

தமிழ்நாடு

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கட்டுப்பாடு

வாரியம்

**TAMILNADU
POLLUTION
CONTROL
BOARD**

15

ஆண்டு அறிக்கை

ANNUAL REPORT

1997 - 98

ஆண்டுக் கணக்குகள்

ANNUAL ACCOUNTS

1997 - 1998





**ANNUAL REPORT AND ACCOUNTS
1997-1998**

**TAMILNADU POLLUTION CONTROL BOARD
CHENNAI – 600 032.**

TAMIL NADU POLLUTION CONTROL BOARD

ANNUAL REPORT
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TAMIL NADU POLLUTION CONTROL BOARD

**100, ANNA SALAI,
GUINDY, CHENNAI 600 032.**

ANNUAL REPORT - 1997-98

CHAPTER-I

1.1 INTRODUCTION:

Rapid industrialisation and increasing influence of developed countries have made the legislators, regulators and common people in India aware of the environmental impacts of industrialisation. Environmental legislation and regulatory systems have been established for the purpose of achieving sustainable industrial progress within the country. The Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981 followed by the Environment (Protection) Act, 1986 are the principal environmental regulations in the country which ensure that ecological balance is maintained with industrial progress.

The Water (Prevention and Control of Pollution) Act, 1974 (Central Act 6 of 1974) was adopted in Tamil Nadu in August 1981. The Government of Tamil Nadu constituted the Tamil Nadu Prevention and Control of Water Pollution Board on 27.02.82. This was later renamed as Tamil Nadu Pollution Control Board. The Air (Prevention and Control of Pollution) Act, 1981 came into force on 16.05.1981.

1.2 FUNCTIONS

The main functions of the TNPC Board are as follows:

- * To plan a comprehensive programme for the prevention, control and abatement of water and air pollution.
- * To encourage, conduct and participate in investigations and research relating to problems of water, land and air pollution and its prevention, control and abatement there of.
- * To inspect sewage and trade effluent treatment plants for their effectiveness and review plans, specifications for corrective measures.
- * To lay down, modify or annul effluent standards for the sewage/trade effluents and for the emissions of air pollutants into the atmosphere from the industrial plants and automobiles and for the discharge of any air pollutant into the atmosphere from any other source.

- * To evolve efficient methods of disposal of sewage and trade effluent on land.
- * To identify sites for the storage and disposal of hazardous wastes.
- * To identify and monitor the isolated storage of hazardous chemicals.
- * To collect samples of sewage/trade effluents and emissions of air pollutants and to analyse the same for specific parameters.
- * To perform such other functions as may be prescribed by the State Government or Central Pollution Control Board.

1.2 FUNCTIONS

The main functions of the TNPB Board are as follows:

- * To plan a comprehensive programme for the prevention, control and abatement of water and air pollution.
- * To encourage, conduct and participate in investigations and research relating to problems of water, land and air pollution and its prevention, control and abatement, there of.
- * To inspect sewage and trade effluent treatment plants for their effectiveness and review plans, specifications for corrective measures.
- * To lay down, modify or amend effluent standards for the sewage trade effluents and for the emissions of air pollutants into the atmosphere from the factories, plants and automobiles and for the discharge of any air pollutants into the atmosphere from any other source.

CHAPTER - II

2.1 COMPOSITION OF THE BOARD

The Board has been constituted by the State Government. It comprises of Chairman, five Officials nominated by the State Government, five persons to represent local authorities, three non-officials to represent the interests of agriculture, fishery or industry or trade, two persons to represent the companies or corporations owned by the State Government and a full time Member Secretary. The composition of the Board may be seen at Annexure - 1

2.2 ORGANISATIONAL SET UP

In the field Five Regional offices, Eighteen District Environmental Engineer's Offices and two Assistant Environmental Engineer's Offices are functioning for the effective monitoring of industries and enforcement of the provisions of the Acts. The Board has delegated powers to Chairman to grant consent to all "Green Site" applications received from new industries. The Joint Chief Environmental Engineers in the Region are empowered to grant consent to existing Orange and green category industries. The Board has delegated powers to Joint Chief Environmental Engineers in the Region for the renewal of Consent in the case of Red category small scale industries and Orange and Green Category industries.

To assist the Board in monitoring the industries, three Advanced Environmental Laboratories, six District Environmental Laboratories and three Mobile Environmental Laboratories are functioning. These laboratories carry out analysis of samples of sewage/trade effluents and emissions and hazardous wastes.

The total number of employees in the Board as on 31.03.98 is 696.

The Organisation Chart of the Board and the staff strength are furnished in Annexures II & III. The yearwise growth of the Board is shown in Annexure IV.

CHAPTER - III

PRESENT STATE OF ENVIRONMENTAL PROBLEMS AND COUNTER MEASURES.

General

To mitigate the pollution problems various environmental legislations have been passed and the same are given below in chronological order.

LEGISLATIONS:

1. The Water (Prevention and Control of Pollution) Act, 1974 as amended in 1978 and in 1988.
2. The Tamil Nadu Water (Prevention and Control of Pollution) Rules, 1983.
3. The Water (Prevention and Control of Pollution) Cess Act, 1977, as amended in 1991.
4. The Water (Prevention and Control of Pollution) Cess Rules, 1978 as amended in 1992.
5. The Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987.
6. The Air (Prevention and Control of Pollution) Rules, 1983
7. The Environment (Protection) Act, 1986
8. The Environment (Protection) Rules, 1986 and its subsequent amendments.
9. The Public Liability Insurance Act, 1991
10. The Public Liability Insurance Rules, 1991

NOTIFICATION

1. The Hazardous Wastes (Management and Handling) Rules, 1989
2. Manufacture, Storage and Import of Hazardous Chemical Rules , 1989
3. The Environment Impact Assessment Notification, 1994 as amended.

The field Officers of the Board inspect the industries under their jurisdiction to assess the adequacy of the treatment measures provided by the industries to treat the sewage/trade effluents and gaseous emissions periodically. They also investigate

complaints of pollution received from the public, organisations and Government. Depending upon the category viz, Red, Orange and Green, the industries are monitored periodically as mentioned below.

Red Category

Large : Once in a month
Medium : Once in two months
Small : Once in 3-4 months

Orange Category

Large : Once in two months
Medium : Once in three months
Small : Once in 4-6 months

Green Category

Large : Once in 3 months
Medium : Once in 6 months
Small : Once in a year

3.1.The Board issues consent in two stages.

- a. Consent to establish:** This is issued depending upon the suitability of the site before the industry takes up building construction.
- b. Consent to Operate:** This is issued after the installation of the Effluent Treatment Plant and Air Pollution Control Measures to the satisfaction of the Board.

3.2.WATER POLLUTION CONTROL:

Tamil Nadu Pollution Control Board enforces the provisions of the Water (Prevention and Control of Pollution) Act, 1974 as amended in 1978 and 1988. The main purpose of this Act is to prevent and control water pollution and to preserve or maintain or restore the quality of water. As per the provisions of the Water Act the local bodies, agencies and industries which discharge sewage /trade effluent are required to apply and obtain the consent from the Board. All the industries generating trade effluent

have to provide effluent treatment plant to treat the 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 1997-98, 17,136 samples of sewage/trade effluent from the industries were collected and analysed.

During the year 1997-98 the Board has issued 604 Consent to establish order and 540 Consent orders under the Water (Prevention and Control of Pollution) Act, 1974 as amended . Details of yearwise issue of consent is shown in Annexure - V.

3.3.AIR POLLUTION CONTROL:

Tamil Nadu Pollution Control Board enforces the provisions of the Air (Prevention and Control of Pollution) Act, 1981 as amended in 1987. The main purpose of this Act is to prevent and control air pollution and preserve the air quality. As per the provisions of the Air Act, the entire State of Tamil Nadu has been declared as 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. Industries which have not installed any air pollution control measures are persuaded to provide suitable air pollution control measures within a time frame. Ambient Air Quality survey is conducted in and around the industries regularly. Stack emission survey is also conducted 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 1997-98, Ambient Air Quality Surveys have been Conducted in 590 industries.

The Board has issued 587 Consent to establish order & 537 consent orders under the Air (Prevention and Control of Pollution) Act, 1981 as amended during the year 1997-98. Details of yearwise issue of consent is shown in Annexure - VI.

3.4.COMMON EFFLUENT TREATMENT PLANTS

3.4.1. The untreated or partially treated effluents from the Tanneries and Textile Bleaching and Dyeing units in Tamil Nadu were discharged into open lands and into the water sources causing serious environmental problems thereby affecting the soil and ground

water as well as surface water. While the large and medium scale tanneries put up individual Effluent Treatment Plant, SSI units often expressed financial difficulties and lack of space and other constraints to put up the required Effluent Treatment Plant. Since a large number of these units are in clusters and also in the Small Scale Sector, the Board has launched a massive programme of setting up Common Effluent Treatment Plants on the principle of 'Polluter Pays' by which beneficiary units themselves have to accept the full responsibility for setting up, operate and maintain the treatment facilities. Tamil Nadu Pollution Control Board assists the units in mobilisation of financial resources, acquisition of land and in the technical scrutiny of the proposals for the Common Effluent Treatment Plants.

3.4.2.FINANCIAL PATTERN OF CETP SCHEMES

- a. Subsidy by Central Government : 25% of the project cost.
- b. Subsidy by State Government : 25% of the project cost.
- c. Beneficiary's Contributions : 20% of the project cost by way of share capital collections.
- d. Financial Institution Loans : Balance by way of loans from the Financial Institutions such as IDBI. (30% of project cost)

3.4.3.STATUS OF COMMON EFFLUENT TREATMENT PLANT:

The Common Effluent Treatment Plants are proposed in the following sectors:

Tanneries	:	27
Textile Bleaching & Dyeing Units	:	27
Hotels & Lodges	:	1
Common Incinerator for Hospital Wastes	:	1

The details of Common Effluent Treatment Plant Schemes and the funds so far received for the schemes from the State and Central Government are furnished in the Annexures VII and VIII.

During the year 1997-98, the Common Effluent Treatment Plant Scheme for the Bleaching and Dyeing units at Ayyampettai-Muthialpettai in Kancheepuram District has been commissioned. So far 11 CETP schemes for the Tanneries have been commissioned in State of Tamil Nadu (ie) Pammal, SIDCO Ranipet, Melvisharam, Madhavaram, Ramji Nagar, Ambur (Thuthipet), Ranipet, Pernambut (Bakkalapalli), Vaniyambadi, Udayenthiram and Dindigul and one Common Incinerator for the Hospital wastes at Salem has also been commissioned. Works on eight CETP schemes at Karur, eight CETP schemes at Tiruppur, two CETP schemes in Vellore District, two CETP schemes in Trichy District and one CETP scheme at Kodaikkanal are under progress.

3.5.MANAGEMENT OF HAZARDOUS WASTES AND HAZARDOUS CHEMICALS

The GOI, MOEF have enacted the following rules under the Environment (Protection) Act, 1986 for the management of Hazardous Substances.

1. Hazardous Wastes (Management & Handling) Rules, 1989 :
 - The main aim is controlling the generation, collection, treatment, transportation and disposal of Hazardous wastes.
2. Manufacture, Storage and Import of Hazardous Chemicals Rules (MSIHC Rules), 1989.
 - The main objective is to prevent the occurrence of major accidents during industrial activities.

As per the above rules all the generators or receivers of hazardous wastes for the purpose of collection, reception, treatment, transport, storage and disposal of hazardous wastes will have to obtain the authorisation of the Board. So far 1020 applications in Form I, seeking the authorisation for handling hazardous wastes have been received and 1002 authorisations have been issued.

The Board is taking effective steps for the safe disposal of hazardous wastes. As a first step, the Board has identified candidate sites in 9 Districts in the State for the disposal of hazardous wastes and taken up measures to put up a Common Hazardous

Waste Disposal site in an extent of 50 acres at Mannelure village in Tiruvallur District and 89.54 acres at Siruseri village in Kancheepuram District for the treatment and safe disposal of hazardous wastes generated from the industries in Manali and Ennore area and Chennai and Kancheepuram Districts respectively. To assess the suitability of the site, National Environmental Engineering Research Institute (NEERI), Nagpur has been awarded the work to carryout a comprehensive Environmental Impact and Risk Assessment Study at a cost of Rs. 21.5 lakhs and Rs. 10.5 lakhs respectively for the above mentioned two sites. The Environmental Impact and Risk Assessment Report for both sites have been completed and finalised. In respect of the site at Siruseri village, Government have notified the site for establishing the Common Hazardous Waste Disposal facility.

As per the provisions of the MSIHC Rules, 1989 occupiers of Isolated Storages will have to notify the sites to the Board either in Schedule 7 or Schedule 8 as applicable. So far 25 Isolated storages of Hazardous chemicals have been identified.

Import of Hazardous chemicals is also covered under these rules. Units importing Hazardous chemicals as listed in Schedule I of these rules should ensure that all the details of physical and chemical properties of Hazardous Chemicals are maintained in the form of material safety data sheets. These rules empower the Board to request the Port Trust authorities to take appropriate steps regarding safe handling and storage of Hazardous Chemicals.

3.6.LABORATORIES

To assist the Board in the monitoring of industries, the Tamil Nadu Pollution Control Board has established 3 Advanced Environmental Laboratories, 6 District Environmental Laboratories and 3 Mobile Environmental Laboratories under section 17 (2) of the Water (Prevention and Control of Pollution) Act, 1974, as amended in 1978 and in 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 Labwise during the year 1997-98 are shown at Annexure IX, X & XI.

CHAPTER -IV

MONITORING NETWORK FOR QUALITY OF WATER AIR AND SOIL

The Bio sphere co exists with the atmosphere, which includes air and the hydrosphere wick includes rivers, lakes and oceans and the lithosphere where the soil exists. These spheres are interwoven in a manner that is necessary for the welfare of the living being in the bio-sphere. If one (water,air or soil) is affected, the resulting damage would affect the other spheres also. The Board closely monitors the quality of water,air water and soil in the State so as to ensure pollution free bio-sphere.

4.1 AIR QUALITY MONITORING:

4.1.1 NATIONAL AMBIENT AIR QUALITY MONITORING (NAAQM):

Clean dry air contains 78.09% nitrogen by volume and 20.94% oxygen and the remaining 0.97% is composed of gaseous mixture of carbon-di-oxide, helium etc as well as very small percentage of some other organic and inorganic gases.

The necessity to assess the Ambient Air Quality in the State of TamilNadu gains significance due to the industrialisation, transportation and other manmade activities which have direct impact on the human beings, vegetation and monuments of historical importance. Keeping this fact in view, the Board has been monitoring the air quality in and around the city of Chennai from the year 1987 onwards. This project is sponsored by the Central Pollution Control Board. Though initially there were five stations, they have been reduced to three as per the instructions of the Central Pollution Control Board. These stations are functioning in the following places.

- (a) Manali - Industrial Zone
- (b) Kathivakkam - Industrial Zone
- (c) Thiruvottriyur - Mixed Zone

Each station is run on 24 hours basis, twice a week. Samples collected from these stations are analysed for the Suspended Particulate Matter (SPM) and gaseous pollutants like sulphur -dioxide and oxides of nitrogen. This project has been extended to Tuticorin, Coimbatore, Salem and Madurai also.

At Tuticorin, Ambient air quality stations are functioning from the year 1988 in the following locations.

- (a) Regional Industries Laboratory - Industrial zone
- (b) Fisheries College - Industrial zone
- (c) A.V.M Building - Mixed zone

At Coimbatore, the Ambient Air Quality Stations are functioning from the year 1991 in the following locations.

- (a) Collectorate Office Building - Mixed zone
- (b) Saibaba Colony - Residential zone
- (c) SIDCO Building - Industrial zone

At Salem, the Ambient Air Quality station is functioning, in the following location from July 1996 onwards.

- (a) Sowdeswari College - Mixed zone

At Madurai, the Ambient Air Quality Stations are functioning from July 1996 in the following locations.

- (a) M.K. University Evening College - Residential zone
- (b) Fenner India Ltd., Building - Industrial zone
- (c) Kunnathur Chatram - Mixed zone

4.1.2. AIR QUALITY IN CHENNAI CITY

The Ambient Air Quality survey carried out under the NAAQM Project shows that the minimum and maximum level of Suspended Particulate Matter is 62 and 1127 micrograms per cubicmetre respectively. The minimum and maximum level of SO₂ is 2.3 and 889 micrograms per cubicmetre respectively. The minimum and maximum level of NO_x is 2.8 and 59 micrograms per cubicmetre respectively. However the annual average concentration of SPM, SO₂ and NO_x are generally within the standards.

4.1.3 AIR QUALITY IN COIMBATORE, TUTICORIN AND SALEM:

In Coimbatore, the minimum and maximum level of Suspended Particulate Matter is 77 and 580, SO₂ is BDL [Below Detectable Level] and 18 and NO_x is 2.5 and 43 micrograms per cubicmetre respectively.

In Tuticorin, the minimum and maximum level of SPM is 5.9 and 845, SO₂ is 1.46 and 47 and NO_x is 5.8 and 90 micrograms per cubicmetre respectively.

In Salem, the minimum and maximum level of SPM is 47 and 319, SO₂ is 0.3 and 49 and NO_x is 0.6 and 28 micrograms per cubicmetre respectively.

In Madurai the minimum and maximum level of SPM, is 26 and 577, SO₂ is 0.21 and 71 and Nox is 0.40 and 92.86 micrograms per cubic metre respectively.

However the annual average concentration of SPM, SO₂ and NO_x are generally within the standards.

4.2.WATER QUALITY MONITORING:

Water is very essential for human life and also for all living organisms and it is necessary for the survival of any form of life. But due to rapid increase in population and fast industrialisation, most of rivers, lakes, streams and other water resources are being increasingly polluted. The Board monitors the inland water quality under two major programmes namely.

- Monitoring of Indian National Aquatic Resources System (MINARS)
- Global Environmental Monitoring System (GEMS)

4.2.1. MONITORING OF INDIAN NATIONAL AQUATIC RIVER SYSTEM (MINARS)

The following rivers and lakes are being monitored for water quality under this project.

RIVERS

1. Cauvery
2. Thamiraparani
3. Palar
4. Vaigai.

LAKES

1. Uthagamandalam
2. Kodaikanal
3. Yearcaud

This project is funded by the Central Pollution Control Board, New Delhi.

4.2.1.1. RIVER CAUVERY:

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

Quality of water in River Cauvery is being monitored at 16 places along the river. These places have been selected on the basis of the location of outlets for the discharge of industrial effluents and domestic wastes.

Various Physico - Chemical and Biological parameters are analysed in respect of each of the monitoring stations and analysis is done at Advanced Environmental Laboratory, Salem. Sampling is done on monthly basis. The pH values varied from 6.78 to 8.68 and Bio-Chemical Oxygen Demand values generally varied from 1.1 to 3.3 mg/l. The overall analysis of the data reveals that the faecal contamination of surface water of river Cauvery is a common phenomenon all along the course of the river basin due to the unhygienic anthropogenic activities and disposal of either untreated or partially treated municipal waste into the river systems directly or indirectly.

The pollution abatement proposals for five stretches of river Cauvery namely Tiruchirapalli, Erode, Bhavani, Pallipalayam and Komarapalayam as prepared by The Board are under various stages of implementation by the Tamil Nadu Water Supply and Drainage Board and by the concerned Local Bodies under the National River Action Plan. The implementation of the work is coordinated by the Director of Environment, Chennai.

