/100 ml	Total coliform MPN/100 ml	Turbidity NTU	Phenolphthaleine Alkalinity mg/L	Total Alkalinity as CaCO ₃ mg/L	Chloride mg/L	COD mg/L	Total Kjeldahl Nitrogen mg/L	Ammonia-N,as N mg/L	Hardness as CaCO ₃ mg/L	Calcium as Ca++ mg/L	Magnesium as Mg++ mg/L	Sulphate mg/L	Sodium mg/L	Total Dissolved Solids mg/L	Total Fixed Solids mg/L	Total Suspended Solids mg/L	Phosphate mg/L	Boron mg/L	Potassium mg/L	Fluoride mg/L	DBU Class
1	Udhagaman dalam	4.63	7.46	407	11	0.43	5353	10322	12	0	102	48	46	5	1.2	113	33	7	14	36	244	228	14	0.02	0	12	0.29	E
2	Kodaikanal	6.36	6.51	102	9	0.20	6	12	7	0	29	22	55	5	0.1	27	6	3	10	8	61	27	27	0.01	0	3	0.18	C
3	Yercaud	6.42	7.90	265	3	0.3	439	733	32	2	89	37	27	3	1	88	25	6	6	27	182	171	127	0.01	0	8	2.59	C
4	Veeranam	7.13	7.87	500	2	0.2	131	270	6	7	148	65	16	3	1	145	24	20	22	61	328	303	5	0.06	0	5	0.26	B
5	Poondi	6.03	8.22	501	2	0.1	997	2424	2	5	148	68	11	41	6	95	23	9	37	70	341	309	4	0.07	0	6	0.33	C
6	Red Hills	6.16	8.14	498	2	0.2	1709	4744	2	2	119	65	9	23	4	91	25	7	33	58	322	283	4	0.05	0	5	0.25	C
7	Porur	6.30	8.36	472	3	0.2	1495	3725	3	4	112	84	16	23	4	83	21	10	18	57	306	277	7	0.03	0	9	0.43	C
8	Puliccate	5.71	8.07	39873	3	0.7	173	585	4	9	111	14670	40	29	5	4006	340	740	1948	7318	26911	24784	54	0.11	0	236	0.58	Below E
*Tolerance Limit		5	6.5-8.5		3	-	200	500	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	B
		4	6.0-9.0		3	50	2000	5000	-	-	-	600	-	-	-	-	-	-	-	400	-	1500	-	-	-	-	1.5	C
			-6.5-8.5	2250	-	-	-	-	-	-	-	600	-	-	-	-	-	-	-	1000	-	2100	-	-	2	-	-	E

*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

E-Irrigation,industrial,cooling,controlled waste disposal

Below E-Not meeting A,B,C,D&E Criteria

**ANNEXURE - XIV
MONITORING OF CHENNAI CITY WATERWAYS - 2011-2012**

SI.No.	Source	TSS mg/l	BOD mg/l	COD mg/l
1	Adyar	49	19	101
2	Buckingham Canal	158	55	308
3	Cooum	86	35	179
4	Otterinullah	99	44	229

ACCOUNTS

Kumbhat & CO.,
Chartered Accountants
Branches at
Bangaluru, Coimbatore & Hyderabad

**AUDITOR'S REPORT TO THE MEMBERS OF THE
TAMILNADU POLLUTION CONTROL BOARD
FOR THE YEAR ENDED 31st MARCH 2012**

We have audited the attached Balance Sheet of Tamil Nadu Pollution Control Board as at March 31, 2012 and also the Receipts and payments account and 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 and Income and Expenditure account which are set out as provided in Rule 36 of the Tamil Nadu 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 hereto subject to the following:

- a. *Refer point no II(e) of the notes to accounts with respect to Land advance of Rs.13.48 lakhs which is outstanding for a long time, recoverability of which is presently not ascertainable.*
- b. *Refer point no. II(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 7.32 lakhs is outstanding for more than one year and requires adjustment in the books of accounts.*
- c. *Refer point no II (g) of the notes to accounts with respect to non recoverability of cess amounting to Rs.485.41 crores due from industries and local bodies turn to be remitted to the Ministry of Environment Forest, Government of India.*
- d. *The Internal Audit System is not commensurate to the size of the entity and the nature of its operations.*

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, 2012,
- (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 2012 and
- (c) In the case of the Income and Expenditure account of the excess of Income over Expenditure for the year ended 31st March 2012.

