

## 1. INTRODUCTORY

The Karnataka State Pollution Control Board (here onwards referred as Board or KSPCB) was constituted under Water (Prevention and Control of Pollution) Act 1974 by the Government of Karnataka on 21.9.1974 for the purpose of establishing a comprehensive State-wide programme to restore, protect and enhance the quality of the environment in Karnataka. To implement this mandate, pollution control legislation makes the KSPCB responsible to adopt environmental standards and regulations for the State. The mission of the Board is to safeguard the natural environment-air, water and land-upon which life depends. The Board is committed to making Karnataka's air cleaner, water purer, and land better protected and working closely with all the stake holders.

The Board dedicates itself to :

Establishment of coherent, uniform and workable environmental standards and regulations that restore, protect and enhance the quality of Karnataka's environment ; and

Impartial decision-making which resolves environmental disputes in a manner that brings to bear technical and legal expertise, public participation and judicial integrity.

### Acts and Rules implemented by KSPCB are as follows :

1. The Water (Prevention & Control of Pollution) Act, 1974 and Rules there under ;
2. The Air (Prevention & Control of Pollution) Act, 1981 and Rules there under ;
3. The Water (Prevention & Control of Pollution) Cess Act, 1977, as amended by Amendment Act, 1991, 2003 and Rules there under ;
4. Environment (Protection) Act, 1986 and following Rules / Notifications framed there under :
  - (i) Hazardous Waste (Management & Handling) Rules, 1989 and Amendment Rules 2000 and May 2003.
  - (ii) Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 ;
  - (iii) Environmental Impact Assessment Notification, 1994, 1997 and 2002 ;
  - (iv) Bio-Medical Waste (Management & Handling) Rules, 1998 and Amendment Rules 2000 and 2003;
  - (v) Plastics Manufacture, Sale and Usage Rules, 1999 and 2003 ;
  - (vi) The Noise Pollution (Regulation & Control) Rules, 2000 ;
  - (vii) Municipal Solid Wastes (Management & Handling) Rules, 2000 ;
  - (viii) Ozone Depleting Substances (Regulation & Control) Rules, 2000 ;
  - (ix) Batteries (Management and Handling) Rules, 2001 ;
  - (x) Rules for the Manufacture, Use, Import, Export and Storage of Hazardous Micro Organisms, Genetically Engineered Organisms or Cells; and
  - (xi) Chemical Accident (Emergency Planning Preparedness and Response) Rules, 1996.



The Board is discharging its responsibility with 264 staff members as on date. The details of staff position are given in **ANNEXURE I**.

The KSPCB has two tier system of working (consisting of Head office & Regional Office) in order to fasten decision making process. The organization structure of the Board is given in **ANNEXURE II**.

The Board will function as per policy and decision of the panel of Board members, which is headed by the Chairperson. The Board meeting will be held frequently to make decisions to safeguard environment within legal framework.

The Central Office is the focus for setting policies and for providing support to the Regional Offices. It is the base for Board's Chairperson and Senior Officials, whose responsibility is to ensure that the policies are delivered consistently, while allowing for local differences in environmental, social and economic climate where appropriate.

The KSPCB is having 27 Regional Offices, spread all over Karnataka to enable Board to discharge duties with close proximity to stakeholders, headed over by a Regional Officer. The Regional Officers are responsible for giving Board's service effectively to our stakeholders.

Address of Central office, Regional Offices and Central Laboratory are given in **ANNEXURE III**.

The responsibilities of officers/facilities while implementing above legislation is given in the following paragraphs.

#### **The functions of the Regional Offices are as follows :**

**Consent for establishment (CFE) :** For all orange and green category industries CFE under Water and Air Act is issued by the Head of the Regional Office irrespective of the investment. Disposal of CFE application in respect of red category units with investment less than Rs.5 Crores has been delegated to head of the Regional Office.

**Consent for operation (CFO) :** All orange and green category industries CFO under Water and Air Act is issued by the Head of the Regional Office irrespective of the investment. Disposal of CFO application in respect of Red category units with investment less than Rs. 5(five) Crores and not covered under EIA notification has been delegated to head of the Regional Office.

Major Administrative responsibilities of the Regional offices are as follows :

- \* Inspection of industries, hospitals and local bodies ;
- \* Monitoring water bodies and wastewater ;
- \* Monitoring Ambient Air and stack emissions.
- \* Inspection of sites proposed for setting up of industries to verify the suitability of the same from environmental point of view ;
- \* To issue closure order for defaulting units as per power delegated from time to time ;



- \* Preparation of draft Annual Report concerned to the Region and to submit to the Board Office within the stipulated time ;
- \* Offering guidance to industries and local bodies on statutory provisions :
- \* Furnishing details to the Central Office in matters relating to issue of Consent for Establishment and Consent for Operation to industries and to attend to the works connected with investigations of complaints etc.
- \* Attending district level Single Window Agency (SWA) Meetings of Industries Department ;
- \* To verify cess returns, prepare assessment orders & collection of cess amount under Water (Prevention and Control of Pollution) Cess Act, 1977 and amendments from time to time.
- \* Preparation of plans and programmes for establishment of common effluent treatment plant in the area ;
- \* Co-ordinating with different agencies for issue of early clearance for establishment of new industries in the area ;
- \* Arranging Seminars, Conferences, Training Programmes and Public Awareness Programmes in the area ;
- \* Preparation of draft petitions in connection with filing Court cases ;
- \* To draw yearly comprehensive programmes for survey of problematic areas and to check out preventive measures under Section 17 of Water and Air Act ;
- \* To identify sites for disposal of Hazardous wastes ;
- \* To make proposals for issue of authorization under the Hazardous Waste Management Rules ;
- \* To assist the enforcing authorities for control of vehicular emission in the jurisdiction ;
- \* To collect and consolidate the data in respect of schemes of NAAQM (National Ambient Air Quality Monitoring), MINARS (Monitoring Indian Natural Aquatic Resources System), GEMS (Global Environmental Monitoring System) and Board's Programmes ;
- \* To initiate action as per law on the complaints received in the jurisdiction ;
- \* To issue authorization under Bio-Medical Waste (Management & Handling) Rules, 1998, and Amendment Rules 2000 as delegated from time to time.
- \* To issue authorization under Municipal Solid Waste Rules as delegated.

### **Major Responsibilities of Laboratories**

- \* To receive and analyze the samples submitted by Regional Office ; and
- \* To prepare requirement of chemicals, equipments and instruments.

## **2. CONSTITUTION OF THE STATE BOARD INCLUDING CHANGES THEREIN**

The members of Karnataka State Pollution Control Board are nominated by the State Government. The Board originally constituted as per Section 4 of the Water (Prevention and Control of Pollution) Act, 1974,



vide Notification No. HMA 161 CGE 74, dated 21.9.1974, was reconstituted during 1981, 1984, 1991, 1994, 1995, 1997, 1999, 2001 and 2002.

The list of Board Members is given in **ANNEXURE IV**.

Sri. J. Alexander IAS (retd.) continued as Chairman of the Board till 27th Feb. 2004 and Sri. N. Bhoomananda Manay reported as Chairman on 27th Feb. 2004 and continued as Chairman during the year under report. Sri. B. Ramaiah, continued as incharge Member Secretary till 23.2.2004. Smt. V. Rashmi IAS reported as Member Secretary on 23.2.2004 and continued during the period under report.

### **3. CONSTITUTION OF THE COMMITTEES BY THE STATE BOARD AND MEETING OF THE COMMITTEES CONSTITUTED BY IT**

Board has constituted following committees till date :

1. Technical Advisory Committee
2. Library And Laboratory Committee
3. Committee for Preparation of State of Environment Report For Karnataka 2002
4. Committee for Introduction of Economic Instruments
5. Committee on Bio-Diversity and Environmental Pollution Control
6. Committee on Biotechnology and Pollution Control
7. Consent Committee for Issue of Consent for Establishment and Consent for operation.
8. Awareness Committee.
9. Information Technology Committee.
10. Legal Advisory Committee.

The description of individual committee is discussed in following sections.

#### **3.1 Technical Advisory Committee**

The Technical Advisory Committee provides technical advice to the Board in matters relating to the verification of E.I.A., feasibility of pollution control proposals submitted by the industries and local authorities ; to make suggestions for stipulating standards for liquid effluents, gaseous emission and other allied technical matters. It also evaluates technical objections, suggestions recorded during the Environmental Public Hearing.