4.2.1.2. RIVER THAMIRAPARANI:

The Board is monitoring the water quality of river Thamiraparani on a monthly basis at 7 Stations. Various Physico-Chemical parameters and Biological parameters are analysed in respect of each monitoring station. Analysis is done at Advanced Environmental Laboratory, Madurai.

The water quality study at seven points in the river Thamiraparani shows that the level of pH values varied from 6.7 to 8.7 and Bio-Chemical Oxygen Demand varies from 1.64 to 2.40 mg/l .

4.2.1.3. RIVER PALAR:

One station viz., Vaniyambadi Municipal Head works is being monitored every month under this project. Analysis of water samples is done at Advanced Environmental Laboratory, Chennai.

4.2.1.4. RIVER VAIGAI:

The water quality of river Vaigai is being monitored under this programme by collecting the sample every month from the collection well of Thirubuvanam Head Works and analysed for Physico-Chemical and Bacteriological characteristics.

4.2.1.5 LAKES:

Under this programme 3 important lakes of Tamil Nadu at Udthagamandalam, Kodaikanal and Yercaud have been identified and monitored by collecting samples once in three months.

The total Coliform and faecal coliform in the Udthagamandalam and Kodaikanal lakes are found to be exceeding the standards prescribed due to the discharge of surface and sludge into the lake either directly or indirectly. In the case of Yercaud lake, these values are slightly high.

4.2.2.0. GLOBAL ENVIRONMENTAL MONITORING SYSTEM (GEMS)

Under the Global Environmental Monitoring System, 4 stations have been identified in river Cauvery basin and are regularly monitored every month. The project is funded by the Central Pollution Control Board.

The monitoring stations are located in the following places.

- a) Mettur
- b) Pallipalayam
- c) Musiri
- d) Musiri - borewell

Various Physico - chemical and Biological parameters are analysed in respect of each station. Analysis is done at Advanced Environmental Laboratory, Salem.

In general, from the mean values of the characteristics, it is observed that the river water quality at the above places meet the standards prescribed for surface water criteria under class "C" for all parameters, except the parameters of Total Coliform and Faecal coliform. The observed ranges of Total Coliform and Faecal coliform is from 22 to 23000 MPN/100 ml, 40 to 90,000 MPN/100 ml respectively.

4.3.0.MONITORING OF WATER QUALITY OF CITY WATER WAYS OF CHENNAI CITY.

The Board is monitoring the water quality of Chennai City waterways namely the Cooum, Adyar, Buckingham Canal and Otteri Nullah from the year 1989. Regular water samples are taken from the four city water ways at monthly intervals. The number of sampling points are as follows:

Sl.No.	River	Location /No. of Sampling Points in River	in industrial outlets
1	Adyar	5	17
2	Cooum	11	6
3	Buckingham Canal	10	13
4	Otteri Nullah	8	6

The Board is monitoring the outfalls from various industries that discharge effluents into city waterways and also the outfalls from sewage treatment plants of the city. During the year 1997-98, 1306 samples were collected and analysed at Advanced Environmental Laboratory, Chennai.

In general, Chennai City Waterways are contaminated by various organic and inorganic pollutants received from domestic, industrial and other man-made activities. The levels of contamination of the pollutants is relatively high in Buckingham canal followed by Otterinullah and the river Cooum. In all the 4 Chennai City Water Ways, the effect of northwest monsoon rain is apparent due to low level of D.O, BOD and COD. As per GO Ms. No.248 E & F Department dated 12.10.96 a High Level Committee has been formed

to monitor the works as a measure of permanent remedy to keep the Chennai City Water Ways clean. Tamil Nadu Public Works Department is taking action for awarding consultancy services for the Chennai City Water Ways rehabilitation and reclamation project.

4.4.0. MONITORING OF COASTAL WATERS OF TAMIL NADU COAST:

The Board is monitoring the Tamil Nadu Coastal water quality at regular intervals. A total number of 32 coastal stations under 5 sectors were identified along the Tamil Nadu coast starting from Ennore to Kanyakumari. Sea water samples and sediments were collected and various Physico-chemical and Biological parameters for these samples were analysed.

Based on the coastal survey, The Board has identified hot spots along the coast line which are monitored so that the pollution load discharged into the sea could be assessed and corrective action taken.

4.5 VEHICULAR EMISSION MONITORING:

4.5.1.VEHICLE EMISSION MONITORING IN CHENNAI CITY.

The Board has established three vehicular emission testing centres at Guindy, Royapuram and Thirumangalam in Chennai city and has been conducting vehicular emission tests since 2.5.92.

During the year 1997-98 , 26,714 vehicles were tested. Among the total vehicles tested, 3617 diesel driven vehicles and 67 petrol driven vehicles did not comply with the emission standards. Emission under control certificate for the vehicles not complying with the emission standards were issued only after corrective measures to comply with the emission standards are taken by the vehicles.

4.5.2.VEHICLE EMISSION MONITORING IN THE DISTRICTS:

As per amendment in the Tamil Nadu Motor Vehicles Act, 1989, vide G.O. Ms. No. 1181 Home (Transport V) Department dated 26.8.96, testing of all vehicles except Goods Transport Vehicles in Chennai Urban Agglomeration area is entrusted to private testing agencies, which are to be authorised by the Transport Department in coordination with the Board, The Board is to continue to issue test certificates in respect of Goods

Carriage vehicles for obtaining fitness certificate and to issue test certificates for all transport vehicles in Kancheepuram, Thiruvallur, Dindigul and the Nilgiris Districts. Accordingly the Board has commissioned one Vehicle Emission Monitoring Station at the Nilgiris on 26.8.96 and 2 stations at Dindigul and Palani on 10.3.97 and one station at Chengalpattu during October, 1997.

In Udthagamandalam, during the year 1997-98, 11580 Petrol and Diesel driven vehicles were tested. Among the total vehicles tested, 179 petrol and 2686 diesel driven vehicles were exceeding the emission standards prescribed.

In Dindigul and Palani, 4118 & 2367 vehicles were tested. Among the total vehicles tested, 882 and 730 vehicles were exceeding the emission standards prescribed respectively.

In Chengalpattu, 2344 vehicles were tested. Among the total vehicles tested, 131 vehicles were exceeding the emission standards prescribed.

The Board imparts training to the private entrepreneurs who opt for setting up emission testing centres.

4.6.MONITORING OF 17 CATEGORIES OF HIGHLY POLLUTING INDUSTRIES:

The Ministry of Environment and Forests, Government of India, New Delhi vide Gazette Notification No.66/Dt. 12.2.92 has fixed a deadline for the 17 categories of highly polluting units to install the requisite facilities to meet the standards. In Tamil Nadu 188 industries were identified as on 31.03.98 as highly polluting units and the Chief Executives of all the units were called for discussions. Based on the discussions, action plan has been evolved for each unit to improve the existing treatment facilities with time bound programme to achieve the standards prescribed by the Board under the Water and Air Acts.

Out of 188 Medium and Large Scale Industries, 185 units have provided adequate pollution control measures to comply with Tamil Nadu Pollution Control Board Standards and the remaining 3 units have been instructed to provide adequate pollution Control measures to comply with the standards.

4.7. OZONE MONITORING CELL:

Earth is protected by the presence of ozone (ie a thin layer of 1 ppm to 5ppm by volume) in stratosphere and the ozone layer serves as a protecting shield from the harmful effects of ultra violet rays coming from solar radiation. Depletion of ozone would lead to harmful effects, as the ultra-violet rays could reach the earth easily.

Considering the importance of the issue, the Board has established a Ozone Monitoring Cell as per G.O. Ms.No. 212 dated 29.6.95 and it is functioning since 1.9.95 in the Board's Head office.

The main objectives are:

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

The Board has conducted a detailed survey of the industries in the State producing or consuming Ozone Depleting Substances. From the survey 55 industries in the State have been identified to consume Ozone Depleting Substances. The quantity of various Ozone Depleting Substances used in the State has also been estimated. The identified industries have been suggested on the adoption of alternatives with Zero ODS depending on the controlled substance used.

CHAPTER V

ENVIRONMENTAL STANDARDS:

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

The Board has evolved Ambient Air Quality standards and Emission standards for thirteen specific industries.

The Board is monitoring the units so that they adhere to the effluent/emission standards prescribed by the Board.

5.2 Constitution of Green Bench:

During the year 1986-87, the Hon'ble High Court of Madras has constituted a Green Bench for the disposal of Hon'ble Supreme Court of India to deal with the cases pertaining to industries and environmental related cases. The Green Bench is constituted every Thursday. Some of the important judgments are as follows:

5.2.1 Action against pollution from Dyeing units:

1st Bleaching and Dyeing units at Karur:

Out of the total 606 Bleaching and Dyeing units located in and around Karur, 800 units are in a state of closure and the remaining 6 units have closed by themselves. Out of the 606 units, 484 units have joined as members in 8 Common Effluent Treatment Plants (CETPs) to be constructed at various places and the remaining 122 units have proposed to be constructed at various places individually. The Green Bench of Madras High Court has ordered that the Board will have its liberty to open the CETPs along with the respondents, for 6 months, to complete the Common Effluent Treatment Plants (CETPs) and the Board should take appropriate steps.

CHAPTER VI

6.1. PROSECUTION LAUNCHED AND CONVICTION SECURED FOR FAILURE TO CONTROL POLLUTION:

The Board has issued 7879 Show Cause Notices and 859 closure notices during the year 1997-98. The Board has so far issued Show Cause Notices to 10916 industries and closure orders to 1299 industries for not complying with the conditions prescribed by the Board. Also the Board has so far filed 320 cases under the Water (Prevention and Control of Pollution) Act, 1974 and out of 186 cases disposed, 94 cases have been decided in favour of the Board. The Board has filed 134 cases under the Air (Prevention and Control of Pollution) Act, 1981 and out of 114 cases disposed, 82 cases have been decided in favour of the Board.

6.2 Constitution of Green Bench:

During the year 1996-97, the Hon'ble High Court of Madras has constituted a Green Bench as per the directions of Honourable Supreme Court of India to deal with the cases pertaining to tanneries and environmental related cases. The Green Bench is sitting every Thursday. Some of the important judgements are as follows.

6.2.1. Action against pollution from Dyeing units:

(a) Bleaching and Dyeing units at Karur:

Out of the total 606 Bleaching and Dyeing units located in and around Karur, 600 units are in existence and the remaining 6 units have closed by themselves. Out of the 600 units 434 units have joined as members in 8 Common Effluent Treatment Plants proposed to be constructed at various places and the remaining 166 units have proposed to install Effluent Treatment Plants individually. The Green Bench of Madras High Court by its order dated 22.1.98 has ordered that the Board will have its liberty to open the units covered by the Joint memorandum of understanding filed by the petitioner along with the respondents, for 3 months, to complete the Common Effluent Treatment Plants and in default thereof, the Board should take appropriate steps.

(b) Bleaching and Dyeing units at Tiruppur :

Out of the total 866 units, the Honble Highcourt of Chennai has ordered to close 114 units, which have closed by themselves, but having facilities to sperate and 54 units which have shown no progress in implementing Effluent Treatment Plants in Tiruppur area, Coimbatore District. Of the remaining 698 units, 288 units have joined as a memembr in 8 Common Effluent Treatment Plants, which are under progress. The court by its order dt.26.2.98 has ordered that the Board will have its liberty to open the units covered by the Joint Memorandum of under standing filed by the Petitioner alongwith the Respondents, for 3 months to complete Effluent Treatment Plants/Common Effluent Treatment Plants and in default thereof, the Board should take appropriate steps.

(c) Foundry units at Coimbatore:

The Hon'ble High Court has issued directions to close 535 Foundry units located in Coimbatore District. Out of 535 units, 161 units are located in primary and mixed residential areas, 310 units are located in industrial areas, 23 units are located in unclassified areas and the remaining 41 units are located in the areas not covered either under primary / mixed residential areas or industrial areas.

For the units located in mixed residential areas, the Board will consider the cases with reference to the Coimbatore City Master Plan and Developmment Rules under the Tamil Nadu Town and Country Planning Act. Further the court has extended the time upto 25.8.98 to finalise the land use classificatin by the Director of Town and Country Planning.

CHAPTER VII

During the period from April 1997 to March 1998, Four Meetings of the Board were held at Chennai as listed below:

Sl.No.	No. of subjects placed	Meeting No.	Date
01	35	160	21.04.97
02	35	161	16.07.97
03	27	162	15.10.97
04	46	163	25.02.98

7.2. MAJOR POLICY DECISIONS TAKEN BY THE TAMIL NADU POLLUTION CONTROL BOARD DURING THE YEAR 1997-98

7.2.1 The Board has approved the proposals to modify the validity of the renewal consent order as below and to review the proposals after one year.

Sl.No.	Category of Industries	Validity period in the financial year
1	All Large category	31st March
2	All Medium category	31st March
3	Red category SSI units	30th June
4	Orange category SSI units	30th September
5	Green category SSI units	31st December

7.2.2 The Board has approved the proposal to establish a District Environmental Laboratory at Tiruppur.

7.2.3 The Board has approved the recommendations of the Committee constituted to decide the State Environmental Awards to the industries for the year 1996-97.

7.2.4 The Board has approved the proposals to acquire the site at Siruseri village, Chengalpattu Taluk, Kancheepuram District at a cost of Rs. 60,06,343/- and to pay Rs. 10,000.00 as advance to the Government towards the cost of land and pay the balance in 5 equal yearly instalments from the Board's funds and to recover the cost of the land from the operator of the facility who would be developing the site into a secure land fill for the disposal of Hazardous Wastes.

7.1 TECHNICAL ADVISORY COMMITTEE

The Board has constituted a Technical Advisory Committee consisting of experts from various fields to assist the Board in its various functions, such as evaluation of standards for effluent treatment, evaluation of economic and emission evaluation of effluent treatment plants for various industries, to obtain the views of experts in problematic cases etc.

7.2 LIBRARY COMMITTEE

To streamline the system of purchase of publications for the Library and to suggest measures for its improvement and better maintenance, a Library Committee has been constituted. The committee reviews periodically the requirements and functioning of the library. During the year 5 meetings were conducted.

Total number of 892 books, 32 Video/Audio Cassettes and 50 no. of journals published are available in the Library.

8.1 Board has Membership in the following

1. Chemical Industries Association,
2. International Association on Water Quality,
3. British Council Division,
4. Indian National Scientific Documentation Centre,
5. Tata Energy Research Institute,
6. United States Information Service,
7. Indian Environmental Association,
8. National Geographic Society,
9. Air and Waste Management Association.

The Library has also been provided with 5 computers by DAIDA. DAIDA has also provided 800 books and Internet facilities for the Library.

CHAPTER VIII

8.COMMITTEES CONSTITUTED BY THE BOARD AND THEIR ACTIVITIES:

For more effective disposal of business, certain committees were constituted by the Board. These are detailed below.

8.1.TECHNICAL ADVISORY COMMITTEE:

To assist the Board in its various functions, such as evaluation of standards for various pollutants in effluent and emission, evaluation of economical effluent treatment methods for various industries, to obtain the views of experts in problematic cases etc., the Board has constituted a Technical Advisory Committee consisting of experts from various fields.

8.2. LIBRARY COMMITTEE:

To streamline the system of purchase of publications for the Library and to suggest measures for its improvement and better maintenance, a Library Committee has been constituted. The committee reviews periodically the requirements and functioning of the library. During the year 2 meetings were conducted.

Total number of 5192 books, 32 Video/Audio Cassettes and 50 no. of journals subscribed are available in the Library.

8.2.1 Board has Membership in the following:

1. Chemical Industries Association.
2. International Association on Water Quality.
3. British Council Division.
4. Indian National Scientific Documentation Centre.
5. Tata Energy Research Institute
6. United States Information Service.
7. Indian Environmental Association.
8. National Geographic Society.
9. Air and Waste Management Association.

The Library has also been provided with 2 computers by DANIDA. DANIDA has also provided 600 books and Internet facilities for the Library.

8.3. HOSPITAL WASTE MANAGEMENT COMMITTEE:

The Board is also taking necessary steps for environmentally safe management of Hospital wastes. In this regard a Committee headed by Dr. M. Santappa Scientific Advisor has been constituted. The committee would study the prevailing practices, evaluate various treatment and disposal options for the safe destruction of Bio-medical wastes and to recommend the most suitable treatment method for the destruction of Hospital wastes considering the aspects of both environmental impact and cost.

9. ENVIRONMENTAL TRAINING INSTITUTE

The Board has set up an Environmental Training Institute with Danish Assistance. The Institute is located in the District Office, Guindy, Chennai-32.

The main objective of the Training Institute is to impart training to staff of the Government, Non-Governmental Organisations and to make them capable of controlling and advising small, medium and large scale pollution treatment and prevention techniques suitable to their needs. During the year 1987-88 Environment Training Institute has conducted 36 training programmes and trained 498 personnel. Up to the year ending 1987-88 the Institute has conducted 58 training programmes and trained 750 personnel.

CHAPTER - IX

9.1. ENVIRONMENTAL TRAINING:

With a view to promote environmental awareness, Senior Officers, Engineers/ Scientists and also Ministerial Staff have participated in Training/Seminars/ Workshops all over India and abroad.

The Board has set up an Environmental Pavilion inside the premises of the Periyar Science and Technology Centre at Kotturpuram, Chennai. The pavilion has a permanent Exhibition centre and an Auditorium with facilities like audiovisual equipments such as public address system, slide and over head-projector, and a 60 m.m. projector to be used by the Board and NGOs.

9.2. ENVIRONMENTAL TRAINING INSTITUTE:

The Board has set up an Environmental Training Institute with Danish Assistance of Rs.4.0 crores in the 3rd floor of its Head Office, Guindy, Chennai-32.

The main objective of the Training institute is to impart training to staff of the Board, personnel from the Industries and Non-Governmental Organisations and to make them competent and capable of controlling and advising small, medium and large scale Industries on pollution treatment and prevention techniques suitable to their needs. During the year 1997-98 Environment Training Institute has conducted 36 training programmes and trained 498 personnels. Upto the year ending 1997-98, the Environmental Training Institute has conducted 58 training programmes and trained 874 personnels in total.

CHAPTER - X

ENVIRONMENTAL AWARENESS AND PUBLIC PARTICIPATION:

The Board has been playing a catalytic role in the creation of environmental awareness among the public, students etc., and has been participating in seminars and workshops related to environmental issues.

The Board gives away awards every year on World Environment Day for winners of Essay Competitions, Elocution Competitions and Drawing / Cartoon / Painting Competitions conducted for the students on Anna's Birth day, Gandhiji's Birthday and Nehru's Birth day respectively. These Competitions are organised to highlight the awareness on environment and pollution control among the Public and Industries.

The Board is participating every year in the Republic Day Parade with a Pageantry carrying the models of various activities of the Board for display. In order to create Environmental Awareness among the Public and Industries, the Board is participating every year in various Exhibitions/Trade Fairs conducted at Island Grounds, Chennai as well as in New Delhi.

The Board is publishing a Newsletter for creating environmental awareness and the Newsletter and other Phamphlets published are distributed among the Industries, NGOs, Institutions etc.,. The Board has installed a traffic signal to regulate the city traffic with an Environmental Protection slogan at Guindy Raj Bhavan Road Junction near the Board's Head Office.

The Board has conducted free vehicle emission checkup compaign in co-ordination with Petroleum Conservation Research Association, Indian Oil Corporation and other private organisations like Khivraj & Eicher at various places.