Date: 27.12.2012
Place: Chennai

For Kumbhat & Co.
Chartered Accountants
FR No. 001609S
S.d/-
K.N Narayanan
Partner
M. No. 022965

TAMILNADU POLLUTION CONTROL

Receipts & Payments for the

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		
191053729.44	a. Bank	98870295.96	
770.00	b. Cash	700.00	
95512.00	c. Funds in Transit	10512.00	98881507.96
	B. GRANTS RECEIVED		
-	a. From Government	-	
-	b. From other Agencies	-	
200000.00	c. Schemes		0.00
	C. FEES		
-	a. Consultant Registration Fees	-	
744455.00	b. Cost of Application	551265.00	
766601805.25	c. Consent Fees	532060755.50	
72140001.00	d. Cess Collection	69158410.00	
	e. Fees for handling H. Waste	6550.00	601776980.50
	D. SERVICES & RENTAL CHARGES		
104678269.00	(Lab Analysis Charges Sch - A)		99207828.00
108179155.37	E. INTEREST ON INVESTMENT		414864324.00
	F. MISCELLANEOUS		
7218852.00	a. Others (Schedule-B)	3894428.30	
83598848.00	b. Cess Re-imbursement	59009989.00	62904417.30
1334511397.06	C/o		1277635057.76

BOARD, CHENNAI - 600 032

Year ended 31st March 2012.

(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				
		a. Assets - Land and Building	1085413.00			
3599693.00		b. Laboratory Equipment	4273836.00			
4021373.00		c. Vehicles	-			
613927.00		d. Furniture	490582.00			
1003319.00		e. Office Appliance	585213.00			
134424.00		f. Library Books	84444.00			
27235.00		g. Electrical Installation	-			
1429116.00		h. Computer	-		6519488.00	
		B. REVENUE EXPENDITURE				
		A. ADMINISTRATIVE				
250290641.00		a. Salaries	278205810.00			
71166501.00		b. Pension & Gratuity Contribution	58359950.00			
9401231.00		c. Surrender Leave Salary	11319653.00			
1630357.00		d. Bonus	1643409.00			
2027052.00		e. Medical Expenses	1904673.00		351433495.00	
		B. BOARD LABORATORY				
239786.00		a. Running Expenses of Lab.	163271.00			
1717487.00		b. Lab. Chemicals etc.,	2630277.00		2793548.00	
		C. RUNNING & MAINTENANCE OF VEHICLE			7586405.00	
7715445.00						
		D. SCHEME			199350.00	
150000.00						
355167587.00		C/o			368532286.00	

TAMILNADU POLLUTION CONTROL

Receipts & Payments for the

See Rules 36 of Tamil Nadu Water

PREVIOUS YEAR	RECEIPTS	TOTAL OF SUB HEAD	TOTAL OF MAJOR HEADS
Rs. Ps.		Rs. Ps.	Rs. Ps.
1334511397.06	B/F		1277635057.76
	G. DEPOSITS & ADVANCES		
851800.00	a. Earnest Money Deposit	1431200.00	
163055.00	b. Security Deposit	573899.00	
1541446.00	c. Advance to Staff (<i>Sch. - C</i>)	461660.00	
2177564818.00	d. Short Term Deposit	1941170138.00	
			1943636897.00
	H. OTHER ADVANCES & DEPOSITS (Schedule - D)		378493858.00
211796553.30			
-	I. WAYS & MEANS ADVANCE		775500000.00
3726429069.36	Total		4375265812.76

Chennai - 600 032

Date: 27/12/2012

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

S.d/-
S. Nazir Hussain BBA.,
Financial Adviser

S.d/-
Dr.S. Balaji M.E,(PH) Ph.d.,
Member Secretary

BOARD, CHENNAI - 600 032

Year ended 31st March 2012.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR	PAYMENTS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
		Rs.	Ps.	Rs.	Ps.
355167587.00	B/F			368532286.00	
	E. MAINTENANCE & REPAIRS				
6582951.00	a. Buildings	2962970.00			
96859.00	b. Furniture & Fixture	82219.00			
926237.00	c. Scientific instruments	879737.00			
1078851.00	d. Office Appliance	736840.00			
2523645.00	e. Electrical Installation	817422.00			
52497.00	f. Insurance of Assets	-			
249340.00	g. Other Assets	103137.00		5582325.00	
	F. FEES TO CONSULTANTS & SPECIALISTS			70581.00	
249177.00					
1667796.00	G. LAW CHARGES			826292.00	
3806.00	H. AUDIT FEES			2206.00	
59797666.40	I. MISCELLANEOUS (Schedule-E)			231957500.50	
81294394.00	C. CESS REMITANCE			81668175.00	
10413616.00	D. ADVANCE TO STAFF (Schedule - F)			9824448.00	
	E. WAYS & MEANS ADVANCE			25500000.00	
	F. DEPOSITS				
3105000000.00	a. Short Term Deposits	2717089829.00			
2443139.00	b. Others (Schedule - G)	757767193.00		3474857022.00	
	G. CLOSING BALANCE				
98870295.96	a. Bank	176244977.26			
700.00	b. Cash	-			
10512.00	c. Funds in Transit	200000.00		176444977.26	
3726429069.36	Total			4375265812.76	