The list of Technical Advisory Committee Members is enclosed in **ANNEXURE V**. During the financial year, the Technical Advisory Committee has met 20 times on the following dates:



MEETING NUMBER	DATE
259 <sup>th</sup>	05-04-2003
260 <sup>th</sup>	03-05-2003
261 <sup>st</sup>	17-05-2003
262 <sup>nd</sup>	30-05-2003
263 <sup>rd</sup>	21-06-2003
264 <sup>th</sup>	05-07-2003
265 <sup>th</sup>	19-07-2003
266 <sup>th</sup>	02-08-2003
267 <sup>th</sup>	11-08-2003
268 <sup>th</sup>	28-08-2003
269 <sup>th</sup>	20-09-2003
270 <sup>th</sup>	07-10-2003
271 <sup>st</sup>	28-10-2003
272 <sup>nd</sup>	15-11-2003
273 <sup>rd</sup>	29-11-2003
274 <sup>th</sup>	27-12-2003
275 <sup>th</sup>	31-01-2004
276 <sup>th</sup>	28-02-2004
277 <sup>th</sup>	06-03-2004
278 <sup>th</sup>	20-03-2004

### 3.1.1 Important Proposals Deliberated upon in the Technical Advisory Committee of the Board

The Committee recommended for issue of Consent for Expansion/Establishment to following units during the period under report :

Sl. No.	Name and Address of the Industry
1.	M/s JSW Power Private Limited Sy. No. 117, 118, 192 & 193 of JVSL Premises Toranagallu, Sandur Taluk Bellary District.
2.	M/s Gas Transportation & Infrastructure Company Ltd., Leparc, 1 <sup>st</sup> Floor, 51 Richmond Richmond Road Bangalore - 560 025.



3. M/s Siddapura Distilleries Limited  
95/1A, 95/1B, 93/2/3, 49/2B/1&2, 87, 58/1A/2B, 66/1B, 85/2,94, 107, 57/2A&2B  
Siddapura Village, Jamkhandi Taluk  
Bagalkot District.
4. M/s Mangalore Chemicals & Fertilizers Limited, Panambur,  
Mangalore - 575010.
5. M/s Satwik Drugs Limited  
78-B, Kolhar Industrial Area  
Bidar - 585403.
6. M/s Ramco Industries Limited  
Karur Post - 581143  
Ranebennur Taluk  
Haveri district.
7. M/s Kumar Organic Products Limited  
Sy. No.49&8/1, Plot No.62, Road 3, Jigani Industrial Area  
Anekal Taluk, Bangalore -562106.
8. M/s Kalyani Steels Limited  
( Hospet Division )  
Hospet Road, Ginigera - 583228  
Koppal Taluk & District.
9. The Mysore Paper Mills Limited  
Paper Town Post Office  
Bhadravathi - 577302, Shimoga District.
10. M/s Bharat NRE Coke Limited  
Site No. 84(P), 85(P), 86, 87(P), 93(P),94(P), 95, 96(P), 97(P), 98, 99(P)And  
111 (P), Belur KIADB Industrial Area, P.B. Road, Dharwad.

In connection with the application of M/s Vijayanagara Education Trust (INFANT JESUS HOSPITAL) for establishment of Hospital the TAC in its 278th meeting has resolved that the proposed site is not suitable for establishment of the Hospital.

### 3.2 Library and Laboratory Committee

Library and Laboratory Committee assists the Board in strengthening and up gradation of laboratories of Board for effective function. The list of library and laboratory committee members are enclosed in **ANNEXURE VI.**



During the financial year the committee met once on 20.12.2003 and the 68th Library and Laboratory Committee meeting was held.

### Important decisions taken :

1. Approved the proposal for different components like AMC to equipments, calibration, disposal system and to identify certifying body for ISO-9001-2000 certification process costing approximately Rs.25 lakhs.
2. Approved to purchase spare parts directly from the supplier following purchase procedures.
3. Approved to establish 2 continuous AAQM stations in B'lore city with a total cost of Rs.80 lakhs each with Board fund and another with 50% assistance from CPCB.
4. Approved for out sourcing the air monitoring work by involving Board empanelled laboratories.
5. Approved for the visit of the committee members to the private laboratories to be empanelled.

### 3.3 Committee for preparation of State of Environment Report for Karnataka 2002.

To prepare **State of Environment** report for Karnataka 2002, a committee was constituted by the Board. The list of members is given in **ANNEXURE VII**. In the meanwhile under the World Bank assistance preparation of *State of Environment* has been taken up by Government of Karnataka. Hence, to avoid duplication of work the committee was dissolved as per the 150th Board meeting resolution.

### 3.4 Committee for Introduction of Economic Instruments

In order to introduce economic instruments for environmental compliance, a committee consisting of members of various organizations in the related field has been constituted. The list of members is given in **ANNEXURE VIII**.

Meanwhile, the Board has submitted a proposal to Ministry of Environment and Forest, Government of India regarding a pilot project in Karnataka for introduction of Economic instruments in a selected industry. The approval from Ministry of Environment and Forest is pending. There is a task force at the Ministry of Environment and Forest for this purpose. Under the circumstances it was felt that there is no need to continue the committee constituted by the Board.

### 3.5 Committee on Bio-Diversity and Environment Pollution Control

In order to evolve suitable strategies regarding Biodiversity and Pollution Control issues, the Board in its 144<sup>th</sup> meeting constituted a committee on Biodiversity and Environmental Pollution Control. The list of members is given in **ANNEXURE IX**. The Government of Karnataka has constituted a separate Biodiversity Board under Bio diversity Act 2002. In view of this, the Board in its 152<sup>nd</sup> meeting resolved to dissolve the committee constituted on 1.11.2001 to avoid duplication of work.

### 3.6 Committee on Biotechnology and Pollution Control

In order to evolve suitable strategies regarding Biotechnology and Pollution Control issues, the Board has



constituted a committee on Biodiversity and Environmental Pollution Control. The list of members is given in **ANNEXURE X**.

### **3.7 Consent Committee for Issue of Consent for Establishment and Consent for Operation**

In order to introduce transparency in issue of consents, the Board has constituted a Committee for taking decision on issue of consent for establishment and consent for operation applications which are coming under the purview of Head Office. The list of members is given in **ANNEXURE XI**. The committee regularly meets on every Friday afternoon. During the period under report the committee has met 44 times and decision on 540 consent applications taken. Similar committees have been constituted at all Regional Office level also.

### **3.8 Awareness Committee**

This committee was formed to review all requests/proposals of various environmental awareness activities such as sponsoring of workshops/conferences/campaigns/public awareness functions, production of documentary films, release of advertisements, printing of brochures etc. The list of members is given in **ANNEXURE XII**.

### **3.9 Information Technology committee**

Karnataka State Pollution Control Board is involved in the critical activity of monitoring the Industries in the area of Pollution Control. Huge amount of important data is being generated. At present attempts are made to go for a comprehensive Management Information System (MIS) and Geographical Information System (GIS), which will help KSPCB to efficiently discharge its function.

The information technology involved in creation and maintenance of an effective MIS and GIS is continuously changing and hence it is proposed to seek suggestion from a panel of experts in the respective fields, whose feedback will help the Board in continuously planning, implementing, monitoring and upgrading all our IT related activities. The list of members is given in **ANNEXURE XIII**.

### **3.10 Legal Advisory Committee**

In the course of enforcement of various Environmental Acts and Rules by the Board, a large number of Writ Petitions, Appeals, etc, are being filed before the Hon'ble High Court of Karnataka, Appellate Authority, etc., Besides, Board also initiates criminal proceedings against erring industries.

Therefore with a view to streamline the matters relating to legal issues and to seek legal advise on various issues, the Board has constituted a Legal Advisory Committee consisting of following members :

1. Sri. T. Umashankar, Chairman
2. Sri. S.G. Kulkarni, Member
3. Sri. C.K. Venkatesh, Member

The Committee meets regularly to tender its advice/opinion on various matters to the Board.

During the year 2003-04, the committee held 79 meetings to give advice/opinion on various matters.



#### 4. MEETINGS OF THE STATE BOARD

In the year 2003-04, the Board continued to handle many important decision makings, contested issues brought before it under. The Board's decisions, both regulatory and adjutory have helped to restore, protect, and enhance air, land and water for citizens of Karnataka. The actions of the Board over the past year also reflect its commitment to provide technically and legally sound solutions in a timely manner. The Hon'ble Board members assembled five times on following dates :

MEETING NUMBER	DATE
150th	17-04-2003
151st	27-06-2003
152nd	26-09-2003
153rd	26-12-2003
154th	25-03-2004

The major decisions taken in the Board Meetings are :

1. Revision of authorization fee under Bio-medical waste (Management & Handling) Rules, 1998.
2. Approved to recommend to the Govt. for Notification in the Rules to levy consent fee based on KVA rating for units having only D.G. set as source of air pollution.
3. The Board approved to implement Karnataka Right to Information Act, 2000 and rules and to notify the details of records to be made available under the said Acts and Rules.
4. Recommendation to Government to make suitable amendments to legislation to make compulsory use of treated waste water for maintaining public parks and for construction activities.
5. Approved to adopt standards prescribed under Environment Protection Rules from time to time by MoEF, GOI and also to stipulate stringent standards wherever required by the Board.
6. Approved for formation of trust for Karnataka State Pollution Control Board Employees Pension Regulation, 1999 and also approved the deed and trust rules.
7. Approved for adoption of Tally packages system for maintenance of books of Accounts of the Board.
8. Ratified the action taken to purchase site from KIADB and KHB for the purpose of construction of KSPCB Regional Office Building at Udupi and Karwar.
9. Approved to release of Rs.1.00 lakh to the Deputy Commissioners of 27 revenue districts and also an additional amount of Rs. 1.00 lakh (each) to 5 educational districts out of cess funds.
10. Board agreed to implement the directions issued under Section 18 of Water and Air Act by CPCB in respect of new pulp and paper industry.
11. Board authorized the Chairperson to take up the construction activity of Regional Office cum lab building at Raichur at a cost of Rs. 95.00 lakhs by inviting tenders, fixing agencies etc. Board recommended that fly ash bricks only shall be used for walls.