The details of the above emission checkup compaign are as follows:

- | | | |
|---------------------------------|---|--|
| In Eicher Motors Limited | : | Out of 454 vehicles tested 187 vehicles have not complied with the prescribed limits |
| In PCRA | : | Out of 100 vehicles tested 6 vehicles have not complied with in the prescribed limits. |
| In IOC | : | Out of 718 vehicles tested 151 vehicles have not complied with the prescribed limits. |

The Board has organised a seminar on vehicular emission and its control measures during January '98 in commoneration of the 50th year of Independence, covering various aspects so as to create awareness on the emission problem caused by the vehicles among the participants.

11.5. WORLD BANK ASSISTED INDUSTRIAL POLLUTION CONTROL PROJECT:

World Bank is providing assistance for institutional strengthening of the selected State Pollution Control Boards in India under Industrial Pollution Control Project through the Ministry of Environment and Forests, Government of India. The Board is one of the State Boards provided with the assistance to the extent of US \$ 2.517 Million. The financial assistance is towards the procurement of equipments for institutional strengthening. The Board has so far received Rs. 71.88 lakhs worth of equipments and other components under the project in Phase I.

11.6. RESEARCH FUND:

The Board has set up a research fund to grant Financial Assistance to recognised Research Institutions and Universities for taking up research activities in the field of pollution abatement including reduction / reuse / recycling or any other beneficial use of waste generated with a view to developing sound environmental technologies.

During the year 1997-98, 10 proposals have been received and evaluated by an Expert Committee. Based on the recommendations of the Expert Committee, the Board has requested the proponents of 3 projects to resubmit the proposals after revision on the lines of direction given by the Expert committee.

11.7. PUBLIC HEARING PANEL:

Government in G.O. Ms. NO.487/E&F EC-III/Dept. dt. 22.12.97 have constituted Public Hearing Panels as required under schedule IV of E.IA. Notification 1994 - as amended on 10.4.1997 for 23 Districts and subsequently constituted Public Hearing Panels for the remaining 6 Districts on 21.3.98. Constitution of Public Hearing Panels have been published in the leading Newspapers. Public Hearing Panels, after conducting public hearing, suggestions and objections, if any, about the project from the public, will send its views to the Board so that No Objection Certificates can be issued to the industries by the Board to enable them to approach the Ministry of Environment and Forest, Government of India to get the Environmental Clearance. Public hearings on various projects are to be held starting from the financial year 1998-99 by the respective District Collectors.

CHAPTER XI

OTHER IMPORTANT MATTERS DEALT WITH THE BOARD

11.1 MONITORING OF ECOLOGICALLY SENSITIVE AREAS:

Ecologically sensitive areas like Pitchavaram Mangrove Forests, Kodaikanal and Udhamandalam lakes etc., are nature's gifts and need to be protected and pollution in the vicinity of these areas needs to be monitored. The Board has taken up the monitoring of ecologically sensitive areas.

11.2 IMPLEMENTATION OF PUBLIC LIABILITY INSURANCE ACT, 1991.

The purpose of the above Act is to provide immediate relief to the persons affected by accidents occurring while handling hazardous substances and for matters connected with or incidents there to. The Implementation of Public Liability Insurance Act, 1991 is vested with the District Collectors

11.3. ENVIRONMENTAL STATEMENT:

The Ministry of Environment and Forests, Government of India have notified the Environmental Statement Rules, 1993. 246 industries have been identified to furnish the Environmental Statements as required.

Environmental Statements for the year 1997-98 have been obtained from all the 17 category of highly polluting industries to assess their compliance with the standards prescribed by the Board.

11.4. APPLIED RESEARCH AND DEVELOPMENT:

The Board has established an Applied Research and Development wing in the Advanced Environmental Laboratory at Chennai with a view to develop cleaner technologies that would reduce the generation of pollution during the year 1996-97. The wing in consultation with University of Chennai has prepared a research project entitled "Bio-Treatment of Tannery effluent by Microbes" to study the degradation of tannins and other organic and inorganic compounds of tannery effluent. Tanneries have been identified for implementing the project. This project is in progress.

CHAPTER XII

FINANCE AND ACCOUNTS OF THE BOARD (PROVISIONAL FIGURES SUBJECT TO AUDIT)

		Rupees in Lakhs
Opening Balance		2129.93
Expenditure during year 1997-98		986.27
Receipts		<u>2116.16</u>
Closing Balance as on 31.3.98	Total	<u>3289.82</u>

DETAILS:

Receipts Of The Board -Grants received From State Government		Nil
Grants received from Central Government		Nil
Consent fees		1367.70
Monitoring and analytical charges		137.47
Cess reimbursement		83.24
Sale of Application Forms & Books		9.17
Others		<u>518.58</u>
	Total	<u>2116.16</u>

EXPENDITURE REVENUE:

1. Salary and GPF	532.12	
2.T.A. and L.T.C.	14.73	
3.Office Expenditure (Stationery, Rent, Vehicle, Telephone, Printing, Hospitality, etc.)	<u>218.77</u>	
	Total	765.62

CAPTIAL:

1. Fixed Assests	137.08	
2.Other Assets	52.48	
3.Advances to staff	<u>31.09</u>	
		220.65
	Sub Total	<u>986.27</u>

CHAPTER XIII

ANNUAL ACCOUNT FOR THE YEAR 1997-1998

OUTLAY AND EXPENDITURE OF STATE SCHEMES:[Rupees in Lakhs]

Sl. No	Head of Development Group Head/Name of scheme	Ninth Five Year plan Outlay	Actual Expenditure for the year 1996-97	Approved Outlay for the year 1997-98	Anticipated Expenditure	Proposed Outlay for the year 1998-99	Tentative capital content
01	State Plan	1996-2000					
02	Prevention of Water and Air Pollution						
03	<u>Control of Water and Air Pollution</u> Establishment of continuous Air Quality Monitoring Systems at Tuticorin & Cuddalore	Yet to be received	80.00	90.32	90.32		

ANNEXURE - I

LIST OF BOARD MEMBERS.

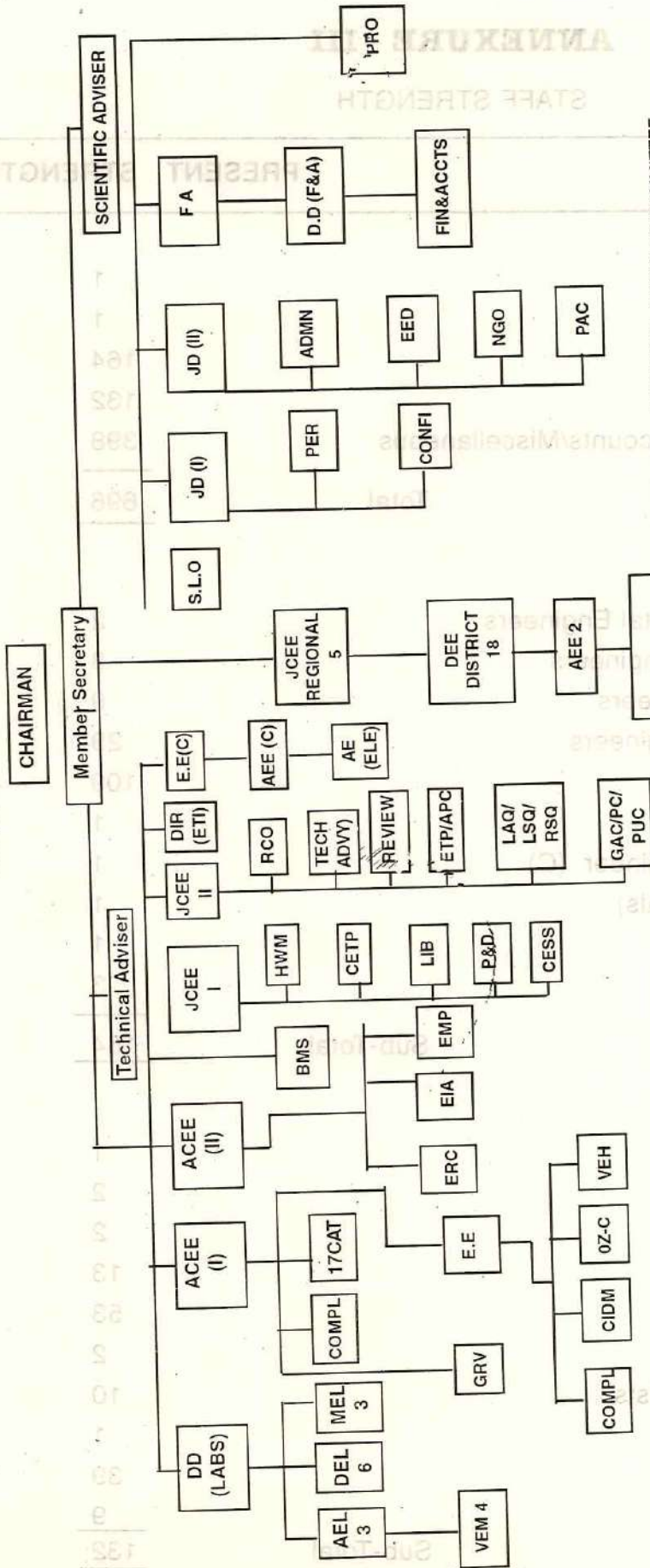
Sl. No.	Name and address	Position	Period	
			From	To
1.1	Thiru. A.P. Muthuswami., I.A.S. Tamil Nadu Pollution Control Board.	Chairman	01.04.97	31.05.97
1.2	Thiru. M.Devaraj, I.A.S. Tamil Nadu Pollution Control Board.	Chairman	01.06.97	31.03.98
Officials Nominated by The State Government				
2.1	Thiru.K.S. Sripathi., I.A.S., Secretary to Government, Environment and Forests Department, Fort St. George, Chennai - 9.	Member	01.04.97	31.03.98
3.1	Thiru. S.K. Subramanian, Joint Secretary to Government, Finance Department Fort St. George, Chennai - 9.	Member	01.04.97	01.12.97
3.2	Thiru. R.N. Choubey, I.A.S., Spl. Secretary to Finance, Fort St. George, Chennai - 9	Member	02.12.97	31.03.98
4	Dr. T. Prabakara Rao, I.A.S., Director of Town and Country Planning, 807, Anna Salai, Guindy, Chennai -2	Member	01.04.97	31.03.98
5	Thiru. Sanwat Ram, I.A.S., Director of Municipal Administration, Ezhilagam Annexe Building, VI floor, Chepauk, Chennai - 5	Member	01.04.97	31.03.98
6	Dr. N. Vijaya Raghavan, Director of Public Health and Preventive Medicine, Chennai - 6	Member	01.04.97	31.03.98

**Non-Official-Members Nominated by the State Government to represent
Agriculture /Fisheries/Industries/Trade**

Sl. No.	Name and address	Position	Period	
			From	To
7.1	Thiru. N.Thangaraj Pandian., M.P., No.85. Uthumalai Bungalow, Courtralam, Tenkasi Taluk, Tirunelveli District.	Member	01.04.97	15.07.97
7.2	Thiru. P.Gopal B.Sc., MLA., Mettur Dam, Salem District.	Member	16.07.97	31.03.98
8.1	Thiru. Guna Singh Chelladurai, President, TANSTIA, 10, G.S.T Road, Guindy, Chennai - 32.	Member	01.04.97	15.07.97
8.2	Thiru N. Rafeeq Ahmed, Chairman, Leather Exports Promotion Council, 53, Sydenhams Road, Chennai - 3.	Member	16.07.97	31.03.98
9.1.	Thiru. P.Devarajan, B.A., B.L., Venbavoor, Perambalur Taluk, Perambalur District	Member	01.04.97	15.07.97
9.2	Tmt. Banumathi Baskaran, State Level Fisheries Wing Organiser, 18, Corp. Colony, 3rd Lane, Tondiarpet, Chennai - 81	Member	16.07.97	31.03.98

Sl. No.	Name and address	Position	Period	
			From	To
Personnel Nominated by the State Government to represent the Companies controlled and managed by the State Government				
10	Thiru. L. Palamalai., I.A.S., Managing Director, TWAD Board, Chepauk, Chennai - 5.	Member	01.04.97	31.03.98
11	Thiru S.R. Krishnamoorthy, Member (Generation), Tamilnadu Electricity Board, 800, Anna Salai, Chennai - 2.	Member	01.04.97	31.03.98
12.	Thiru. T. Meenakshi Sundaram (Spl. Invitee), General Manager, (P.F), SIPCOT, 19 A, Marshalls Road, Egmore, Chennai - 8.	Special Invitee	01.04.97	31.03.98
13.	Dr. T.Sekar Director of Environment, Chennai Metro Water Supply & Sewerage Board, 6th floor, No.1 Pumping Station Road, Chindaripet, Chennai - 2.	Special Invitee	25.02.98	31.03.98
14.	Thiru. G.Rengasamy, Member Secretary, Tamilnadu Pollution Control Board, 100, Anna Salai, Guindy, Chennai - 32.	Member-Secretary	01.04.97	31.03.98

ANNEXTURE - II TAMILNADU POLLUTION CONTROL BOARD ORGANISATION CHART



- Abbreviations used
- : ADDL. CHIEF ENVIRONMENTAL ENGINEER - I
 - : ADDL. CHIEF ENVIRONMENTAL ENGINEER - II
 - : JOINT CHIEF ENVIRONMENTAL ENGINEER
 - : JOINT CHIEF ENVIRONMENTAL ENGINEER
 - : JOINT CHIEF ENVIRONMENTAL ENGINEER
 - : DIRECTOR (ENVIRONMENTAL TRAINING INSTITUTE)
 - : ENVIRONMENTAL ENGINEER
 - : FINANCIAL ADVISER
 - : JOINT DIRECTOR (PERSONNEL & CONFIDENTIAL SECTION)
 - : JOINT DIRECTOR (ADMINISTRATION & TRAINING)
 - : DEPUTY DIRECTOR (FINANCE & ACCOUNTS)
 - : DEPUTY DIRECTOR (LABORATORIES)
 - : SENIOR LAW OFFICER
 - : DISTRICT ENVIRONMENTAL ENGINEER
 - : ASSISTANT ENVIRONMENTAL ENGINEER
 - : ASSISTANT ENGINEER
 - : EXECUTIVE ENGINEER (CONSTRUCTION)
 - : ASSISTANT EXECUTIVE ENGINEER (CONSTRUCTION)
 - : ASSISTANT ENGINEER (ELECTRICAL)
 - : PUBLIC RELATION OFFICER
 - : ADVANCED ENVIRONMENTAL LABORATORY
 - : DISTRICT ENVIRONMENTAL LABORATORY

- TECH ADVY - TECHNICAL ADVISORY COMMITTEE
- REVIEW - REVIEW OF JCEE'S AND DEE'S OFFICES.
 - STP/APC: EFFLUENT TREATMENT PLANTS/AIR POLLUTION CONTROL MEASURES PROVIDED (QUARTERLY REPORT)
 - LAQ - LEGISLATIVE ASSEMBLY QUESTIONS
 - LSQ - LOK SABHA QUESTIONS
 - RSQ - RAJYA SABHA QUESTIONS
 - GAC - GOVERNMENT ASSURANCE COMMITTEE
 - PC - PETITION COMMITTEE
 - PUC - PUBLIC UNDER TAKING COMMITTEE
 - PER - PERSONNEL
 - CONF - CONFIDENTIAL
 - ADMIN. - ADMINISTRATION
 - EED - ENVIRONMENTAL EDUCATION
 - FIN - FINANCE
 - ACCTS - ACCOUNTS
 - NGO - NON GOVERNMENTAL ORGANISATION (CELL)
 - PAC - (POLLUTION AWARENESS ASSISTANT CELL

- MOBILE ENVIRONMENTAL LABORATORY
- VEHICLE EMISSION MONITORING
- VEHICLES
- GRIEVANCE CELL
- COMPLAINTS
- 17 CATEGORY OF INDUSTRIES
- CENTRE FOR INFORMATION AND DATA MANAGEMENT
- PLANNING & DEVELOPMENT
- OZONE CELL
- EMERGENCY RESPONSE CENTRE
- ENVIRONMENTAL IMPACT ASSESSMENT
- ENVIRONMENTAL MANAGEMENT PLAN
- HAZARDOUS WASTE MANAGEMENT
- COMMON EFFLUENT TREATMENT PLANT
- LIBRARY
- RENEWAL CONSENT ORDER

ANNEXURE - III

STAFF STRENGTH

NAME OF THE POST	PRESENT	STRENGTH
------------------	---------	----------

Chairman	1	1
Member Secretary	1	1
Engineering Service	164	164
Scientific Service	132	132
Personnel/Administration/Accounts/Miscellaneous	398	398
Total	696	696

ENGINEERING SERVICE

Additional Chief Environmental Engineers	2	2
Joint Chief Environmental Engineers	8	8
District Environmental Engineers	9	9
Assistant Environmental Engineers	29	29
Assistant Engineers	109	109
Executive Engineer (C)	1	1
Assistant Environmental Engineer (C)	1	1
Assistant Engineer (Electricals)	1	1
Technical Assistant	1	1
Assistant Draughtsman	3	3
Sub-Total	164	164

SCIENTIFIC SERVICE

Deputy Director (LAB)	1	1
Assistant Director s(LAB)	2	2
Additional Managers (LAB)	2	2
Deputy Managers (LAB)	13	13
Environmental Scientists	53	53
Meterologists	2	2
Junior Environmental Scientists	10	10
Electrical Supervisor	1	1
Field Assistants	39	39
Lab. Attendants	9	9
Sub-Total	132	132