Subject to our report of even date & Schedules + Notes attached
for Kumbhat & Co., FR.NO:001609S
Chartered Accountants

S.d/-

Dr.D.Karthikeyan IAS.,
Chairman

S.d/-

K.N. Narayanan [M.No.022965]
Partner

ANNUAL STATEMENT

Income & Expenditure Account

See Rules 36 of Tamil Nadu Water

PREVIOUS YEAR	EXPENDITURE		TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
	Rs.	Ps.	Rs.	Ps.	Rs.	Ps.
		A. Administrative				
151565009.00		a. Pay of officers and Pay of Establishment	157858195.00			
113245268.00		b. Allowance & Honoraria (Schedule-H)	135028007.00			
294914088.00		c. Contribution to Gratuity & Provision for Pension	179643373.00			
34162264.00		d. Surrender Leave Salary	36408185.00			508937760.00
1376216.32		B. Running Expenses of Labs.				2974145.48
7512764.00		C. Running and Maintenance of Vehicle (Schedule-I)				7754810.00
		D. Maintenance and Repairs				
101015.00		a. Furniture & Fixtures	28400.00			
1236233.00		b. Lab. Equipments & Instruments	471891.00			
1499505.00		c. Office Appliance & Others	1043842.00			
2343651.00		d. Electrical Installation	807196.00			
6428521.00		e. Building	2820495.00			5171824.00
328462.00		E. Fees to Consultants and Specialists				84732.00
1852492.00		F. Law Charges				1231550.00
57356.00		G. Fees for Audit				56180.00
54923438.77		H. Miscellaneous (Schedule-J)				226850314.50
14560733.00		I. Depreciation				13398355.00
7690002.56		J. Prior Period Adj.Account				1889812.00
913511539.10		K. Excess of income over Exp.trf to B/S				501839775.50
1607308557.75		Total				1270189258.48

Chennai - 600 032

Date: 27/12/2012

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

S.d/-
S. Nazir Hussain BBA.,
Financial Adviser

S.d/-
Dr.S. Balaji M.E.(PH) Ph.d.,
Member Secretary

OF ACCOUNT

Year ended 31st March 2012.

(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		-		-
1136566888.58		B. Fees (Schedule-K)				715219314.80
92580820.00		C. Services & Rental Charges (Schedule-L)				98972938.00
16784644.00		D. Miscellaneous Receipts				
83598848.00		a. Others (Schedule-M)	4322528.30			
		b. Cess Reimbursement	59009989.00			63332517.30
277560394.33		E. Interest on Investment				359953062.00
216962.84		F. Prior Period Adj.Account				32711426.38
1607308557.75		Total				1270189258.48

Subject to our report of even date & Schedules + Notes attached
for **Kumbhat & Co., FR.NO:001609S**
Chartered Accountants

S.d/-

Dr.D.Karthikeyan IAS.,
Chairman

S.d/-

K.N. Narayanan [M.No.022965]
Partner

ANNUAL STATEMENT

Balance Sheet as on

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				
2199789498.23		i. As at 01.04.11	3093478920.33			
913511539.10		ii. Add: Surplus during the year	501839775.50			
		iii. Less: Amount transferred to Depreciation Fund	3595318695.83			
(19822117.00)			15713297.00			3579605398.83
		B. EARMARKED FUND				
1025396304.00		a. Pension Fund (<i>Schedule-N</i>)	1210245390.00			
352176843.18		b. Depreciation Fund (<i>Sch-N</i>)	389020751.18			
104370222.00		c. E.L. encashment Fund (<i>Sch-N</i>)	133126168.00			
3363250.00		d. CETP Development Fund	3363250.00			1735755559.18
		C. OTHER DEPOSITS				
51273371.56		a. Deposits for supply & works (<i>Schedule -O</i>)	74639703.23			
32587126.05		b. Refundable P.G. Deposits	-			
3729000.00		c. Eco Devlpt. Measure Deposit	3729000.00			78368703.23
		D. AMOUNT DUE				
4326906324.88		a. Cess Payable	4785386504.02			
		Less: Cess unrecoverable	-			4785386504.02
23874994.00		b. Other Liability (<i>Schedule -P</i>)				22305829.00
9071683278.18		C/o				10255948916.44

OF ACCOUNT

31st March 2012.