12. The Board agreed for 16% rate over and above the accepted tender for Construction of KSPCB Office complex cum Central laboratory at Sy. NO. 120, Saneguruvanahalli, Bangalore.
13. Board approved the proposals to charge consent fee based on the population in layouts/apartments considering five persons in a family.
14. Approved the proposals to establish one online air quality monitoring station in Bangalore City at a cost of about Rs.70 lakhs out of Board's fund
15. Approved the proposals of staggering of validity period of Health Care establishments
16. Approved to implement the Notification No. FEE 215 ENV/2000 dated 18.11.2003 issued by DEE in respect of TG halli catchment area
17. Approved to establish one online Ambient Air Quality Monitoring station with 50% financial assistance (Rs.40. lakhs) from CPCB and also to meet the balance 50% cost (Rs. 40 lakhs), including operation and maintenance cost (Rs.10 lakh) per annum from Board funds.
18. Board approved the proposals under Phase II of GTZ project with an observation that the TSDF facility shall be established without further loss of time.
19. Amendment proposed to manage the pension and DCR through LIC of India was approved.
20. Board approved to recommend to the Government to issue appropriate order under Section 19 of the Air Act to use 0.05% Sulphur content HSD in Bangalore agglomeration area
21. The Board approved to adopt the directions issued by the State Government in respect of TG halli catchment area.
22. The Board approved to extend financial assistance to an extent of Rs. 20 lakhs for establishing DEWATs with a condition that the treated sewage should be used for gardening and for agriculture purposes and not let out in the VC Canal for the Beedi Workers Housing Colony at Chikka Mandya under "Rajiv Gandhi Grameena Vasati Nigama Niyamita.

## **5. ACTIVITIES OF THE STATE BOARD INCLUDING THE VARIOUS FUNCTIONS PERFORMED UNDER SECTION 17 OF THE WATER (PREVENTION AND CONTROL OF POLLUTION) ACT, 1974 AND AIR (PREVENTION AND CONTROL OF POLLUTION) ACT, 1981.**

In the Water (Prevention and Control of Pollution) Act 1974 and Air (Prevention and Control of Pollution) Act 1981 detailed function of State Board under the Section 17 of the Acts has been given. Today the Board has a wide range of legal duties touching on almost every aspect of environment. In the past the major activities performed itself has imparted tremendous help to safeguard environment. The following section describes major activities carried out by the Board in the financial year under report.

### **5.1 Environmental Monitoring**

The various parameters of environment is monitored to assess major changes in the environment of Karnataka to make decision and action to protect the environment. The monitoring not only covers ambient air quality,



surface and ground water quality, it also involves effluents, emissions, soil, noise and solid waste within the premises of industry and other properties.

The Department of Ecology & Environment notified the analysis charges for samples analyzed from 26th June 2002. During the period under report an amount of Rs.33,52,561/- has been collected for analyzing water, wastewater and emission samples.

#### (a) Central Laboratory

The Central Laboratory is well equipped with sophisticated analytical instruments and carries out analysis of water, wastewater, stack emission, ambient air, bacteriological samples and bio-assay tests, samples collected as per Water Act & Air Act.

#### (b) Divisional & Regional Laboratories

Divisional laboratories are located at Mysore, Dharwad, Mangalore and Gulbarga.

Regional Laboratories are located at Davangere, Raichur, Hassan and Belgaum.

These laboratories carry out analysis of wastewater, ambient air samples and stack emission samples. Samples are collected from industries, local authorities, rivers, wells, etc. through Regional Offices and sent to the nearest laboratory for analysis.

Total number of samples analysed during 2003-04 in all the laboratories is 26640.

The details of number of samples analysed during the year 2003 -2004 by Central and Regional laboratories is given in **ANNEXURE XIV**.

### 5.2 River Water Quality Monitoring

The Board is monitoring and analysing river water samples under GEMS (5 locations), MINARS (31 locations) and Board's programme (19 locations). However, in Davangere the analysis work has been entrusted to the Engineering College.

During the year, a total of 497 samples were collected and analysed.



The names of the rivers, sampling stations and the classification of the river based on the analytical results for the year under report are given in the **ANNEXURE XV A, XV B & XV C**.

It is more difficult to explain the trend in variation of quality of rivers as the same is result of series of dynamic, interconnected processes, planetary systems changing and interacting over time. On the one hand the state has witnessed poor rains in the last three years contributing less water to rivers and on the other hand increase in urban population has contributed to sewage from local bodies.

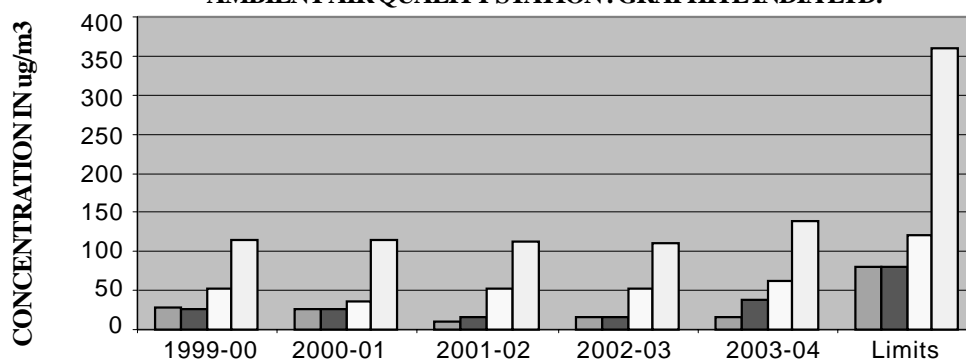
The Board has monitored water bodies before and after Ganesh Chaturthy festival to study the effect of immersion of Ganesha idols in the water bodies.

### 5.3 National Ambient Air Monitoring Programme (NAMP)

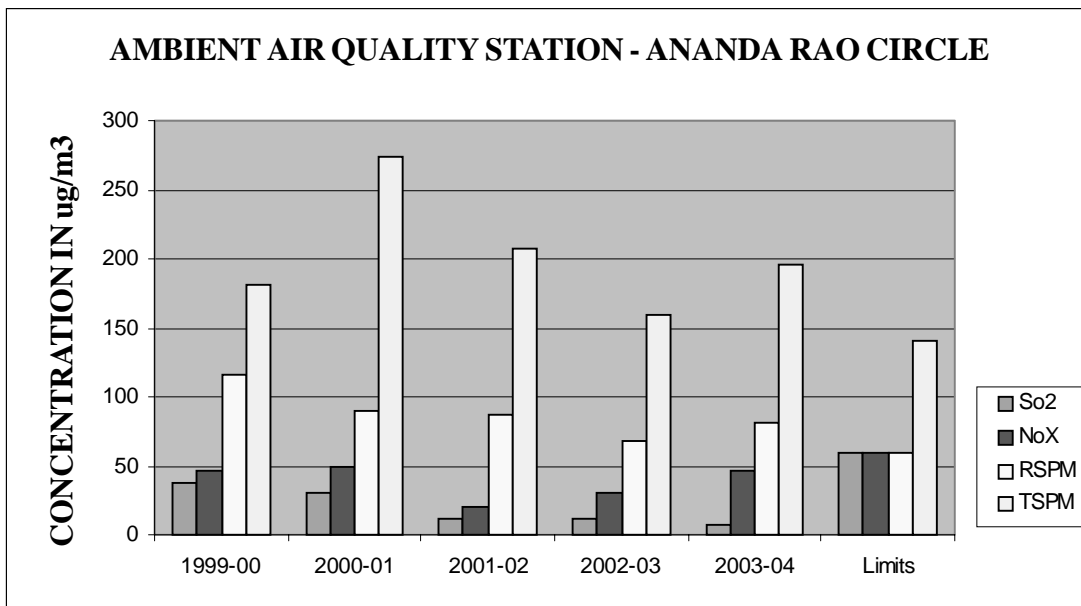
Ambient air quality of Bangalore City is being monitored at three stations under NAMP. The monitoring is being carried out at a frequency of twice a week for 24 hours for Suspended Particulate Matter (SPM), Sulphur Dioxide (SO<sub>2</sub>), Oxides of Nitrogen (NO<sub>x</sub>) and Respirable Suspended Particulate Matter (RSPM). Under this Programme 5195 samples were collected and analysed during the year 2003-2004. The annual arithmetic mean values of the concentration of pollutants at three stations are as follows :