NAME OF THE POST

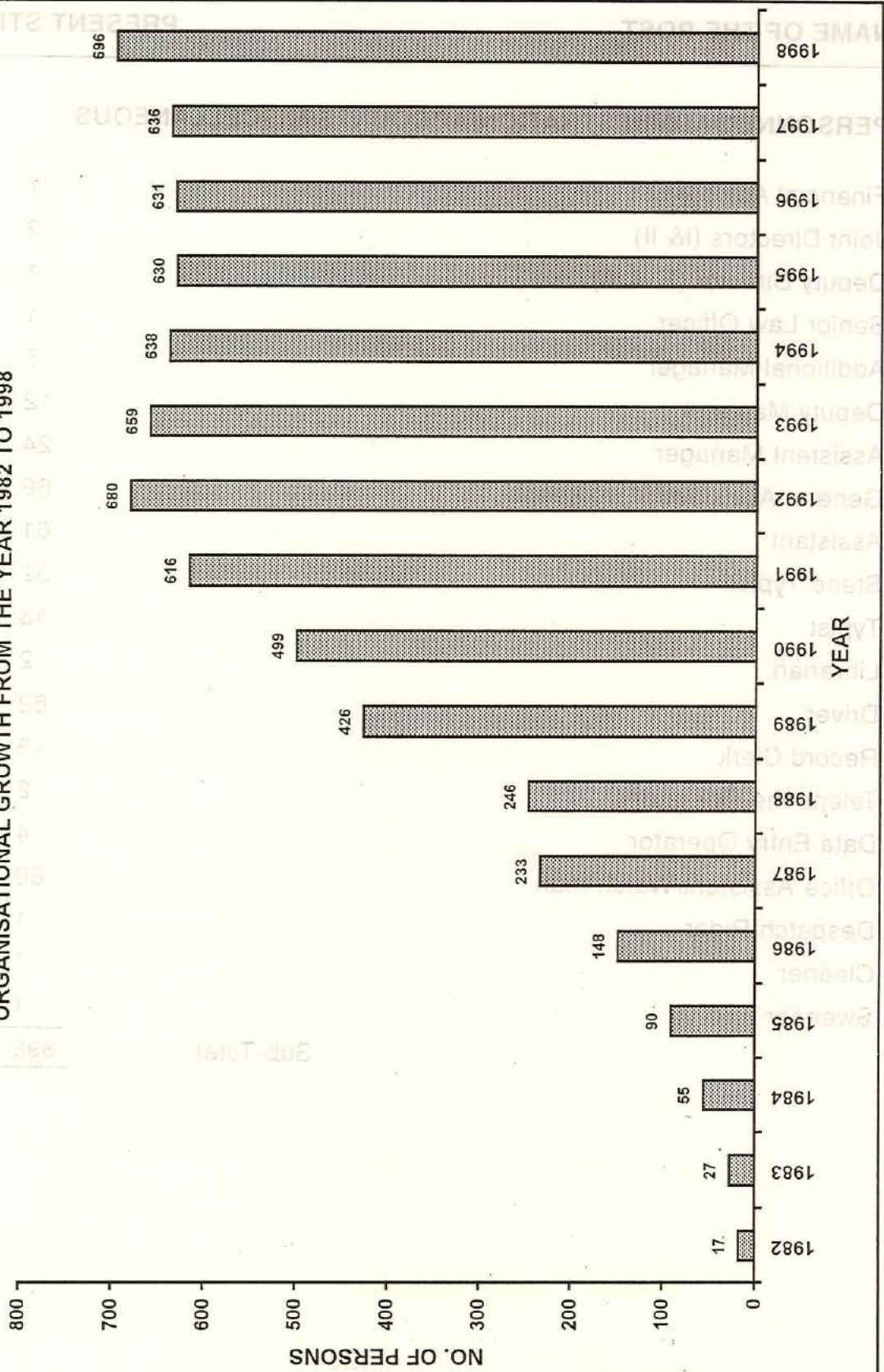
PRESENT STRENGTH

PERSONNEL/ADMINISTRATION/ACCOUNTS/MISCELLANEOUS

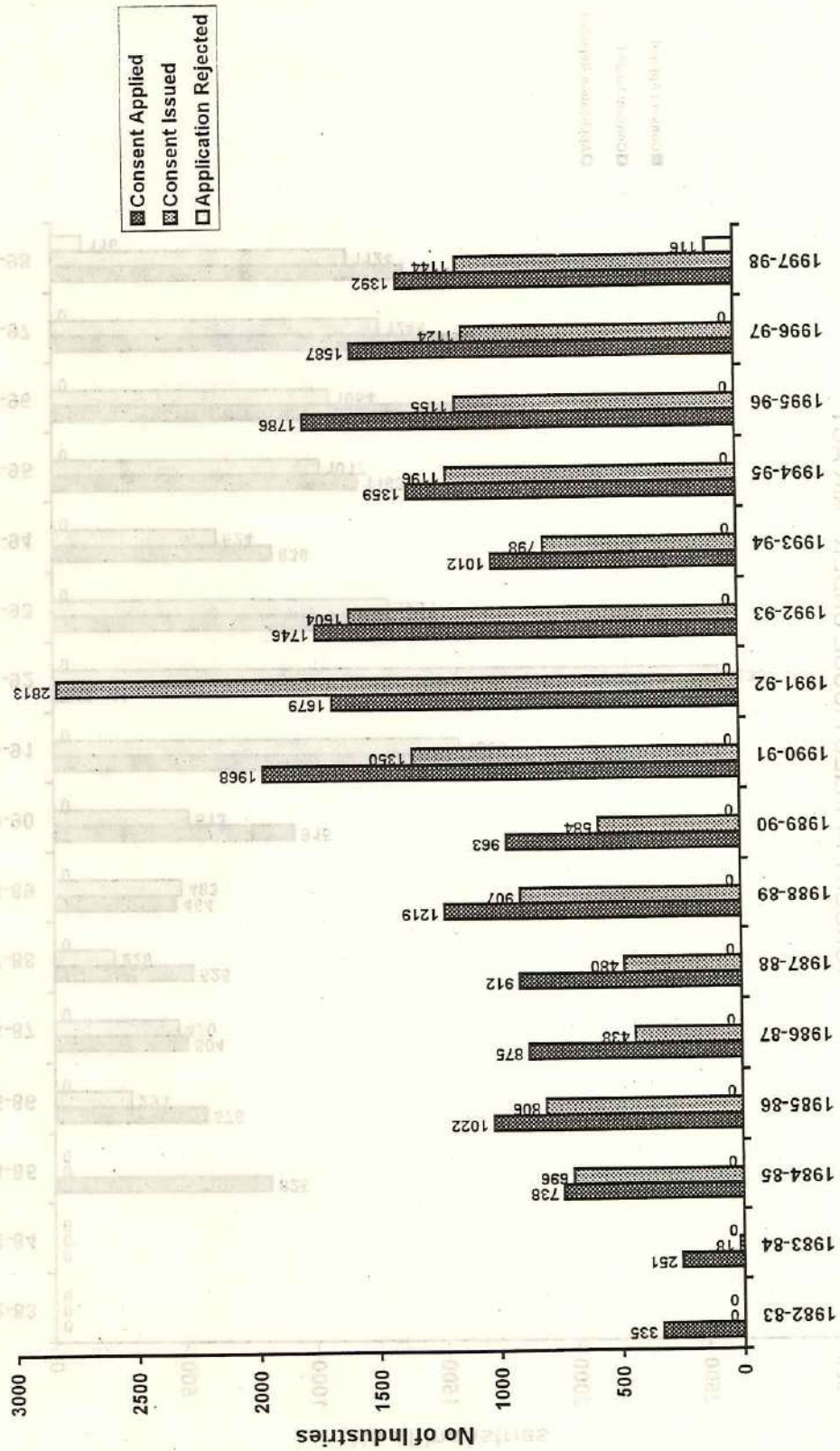
Financial Advisor	1
Joint Directors (I& II)	2
Deputy Director (F & A)	1
Senior Law Officer	1
Additional Manager	5
Deputy Manager	12
Assistant Manager	24
General Assistant/Store keeper	69
Assistant	61
Steno Typist	32
Typist	43
Librarian	2
Driver	62
Record Clerk	13
Telephone Operator	2
Data Entry Operator	4
Office Assistant/Watch man	60
Despatch Rider	1
Cleaner	1
Sweeper	1
Sub-Total	398

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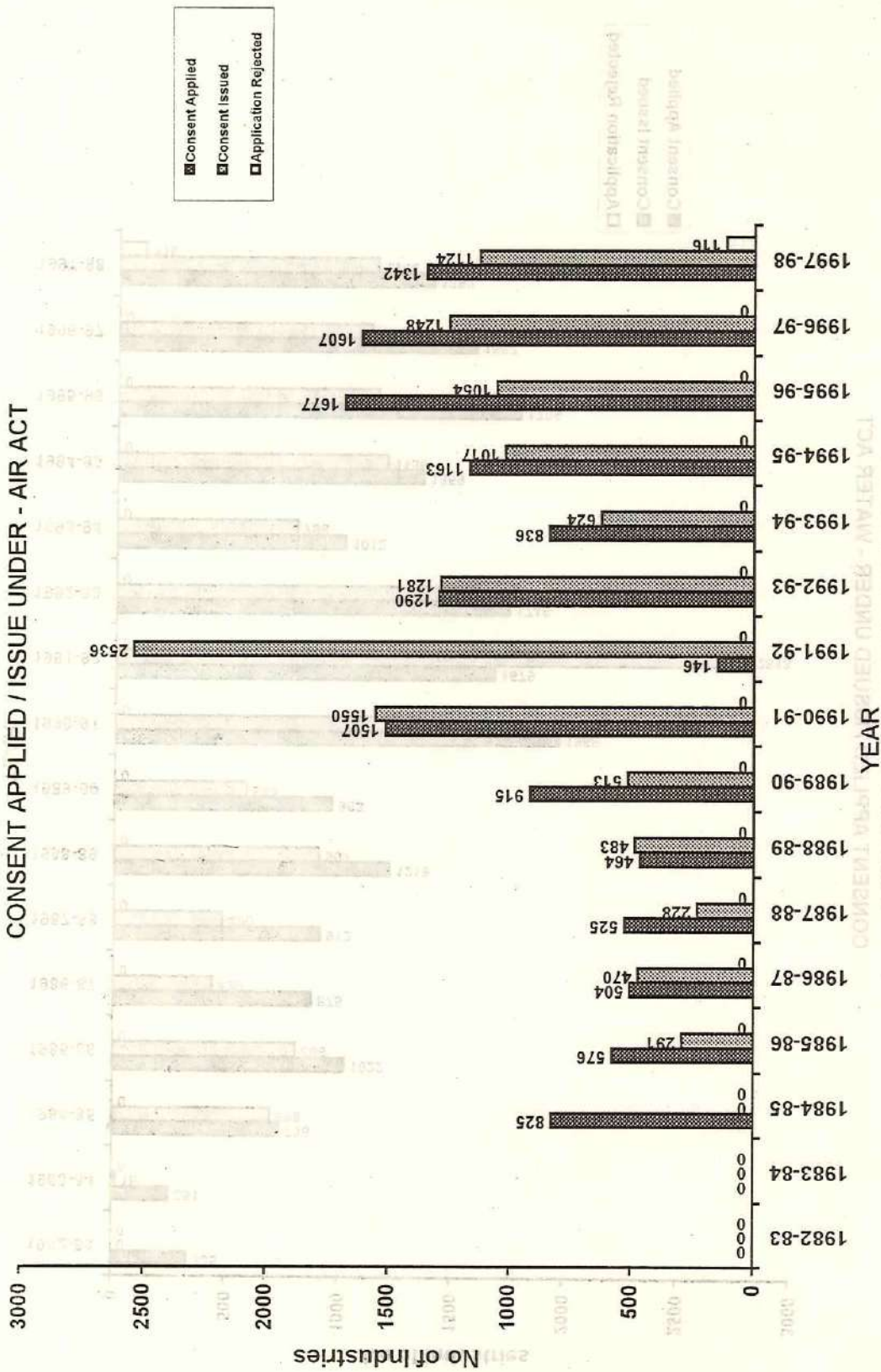
ANNEXURE - IV
 TAMIL NADU POLLUTION CONTROL BOARD
 ORGANISATIONAL GROWTH FROM THE YEAR 1982 TO 1998



ANNEXURE-V
TAMIL NADU POLLUTION CONTROL BOARD
CONSENT APPLIED / ISSUED UNDER - WATER ACT



ANNEXURE -VI
TAMIL NADU POLLUTION CONTROL BOARD
CONSENT APPLIED / ISSUE UNDER - AIR ACT



ANNEXURE -VII

DETAILS OF COMMON EFFLUENT TREATMENT PLANT

SCHEMES AT VARIOUS PLACES:

A.TANNERIES:

SL. NO.	LOCATION OF CETP	DISTRICT	NO.OF BENEFICIARY UNITS	QUANTITY OF EFFLUENT (in KLD)	COST OF PROJECT (Rs.in Cr.)
I. Under Operation:					
1	Pammal / Pallavaram	Kancheepuram	145	3000	7.03
2	Madhavaram-TALCO Industrial Estate	Thiruvallur	14	400	1.25
3	Ranipet (SIDCO)	Vellore	87	2500	2.95
4	Melvisharam	Vellore	35	3400	3.63
5	Thuthipet	Vellore	51	2219	4.14
6	Ramji Nagar	Tiruchirapalli	5	525	0.60
7	Valayampet [Vaniyambadi- Talco]	Vellore	110	2948	3.37
8	Udayenthiram	Vellore	10	220	0.7
9	Bakkalapalli	Vellore	19	891	1.60
10	Ranipet	Vellore	75	4000	4.60
11	Dindigul	Dindigul	69	2533	5.00
II. Under Progress:					
12	Melpudupet	Vellore	19	550	1.51
13	Chettithangal	Vellore	11	480	1.39
14	Perumalpet	Vellore	50	4000	11.49
15	Pudur	Vellore	9	600	1.42
16	Valayampet (Vaniyambadi)	Vellore	20	1470	2.00

17	SIDCO & SIPCOT PHASE -II, Ranipet	Vellore	40	1560	2.52
18	Ambur (Mittalam)	Vellore	19	1500	2.59
19	Maligaihope, Ambur	Vellore	17	1100	2.00
20	Gundur	Tiruchirapalli	14	1775	2.85
21	Chengalvarayan- pattarai	Vellore	17	400	1.80
22	V.Kota Road	Vellore	60	2475	2.87
23	Sembattu	Tiruchirapalli	18	2400	3.00

III. Under Initial Stages

24	Vaniyambadi	Vellore	21	2000	2.45
25	M.C.Road, Ambur	Vellore	13	450	2.20
26	Tarawali, Ambur	Vellore	14	800	2.75
27	Pernambut (Eruguthimullumedu)	Vellore	10	700	1.54

B. DYEING UNITS:

Sl. No.	Location of CETP	District	No. of Beneficiary units	Quantity of effluent [in KLD]	Cost of Project [in Crores]
I. Under Operation					
1	Ayyampet -Muthialpet	Kancheepuram	65	1500	1.43
II. Under Progress					
2	R.K.Puram	Karur	49	1250	1.93
3	Andankoil	Karur	49	1900	2.14
4	Amaravathi Nagar	Karur	53	2400	2.44
5	Light House	Karur	58	1150	1.44
6	Thirumanilaiyur	Karur	62	2100	2.08
7	Sukkaliyur	Karur	80	1400	1.69
8	Sellandipalayam	Karur	150	2600	2.25
9	Karruppanpalayam	Karur	40	750	1.08
10	Andipalayam (Tiruppur)	Coimbatore	21	4500	2.15
11	Kunnangalpalayam (Tiruppur)	Coimbatore	19	4250	2.16
12	Angeripalayam (Tiruppur)	Coimbatore	92	8500	7.20
13	Chinnakarai (Tiruppur)	Coimbatore	31	5000	2.45
14	Kasipalayam (Tiruppur)	Coimbatore	20	4000	2.20
15	Mannarai (Tiruppur)	Coimbatore	32	4200	2.71
16	Veerapandi (Tiruppur)	Coimbatore	74	10000	6.75
17	Manickapurampudur (Tiruppur)	Coimbatore	11	1600	1.27

18	Vellimalai	Salem	10	98	0.14
19	Vanavil Nagar	Salem	24	900	0.76
20	Vanna Nagar	Salem	32	1200	0.98
21	Erumappalayam	Salem	27	1017	0.89
22	Gugai	Salem	24	900	0.78

III Under Initial Stages

23	Erode - I	Erode	211	1164	*1.02
24	Erode - II	Erode	191	725	*4.00
25	Bhavani	Erode	62	450	1.06
26	Chennimalai	Erode	81	500	0.95
27	Komarapalayam	Salem	120	600	*1.00

C. HOTELS

1	Kodaikanal	Dindigul	90	820	1.30
---	------------	----------	----	-----	------

D. HOSPITALS

1	Salem	Salem	64	450 kg/hr	0.05
---	-------	-------	----	-----------	------

* To be finalised

11	Kunnampalayam	Coimbatore	19		
12	Anghepalayam	Coimbatore	92		
13	Chinnakalai	Coimbatore	31		
14	Kasipalayam	Coimbatore	20		
15	Mannarai	Coimbatore	32		
16	Veerabandi	Coimbatore	74		
17	Manickapurambur	Coimbatore	11		

ANNEXURE VIII

FUNDS SO FAR RECEIVED FOR THE CETP SCHEMES FROM THE STATE AND

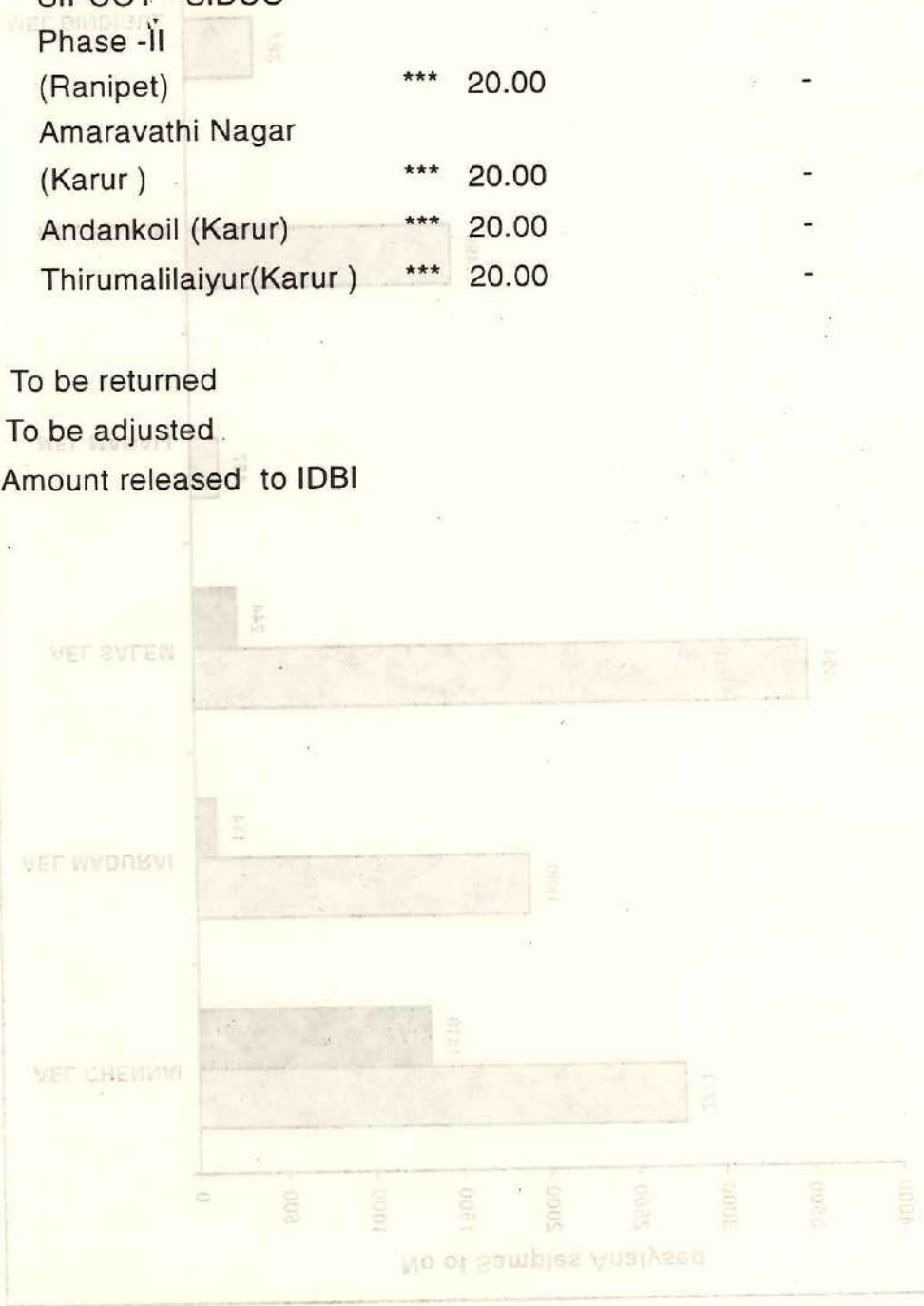
CENTRE BY TNPCB

(a)	(b)	(c)	(d)
SL.NO.	NAME OF CETP	GOVT. OF INDIA	GOVT. OF TAMILNADU
YEAR 1991-92			
1	Pammal/Pallavaram	50.00	50.00
2	Erode (Tanneries)	50.00	50.00
3	Tiruppur	37.50	37.50
4	Ayyampet-Muthialpet	22.50	22.50
YEAR 1992-93			
5	Bhavani	7.50	7.50
6	Erode -I (Dyeing)	15.00	15.00
7	B.P. Agraharam	17.50	17.50
8	Erode -II (Dyeing)	21.14	21.14
	Kasipalayam	17.50	17.50
	Karur	21.14	21.14
YEAR 1995-96			
9	Ranipet - SIDCO	45.00	50.00
10	Visharam	45.00	50.00
11	Bakkalapalli	40.00	40.00
YEAR 1996-97			
12	B.K. Puram	***30.00	48.22
13	Andankoil	***30.00	50.00
14	Amaravathi Nagar	***30.00	50.00
15	Thiruvai	***30.00	50.00
16	SIPCOT- SIDCO Phase -II (Ranipet)	30.00	50.00
17	Valayampet (Vaniyambadi)	***22.50	50.00
18	Kodaikanal	***32.50	32.50
19	Perumalpet	***25.00	50.00
20	Madhavaram- TALCO Industrial Estate	25.00	31.25
21	Melpudupet	***31.25	37.78