(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	12149358.65			
50954336.00		b. Buildings Under Construction	52010909.00		64160267.65	
		B. OTHER ASSETS				
61768451.43		a. As per Form XV			57688070.43	
		b. Stock in hand				
1375802.12		i. Lab Chemicals	804333.90			
768105.39		ii. Glassware	726837.94			
195625.88		iii. Misc. Stores	106212.90			
1058309.12		iv. Filter Paper	1646079.29		3283464.03	
		C. SUNDRY DEBTORS				
		A. Cess Receivable				
3545294500.30		i. From Industries	3862777771.44			
780126556.80		ii. From Local Bodies	925232221.80			
			4788009993.24			
		Less: Cess unrecoverable		-	4788009993.24	
20000.00		b. Amount Receivable - PWD			20000.00	
7484077.00		c. Project Study - Receivable			7484077.00	
		D. Ways and Means Advance Receivable			75000000.00	
		D. ADVANCES & DEPOSITS				
		a. Misc. amounts recoverable (Schedule - R)				
548255571.15			418418307.15			
		B. Advance to Staffs (Schedule - S)				
15676655.00			17938434.00			
		c. Deposits (Schedule - T)				
2275480.00			2315854.00		438672595.15	
5023894558.84		C/o			6109318467.50	

ANNUAL STATEMENT

Balance Sheet as on

See Rules 36 of Tamil Nadu Water

PREVIOUS YEAR	LIABILITIES	TOTAL OF SUB HEAD	TOTAL OF MAJOR HEADS
Rs. Ps.		Rs. Ps.	Rs. Ps.
9071683278.18	B/f		10255948916.44
264956.98	E. ENVIRONMENTAL IMPACT STUDY		264956.98
199510609.30	F. INCOME RECEIVED IN ADVANCE (Schedule - Q)		363689109.00
21498500.00	G. SUBSIDIES FOR COMMON EFFLUENT TREATMENT PLANTS		21498500.00
1189893.34	H. ENVIRONMENTAL EDUCATION FUND RESERVE		1189893.34
500000.00	I. EMERGENCY RESPONSE CENTRE		500000.00
692000.00	J. C P C B GREEN BELT		692000.00
1930077.00	K. SCHEMES		1930077.00
1074250.00	L. SPONSORSHIP FOR SCHEMES		924250.00
-	M. WAYS AND MEANS ADVANCE PAYABLE		750000000.00
9298343564.80	Total		11396637702.76

Chennai - 600 032

Date: 27 /12/2012

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

S.d/-
S. Nazir Hussain BBA.,
Financial Adviser

S.d/-
Dr.S. Balaji M.E,(PH) Ph.d.,
Member Secretary

OF ACCOUNT

31st March 2012.

(Prevention and control of Pollution) rules 1983.

PREVIOUS YEAR	ASSETS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEADS	
		Rs.	Ps.	Rs.	Ps.
5023894558.84	B/f			6109318467.50	
	E. INVESTMENTS				
1025396304.00	1. Pension Fund Investment	1210245390.00			
352176843.18	2. Depreciation Fund Investment	389020751.18			
32587126.05	3. Refundable Performance - Guarantee Deposit Investment	-			
104370222.00	4. EL Encashment Fund Inv.	133126168.00			
3363250.00	5. CETP Develop. Fund Investment	3363250.00			
2657673752.77	6. Other term deposits	3375118698.82		5110874258.00	
	F. CASH & BANK BALANCE				
98870295.96	a. Balance with Banks	176244977.26			
700.00	b. Cash in Hand	-			
10512.00	c. Funds under Transit	200000.00		176444977.26	
9298343564.80	Total			11396637702.76	

Subject to our report of even date & Schedules + Notes attached
for **Kumbhat & Co., FR.NO:001609S**
Chartered Accountants

S.d/-

Dr.D.Karthikeyan IAS.,
Chairman

S.d/-

K.N. Narayanan [M.No.022965]
Partner

FORM - XV

ANNUAL STATEMENT OF ACCOUNTS - FIXED ASSETS AS ON 31st MARCH 2012.

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 01/04/2011	Additions and Adjustment during the year	Total	Depreciation	Closing Balance on 31/03/2012	
							Rs.	P.
1	Building	10.00%	23786589.20	0.00	23786589.20	2378659.00	Rs.	Rs.
2	Computer	60.00%	1471915.13	2691036.00	4162951.13	3002560.00	1160391.13	20271431.87
3	Electrical Installations	15.00%	3799903.68	23707.00	3823610.68	573774.00	3249836.68	3788240.43
4	Furniture & Fixture	10.00%	5736636.31	546346.00	6282982.31	619875.00	5663107.31	13844850.92
5	Lab Equipment	33.33%	7013118.65	5448716.00	12461834.65	4070473.00	8391361.65	78051002.99
6	Library Books	10.00%	1710478.93	122121.00	1832599.93	180682.00	1651917.93	3857287.10
7	Office Appliance	10.00%	6818333.08	620025.00	7438358.08	711665.00	6726693.08	10159001.06
8	Vehicle	33.33%	11431476.45	2180965.00	13612441.45	4175609.00	9436832.45	33666979.68
	Total		61768451.43	11632916.00	73401367.43	15713297.00	57688070.43	251122868.45