Sl. No.	Station	SO <sub>2</sub> µg/m <sup>3</sup>	NO <sub>x</sub> µg/m <sup>3</sup>	SPM µg/m <sup>3</sup>	RSPM µg/m <sup>3</sup>
1.	Ananda Rao Circle	7.8	46	195.7	80.9
2.	AMCO Batteries, Mysore Road,	6.7	28.4	181.4	78.1
3.	Graphite India, Whitefield Road	16	37.5	139.3	62.7
Standard (Annual average)	Industrial	80	80	360	120
	Residential Rural and other area	60	60	140	60
	Sensitive area	15	15	70	50

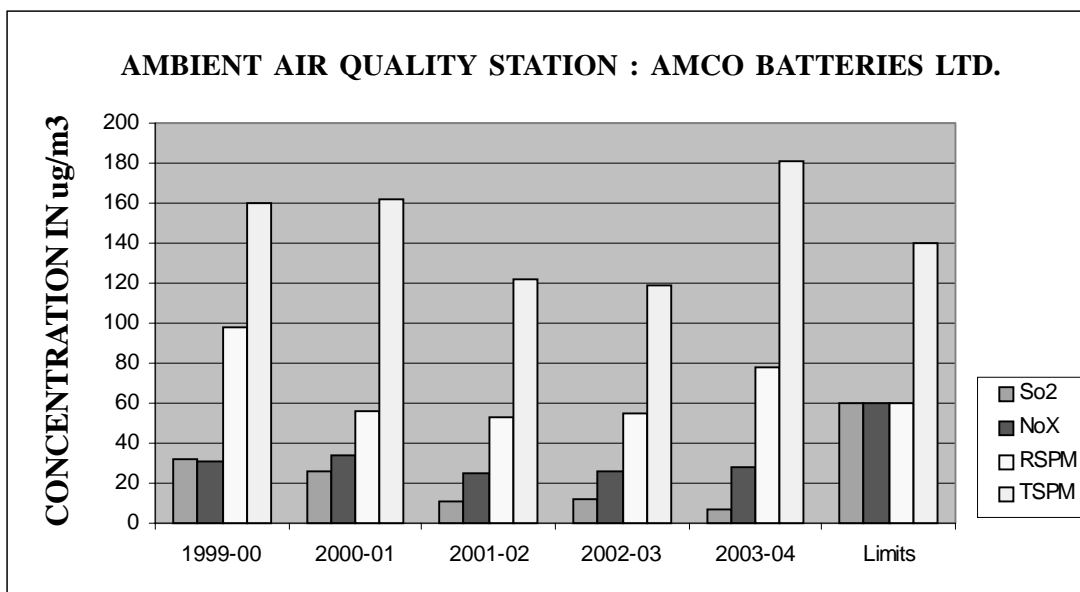
**AMBIENT AIR QUALITY STATION : GRAPHITE INDIA LTD.**



YEAR	1999-00	2000-01	2001-02	2002-03	2003-04	Limits
So <sub>2</sub>	28	26	11	16	16	80
No <sub>x</sub>	26	27	17	16	37.5	80
RSPM	53	36	53	52	62.7	120
TSPM	114	114	113	111	139.3	360

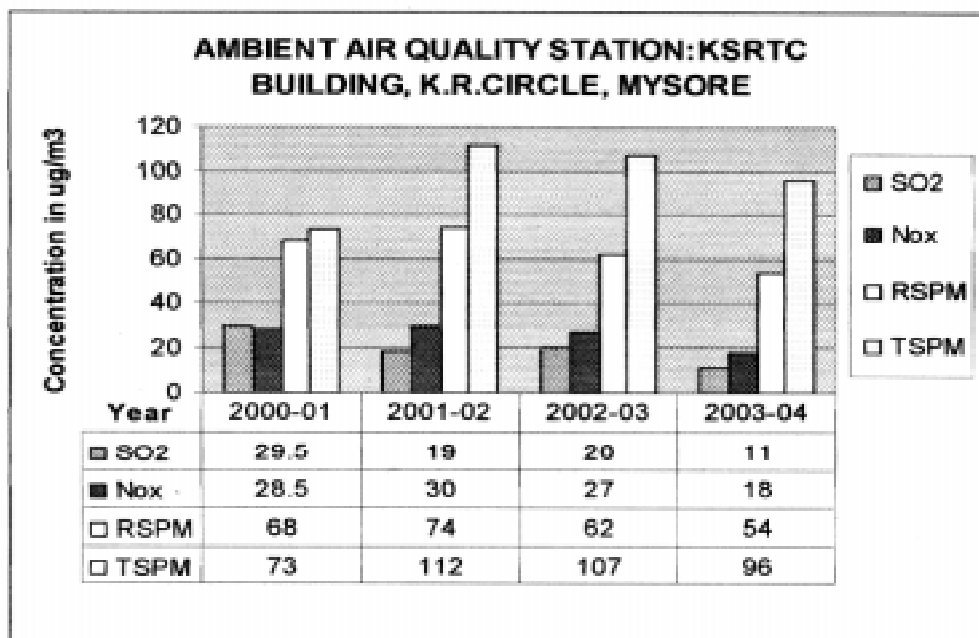
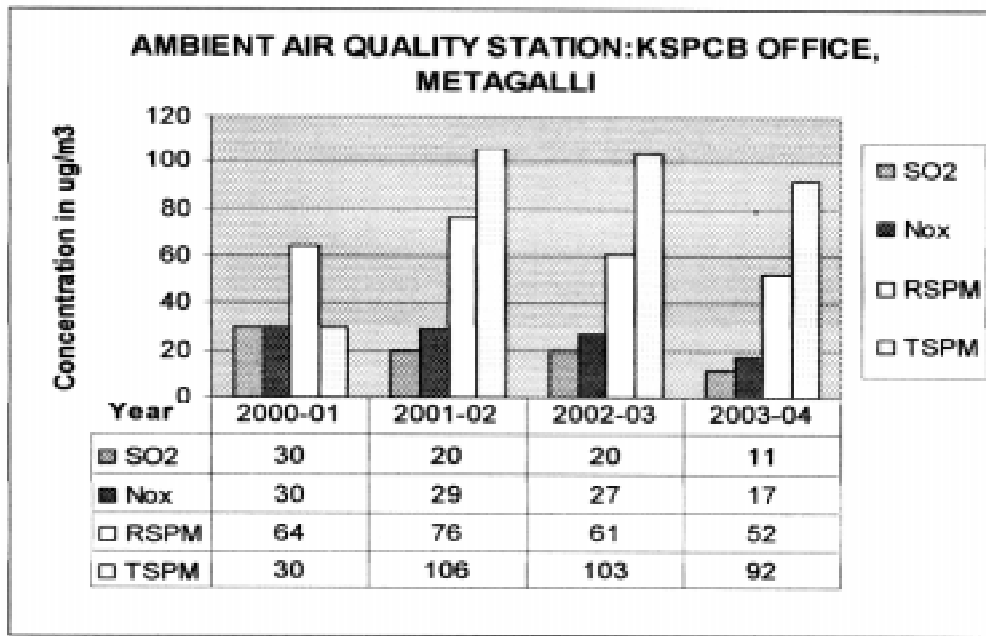


<b>SO2</b>	<b>37</b>	<b>31</b>	<b>12</b>	<b>11</b>	<b>7.8</b>	<b>60</b>
<b>Nox</b>	<b>46</b>	<b>50</b>	<b>21</b>	<b>31</b>	<b>46</b>	<b>60</b>
<b>RSPm</b>	<b>116</b>	<b>90</b>	<b>87</b>	<b>68</b>	<b>80.9</b>	<b>60</b>
<b>TSPm</b>	<b>181</b>	<b>274</b>	<b>207</b>	<b>160</b>	<b>195.7</b>	<b>140</b>



<b>SO2</b>	<b>32</b>	<b>26</b>	<b>11</b>	<b>12</b>	<b>6.7</b>	<b>60</b>
<b>Nox</b>	<b>31</b>	<b>34</b>	<b>25</b>	<b>26</b>	<b>28.4</b>	<b>60</b>
<b>RSPm</b>	<b>98</b>	<b>56</b>	<b>53</b>	<b>55</b>	<b>78.1</b>	<b>60</b>
<b>TSPm</b>	<b>160</b>	<b>162</b>	<b>122</b>	<b>119</b>	<b>181.4</b>	<b>140</b>

## NAMP, Mysore :



#### 5.4.1 Ambient Air Quality Monitoring under Board's Programme

The Board has carried out monitoring of ambient air quality in different parts of the State. The detail of ambient air quality monitored in various parts of the State is given in next page.

The Board has also undertaken monitoring of ambient air quality during Deepavali festival in major cities/towns of the State.