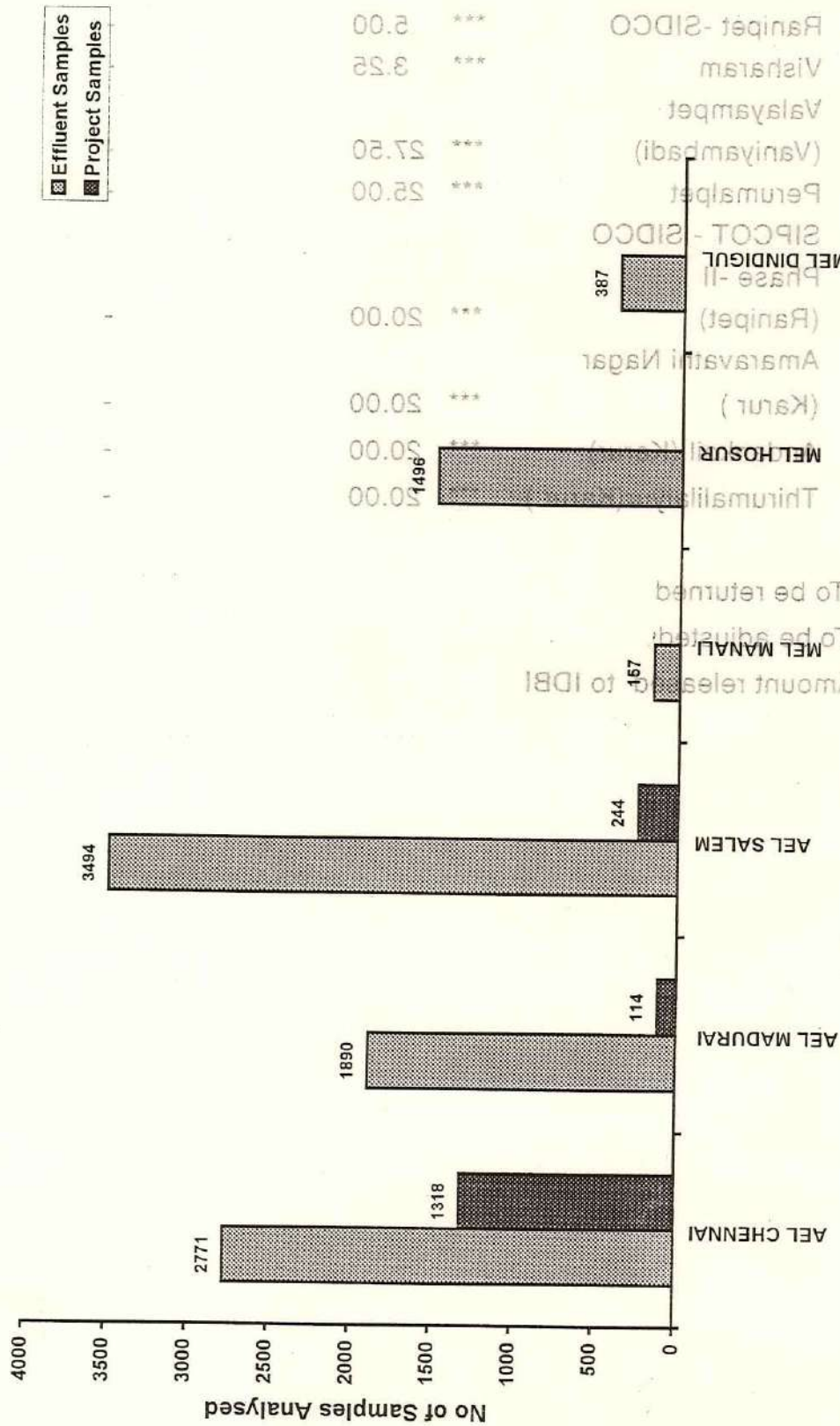
SL.NO.	NAME OF CETP	GOVT. OF INDIA	GOVT. OF TAMILNADU	TOTAL
(1)	(2)	(3)	(4)	(5)
YEAR 1997-98				
22	Ayyampettai - Muthialpettai	***13.00	13.20	26.20
23	Chettithangal	***31.25	34.85	66.10
24	Pernambut (Eruguthi Mullumedu)	-	38.50	38.50
25	Ambur (Mittalam)	-	50.00	50.00
26	Pudur	-	35.50	35.50
27	Maligaihope	-	50.00	50.00
28	M.C. Road	-	50.00	50.00
29	Tarawali	-	50.00	50.00
30	Gundur	-	50.00	50.00
31	Ramji Nagar	-	15.00	15.00
32	Andipalayam (Tiruppur)	-	50.00	50.00
33	Mannarai(Tiruppur)	-	50.00	50.00
34	Manickapurampudur (Tiruppur)	-	31.75	31.75
35	Kasipalayam (Tiruppur)	20.00	50.00	70.00
36	Angeripalayam (Tiruppur)	-	50.00	50.00
37	Veerapandi (Tiruppur)	-	12.50	12.50
38	Chinnakarai (Tiruppur)	20.00	50.00	70.00
39	Kunnangalpalayam (Tiruppur)	-	50.00	50.00
40	Light House (Karur - IV)	***12.50	7.37	19.87
41	Sukkaliyur (Karur - VI)	-	42.13	42.13
42	Sellandipalayam (Karur - VII)	-	50.00	50.00
43	Karuppampalayam (Karur - VIII)	-	27.00	27.00
44	Melpudupet	***31.25	-	31.25

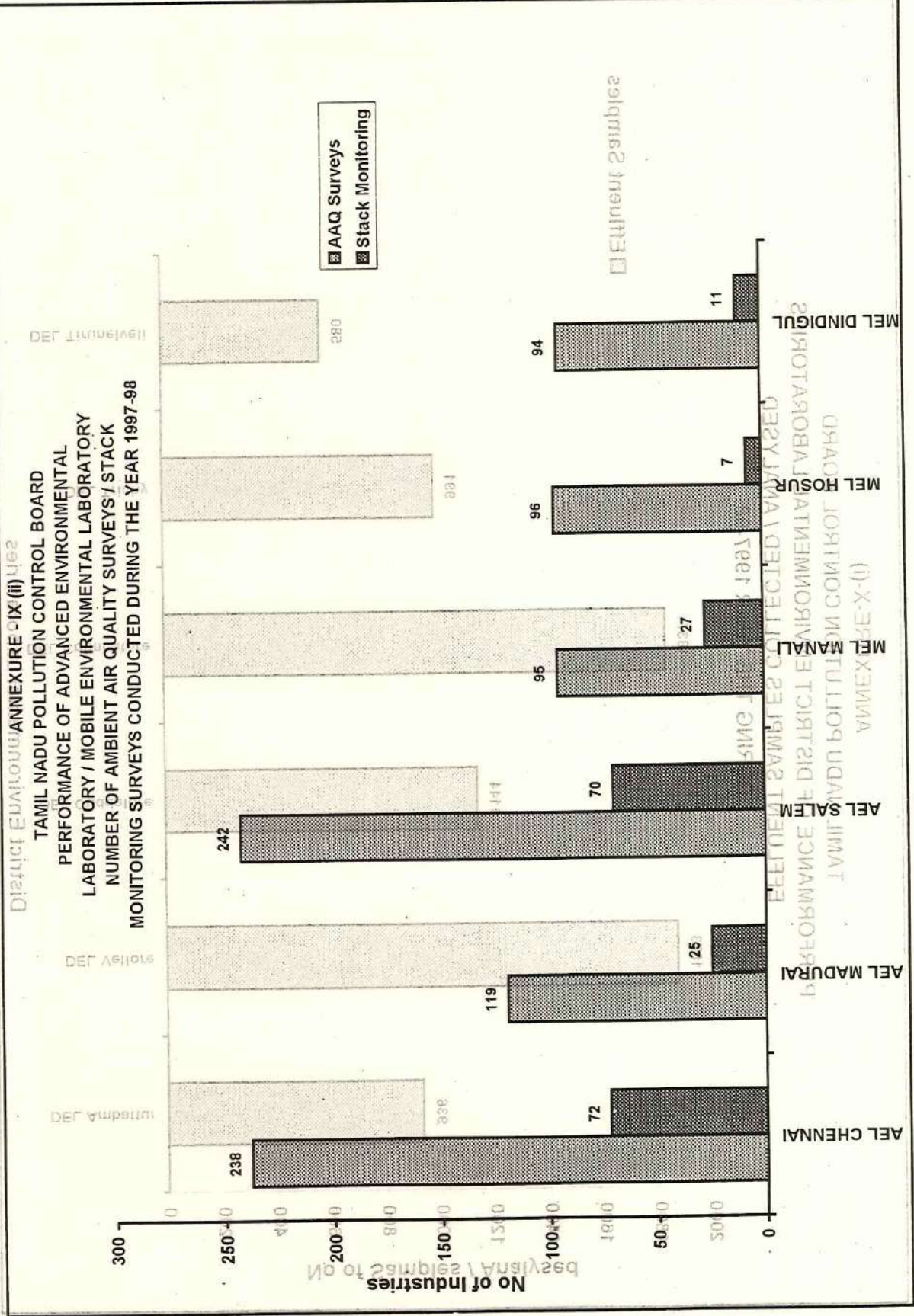
45	R.K. Puram (Karur-I)	***	18.25	-	18.25
46	Ranipet -SIDCO	***	5.00	-	5.00
47	Visharam	***	3.25	-	3.25
48	Valayampet (Vaniyambadi)	***	27.50	-	27.50
49	Perumalpet	***	25.00	-	25.00
50	SIPCOT - SIDCO Phase -II (Ranipet)	***	20.00	-	20.00
51	Amaravathi Nagar (Karur)	***	20.00	-	20.00
52	Andankoil (Karur)	***	20.00	-	20.00
53	Thirumalilaiyur(Karur)	***	20.00	-	20.00

* To be returned
 ** To be adjusted.
 *** Amount released to IDBI

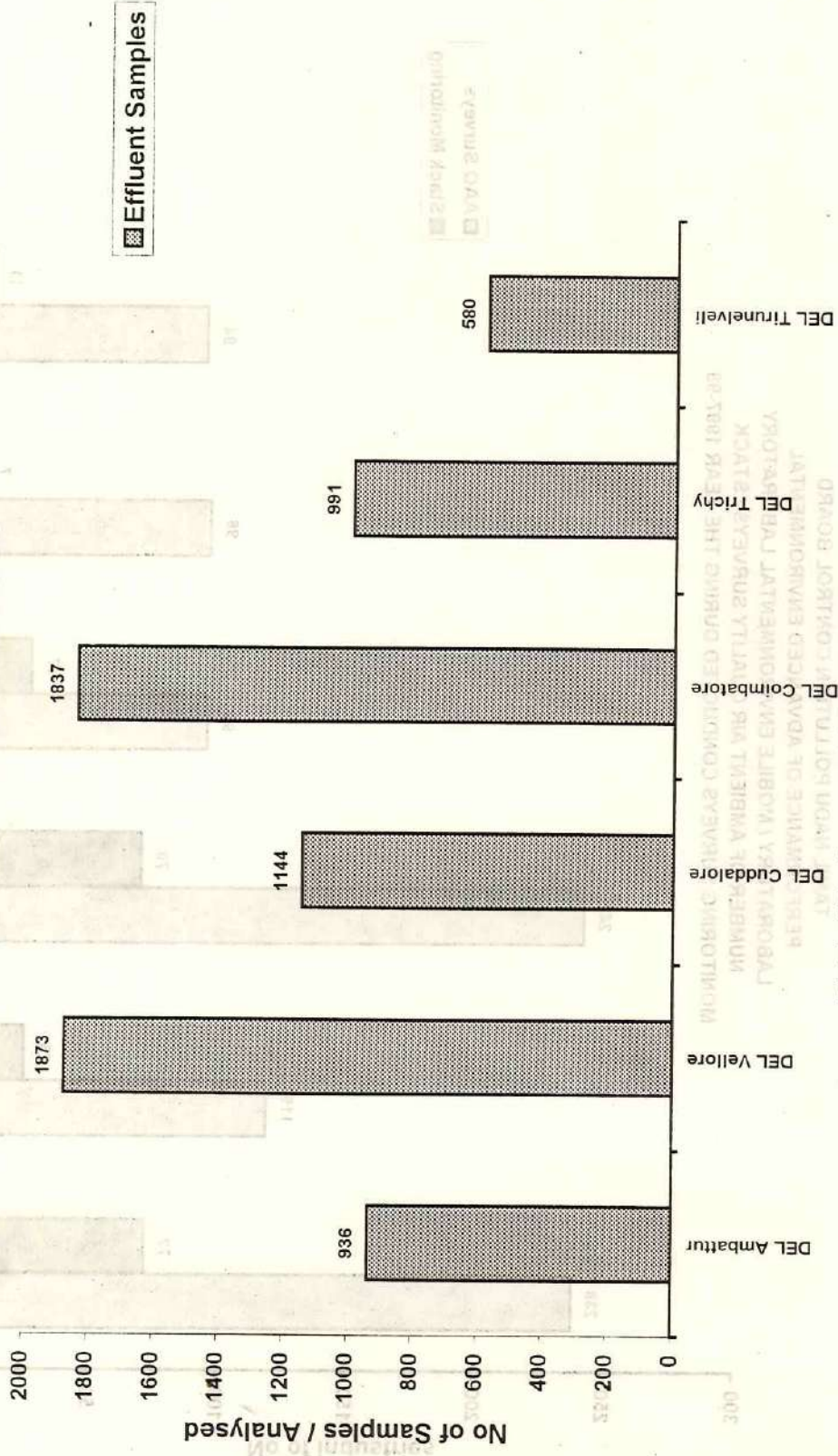


ANNEXURE-IX(i)
TAMIL NADU POLLUTION CONTROL BOARD
PERFORMANCE OF AEL/MEL/EFFLUENT/PROJECTS-SAMPLES
ANALYSED DURING THE YEAR 1997-98

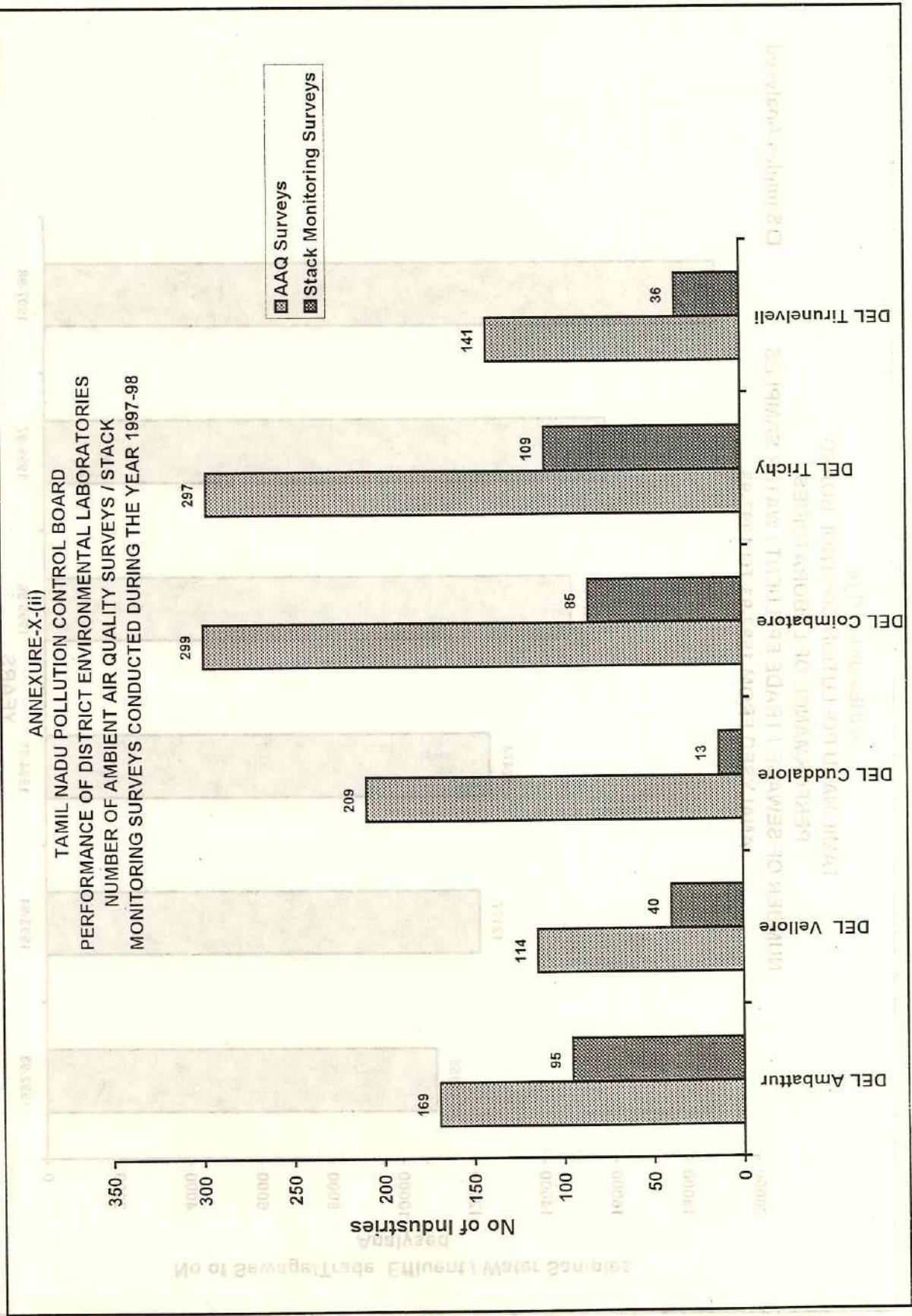




ANNEXURE-X-(i)
 TAMIL NADU POLLUTION CONTROL BOARD
 PERFORMANCE OF DISTRICT ENVIRONMENTAL LABORATORIES
 EFFLUENT SAMPLES COLLECTED / ANALYSED
 DURING THE YEAR 1997-98