Chennai - 600 032

Date: /12/2012

for Kumbhat & Co., FR.NO:001609S
Chartered Accountants

S.d/-

S.d/-

S.d/-

S.d/-

S.d/-

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

S. Nazir Hussain BBA.,
Financial Adviser

Dr.S. Balaji M.E.(PH) Ph.d.,
Member Secretary

Dr.D.Karthikeyan IAS.,
Chairman

K.N. Narayanan [M.No.022965]
Partner

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2012**

RECEIPTS

**SCHEDULE - A
SERVICES & RENTAL CHARGES**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Air Ambient Quality Survey	58435052.00	
2	Analysis Charges	37874292.00	
3	Bio Medical Management	1010180.00	
4	Cess Appeal Fees	2050.00	
5	GEMS / MINARS / NAMP	1670555.00	
6	Noise Leavel Measurement	215699.00	
	TOTAL	99207828.00	

SCHEDULE - B

MISCELLANEOUS RECEIPTS - OTHERS

SL.NO	DESCRIPTION	Rs.	Ps.
1	Environment Training Institute	840000.00	
2	Interest on Loans & Advance	64853.00	
3	Miscellaneous Income	244696.30	
4	Others	35901.00	
5	Profit on sale of Assets	1707209.00	
6	Prior period Adustment account	703475.00	
7	Public Hearing	233336.00	
8	Right to Information Fees	35318.00	
9	Sale of legal Books	29640.00	
	TOTAL	3894428.30	

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2012**

RECEIPTS

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

SL.NO	DESCRIPTION	Rs.	Ps.
1	Computer Advance		33475.00
2	Festival Advance		2200.00
3	Leave Travel Concession		1295.00
4	Others		6535.00
5	Temporary Advance		265422.00
6	Tour Advance		82463.00
7	Vehicle Advance		70270.00
	TOTAL		461660.00

SCHEDULE - D

OTHER ADVANCES AND DEPOSITS

SL.NO	DESCRIPTION	Rs.	Ps.
1	Cess received in advance		15721492.00
2	Consent Fees received in advance		338140558.00
3	Deposits		15545.00
4	Others - Court Deposit		24616263.00
	TOTAL		378493858.00

**SCHEDULE FORMING PART OF RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2012.**

PAYMENT

**SCHEDULE - E
MISCELLANEOUS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	AAQS Expenses		10483.00
2	Advertisement & Publicity		562713.00
3	Appellate Authority Expenses		306688.00
4	Bank interest and commission		82501.00
5	Board Meeting Expenses		837104.00
6	Contract Charges / Wages		17222376.50
7	Conveyance		700702.00
8	Electricity / Water Charges		7158365.00
9	Entertainment		41524.00
10	Environmental Pavilion Expenses		117384.00
11	Environmental Study Expenses		370405.00
12	ETI Expenses		235151.00
13	Family Benefit Fund		13520.00
14	Land Maintenance Expenses		33807.00
15	Leave Travel Concession		82534.00
16	Miscellaneous Expenses		278820.00
17	Newspaper & periodicals		224994.00
18	Office Expenses		863130.00
19	Outstanding Expenses		4715284.00
20	Petty Cash Expenses		464146.00
21	Pollution Awareness Expenses		178844259.00
22	Postage / Telegram		1262747.00
23	Printing and Stationery		3158558.00
24	Prior Period Expenses		193229.00
25	Property tax		784090.00
26	Rent		3840826.00
27	Staff Welfare Expenses		2679007.00
28	State Environmental Impact Authority Exp.		48547.00
29	Telephone and Telex		2521839.00
30	Trade Fair		768028.00
31	Training and Seminar		389146.00
32	Travelling expenses		2907681.00
33	Turn duty and Overtime Allow.		237912.00
	TOTAL		231957500.50

**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	754600.00	
2	Handloom Advance	256445.00	
3	Leave Travel Concession	40600.00	
4	Motor Vehicle Advance	5422310.00	
5	Other Advance	4200.00	
6	Personal Computer Advance	447375.00	
7	Temporary Advance	2603383.00	
8	Tour Advance	295535.00	
	TOTAL	9824448.00	

SCHEDULE - G

DEPOSITS AND ADVANCES (PAID - OTHERS)