#### 5.4.2 Continuous Ambient Air Quality Monitoring (CAAQM) stations for Bangalore City

It is proposed to install two CAAQM stations at Bangalore, one with KSPCB's own funding and the other with Rs. 50 lakh (50% capital cost) assistance from the Central Pollution Control Board (CPCB), New Delhi for strengthening the air quality monitoring in the Bangalore City. Efforts are on for procurement of the stations.

### 5.5 Present State of Environmental Problems and Counter Measures

The Karnataka State Pollution Control Board has brought 26,766 units (this includes 17,672 industries, 319 hotels, 488 mines, 1795 coffee pulping units, and 6269 Hospitals, 223 local bodies) under pollution control laws during the reporting period. 1367 industries have been covered under the Hazardous Waste (Management & Handling) Rules, 1989 and as amended from time to time.

Regional Office wise details of newly identified industries, hospitals, mines, layouts and hotels during 2003-2004, are given below.

#### Details of newly identified industries, hospitals, mines, layouts and hotels

Sl.No.	Regional Office	Large	Medium	Small	L.B.	Hospitals	Mines	Layouts	Hotels	Total
1	Bng-South-I	2	10	25	0	3	0	4	1	45
2.	Bng-South-II	1	4	22	0	6	0	2	0	35
3	Bng-North	21	20	61	0	16	0	8	1	127
4	Bng-City-I	1	4	250	0	0	0	0	0	255
5	Bng-City-II	1	4	15	0	17	0	0	0	37
6	Bng-East	5	4	89	0	14	0	2	1	115
7	Bng-West	3	10	146	1	2	0	0	1	163
8	Peenya	0	5	486	0	0	0	0	2	493
9	Mandya	0	0	8	0	0	0	0	0	8
10	Tumkur	0	4	125	0	13	4	0	0	146
11	Hassan	1	1	95	0	0	1	0	2	100
12	Mysore	2	5	146	2	0	2	0	6	163
13	Dakshina Kannada	3	2	121	0	0	0	0	0	126
14	Udupi	1	0	156	0	0	0	0	0	157
15	Dharwad	4	9	90	0	338	1	0	0	442
16	Gulbarga	0	2	20	0	0	0	0	0	22
17	Bijapur	0	0	25	0	25	0	0	5	55
18.	Belgaum	2	7	192	0	0	6	0	25	232
19	Bagalkot	0	1	6	0	23	1	0	0	31
20	Bidar	0	0	0	0	0	0	0	0	0
21.	Bellary	8	5	81	0	0	4	0	0	98
22	Chitradurga	0	4	31	0	0	1	0	0	36
23	Kolar	0	2	62	0	16	2	0	0	82
24	Shimoga	0	0	35	0	2	0	0	0	37
25	Raichur	0	0	16	0	6	0	0	0	22
26.	Davangere	1	0	68	0	173	10	1	0	253
27.	Karwar	0	0	40	0	0	0	0	0	40
	<b>TOTAL</b>	<b>56</b>	<b>103</b>	<b>2411</b>	<b>3</b>	<b>654</b>	<b>32</b>	<b>17</b>	<b>44</b>	<b>3320</b>

There are certain river stretches in the State which are receiving treated trade effluent directly. The stretches are as follows :

1. Kudremukh, Chickmagalur District (Bhadra River)
2. Bhadravathi (Bhadra River)
3. Harihar (T.B. River)
4. Dandeli (Kali River)

The major industrial centres of Karnataka are Bangalore, Mysore, Nanjangud, Shimoga, Bhadravathi, Harihar, Mangalore, Hubli-Dharwad, Tumkur, Belgaum, Gulbarga, Raichur, Bidar, Bellary and Kolar.

Predominant industries in the State are Pulp & Paper, Sugar, Distillery, Cement, Engineering, Electronics, Chemicals and Pharmaceuticals, Mining industries, Software, Garment stitching and washing industries.

### 5.6 Status of Coffee pulping units

There are number of Coffee estates in Coorg, Chamarnajagar, Chickmagalur, and Hassan Districts, out of which, 1795 units are identified under the purview of pollution control laws. Since, the coffee pulping operations are seasonal; the pollution problems are confined to the pulping season from November to April.

The status of coffee pulping units is as follows :

	2003-04	2002-03	2001-02
Number of coffee pulping units.	1795	1789	1612
Number of units having ETP	22	22	42
Number of units provided lagoons for treatment.	1629	1711	1560
Number of units where ETP under planning stage	128	0	10
Number of units applied for consent.	1245	1349	1254
Number of Coffee pulping units having 3 years consent (issued prior to 1.4.2002) and which is valid during the period under report.	252	476	183
Number of units obtained consent under Water Act	1241	1343	1247
Number of consents Refused	3	2	4
Number of Prosecution launched	0	0	0
Number of Prohibitory Orders issued	9	15	51
Number of Closure Orders issued	2	0	1
Number of Proposed Directions issued.	0	0	3
Number of Notices issued for not applying for consent <sup>755</sup>	755	1316	665
Number of units for which 3 year consent has been issued during 1.4.2002 to 31.3.2003	358	267 (1.4.02 to 31.2.03)	309 (1.4.01 to 31.3.02)
Number of pulping units not applied for consent	514	421	-

## 5.7 Pollution Control Measures

The Karnataka State Pollution Control Board is regulating the discharge of effluents and air emissions from industries through issue of consents under Water and Air Acts. While issuing consents, conditions are being imposed regarding the effluent standards and also emission standards to which the industries have to comply with. Further, clear-cut directions will be given in the Consent Order regarding proper maintenance of pollution control systems, periodical analysis of effluent samples, stack emission samples and submission of periodical reports. These aspects will be closely monitored by the staff of the Regional Offices who also collect and analyse the samples for verification regarding compliance to consent conditions. The industries are being vigorously pursued to ensure that the pollution control systems are installed and commissioned within the stipulated time. In respect of new projects, the Consent for Establishment is being issued only after examining the suitability of the site and scrutiny of the pollution control proposals. First consent for making discharge of emission and treated effluent i.e. for commissioning the industry will be issued only if the industries have provided stipulated pollution control measures. Also, the Board is encouraging the industries to adopt cleaner production techniques like recycle, reuse, recover concept.

As per Section 25/26 of Water (Prevention & Control of Pollution) Act, 1974, and Section 21 of Air (Prevention and Control of Pollution) Act, 1981, consent for discharge of effluents/emissions are being issued by the Board by stipulating the standards as per the Environment (Protection) Rules, for such effluents/emissions.

The Environment (Protection) Act, 1986 has come into force in the whole of India from 19<sup>th</sup> November 1986 and as per Section 3(2) (iv) of this Act, the Central Government has the power for laying down standards for emissions or discharge of environmental pollutants from various sources in order to protect the environment. In exercise of this power, the Central Government has been prescribing standards for emissions/effluents etc, in the Environment (Protection) Rules. The Environment (Protection) Act is an umbrella Act, which covers the environmental pollution problems in its totality and said Act and Rules framed there under are applicable through out the country. However, as per rule 3(2) of the Environment (Protection) Rules, 1986, State Pollution Control Board may specify more stringent standards than what is specified under Environment (protection) Rules, 1986. Under the Environment (protection) Rules, the following standards have been stipulated.

1. Industry specific standards for emission/ effluent discharge;
2. General standards for discharge of environmental pollutants;
3. Ambient air quality standards; and
4. Standards for emission of smoke, vapour, etc, from motor vehicles prescribed in schedule - IV.

The Ministry of Environment & Forests, Government of India, in its Notification No. SO 60 (E), dated 27.1.1994 has specified the projects which require environmental clearance from the Central Government. Also, Government of India, in its Notification No.SO 318(E), dated 10.4.1997 has prescribed a process of Public Hearing in respect of those cases that require Environmental Clearance by the Government of India. The Board during the financial year 2003-2004 has conducted 20 Public Hearings for the projects falling under EIA Notification.



## (A) Consent Status

Consent and authorization is simple and straight forward service Board provides to entrepreneurs. The three major stages involve entrepreneurs approaching us under the applicable Act. Board will consider their application and issue consents/authorizations with conditions. The entrepreneur has to adhere to the conditions failing which the Board refuses consent with the reasons for further periods.

Non adherence to our consent/authorization conditions will compel us to initiate legal action with intimation.

Board constantly updates knowledge in legislation and technology to issue consents and authorizations under various Acts and Rules. Our work includes review of application for consents/authorization and issue consents / authorization with conditions, monitoring of treated effluent, emissions, ground water, Ambient Air Quality (AAQ), River water quality monitoring, etc. Our conditions are binding, practicable and vary from business to business.

Board provide consent/authorization to stake holders on technology options, limit of discharge/handle effluents, emissions, hazardous waste, biomedical waste, municipal waste by adopting standards and requirement prescribed in various Acts and rules.