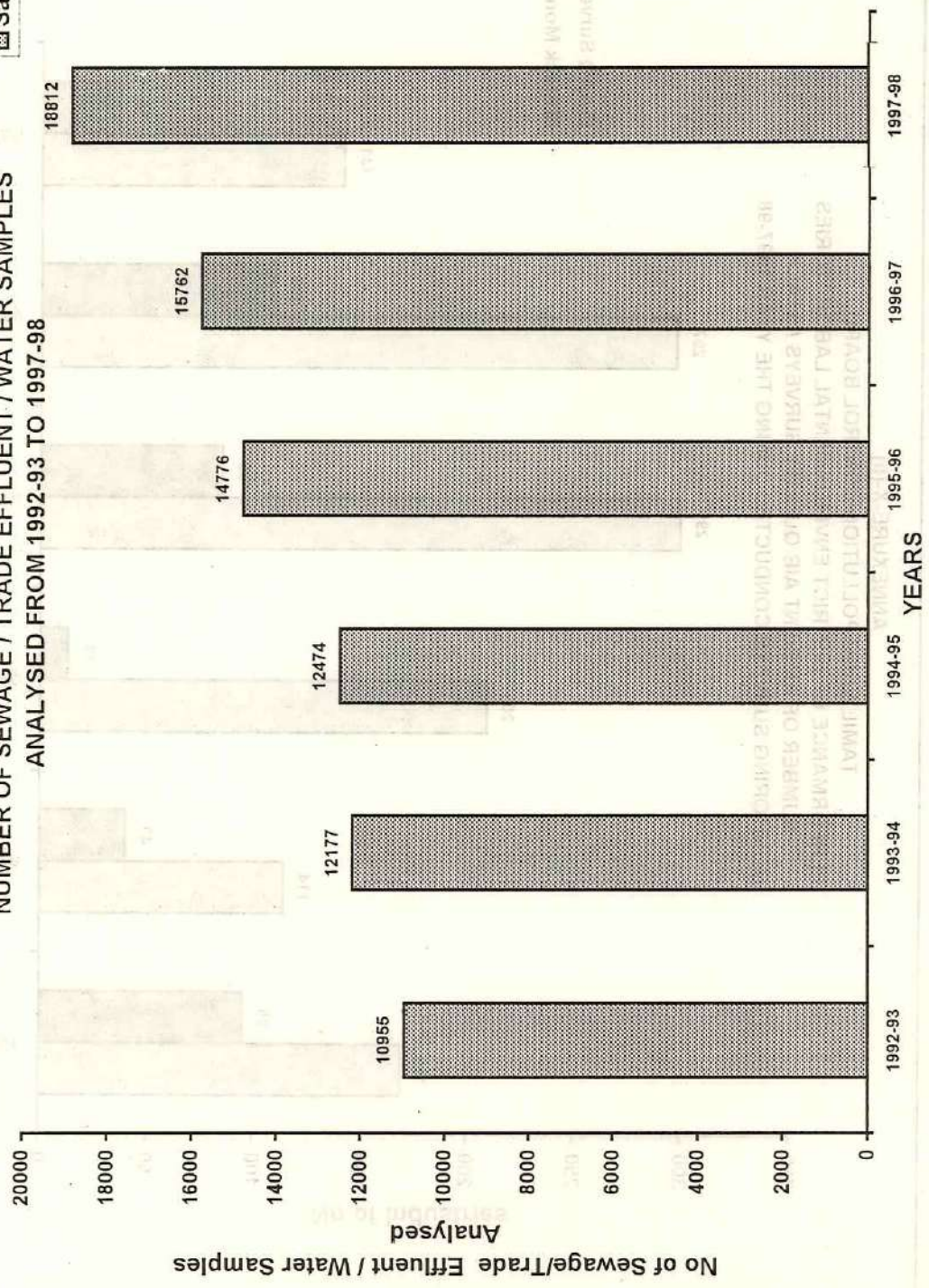


ANNEXURE-X-(ii)
 TAMIL NADU POLLUTION CONTROL BOARD
 PERFORMANCE OF DISTRICT ENVIRONMENTAL LABORATORIES
 NUMBER OF AMBIENT AIR QUALITY SURVEYS / STACK
 MONITORING SURVEYS CONDUCTED DURING THE YEAR 1997-98

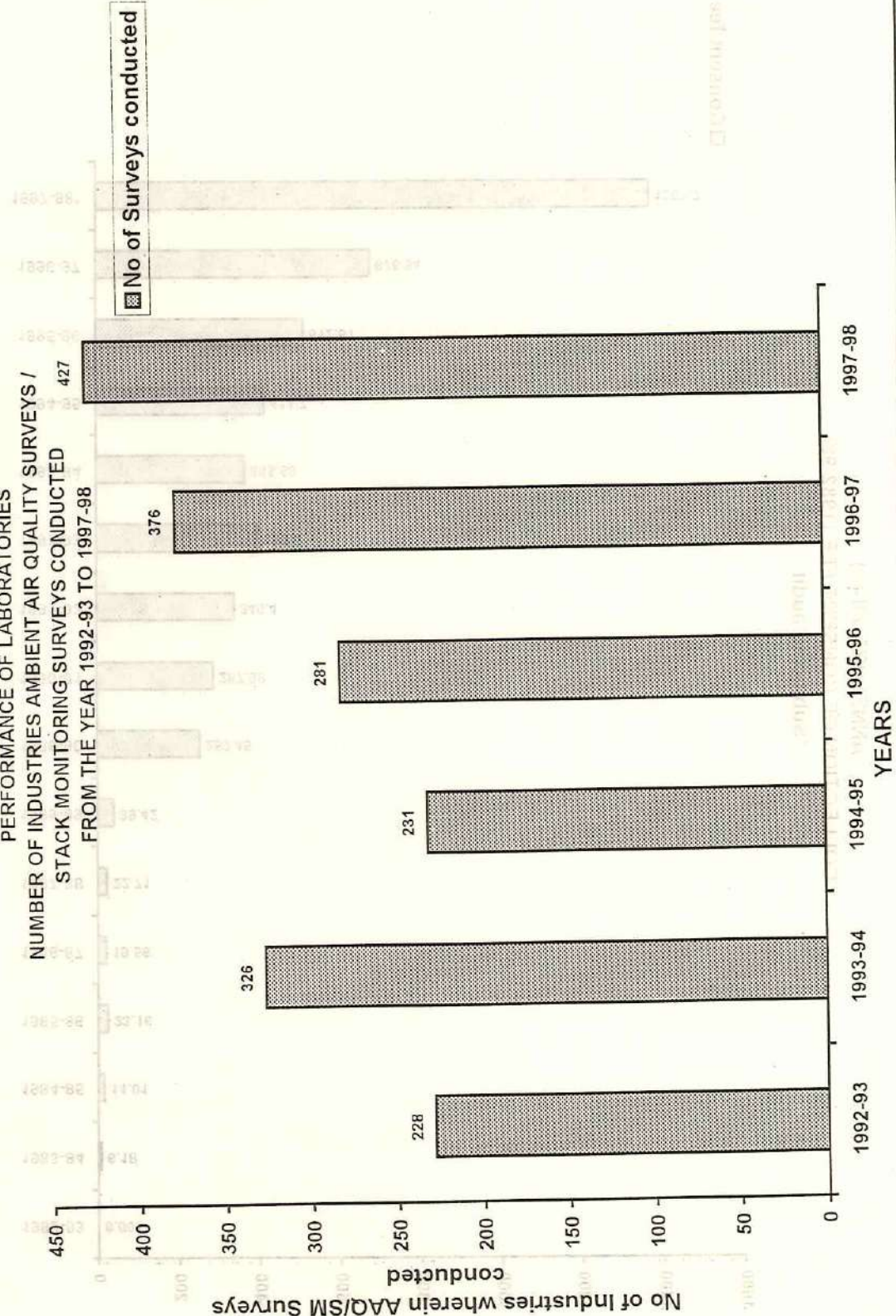


ANNEXURE - XI (i)
 TAMIL NADU POLLUTION CONTROL BOARD
 PERFORMANCE OF LABORATORIES
 NUMBER OF SEWAGE / TRADE EFFLUENT / WATER SAMPLES
 ANALYSED FROM 1992-93 TO 1997-98

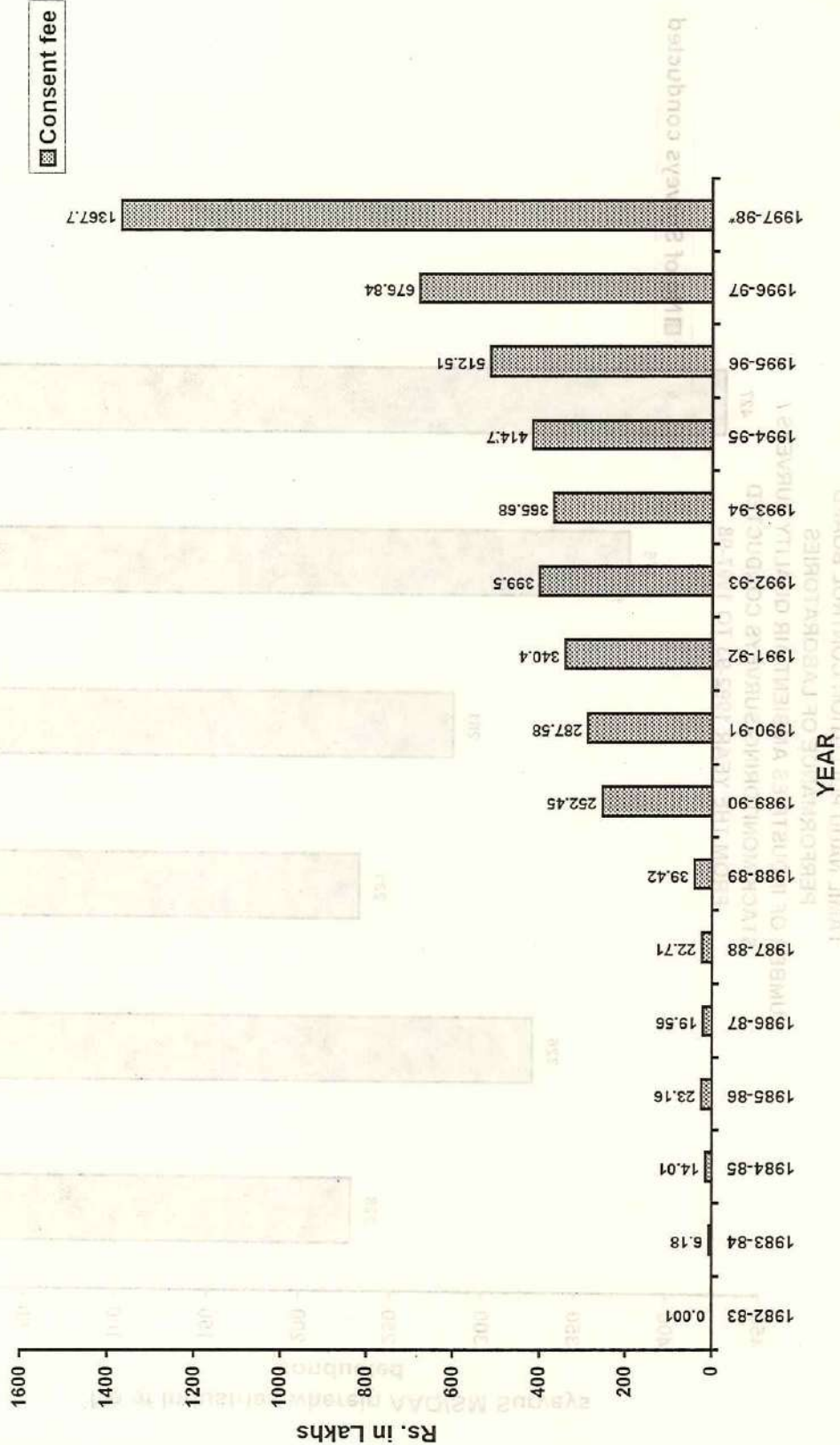
■ Samples Analysed



ANNEXURE XI - (ii)
 TAMIL NADU POLLUTION CONTROL BOARD
 PERFORMANCE OF LABORATORIES
 NUMBER OF INDUSTRIES AMBIENT AIR QUALITY SURVEYS /
 STACK MONITORING SURVEYS CONDUCTED
 FROM THE YEAR 1992-93 TO 1997-98

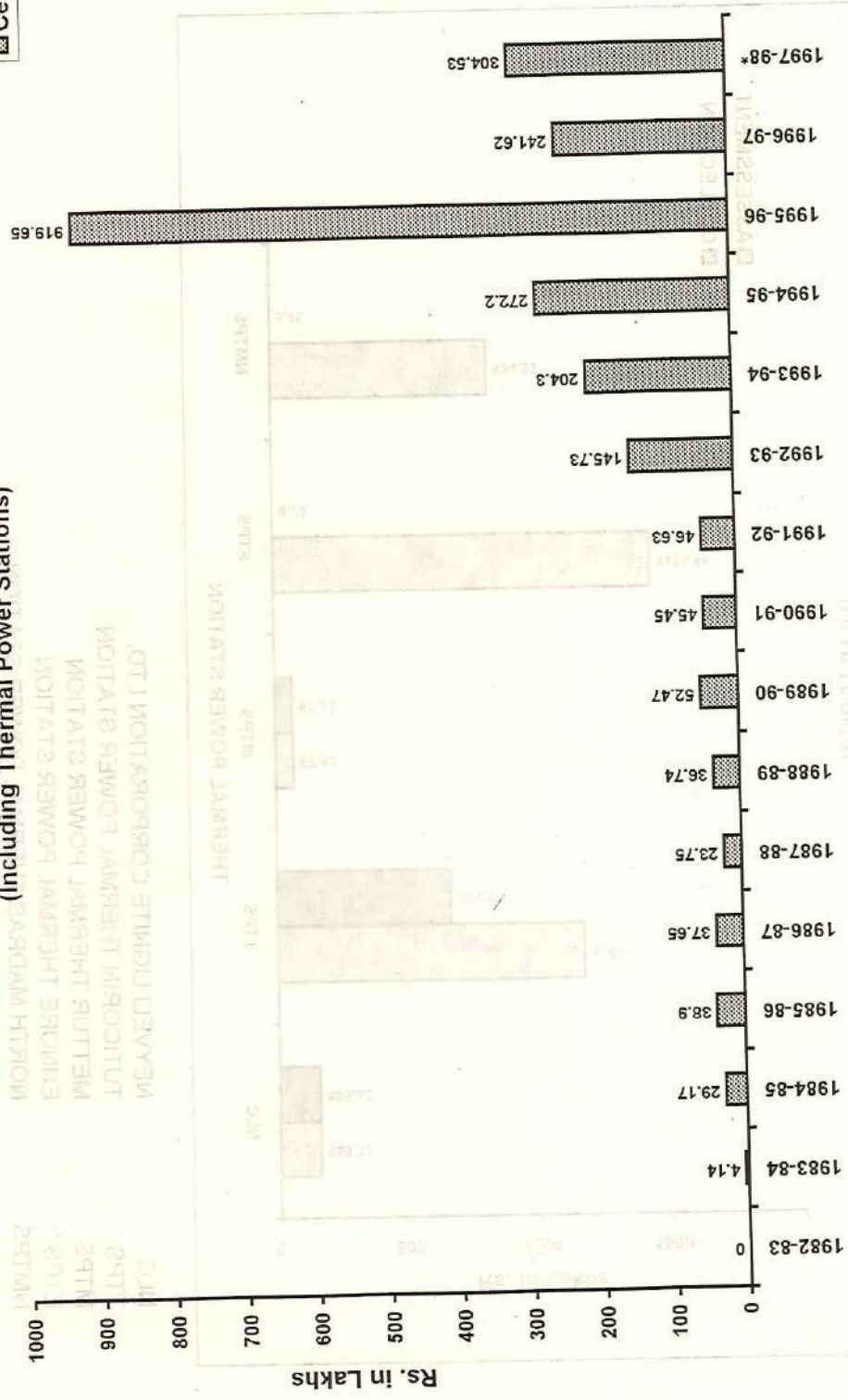


ANNEXURE-XII-(A)
COLLECTION OF CONSENT FEE (1982-98)
 *Subject to audit



**ANNEXURE-XII-(B)
COLLECTION OF CESS (1982-88)
(Including Thermal Power Stations)**

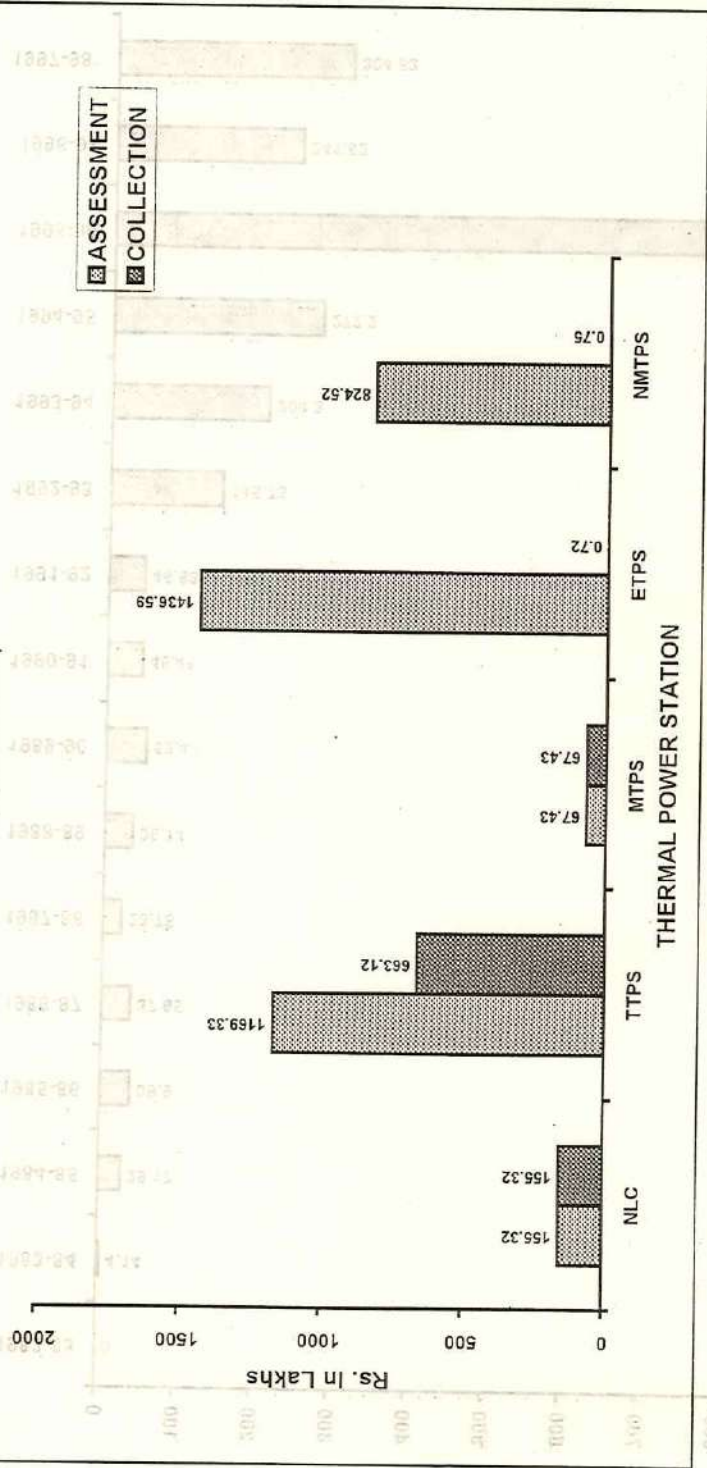
■ Cess



*Subject to Audit

YEAR

ANNEXURE - XII - (C)
 CESS DETAILS FROM THERMAL POWER STATION
 (Upto 31-03-98)



NLC
 TTPS
 MTPS
 ETPS
 NMTPS

NEYVELI LIGNITE CORPORATION LTD.
 TUTICORIN THERMAL POWER STATION
 METTUR THERMAL POWER STATION
 ENNORE THERMAL POWER STATION
 NORTH MADRAS THERMAL POWER STATION

**ANNUAL ACCOUNTS FOR THE YEAR
1997-98**

**TAMILNADU POLLUTION CONTROL BOARD
CHENNAI - 600 032.**

**RECEIPTS AND PAYMENTS ACCOUNT
FOR THE YEAR ENDED 31st MARCH 1998** 148 To 151

We have Audited the attached Balance Sheet as at 31st March 1998 of the Tamil Nadu Pollution Control Board and also the Receipts and Payments Account and the Income & Expenditure Account for the year ended 31st March 1998 signed by us this even date and have to report there on as follows:

We have obtained all information and explanation which to the best of our knowledge and belief, were necessary for the purposes of our audit.