SL.NO	DESCRIPTION	Rs.	Ps.
1	Advance to Suppliers	6028378.00	
2	Earnest Money Deposit	975700.00	
3	Other Advance/Deposit	355362.00	
4	Rent Advance	172000.00	
5	Retention Money Deposit	138863.00	
6	Security Deposit	96890.00	
7	Noyal River Ayacutdars Protection Assn.	750000000.00	
	TOTAL	757767193.00	

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH - 2012.**

EXPENDITURE

**SCHEDULE - H
ALLOWANCES AND HONORARIA**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Allowances	109038353.00	
2	Bonus	1643409.00	
3	Contributory Pension Scheme	1002169.00	
4	Employee's Provident Fund for Deputationist	24920.00	
5	Health Insurance / Family benefit fund exp.	165744.00	
6	Leave Travel Concession Expenses	124939.00	
7	Medical Reimbursement	1955292.00	
8	Pay Commision Arrears	17723208.00	
9	Special Provident Fund-Board's Contribution	90000.00	
10	Travelling Expenses	3181714.00	
11	Turn Duty and Overtime Allowances	78259.00	
	TOTAL	135028007.00	

SCHEDULE - I

RUNNING AND MAINTENANCE OF VEHICLES

SL.NO	DESCRIPTION	Rs.	Ps.
1	Fuel	5375153.00	
2	Hire Charges	367640.00	
3	Insurance	582442.00	
4	Repairs	1429575.00	
	TOTAL	7754810.00	

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2012.**

EXPENDITURE

**SCHEDULE - J
MISCELLANEOUS**

SL.NO	DESCRIPTION	Rs.	Ps.
1	Air Ambient Quality Survey Expenses		386439.00
2	Advertisement & Publicity		101155.00
3	Appellate Authority Expenses		590351.00
4	Bank Charges		38683.50
5	Board Meeting / Other meeting Expenses		1156972.00
6	Contract Charges / Wages		17045728.00
7	Conveyance Expenses		771221.00
8	D.E.E. - Legal sample Expenses		8500.00
9	Electricity & Water Charges		8207922.00
10	Entertainment Expenses		62247.00
11	Environmental Pavilion Expenses		109215.00
12	Environmental Study Expenses		382900.00
13	Environmental Training Institute Expenses		295935.00
14	Expenses of audit		18395.00
15	Insurance of Assets		47493.00
16	Land Maintenance Expenses		33426.00
17	Newspaper and Periodicals		266773.00
18	Office Expenses		1444578.00
19	Pollution Awareness Expenses		179494948.00
20	Postage Expenses		1306356.00
21	Printing & Stationery		3223209.00
22	Property Tax and Rates		784090.00
23	Public hearing expenses		244750.00
24	Rent on Buildings		4019608.00
25	Staff Welfare Expenses		2594479.00
26	State Environmental Impact Authority Exp.		79747.00
27	Sundries		295785.00
28	Telephone Expenses		2522061.00
29	Trade Fair Expenses		865692.00
30	Training and Seminar Expenses		451656.00
	TOTAL		226850314.50

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED ON 31st MARCH 2012.**

INCOME

SCHEDULE - K

FEEES

SL.NO	DESCRIPTION	Rs.	Ps.
1	Consent Fees	714624249.80	
2	Consent Forms		595065.00
	TOTAL	715219314.80	

SCHEDULE - L

SEVICES AND RENTAL CHARGES

SL.NO	DESCRIPTION	Rs.	Ps.
1	Air Ambient Quality Survey	58594385.00	
2	Analysis Charges	38457299.00	
3	NAAQM / NAMP / GEMS	1705555.00	
4	Noise level survey fees	215699.00	
	TOTAL	98972938.00	

SCHEDULE - M

MISCELLANEOUS

SL.NO	DESCRIPTION	Rs.	Ps.
1	Bio-Medical Waste Authorisation Fees	949450.00	
2	Cess Appeal Fees	2050.00	
3	Environmental Training Inst. - Course fees	840000.00	
4	Fees for Right to Information	36465.00	
5	Hazardous Waste Authorisation Fees	19000.00	
6	Interest on Loans & Advance	394335.00	
7	Miscellaneous Income	339284.30	
8	Profit on sale of assets	1707209.00	
9	Sale of Books	34735.00	
	TOTAL	4322528.30	

SCHEDULE FORMING PART OF BALANCE SHEET

AS ON 31st MARCH 2012.