Board is issuing consents under Water (Prevention and Control of Pollution) Act 1974 and Air (Prevention and Control of Pollution) Act 1981.

Details of consent application received, pending and refused during the period under report are as follows :

	Water Act	Air Act
No.of consent applications received	<b>7293</b>	<b>8729</b>
No.of consent application pending	<b>1446</b>	<b>1530</b>
No. of consent application refused	<b>118</b>	<b>143</b>

### i) Water Pollution Control Status

Industry	Total No. of * industries	ETP under operation	EIP under construction	EIP under planning	Defaulters	Connected to UGD	Industry	
							Closed	YTC
Large	925	690	15	16	6	70	128	168
Medium	1555	964	20	28	4	234	305	121
Small	10358	5452	90	169	160	2346	2141	1001
<b>Total</b>	<b>12838</b>	<b>7106</b>	<b>125</b>	<b>213</b>	<b>170</b>	<b>2650</b>	<b>2574</b>	<b>1290</b>

\* Total number of industries does not include yet to commission (YTC) units.



The Board during the year under report has issued 5729 Consent for Operation under the Water (Prevention & Control of Pollution) Act, 1974.

Number of Consent for Establishment / Expansion of industries issued during the year 1368.

## ii) Air Pollution Control Status

Industry	Total No. of industries*	APC system under operation	APC system under construction	APC system under planning	Defaulters	Industry	
						Closed	YTC
Large	938	774	14	9	12	129	168
Medium	1552	1219	9	9	11	304	117
Small	11485	8695	137	179	674	1800	1035
<b>Total</b>	<b>13975</b>	<b>10688</b>	<b>160</b>	<b>197</b>	<b>697</b>	<b>2233</b>	<b>1320</b>

\* Total number of industries does not include YTC.

The Board during the year under report has issued 7056 Consent for Operation under the Air (Prevention and Control Pollution) Act, 1981.

Details of consents issued earlier to 1.4.2003 and are valid during the period under report is as follows :

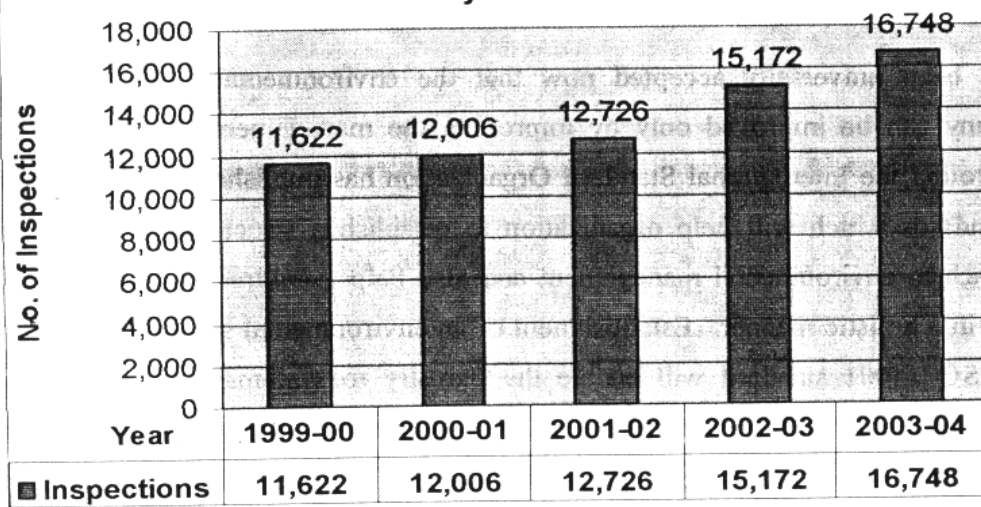
Consent Validity	Issued prior to 1.4.2003		Issued during 1.4.03 to 31.3.04	
	Water Act	Air Act	Water Act	Air Act
One time consent	116	151	0	0
Consent valid for two years	116	168	112	119
Consent valid for three years	211	202	197	255
Consent valid for five years	7	16	11	43
Consent valid for ten years	663	936	421	359

## (B) Details of Inspections Conducted

Sl.No.	Regional Office	Large	Medium	Small	L.B.	Complaints	Others	Total
1	Bng-South-I	34	103	133	1	14	0	285
2.	Bng-South-II	114	148	395	1	17	0	675
3	Bng-North	161	395	578	8	36	0	1178
4	Bng-City-I	154	175	1130	0	217	0	1676
5	Bng-City-II	38	105	253	0	29	0	425
6	Bng-East	170	167	289	12	32	0	670
7	Bng-West	94	105	583	1	23	0	806
8	Peenya	32	119	743	0	13	0	907
9	Mandya	33	38	419	13	14	0	517

10	Tumkur	65	56	275	7	21	20	444
11	Hassan	47	44	962	25	57	0	1135
12	Mysore	274	53	599	16	15	0	957
13	Dakshina Kannada	120	34	431	5	55	0	645
14	Udupi	15	23	588	20	23	0	669
15	Dharwad	49	40	387	15	18	0	509
16	Gulbarga	31	9	221	25	2	0	288
17	Bijapur	13	6	207	7	5	76	314
18.	Belgaum	110	70	679	46	32	0	937
19	Bagalkot	33	18	248	6	10	0	315
20	Bidar	47	70	284	6	0	0	407
21.	Bellary	57	28	542	0	17	0	644
22	Chitradurga	11	46	233	14	21	0	325
23	Kolar	32	56	216	26	1	0	331
24	Shimoga	48	33	244	12	19	0	356
25	Raichur	94	25	220	44	24	0	407
26.	Davangere	64	36	327	7	13	0	447
27.	Karwar	50	34	350	18	27	0	479
<b>TOTAL</b>		<b>1990</b>	<b>2036</b>	<b>11536</b>	<b>335</b>	<b>755</b>	<b>96</b>	<b>16748</b>

**Number of Inspections conducted during last five years**



During the year under report, the Board has received 928 complaints, out of which, 787 complaints have been attended and 787 complaints have been disposed.



## 5.8 Status of 17 Category Highly Polluting Industries

The Board has identified 144 units under 17-category. The summary of pollution Control Status of 17-category industries as on 31.3.2004 is at **ANNEXURE XVI**. Out of 144 industries, 105 industries are working, 39 industries are closed.

The Ministry of Environment and Forest, Government of India has identified 17-categories of highly polluting industries as a priority sector from pollution point of view. These industries are required to fully comply with pollution control norms and continue to remain in compliance.

These industries are required to comply with the provisions of the Water Act, Air Act, and the provisions of the Environment (Protection) Act. At present the Karnataka State Pollution Control Board is insisting the industries to have an Environmental Cell with qualified and competent staff and also to establish Self Monitoring System.

It has been universally accepted now that the environmental performance of a company can be improved only by improving the management practices. In this background the International Standard Organization has published ISO 14000 series of standards which will help organization to establish a structured and systematic approach to environmental management and also help to address the environmental issues in a holistic manner. Establishment of an environmental system in conformity with ISO 14001 standard will enable the industry to systematically comply with requirements of the law, prevent pollution and also to improve the environmental performance continually. ISO 14000 certification will also enable the industries to demonstrate their commitment to environmental protection to the interested parties.

By promoting the industries to go in for ISO 14000 certification, the enforcement burden on the Board will also come down since the industry itself will be taking care of the requirements of the law proactively.

Considering the above advantages it is felt appropriate to encourage or promote the adoption of ISO 14000 by the industries in Karnataka. The Board in its 139th Meeting held on 21.06.2001 have recommended to make ISO 14001 certification compulsory for highly polluting industries. In the first phase 17-category industries are being insisted to start this process.

At present twelve 17-category industries have obtained ISO 14001 certification. CPCB & MoEF has evolved "Character on Corporate Responsibility for Environmental Protection (CREP)" during March 2003 which enlists action points for 17 category highly polluting industries. These action points are addressed to corporate bodies as well as Regulatory Agencies. Thus, the charter is a commitment for partnership and participatory action of the concerned stakeholders. The charter is also a road map for progressive improvement in environmental management systems (EMS).

As per the CREP, the SPCB's are required to verify compliance status of 17 category highly polluting industries with the National Standards notified under the Environment (Protection) Act, 1986 in the State within June 2003 and to insist for bank guarantee in respect of non-complying units along with action plan to ensure compliance.

Implementation of CREP action plan is monitored.



## 5.9 Implementation of Hazardous Waste (Management and Handling) Rules, 1989, And Amendment Rules, 2000, 2003.

Hazardous Waste (Management & Handling) Rules, 1989 was notified by the Ministry of Environment and Forest, Government of India during 1989 under the provisions of Environment (Protection) Act 1986 and subsequently made an amendment to the same during January 2000 and May 2003.