In our opinion, proper books of account have been kept by the Board, so far as appears from our examination of such books.

**INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED 31st MARCH 1998** 152 To 153

The attached Income and Expenditure Account which are set out as provided in Rule 32 of the Tamil Nadu Water (Prevention and Control of Pollution) rules, 1983 and dealt with in this report are in agreement with the books of account maintained by the Board.

It is noted that demands regarding Consent fees are raised on the basis of fixed Asset values as declared by the applicant in many cases. It was observed that no indication or note was available at Board Office indicating the basis of the levy as to whether fees has been computed on the value of assets indicated by Audited Balance Sheet values, certificates or the Board's Equipments as the case may be.

**BALANCE SHEET
AS AT 31st MARCH 1998** 154 To 157

It was observed that no interest is levied in regard to delayed payments of cess. As information in this regard is not available at Board Office, clarification has not been sought.

The Board does not have a formal Internal Audit System.

P.S. SUBRAMANIA IYER & CO
CHARTERED ACCOUNTANTS
109/2 ST.MARY'S ROAD
CHENNAI-600018.

AUDITOR'S REPORT
ON THE ACCOUNTS OF THE TAMIL NADU POLLUTION CONTROL BOARD FOR THE YEAR ENDED 31'ST MARCH 1998.

We have Audited the attached Balance Sheet as at 31st March 1998 of the Tamil Nadu Pollution Control Board and also the Receipts and Payments Accounts and the Income & Expenditure Account for the year ended 31st March 1998, signed by us this even date and have to report there on as under:-

- a) We have obtained all information and explanation which to the best of our knowledge and belief, were necessary for the purposes of our audit.
- b) In our opinion, proper books of account have been kept by the Board, so far as appears from our examination of such books.
- c) The attached Balance Sheet, Receipts and Payments account and Income & Expenditure account which are set out as provided in Rule 36 of the TamilNadu Water (Prevention and Control of Pollution) rules , 1983 and dealt with in this report are in agreement with the books of account maintained by the Board.
- d) It is noted that demands regarding "Consent fees" are raised on the basis of fixed Asset values as declared by the applicants in many cases. It was observed that no indication or note was available at Board Office indicating the basis of the levy as to whether fees has been computed on the value of assests indicated by Audited Balance Sheet, valuers' certificates or the Board's Equipments as the case may be.
- e) It was observed that no interest is levied in regard to delayed payments of cess. As information in this regard is with Unit Offices, quantification has not been possible.
- f) The Board does not have a formal Internal Audit System.

g) In our opinion and to the best of our information and according to explanations given to us, the said accounts, read with the Schedules thereto and the notes thereon attached hereto and subject to the remarks contained in para (d) to (f) above and subject to Notes (2) to (5) regarding Cess Receivable, Advance for purchase of land, Advance to suppliers / staff and funds in transit 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:

- (i) In the case of the Balance Sheet, of the State of affairs of the Board as 31st March 1998.
- (ii) In the case of Receipts and Payments account, of the total receipts and payments of the Board for the year ended 31st March 1998, and
- (iii) In the case of the Income and Expenditure account of the excess of Income over Expenditure of the Board for the Year ended 31st March 1998.

For P.S. SUBRAMANIA IYER & CO.,
Chartered Accountants

Chennai,
31 December 1998.

Sd /- G.HARIHARAN
Partner

TAMIL NADU POLLUTION CONTROL

Receipts and Payments for the year

See Rules 36 of the Tamil Nadu Water

PREVIOUS YEAR	RECEIPTS	TOTAL OF SUB HEAD	TOTAL OF MAJOR HEADS
Rs. P.		Rs. P.	Rs. P.
	OPENING BALANCE		(i)
1,01,03,683.78	Bank	1,55,39,180.58	
13,392.15	Cash	24,530.00	(ii)
12,19,203.72	Funds in Transit	48,34,624.67	
			2,03,98,335.25
	I. GRANTS RECEIVED		
80,00,000.00	a. From Government		---
	b. From other Agencies		---
	II. FEES		
	a. Consultant Registration Fees	---	---
9,47,415.00	b. Cost of Applications	9,09,890.00	
6,76,84,545.00	c. Consent Fees	12,18,49,886.00	
2,41,62,722.29	d. Cess Collection	3,07,99,727.58	
			15,35,59,503.58
1,58,63,008.47	III. INTEREST ON INVESTMENT		3,01,67,085.00
	IV. MISCELLANEOUS RECEIPTS		
1,32,84,591.66	a. Others (Schedule-A)	1,63,40,542.63	
4,54,69,896.00	b. Cess Reimbursement	99,51,547.00	
			2,62,92,089.63
18,67,48,458.07	C/o		23,04,17,013.46

TAMIL NADU POLLUTION CONTROL

Receipts and Payments for the year

See Rules 36 of the Tamil Nadu Water

PREVIOUS YEAR	RECEIPTS	TOTAL OF SUB HEAD	TOTAL OF MAJOR HEAD.
Rs. P.		Rs.. P.	Rs. P.
18,67,48,458.07	B/F		23,04,17,013.46
	V. DEPOSITS & ADVANCES		
7,75,150.00	i. EMD Received	2,41,850.00	
3,12,742.00	ii. Security Deposit	29,188.00	
4,40,898.75	iii. Advance to staff (Schedule - B)	6,58,012.15	
29,21,86,823.00	iv. Short Term Deposit	16,61,65,010.00	
1,01,000.00	v. Refundable Performance Guarantee deposit	5,55,000.00	
			16,76,49,060.15
7,94,70,745.60	VI. OTHERS (Schedule - E (I))		11,34,85,889.00
56,00,35,817.42	Total		51,15,51,962.61

Chennai - 600 032
31.12.98

Sd/- D. KANNAN
Deputy Director
(F & A)

Sd/- K.P.BHANUMATHI
Fin. Adviser

Sd/- G.RENGASAMY
Member Secretary

BOARD, CHENNAI - 600 032

Ended 31st March 1998.

(Prevention and Control of Pollution) Rules 1983.

PREVIOUS YEAR		PAYMENTS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEAD	
Rs.	P.		Rs.	P.	Rs.	P.
5,24,02,872.34		B/F			5,59,96,651.40	
25,59,685.90		C. RUNNING AND MAINTENANCE OF VEHICLE			28,16,572.35	
		D. MAINTENANCE AND REPAIRS				
		i. Building and Land	8,39,535.90			
32,77,501.20		(including Rent if any, repairs and Maintenance of Building Rent)	41,25,252.00			
	588.00	ii. Furniture & Fixtures	6,081.00			
1,80,829.45		iii. Scientific instruments	3,24,803.05			
3,11,467.50		iv. Office Appliances	4,89,817.10			
1,73,896.25		v. Electrical Installation	3,10,426.80			
2,63,156.00		vi. Insurance of Assets	2,63,835.00			
					63,59,750.85	
1,02,087.30		E. Fees to consultant and Specialists			5,88,029.00	
4,23,977.00		F. Law Charges			4,48,018.00	
1,06,98,442.55		G. Miscellaneous			1,70,08,965.95	
26,441.00		H. Expenses for audit			28,700.00	
		III. MISCELLANEOUS				
2,42,15,937.74		a. Cess Remittance			2,95,93,082.00	
36,85,934.25		IV. ADVANCE E (SCHEDULE - D)			39,25,523.35	
		V. Deposits				
38,38,09,210.00		a. Short Term Deposit	24,43,80,914.00			
5,75,05,455.69		b. Others (Schedule - E)	8,71,04,991.25			
					33,14,85,905.25	
		VI. CLOSING BALANCE				
1,55,39,180.58		Cash at Bank	5,81,40,430.96			
24,530.00		Cash on Hand	13,935.50			
48,34,624.67		Fund in Transit	51,46,398.00			
					6,33,00,764.46	
56,00,35,817.42		Total			51,15,51,962.61	

Sd/- M. DEVARAJ I.A.S.
Chairman

Subject to our report of Even date & Schedules + notes attached
For M/s. P.S. Subramania Iyer & co., Chartered Accountants
Sd/ G. HARIHARAN
Partner

ANNUAL STATEMENT

Income and Expenditure Account for

See Rules 36 of the Tamil Nadu Water

PREVIOUS YEAR		EXPENDITURE	TOTAL OF SUB HEAD	TOTAL OF MAJOR HEAD
Rs.	P.		Rs.. P.	Rs. P.
		REVENUE EXPENDITURE		
		A. ADMINISTRATIVE		
9,52,005.00		i. Pay of Officers	10,71,637.70	
1,18,99,632.85		ii. Pay of Establishment	1,32,41,968.55	
3,14,50,129.30		iii. Allowances and Honororia (Sch. F)	3,91,85,238.66	
45,58,092.00		iv. Contribution to Gratuity & Pension provision for Pension	82,12,260.00	
15,08,149.50		v. Surrender Leave Salary	15,16,187.90	
				6,32,27,292.81
11,97,807.58		B. Running Expenses of Laboratories		11,54,998.64
27,77,182.90		C. Running and Maintenance of Vehicles (Sch. G)		30,55,806.76
		D. Maintenance and Repairs		
2,727.00		i. Furniture & Fixtures	10,655.00	
5,03,986.85		ii. Scientific Instrument office Appliances	4,02,287.90	
			5,12,544.40	
1,52,839.75		iii. Electrical Installation	3,98,159.65	
11,15,929.75		iv. R.M. of Building	8,02,528.05	
				21,26,175.00
1,28,468.30		E. Fees to Consultants and Specialists		3,70,529.00
4,44,105.00		F. Law Charges		4,70,250.00
2,36,39,960.79		G. Depreciations (Form XV)		1,02,74,595.00
1,16,28,133.27		H. Miscellaneous (Sch. H)		1,65,78,877.91
31,047.00		I. Fees for audit	-	13,670.00
6,35,21,847.57		J. Excess of Income over expenditure		13,29,28,633.56
		K. Note to B/s. (Sch. S)		
15,55,12,044.41		Total		23,02,00,828.68

Chennai - 600 032
31.12.98

Sd/- D. KANNAN
Deputy Director
(F & A)

Sd/- K.P.BHANUMATHI
Fin. Adviser

Sd/- G.RENGASAMY
Member Secretary

OF ACCOUNT

the year ended 31st March 1998.

(Prevention and Control of Pollution) Rules 1983.

PREVIOUS YEAR		INCOME	TOTAL OF SUB HEAD	TOTAL OF MAJOR HEAD
Rs.	P		Rs.	P.
		I. GRANTS RECEIVED		
80,00,000.00		a. From Government	---	
---		b. From other Agencies	---	
		Total	---	
80,00,000.00		Less: Amount utilised for		
80,00,000.00		Capital Expenditure /		
		Net Grant available for		
		Revenue Expenditure		
7,59,31,040.00		II. Fees (Sch.I)		13,77,21,998.60
1,19,96,005.00		III. Services & Rental Charges (Lab Analysis Charges Sch.J)		1,96,30,499.25
		IV. Miscellaneous Receipts		
19,18,565.10		i. Others (Sch.K)	4,65,872.89	
4,54,69,896.00		ii. Cess Reimbursement	99,51,547.00	
---				1,04,17,419.89
2,01,96,538.31		V. Interest on Investment		5,81,69,140.31
		VI. Prior period adjustment (Sch. L)		42,61,770.63
		Total		23,02,00,828.68
15,55,12,044.41				

Sd/- M. DEVARAJ I.A.S.
Chairman

Subject to our report of Even date & Schedules + notes attached
For M/s. P.S. Subramania Iyer & co., Chartered Accountants

Sd/ G. HARIHARAN
Partner

ANNUAL STATEMENT

Balance Sheet as

See Rules 36 of the Tamil Nadu Water

PREVIOUS YEAR	LABILITIES	TOTAL OF SUB HEAD	TOTAL OF MAJOR HEAD
Rs. P.		Rs. P.	Rs. P.
	A. CAPITAL FUND		
	a. GRANTS		
4,25,26,922.18	i. Grants received from Government for Capital Expenditure as on 1.4.97.	5,05,26,922.18	
80,00,000.00	ii. Grants received from Government for Capital Expenditure during the current year and utilised upto 31.3.98.		
—	iii. Grants received towards specific schemes from other agencies.		
<u>5,05,26,922.18</u>			5,05,26,922.18
	b. Excess of Income over Expenditure		
22,29,52,214.22	i. As at 01.04.97	26,32,73,647.00	
4,39,546.00	ii. ADD: Prior Period Adjustment	----	
<u>6,35,21,847.57</u>	iii. Add: Surplus during the year	13,29,28,633.56	
28,69,13,607.79		<u>39,62,02,280.56</u>	
2,36,39,960.79	iv. Less: Amount transferred to Depreciation Fund	2,03,58,710.00	
<u>26,32,73,647.00</u>			37,58,43,570.56
5,46,53,199.16	C. Depreciation fund		7,50,11,909.16
	B. OTHER DEPOSITS		
26,50,996.83	i. Deposits for supply & Works (Sch. M)	24,62,786.83	
4,52,71,857.05	ii. Refundable Performance Guarantee Deposits	4,49,44,782.05	
			<u>4,74,07,568.88</u>
	C. AMOUNT DUE		
21,04,85,921.19	i. Cess Payable	35,11,68,480.54	
1,68,84,683.79	ii. Others (Sch.N)	2,40,26,624.89	
<u>64,37,47,227.20</u>	C/o		<u>37,51,95,105.43</u>
			<u>92,39,85,076.21</u>

OF ACCOUNT

at 31st March 1998.

(Prevention and Control of Pollution) rules 1983.

PREVIOUS YEAR		ASSETS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEAD	
Rs.	P.		Rs..	P.	Rs.	P.
		I. Fixed Assets				
82,86,224.65		a. Land Development	82,86,224.65			
		b. Building under Construction				
5,00,000.00		i. Guindy	52,35,162.25			
46,49,292.00		ii. Ambattur	55,56,760.00			
		iii. Madurai	10,20,000.00			
					2,00,98,146.90	
		II. Other Assets				
6,39,76,716.41		a. As per Form XV	6,45,46,060.17			
		b. Stock in hand				
9,24,603.53		i. Lab Chemicals	7,55,006.22			
13,69,075.93		ii. Glassware	12,35,721.36			
2,45,374.92		iii. Misc. Stores	2,00,734.05			
4,62,391.21		iv. Filter Paper	3,78,208.62			
					6,71,15,730.42	
92,23,288.71		III. Schemes				5,57,524.00
12,000.00		IV. software Development				56,995.00
		V. Sundry Debtors				
		Cess Receivable				
13,28,38,193.91		a. From Industries	27,02,57,933.72			
7,83,21,696.96		b. From Local Bodies	8,37,49,795.45			
			35,40,07,729.17			
11,67,489.00		Less: Provision for doubtful	45,53,110.53			
		Debts				
					34,94,54,618.64	
29,96,41,369.23		C/o			43,72,83,014.96	

ANNUAL STATEMENT

Balance Sheet as

See Rules 36 of the Tamil Nadu Water

PREVIOUS YEAR	LIABILITIES	TOTAL OF SUB HEAD	TOTAL OF MAJOR HEAD
Rs. P.		Rs. P.	Rs. P.
64,37,47,227.20	B/F		92,39,85,076.21
99,956.98	D.Environmental Impact Study	—	99,956.98
1,98,04,943.53	E. Income received in advance (Sch.O)	—	1,81,50,642.93
4,03,06,000.00	F. Subsidies for common Effluent treatment plants	—	6,14,87,000.00
11,71,194.69	G.Environmental Education Fund Reserve		11,70,608.69
5,00,000.00	H.Emergency response centre	—	5,00,000.00
<hr/> 70,56,29,322.40	Total		<hr/> 1,00,53,93,284.81

Chennai - 600 032
31.12.98

Sd/- D. KANNAN
Deputy Director
(F & A)

Sd/- K.P.BHANUMATHI
Fin. Adviser

Sd/- G.RENGASAMY
Member Secretary

OF ACCOUNT

at 31st March 1998.

(Prevention and Control of Pollution) rules 1983.

PREVIOUS YEAR		ASSETS	TOTAL OF SUB HEAD		TOTAL OF MAJOR HEAD	
Rs.	P.		Rs.	P.	Rs.	P.
29,96,41,369.23		B/F			43,72,83,014.96	
		VI. Advances and deposits				
2,93,09,859.26		a. Misc. Amounts recoverable (Sch. P)	4,51,13,606.22			
36,94,714.26		b. Others Amount recoverable (Sch. Q)	49,20,408.77			
13,39,668.40		c. Deposits (Sch. R)	13,85,646.40			
76,30,000.00		P.G.D.				
					5,14,19,661.39	
		VII. Cash				
		a. Deposits				
33,57,46,376.00		i. Term Deposits with Banks			45,33,89,844.00	
78,69,000.00		ii. Term Deposit with T.T.D.F.C			—	
1,55,39,180.58		b. Cash at Bank	5,81,40,430.96			
24,530.00		c. Cash in Hand	13,935.50			
48,34,624.67		d. Cash in transit	51,46,398.00			
					6,33,00,764.46	
		Total			1,00,53,93,284.81	
70,56,29,322.40						

Sd/- M. DEVARAJ I.A.S.
Chairman

Subject to our report of Even date & Schedules + notes attached
For M/s. P.S. Subramania Iyer & co., Chartered Accountants
Sd/ G. HARIHARAN
Partner

TAMIL NADU POLLUTION CONTROL BOARD
FORM - XV

ANNUAL STATEMENT OF ACCOUNTS FIXED ASSETS AS ON 31 St MARCH 1998
(Item - 2 of Assets of Balance sheet other assets as on 31 st march 1998)
(See Rule 36 of Tamil nadu Water (P&CP) rules 1983 - Item - 3 Assets of the Balance sheet)

Sl. No	Particulars of Assets	Percentage	Opening Balance on 01-04-97	Additions during year and sales adjustments	Total	Depreciation	Closing Balance as on 31-03-98	Cumulative Depreciation as on 31-03-98
01	Building	10%	5,03,62,332.16	18,000.00	5,03,80,332.16	50,38,033.00	4,53,42,299.16	2,57,75,329.99
02	Library Books	10%	9,21,096.90	4,19,254.00	13,40,350.90	1,34,035.00	12,06,315.90	7,32,500.13
03	Vehicles	33.33%	9,27,639.70	9,75,614.00	19,03,253.70	6,34,354.00	12,68,899.70	75,44,347.51
04	Furniture & Fixtures	10%	39,57,710.60	5,69,020.85	45,26,731.45	4,52,673.00	40,74,058.45	40,69,450.88
05	Office Appliances	10%	48,51,463.70	*4,02,193.00	52,53,656.70	*5,61,063.00	46,92,593.70	29,30,477.44
06	Lab Equipments	33.33%	25,84,727.90	*1,84,06,322.91	2,09,91,050.81	*1,34,62,143.00	75,28,907.81	3,29,68,114.05
07	Electrical Instalations	15%	3,71,745.45	1,37,649.00	5,09,394.45	76,409.00	4,32,985.45	9,91,689.16
			6,39,76,716.41	2,09,28,053.76	8,49,04,770.17	2,03,58,710.00	6,45,46,060.17	7,50,11,909.16

*Depreciation includes Rs.1,00,84,115 being depreciation provided for assets relating to earlier years capitalised during the year amounting to Rs.1,08,51,299.91

Sd /- D.KANNAN
Deputy Director
(F&A)

Sd /- K.P.BHANUMATHI
Financial Advisor

Sd /- G.RENGASAMY
Member Secretary

Sd /- M.DEVARAJ, I.A.S
Chairman

Subject to our report of Even date &
Schedule notes attached
For M/S. P.S.Subramania Iyer & Co.,
Chartered Accountant
Sd/- G.HARIHARAN
Partner

Chennai 600 032.
Dated 31-12-1998.