LIABILITIES

SCHEDULE-N

EARMARKED FUND

PENSION FUND ACCOUNT

SL.NO	DESCRIPTION		AMOUNT
1	Opening balance as on 01-04-11		1025396304.00
	Add: Interest @ 6%		61523778.00
			1086920082.00
	Less: Disbursement from fund		
	a) Pension disbursed by Corp. Office	15444059.00	
	b) Pension disbursed by Units	6135002.00	
			21579061.00
	Add: Contribution to the Fund		1065341021.00
	Closing balance as on 31-03-12		144904369.00
			1210245390.00

EARN LEAVE ENCASHMENT FUND

SL.NO	DESCRIPTION		AMOUNT
2	Opening balance as on 01-04-11		104370222.00
	Add: Interest @ 6%		6262213.00
			110632435.00
	Less: Disbursement from fund		
	a) Disbursement to retirees-Board	3793655.00	
	b) Disbursement to retirees-Units	1245104.00	
			5038759.00
	Add: Contribution to the Fund		105593676.00
	Closing balance as on 31-03-12		27532492.00
			133126168.00

DEPRECIATION FUND ACCOUNT

SL.NO	DESCRIPTION		AMOUNT
3	Opening balance as on 01-04-11		352176843.18
	Add: Interest @ 6%		21130611.00
			373307454.18
	Add: Current year's Depreciation		15713297.00
	Closing balance as on 31-03-12		389020751.18

**SCHEDULE FORMING PART OF BALANCE SHEET
AS ON 31st MARCH 2012.**

LIABILITIES

SCHEDULE - O

OTHER DEPOSITS

SL.NO	DESCRIPTION	Rs.	Ps.
1	Earnest Money Deposit	1640700.00	
2	Deposit- Court	71093117.23	
3	Miscellaneous Deposits	158394.00	
4	Retention Money Deposits	477030.00	
5	Security Deposits	1270462.00	
	TOTAL	74639703.23	

SCHEDULE - P

OTHER LIABILITIES

SL.NO	DESCRIPTION	Rs.	Ps.
1	Others	132420.00	
2	Outstanding Liability	18585886.00	
3	Pay Roll Liabilities	3278393.00	
4	Staff Claim Payable	195935.00	
5	Tax Deducted at Source (Officers)	107661.00	
6	Tax Deducted at Source (Others)	5534.00	
	TOTAL	22305829.00	

SCHEDULE - Q

INCOME RECEIVED IN ADVANCE

SL.NO	DESCRIPTION	Rs.	Ps.
1	Cess Fees	16164647.00	
2	Consent Fees	347524462.00	
	TOTAL	363689109.00	

**SCHEDULE FORMING PART OF BALANCE SHEET
AS ON 31st MARCH 2012.**

ASSETS

SCHEDULE - R

MISCELLANEOUS ADVANCES

SL.NO	DESCRIPTION	Rs.	Ps.
1	Advance to Suppliers	5524888.00	
2	Interest Receivable	410108646.00	
3	Land Advance	1348501.00	
4	Other Advance (Imprest)	5000.00	
5	Rent Advance	1431272.15	
	TOTAL	418418307.15	

SCHEDULE - S

ADVANCES TO STAFF

SL.NO	DESCRIPTION	Rs.	Ps.
1	Festival Advance	469300.00	
2	Handloom Advance	141270.00	
3	Marriage Advance	24345.00	
4	Motor Vehicle Advance	9552409.00	
5	Other Advance (Cellphone Advance)	400.00	
6	Personal Computer Advance	6975163.00	
7	Temporary Advance	699757.00	
8	Tour Advance	75790.00	
	TOTAL	17938434.00	

SCHEDULE - T

DEPOSITS

SL.NO	DESCRIPTION	Rs.	Ps.
1	Customs Deposit	251973.00	
2	Electricity Deposit	986608.00	
3	Gas Deposit (Miscellaneous deposit)	42726.00	
4	Telephone & Telex Deposit	1034547.00	
	TOTAL	2315854.00	

Notes Forming Part of the Accounts for the year ended 31st March 2012.

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. The Consent Fees Advance has not been segregated year wise.

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.

(vi) 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%.

(vii) 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.

(viii) 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.

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

II Notes on Accounts:

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's Internal Audit System needs to be strengthened and internal audit conducted regularly.

d) Fixed Assets:

The fixed assets have been physically verified by independent Officers of the Board. The Fixed Assets are not numbered.

e) Land Advances:

This represents amount paid towards the land cost to SIPCOT amounting to Rs.13,48,501/- which is yet to be capitalized pending registration.

f) Advance to suppliers:

Rs7,32,599/- has been paid as Advance to Suppliers for purchase of assets and other expenditure and is pending adjustment for more than one year.