As per the provisions of the above said Rules, Board has identified 1367 Hazardous Waste generating industries and their status is as follows :

Number of industries identified	1367
Number of industries not working	188
Number of industries working	1179
Number of industries applied for authorization	1167
Number of authorization granted	1128
Number of industries not applied for authorization	12
Number of proposed directions issued	02
Number of closure orders issued	74
Number of show cause notices issued	20
Number of seizure orders issued	01

Details of units authorized to reprocess hazardous wastes in given in **ANNEXURE XVII A to XVII G.**

### 5.9.1 Quantity of Hazardous Waste

Hazardous waste has been classified based on their characteristics and also on the principles of recycle/reuse/reprocess.

* Reprocessable Waste	23,329.531 MT/YR
* Incinerable Waste	5410.794 MT/YR
* Landfill Waste	63273.140 MT/YR
* <b>TOTAL</b>	<b>92,013.465 MT/YR</b>

### Hazardous Waste Generated in Karnataka State (District Wise)

Sl. No.	District	No. of units identified	No. of units applied for authorization	No. of units not working	Total hazardous waste generated per year in Metric Tonne
1	Bangalore	646	565	81	10930.839
2	Mangalore	78	72	6	4064.381
3	Mysore	102	89	13	5105.456
4	Chamarajnagar	1	1	0	0.8



5	Coorg	1	1	0	0
6	Gulbarga	37	31	6	622.4
7	Bijapur	10	10	0	65.49
8	Belgaum	76	64	12	5653.62
9	Bagalkote	23	22	1	55.89
10	Bellary	27	25	2	28391.1
11	Dharwad	45	34	11	2108.506
12	North Canara	19	17	2	4403.56
13	Haveri	12	11	1	40.3
14	Gadag	6	6	0	41.801
15	Mandya	10	9	1	41.824
16	Tumkur	46	36	10	223.393
17	Hassan	14	12	2	237.37
18	Chickamagalore	7	7	0	328.5
19	Bidar	24	17	7	5437.94
20	Raichur	19	18	1	395.085
21	Koppal	14	14	0	16564.08
22	Davanagere	27	21	6	1715.87
23	Chitradurga	29	22	7	23.4
24	Shimoga	55	42	13	3546.857
25	Kolar	39	33	6	2015
	<b>Total</b>	<b>1367</b>	<b>1179</b>	<b>188</b>	<b>92013.462</b>

### 5.9.2 Common Disposal Facility in Karnataka

Karnataka State Pollution Control Board has identified several candidate site for common disposal facility out of which one site of 125 acres at Siddalaghatta taluk of Kolar district was finalized. This site is at 70 KM distance from Bangalore and the land belongs to Forest Department. Government of India has cleared the leasing of land with conditions on 22/10/2002.

Another site at Dabbespet Industrial Area, Nelamangala Taluk, Bangalore Rural District at 40 KM from Bangalore has been identified. The area of site is 102 acres. This is a private land and Government has requested to acquire the land through Karnataka Industrial Area Development Board.

As per the provisions of Hazardous Waste (Management & Handling) Rules, prefeasibility study has been conducted and a public notice is issued on 22/2/2003 & 23/2/2003 in leading news papers inviting objections from the public on the establishment of common Treatment, Storage and Disposal Facility (TSDF) for Hazardous Waste at both the sites. Environmental Impact Assessment studies for the Siddalaghatta site is under progress. The Public hearing was conducted for the Dobbespet site on 20/02/2004 and the Government has accorded approval on 21/04/2004 for the same.



### 5.10 Implementation of Batteries (Management & Handling) Rules, 2001

Batteries (Management & Handling) Rules, 2001 was notified by the Ministry of Environment and Forest, Government of India during May 16<sup>th</sup> 2001.

These rules are applicable to every manufacturer, Importer, Reconditioners, Assembler, Dealer, Recycler, Auctioner, Consumer and Bulk consumers involved in manufacture, processing, sales, purchase and use of Batteries and components thereof.

As per the provisions of the above said Rules, Board has identified 1094 Battery handling units in the State. Notices have been issued clearly indicating the provision of rules and the penal provision under rules for all the identified units.

#### Details of action taken by the Board under Batteries (Management & Handling) Rules, 2001

Number of units identified under Battery Rules	1094
Number of Battery Manufacturing units complying the rules	09
Number of dealers complying the rules	19
Number of lead recyclers identified under Battery Rules	13
Number of lead recyclers complying the rules	01

### 5.11 Status of Brick Kiln :

Number of Brick Kilns identified in the State :

- i. Hoffman's Kilns - 54
- ii. Bull's Trench Kilns - 51
- iii. High Draught Kilns - 1

Number of Brick Kilns complying with the notification (Hoffman's Kiln) - 54

The Board has authorized the concerned Regional Officers to file criminal cases under Environment (Protection) Act against all the 51 non-complying units.

### 5.12 Status of Implementation of Fly Ash Notification :

There are 5 thermal power plants in Karnataka which are engaged in the generation of power using coal and **one** more unit uses corex gas and coal that are covered under the notification.



Status of power plants with respect to use of fly ash generated :

Sl. No.	Name & Address	Power Generating Capacity (MW)	Quantity of fly ash generated MT/Year	Fly ash utilization in % of generation	Remarks
1.	Vasavadatta cements, Sedam, GulbargaDst	15MW Captive	27,699	100	In addition to fly ash generated in their captive power plant, the industry has also lifted 60,833 MT from Raichur Thermal Power Station.
2.	Rajashree Cements, Aditya Nagar, Malked Gulbarga Dst.	38.2MW Captive	65,022	100	In addition to fly ash generated in their captive power plant, the industry has lifted 78,728 MT from Raichur Thermal Power Station.
3.	Tata Power Corporation Ltd. Wadi, Gulbarga dist.	75 MW Captive	66,440	100	Fly ash generated utilized for manufacture of cement within their industry.
4.	Grasim Industries Ltd. Kumarapatnam, Haveri	10 MW Captive	13,900	65	The fly ash is used for manufacturing bricks in clamp type kilns and remaining for soil conditioning by local farmers.
5.	Jindal Thermal Power Company Ltd. Thorangalu Bellary	2x130 MW Captive	25,073	51	This plant uses both corex gas supplied by M/s Jindal Vijayanagar Steels Ltd. and imported coal in the ratio of 60:40. Fly ash generated is used for brick as well as for cement units.
6.	Raichur Thermal Power Station, Raichur	7x210 MW distribution	17,55,901	30	The balance quantity of ash generated (70%) is contained in ash pond along with the fly ash generated during earlier period.

All the above units are complying with the provisions of Fly Ash Notification Dated : 14-09-1999.

### 5.13 Implementation of Bio-Medical Waste (Management and Handling) Rules, 1998

The Ministry of Environment and Forest, Government of India, New Delhi, notified the Bio-Medical Waste (Management & Handling) Rules. 1998, under the provisions of the Environmental (Protection) Act, 1986. The said Rules extend to whole of India and came into effect from 20/07/1998. The Government of Karnataka, Department of Forest, Ecology & Environment, constituted Prescribed Authority, Appellate Authority and Advisory Committee for implementation of the said Rules in the State of Karnataka vide Government Order No. FEE 126 ENV 98, dated: 23/4/1999. Further, three amendments to the above said Rules was notified on 6/3/2000, 02/6/2000 and 17.09.2003 by the Government of India. According to the second Amendment notified on 2/6/2000, the prescribed authority for enforcement of the provisions of the said Rules in the State



Pollution Control Boards. The Advisory Committee was reconstituted vide G.O. No. FEE 126 ENV 98 (P-3) Bangalore, Dated : 25/7/2002.

The above said Rule is applicable to all persons who generate, collect, receive, store, transport, treat, dispose and/or handle bio-medical waste in any other manner, such as occupier of Clinics, Dispensaries, Pathological Laboratories, Blood Banks and are required to obtain authorization by submitting Form-1 along with authorization fee notified vide G.O. No. FEE 126 ENV 98 (II) Bangalore, dated : 24/8/2002.

However, thirteen hospitals had questioned the provision of authorization fee at the Hon'ble High Court and while disposing those writ petitions the Hon'ble High Court in its judgement dated 16.7.03, has opined that, the levy of authorization fee for issue of authorization is ultravires.

**Authorization Status :** The Board has identified 6269 HCEs and 3460 Veterinary Institutions. First notices were issued to all the identified HCEs and Veterinary Institutions, appraising them to apply for authorization and to comply with the Rules. The Board has received 3056 authorization applications in the year 2003-04. Authorization has been granted to 2882 HCEs in the year 2003-04 after inspection by the field officers. During inspection the Rules are being appraised to the occupiers of HCEs.