SCHEDULE OF RECEIPTS AND PAYMENTS ACCOUNT

SCHEDULE - A

MISCELLANEOUS RECEIPTS

SL.NO.	DESCRIPTION	RS. P.
1.	Analysis Charges (Fees)	73,24,598.00
2.	Cess Appeal Fee	1,420.00
3.	Interest Income	2,946.69
4.	Miscellaneous Income	3,26,836.04
5.	MINAR	9,25,345.00
6.	VEM Test Fees	5,80,580.00
7.	Enlistment Fees	2,500.00
8.	A.A.Q.S	57,66,239.00
9.	Sale of legal Books	6,960.00
10.	Rent (Corporate Office)	1,55,024.00
11.	Interest on PGD	25,014.00
12.	GEM	1,39,520.00
13.	Furniture and Fixture	243.15
14.	Schemes	3,00,000.00
15.	ETI	3,31,745.75
16.	Others	6,000.00
17.	NAAQM	4,34,360.00
18.	Interest on Loans / Advance	11,211.00
	Total	<u>1,63,40,542.63</u>

SCHEDULE OF RECEIPTS AND PAYMENTS ACCOUNT

SCHEDULE - B

ADVANCE TO STAFF (Receipts)

SL.NO.	DESCRIPTION	RS. P.
1.	Pay Advance	5,480.00
2.	Temporary Advance	1,87,943.30
3.	L.T.C. Advance	1,400.00
4.	Vehicle Advance	3,350.00
5.	Imprest to staff	7,220.35
6.	Tour Advance	1,14,253.60
7.	Festival Advance	1,400.00
8.	Cycle Advance	4,681.00
9.	Marriage Advance	498.00
10.	Handloom Advance	2,550.00
11.	Surrender Leave Salary	42,666.00
12.	Bonus	2,000.00
13.	Fuel	2,390.70
14.	R & M of Furniture & Fixtures	4,491.00
15.	Telephone & Telex	10,547.30
16.	Electricity and Water Charges	2,03,297.70
17.	Staff Welfare Expenses	8,669.00
18.	Newspapers and periodicals	7,489.90
19.	Land Maintenance Expenses	30,130.30
20.	Trade Fair	2,522.00
21.	PRL	15,032.00
Total		6,58,012.15

SCHEDULE OF RECEIPTS AND PAYMENTS ACCOUNT

SCHEDULE - C

MISCELLANEOUS

SL.NO.	DESCRIPTION	RS. P.
1.	Advertisement and Publicity	10,69,718.00
2.	Postage/Telegram	4,77,881.65
3.	Electricity/Water Charges	33,02,166.00
4.	Printing and Stationery	18,58,184.85
5.	Telephone and Telex	17,31,875.05
6.	Staff Welfare Expenses	1,86,818.00
7.	Pollution Awareness Expenses	40,771.00
8.	Training and Seminar	1,23,936.00
9.	Entertainment	33,205.95
10.	Miscellaneous Expenses	6,92,745.90
11.	Newspaper and Periodicals	1,50,394.35
12.	Conveyance	88,627.60
13.	Wages	17,51,909.90
14.	Office Expenses	1,09,878.55
15.	Expenses through petty cash	5,80,564.85
16.	Prior period adjustment account	1,40,206.00
17.	Travelling expenses	8,34,503.60
18.	Trade Fair	1,77,109.00
19.	Land Maintenance expenses	20,591.00
20.	Payment of outstanding liabilities	3,78,757.35
21.	Flag Day Collection Paid	18,765.00
22.	Bank interest and commission	16,286.35
23.	LTC Expenses	28,817.00
24.	ETI Expenses	31,826.00
25.	Environmental Pavilion Expenses	29,632.00
26.	Gratuity	17,11,872.00
27.	Honorarium	3,000.00
28.	Property Tax	2,67,018.00
29.	VEM Expenses	11,51,905.00
	Total	1,70,08,965.95

SCHEDULE OF RECEIPTS AND PAYMENTS ACCOUNT

SCHEDULE - D

ADVANCE TO STAFF (PAYMENT)

SL.NO.	DESCRIPTION	RS.	P.
1.	Festival Advance	4,86,300.00	
2.	Education Advance	1,000.00	
3.	Furniture Advance	9,950.00	
4.	Cycle Advance	19,500.00	
5.	Handloom Advance	40,635.00	
6.	Marriage Advance	46,000.00	
7.	Pay Advance	9,075.00	
8.	Tour Advance	5,96,234.95	
9.	Temporary Advance	9,07,277.50	
10.	L.T.C. Advance	91,572.00	
11.	Imprest to Staff	9,947.90	
12.	TTA	3,700.00	
13.	Warm Cloth Advance	3,000.00	
14.	Motor Vehicle Advance	17,01,331.00	
Total		39,25,523.35	

SCHEDULE OF RECEIPTS AND PAYMENTS ACCOUNT

SCHEDULE - E

DEPOSITS AND ADVANCES (PAID) (OTHERS)

SL.NO.	DESCRIPTION	RS. P.
1.	Advance to Suppliers	85,43,047.10
2.	Earnest Money Deposit (refund)	5,71,350.00
3.	Security Deposit (refund)	1,33,811.00
4.	Rent Advance	31,373.00
5.	Enlistment Deposit	25,000.00
6.	Retention Money Deposit	13,359.00
7.	CETP Expenses	7,592.00
8.	RPGD	8,82,075.00
9.	FBF	1,50,470.00
10.	Electricity Deposit	33,078.00
11.	S.W.Fund	1,921.15
12.	CETP Subsidy released	7,58,36,000.00
13.	Advance for Construction (Guindy)	92,533.00
14.	Pre Paid Expenses	300.00
15.	Telephone & Telex Deposit	13,000.00
16.	T D S (Others)	2,57,094.00
17.	Ecology (GOI)	4,71,000.00
18.	Tax Avance to ETI	4,320.00
19.	Miscellaneous Deposit	4,000.00
20.	Sundry Creditor Others	33,668.00
	Total	<u>8,71,04,991.25</u>

SCHEDULE OF RECEIPTS AND PAYMENTS ACCOUNT

SCHEDULE - E (I)

ADVANCES AND DEPOSITS (OTHERS) (RECEIVED)

SL.NO.	DESCRIPTION	RS. P.
1.	Enlistment Deposit	20,550.00
2.	Consent Fees received in advance	1,47,66,511.00
3.	Cess received in advance	1,80,311.00
4.	A.A.Q.S received in advance	9,78,953.00
5.	Flag Day	18,765.00
6.	C.E.T.P Receipts	9,70,17,000.00
7.	Pension	3,89,820.00
8.	Gratuity	56,424.00
9.	FBF	57,555.00
	Total	11,34,85,889.00

**SCHEDULE FORMING PART OF INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDING 31ST MARCH 1998**

**SCHEDULE - F
EXPENDITURE**

SL.NO.	DESCRIPTION	RS. P.
ALLOWANCES AND HONORORIA		
1.	Allowances	2,96,48,530.91
2.	Wages	18,28,705.90
3.	Travelling Expenses	14,59,371.40
4.	Medical Reimbursement	18,11,161.80
5.	Honorarium	5,484.00
6.	Bonus	10,69,963.00
7.	LTC Expenses	1,38,895.00
8.	Interim Relief	19,53,101.45
9.	Turn Duty	30,319.20
10.	Over time	48,372.00
11.	Payment of VI Pay Commission Arrears	11,91,334.00
	Total	<u>3,91,85,238.66</u>

SCHEDULE - G

Running and Maintenance of Vehicles

SL.NO.	DESCRIPTION	RS. P.
1.	Repairs	11,19,517.35
2.	Fuel	17,66,831.41
3.	Hire Charges	50,405.00
4.	Insurance	1,19,053.00
	Total	<u>30,55,806.76</u>

**SCHEDULE FORMING PART OF INCOME AND
EXPENDITURE ACCOUNT**

SCHEDULE - H

MISCELLANEOUS

SL.NO.	DESCRIPTION	RS.	P.
1.	Office Expenses	1,96,607.05	
2.	Telephone & Telex	16,95,155.15	
3.	Sundries	1,09,671.40	
4.	Entertainment Expenses	98,895.35	
5.	Printing & Stationery	21,99,057.60	
6.	Electricity & Water Charges	31,41,935.05	
7.	Postage & Telegram	5,02,820.05	
8.	Advertisement & Publicity	10,97,129.00	
9.	Rent on Buildings	42,26,790.00	
10.	Newspaper and Periodicals	1,72,517.00	
11.	Pollution Awareness Expenses	1,04,417.20	
12.	Family Benefit Fund Contribution	70,135.00	
13.	Conveyance Expenses	2,04,740.60	
14.	Staff Welfare Expenses	2,30,338.80	
15.	Training and Seminar Expenses	1,54,209.00	
16.	Bank Interest	15,309.16	
17.	Land Maintenance Expenses	20,595.00	
18.	Trade Fair Expenses	3,74,823.00	
19.	CETP Expenses	5,03,909.75	
20.	E T I Expenses	8,83,045.75	
21.	Insurance of Assets	1,42,217.00	
22.	Property Tax	2,67,018.00	
23.	Environmental Pavilion Expenses	95,894.00	
24.	Insurance of Lab Equipments	71,648.00	
	Total	1,65,78,877.91	

**SCHEDULE FORMING PART OF INCOME AND
EXPENDITURE ACCOUNT**

SCHEDULE - I

INCOME

SL.NO.	DESCRIPTION	RS.	P.
1.	Consent Fees	13,68,12,108.60	
2.	Consent Forms	9,09,890.00	
	Total	13,77,21,998.60	

SCHEDULE - J

INCOME

Services and Rental Charges

SL.NO.	DESCRIPTION	RS.	P.
1.	Analysis Charges	81,18,709.25	
2.	MINAR	9,25,345.00	
3.	AAQS	76,69,947.00	
4.	VEM Test Fees	17,37,105.00	
5.	GEMS	1,39,520.00	
6.	ETI Course fees	6,47,900.00	
7.	NAAQM	3,91,973.00	
	Total	1,96,30,499.25	

**SCHEDULE FORMING PART OF INCOME AND
EXPENDITURE ACCOUNT**

**SCHEDULE - K
INCOME**

Miscellaneous

SL.NO.	DESCRIPTION	RS. P.
1.	Cess Appeal Fees	1,470.00
2.	Miscellaneous Income	1,38,848.59
3.	Enlistment Fees	2,500.00
4.	Sale of Legal Books	6,990.00
5.	Interest on Loans & Advance	2,91,050.30
6.	Interest on PGD	25,014.00
	Total	4,65,872.89

SCHEDULE - L

PRIOR PERIOD ADJUSTMENT A/c:		Rs. P.	Rs. P.
		Dr.	Cr.
1.	Salary	13,25,072.10	
2.	Rent	22,642.10	
3.	Miscellaneous	30,451.00	
4.	Lab Equipments	5,794.00	
5.	Consent Fees / BC	54,275.67	
6.	Depreciation	1,00,84,115.00	
7.	R&M of Lab Equipment	2,67,388.50	
8.	Units	1,61,378.00	
9.	Interest on STD		1,62,12,887.00
	Total	1,19,51,116.37	1,62,12,887.00
			42,61,770.63

SCHEDULE FORMING PART OF BALANCE SHEET

LIABILITIES

SCHEDULE - M

OTHER DEPOSITS

SL.NO.	DESCRIPTION	Rs. P.
1.	E M D	7,38,441.20
2.	Security Deposits	8,36,084.15
3.	Enlistment Deposits	2,85,500.00
4.	Retention Money Deposits	2,77,761.48
5.	Miscellaneous Deposit (Tirupur CETP)	3,25,000.00
	Total	<u>24,62,786.83</u>

LIABILITIES

SCHEDULE - N

SUNDRY CREDITORS

SL.NO.	DESCRIPTION	RS. P.
1.	Flag Day Collection	4,615.00
2.	P.R.L.	7,111.95
3.	Pension Payable	2,01,69,172.50
4.	Outstanding Liability	32,23,755.55
5.	Salary Payable	7,150.60
6.	Unadjusted Advance	72,758.89
7.	Staff Death Claim Payable	1,31,761.40
8.	P.R.L. (Others)	2,93,122.00
9.	T D S (Officers)	4,000.00
10.	Pension Fund	48,166.00
11.	Gratuity Fund	42,053.00
12.	Sundry Creditors Guindy	22,958.00
	Total	<u>2,40,26,624.89</u>

SCHEDULE FORMING PART OF BALANCE SHEET

LIABILITIES

SCHEDULE - O

INCOME RECEIVED IN ADVANCE

SL.NO.	DESCRIPTION	RS. P.
1.	Consent Fees	1,59,67,211.00
2.	Cess Fees	4,96,558.93
3.	Analysis Fees	3,70,740.00
4.	AAQS	11,36,133.00
5.	Public Hearing A/C.	1,80,000.00
	Total	1,81,50,642.93

ASSETS

SCHEDULE - P

MISCELLANEOUS ADVANCES

SL.NO.	DESCRIPTION	RS. P.
1.	Advance to Suppliers	60,78,710.38
2.	Rent Advance	6,60,572.15
3.	Insurance Claim Receivable	43,243.00
4.	Land Advance	18,81,395.00
5.	Amount Receivable from Ecology (GOI)	4,71,000.00
6.	TDS from Bank	79,255.00
7.	Advance to consultant	2,50,000.00
8.	Prepaid Expenditure	14,165.00
9.	Other Assets (Imprest)	6,622.40
10.	Staff Welfare Fund	12,701.15
11.	Tax Advance to ETI	3,82,784.14
12.	Interest Receivable	3,51,92,158.00
13.	Others	41,000.00
	Total	4,51,13,606.22

SCHEDULES FORMING PART OF BALANCE SHEET

ASSETS

SCHEDULE - Q

ADVANCES TO STAFF

SL.NO.	DESCRIPTION	RS. P.
1.	Tour Advance	4,29,110.70
2.	Temporary Advance	5,95,357.91
3.	Marriage Advance	1,73,764.00
4.	Festival Advance	3,06,115.00
5.	Handloom Advance	22,595.00
6.	Driver Training Advance	17,839.00
7.	Pay Advance	2,500.00
8.	Cycle Advance	27,008.00
9.	Motor Vehicle Advance	31,95,149.16
10.	House Building Advance	11,914.00
11.	LTC Advance	8,137.00
12.	Miscellaneous Advance	9,244.00
13.	Educational Advance	27,521.00
14.	Staff Housing Scheme	12,662.00
15.	Furniture Advance	3,592.00
16.	Warm Cloth Advance	2,300.00
17.	TT Advance	75,600.00
	Total	<u>49,20,408.77</u>

SCHEDULE FORMING PART OF BALANCE SHEET

ASSETS

SCHEDULE - R

ADVANCE DEPOSITS

SL.NO.	DESCRIPTION	RS. P.	SL.NO.
1.	Telephone & Telex	10,26,842.00	
2.	T.N.E.B.	3,46,403.00	
3.	Miscellaneous Deposits	6,473.40	
4.	Staff Higher Studies Deposit	5,928.00	
	Total	13,85,646.40	

SCHEDULE – S

NOTES FORMING PART OF ACCOUNTS FOR THE YEAR ENDED 31 ST MARCH 1998.

1.ACCOUNTING POLICIES :

a) Fixed Assets are shown at Written Down Value. Depreciation has been provided at the following rates as decided by the Board which is being followed consistently. Depreciation in respect of addition during the year has been provided for the full year.

i.	Library Books	10%
ii.	Vehicle	33.33%
iii.	Furniture & Fixtures	10%
iv.	Office Appliances	10%
v.	Lab Equipments	33.33%
vi.	Electrical Installation	15%
vii.	Building	10%

b) Stock of Chemicals / Glasswares and Consumables are as inventoried as at the Close of the year and valued at cost.

c) Except for interest on investments, Other income is accounted on receipt basis.

d) Payment of Gratuity to the employees is covered under LIC's Groups Gratuity Scheme, and pension to employees is being provided on annual accrual basis.

2. (a) Cess Receivable Rs.35,40,07,729.00 include disputed amounts from the following industries / local bodies:

i.	Ennore Thermal Power Station	:	12,85,09,331
ii.	North Madras Thermal Power Station	:	6,60,19,994
iii.	Tuticorin Thermal Power Station	:	4,99,99,934
iv.	Seshasayee Paper and Boards Ltd.,	:	51,74,230
v.	Local Bodies	:	8,37,49,795

- b) Provision has been made for doubtful debts Rs.45,53,110.00 in respect of Cess receivable but not collected due to closure.
3. Miscellaneous Advances include:
- a) Rs. 18,81,345/= paid towards purchase of lands registered and or pending registration at various places.
- b) Rs. 47,72,742/= representing advances to suppliers which has to be adjusted to Capital/Revenue accounts pending receipt of particulars/ reconciliation. The revenue impact, if any, on these are not at present ascertainable.
4. Advances to Staff include Tour Advances Rs.2,69,791/= and Temporary Advances Rs.2,29,329/= for which adjustment entries are yet to be passed pending receipt of details. The revenue impact, if any on these are not ascertainable.
5. Funds in Transit include Rs. 14,57,004/= which are required to be reconciled and adjusted. Revenue impact if any, on these is not ascertainable.
6. Term deposit of Rs.90,40,000/= is subject to lieu in favour of Canara Bank, for opening Letter of Credit. The Board is contingently liable for Letter of Credit opened to the extent of Rs.8,74,399.

Sd/- D.KANNAN
Deputy Director
(F&A)

Sd/- K.P.BHANUMATHI
Financial Adviser

Sd/- G.RENGASAMY
Member Secretary

Sd/- M.DEVARAJ, I.A.S.,
Chairman

Subject to our report of even dated
For M/s.P.S.Subramania Iyer &Co.,
Chartered Accountants

Chennai – 600 032,
Dated - 31-12-1998.

Sd /- G.HARIHARAN
Partner