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

	Rs.
i) Ennore Thermal Power Station.	101,80,59,986.16
ii) North Chennai Thermal Power Station	132,10,47,006.24
iii) Tuticorin Thermal Power Station	161,73,19,843.00
iv) Local bodies	89,76,62,059.80

h) 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.

h) Project Study Receivable:

Rs.74,84,077/- has been paid to various agencies for conducting studies on environment issues. These sums were proposed to be collected from the industries to which the issues related to. However these sums remain to be collected till date.

i) Pension Fund

The assumptions for valuation are as under:

Date of Valuation	31-03-2012
Employee Profile	
Age of Retirement	58 / 60 years
No. of Employees	701
Total monthly relevant salary for pension	2,40,64,165/-
No. of pensioners	77
Total monthly pension	11,60,536/-
No. of family pensioners	39
Total monthly family pension	3,96,944/-
Assumptions as per AS 15R	
Discount rates as per Para 78	8.60%
Salary escalation fixed as per Para 83-91 and 120(1)	4.00%
Pension Escalation Rate (DA Increase)	7.00%
Attrition rate fixed	1.00%
Funding mechanism	Earmarked deposits
Present value of obligation	120,02,45,390/-

j) **Earn Leave Encashment Fund:**

The assumptions for valuation are as under:

Date of Valuation	31-03-2012
Employee Profile	
Age of Retirement	58 / 60 years
No. of Employees	701
Total monthly relevant salary for leave encashment	2,40,64,165/-
Average Age	49.50
Average past service	19.70
No. of leave days (EL)	1,68,240
Decrement adjusted /estimated future service	9.00
Assumptions as per AS 15R	
Discount rates as per Para 78	8.60%
Expected rate of return computer 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	13,31,26,168/-

k) **Contingent Liability:**

1. Claim towards professional charges of Rs.6,00,000/- which is disputed by the Board and hence not provided for.
2. A sum of Rs. 2,30,62,500/- as quarterly interest is payable on 31.03.2012 as per G.O. (Ms).No. 209 Environment and Forests (EC-1) Department dated 31.12.2011. The Board has written to the Government for waiver of interest @ 12.00 % & penal interest @ 2.50%. The reply from the government is awaited hence the Board has not provided for the interest.

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

III. Events occurring after the date of Balance Sheet:

1. Certain credit balances lapsed and credited to Board's revenue:

The Accountant General (E&RS) Chennai conducted the Transaction Audit of the Board for the period from 2005-06 to 2010-11 between 19.03.12 and 30.03.12. On conclusion of the audit in their Report in the Summary of Objections dated 27-4-2012 & 25-06-2012 it has been suggested that deposit unclaimed for more than 3 years should be lapsed the same may be credited to Board's revenue. Accordingly, based on the suggestion by the AG the amounts lying unclaimed up to 31.03.2008 in the Earnest Money Deposit (Rs.6.90 lakhs), Security Deposit (Rs.7.35 lakhs), Retention Money Deposit (Rs.3.83 lakhs), Enlistment Money Deposit (Rs.2.19 lakhs) and Refundable Performance Guarantee Deposit (Rs.325.87 lakhs) has been credited to Prior Period Adjustment Account in Accounts of 2011-12

2. Provision for Cess doubtful of recovery:

No provision is made for cess receivable which is doubtful of recovery from certain industries based on the directions of the Accountant General (E&RS) during transaction Audit conducted for the period 2006-07 to 2010-11. Also as directed by the AG the Cess written off amounting to Rs.3471.20 lakhs for the period 2006-07 to 2009-10 has been re-instated in Accounts of 2011-12.

3. Position on balance outstanding in Ways & Means advance Payable / Receivable:

The sum of Rs. 75.00 crores was received on 31.12.2011 and was disbursed to Noyyal River Acyacutdars Protection Association (NRAPA) Account on 23.01.2012. As per the terms and conditions of the G.O the Board remitted Rs.15.00 crores to the Govt., as part refund on 22.10.2012. On 01.11.2012 the Hon'ble High Court of Madras quashed the G.O. (Ms).No. 209 Environment and Forests (EC-1) Department dated 31.12.2011 and directed the beneficiaries to refund the sum. Consequent to this the balance sum of Rs.50.90 crores in the Account of NRAPA was remitted to Board and the Board in turn remitted the sum to Govt., on 28.11.2012. A balance of Rs.24.10 crores is due from NRAPA of which Rs.15.00 crores is due to the Board against the sum remitted to the Govt., and the balance of Rs.9.10 crores is due to the Govt.

Place: Chennai
Date: 27.12.2012

for Kumbhat & Co.,
Chartered Accountants
FR.NO:001609S

S.d/-
(K.N.NARAYANAN)
Partner
Membership No. 022965



தமிழ்நாடு மாசு கட்டுப்பாடு வாரியம்

TAMILNADU POLLUTION CONTROL BOARD

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