#### Number of Health Care Establishments (HCEs) covered under Bio-Medical Waste Rules :

500 Beds and Above	26
Below 500 Beds	6243
<b>Total</b>	<b>6269</b>

#### Number of Authorization applications received under the Rules.

HCEs with No. of Beds	No.of HCEs applied
500 beds and Above	26
Below 500 Beds	3030
<b>Total</b>	<b>3056</b>

#### Compliance to authorization Conditions :

Sl. No.	HCEs with bed strength	Total No.of HCEs		No.of HCEs having Captive treatment facility as per BMW Rules, 1998.		No.of HCEs attached to Common Waste Treatment Facility		No.of HCEs With Deep burial facility		No.of HCEs with treatment facilities under planning stage	
		Govt.	Pvt.	Govt.	Pvt	Govt.	Pvt	Govt.	Pvt	Govt.	Pvt
1	More than 500	12	14	1	7	7	7	3	-	1	-
2	Between 200 to 500	27	24	2	11	7	7	16	3	2	3
	Less than 200	2525	3677	110	63	264	1206	1214	625	927	1783

## Region wise Status of Health Care Establishment

## District wise authorization status for the year 2003-04

Sl. No.	Regional Office	District	Total HCE's Identified			Total Applied			Total issued		
			G	P	V	G	P	V	G	P	V
1	City - I	Bangalore Urban	19	638	12	8	87	9	8	53	3
		Bangalore Urban	12	236	7	3	43	1	3	43	1
	City-II	Bangalore Urban	1	8	1	0	1	1	0	1	0
		Bangalore Urban	4	55	1	0	12	0	0	12	0
	South - I	Bangalore Rural	10	11	13	0	7	0	0	7	0
		Bangalore Rural	15	38	24	10	18	17	10	18	17
	South - II	Bangalore Rural	64	53	77	43	11	35	43	11	35
		Bangalore Rural	64	63	134	41	55	28	41	55	28
2	Tumkur	Tumkur	150	153	197	54	32	1	54	32	1
3	Raichur	Raichur	57	45	76	56	33	0	56	33	0
		Koppal	51	32	66	48	21	0	45	21	0
4	Gulbarga	Gulbarga	147	190	250	98	159	0	98	159	0
5	Davangere	Davangere	129	165	157	129	52	125	129	52	125
6	Bijapur	Bijapur	72	74	111	65	73	0	33	70	0
7	Shimoga	Shimoga	100	188	138	77	18	137	77	15	1
8	Chitradurga	Chitradurga	93	52	114	56	17	0	56	17	0
9	Karwar	Karwar	98	78	121	64	60	59	64	46	0
10	Dharwad	Dharwad	41	198	111	36	137	57	36	127	57
		Gadag	43	55	75	23	21	67	21	17	67
		Haveri	61	54	111	24	9	73	24	9	73
11	Belgaum	Belgaum	159	293	196	105	163	60	105	163	60
12	Bagalkot	Bagalkot	55	100	107	19	60	0	8	47	0
13	Bellary	Bellary	94	120	90	64	76	3	64	73	0
14	Bidar	Bidar	61	68	96	38	34	1	35	18	0
15	Dakshina Kannada	Dakshina Kannada	82	144	83	28	63	1	28	63	1
		Udupi	78	75	85	46	25	0	46	25	-
16	Kolar	Kolar	146	119	190	70	60	38	70	55	38
17	Hassan	Hassan	141	55	164	41	31	157	37	31	127
		Chikmagalur	97	49	124	24	12	1	18	12	1
18	Mysore	Mysore	176	234	218	134	94	77	134	94	77
		Kodagu	46	9	53	40	9	31	40	6	31
		C R nagar	62	14	59	36	12	0	32	11	0
19	Mandya	Mandya	130	66	199	31	40	174	31	40	18
	<b>Total</b>		<b>2554</b>	<b>3715</b>	<b>3460</b>	<b>1511</b>	<b>1545</b>	<b>1153</b>	<b>1446</b>	<b>1436</b>	<b>761</b>

Note : G - Govt. P - Private V - Veterinary



### Other Steps taken by the Board to implement the Rules effectively :

1. The Board has already completed the inventorisation of health care establishments by employing the services of consultants at the regional levels. However, it is on going process and the data base is getting up dated as and when the new hospitals are established and also based on the fresh surveys conducted by the Regional Officers.
2. All the Deputy Commissioners have been requested to identify and provide land for setting up Common Bio-Medical Waste Management facility.
3. Press notices have been issued informing the concerned HCEs to apply for authorization and to comply with the Rules. Press Notices have been issued in news papers informing all the concerned to submit Annual report in Form - II. Individual notices have also been issued in this regard.
4. Training is being conducted through Environmental Management and Policy Research Institute for HCEs and officers of the Board on implementation of the Bio-Medical Waste (Management and Handling) Rules, in the State. More than eighty such training programmes are already conducted in the State. Apart from these, EMPRI has conducted training/workshops in four revenue division of Karnataka especially for Government Hospitals on Management and Handling of Bio-Medical Waste.
5. As per the directions of CPCB, Board has taken steps to ban individual incinerators within the City limits. Press note in this regard is issued in the leading newspapers.
6. Board has developed handouts, pamphlets and calendars related to Bio-Medical Waste management to create awareness.
7. The Board has constituted taskforce for effective implementation of Bio-Medical Waste (Management & Handling) Rules, 1998 in the State. The taskforce is initially working in six city corporation areas and inspects Health Care Establishments and appraise the concerned authorities about the guidelines for scientific disposal of Bio-Medical Waste as notified under the Rules.
8. The Board has issued Show Cause Notices of proposed directions to the non-complying health care establishments and called for Personal Hearing. Material evidence is being collected for initiating legal action against such defaulting health care establishments. So far, 3140 Show Cause Notices and 78 notices of proposed directions are issued as per section 5 of Environment (Protection) Act, 1986.
9. The Board has also issued notices to put up ETP for treating liquid effluents to those HCEs having more than 200 beds.

**Common Treatment Facility :** Board is encouraging common bio-medical waste treatment and disposal facility to handle Bio-Medical Waste. The status of the common bio-medical waste treatment facilities are given in next page :



Sl.No.	Name of the firm	Location	Status
1	Maridi Eco Industries	Bangalore	Operating with valid consent and authorization of the Board
2	Medicare Incin Pvt. Ltd.	Bangalore	Operating with valid consent and authorization of the Board
3.	Shree consultants	Mysore	Operating with valid consent and authorization of the Board.
4	Association of Doctors and Nursing Homes,	Belgaum	Operating with valid consent and authorization of the Board.
5	Hubli-Dharwad Bio-medical waste treatment facility	Hubli	Operating with valid authorization of the Board.
6	Centre for Environment Education	Gulbarga	Under installation, CFE issued
7	Common Bio-Medical Waste treatment facility at Mangalore	Mangalore	Under installation, CFE issued
8	Common Bio-Medical Waste treatment facility at Shimoga	Shimoga	Under installation, CFE issued
9	Sushanth Enviro Tech. Association of Doctors and Nursing Homes	Davanagere	Under installation, CFE issued
10	Karnataka Private Medical Establishment Association	Bijapur	Under installation, CFE issued

#### 5.14 The Recycled Plastics Manufacture and Usage Rules, 1999

The Ministry of Environment and Forest (MoEF) has notified the Rules called “Recycled Plastics Manufacture and Usage Rules, 1999” on 2/9/1999 under Environmental (Protection) Act 1986, and the same is amended vide Notification dated 17/06/03.

The prescribed authority for enforcement of the provisions of these rules relating to manufacture and recycling is the Karnataka State Pollution Control Board in the State. Prescribed authority for enforcement of the provisions of these rules relating to the use, collection, segregation, transportation and disposal is the Deputy Commissioner/District collector of the concerned district. The Board has circulated the said rules to all the Deputy Commissioners of the State for enforcing the provisions of the said Rules.



### Details of Action Taken By the Board under Recycled Plastic Manufacture and Usage Rules.

Number of units identified under these Rules	501
Plastic industries engaged in the manufacture of carry bags and containers	283
Number of Plastic industries closed	30
Number of Plastic industries applied for registration	67

Karnataka State Pollution Control Board has issued a public notice on 15-3-2000, 31-7-2003 & 3-12-2003 in leading English and local language newspapers by highlighting the Rules relating to manufacture and recycling of plastics in order to create awareness among the manufactures and the public. Further the occupiers of units engaged in manufacture of carrybags or containers of virgin or recycled plastic or both were called to make an application in Form-I to Karnataka State Pollution Control Board for registration of units with 4 months from 17-6-2003.

Now the manufacturers/traders of plastic carry bags and users are aware of the provisions of the Rules. Manufacturers have started manufacturing plastic carry bags of thickness more than 20 microns and filing applications for registration of units as per Recycled Plastic Manufacture & Usage (Amendment) Rules 2003.

In the initial stage of the implementation of Rules, the Board has taken up the survey of identification of plastic recycling and carry bag manufacturing units in the State. Board has issued notices to all these units by asking them to comply with the provisions of the said Rules and to adopt the prescribed manufacturing guidelines.

Task force have been constituted by Deputy Commissioners in some of the major districts consisting of representatives from NGOs, Pollution Control Board, Association of Plastic Carry Bag manufacturers/traders etc., in order to implement the Rules effectively.

The Board Officers with Co-operation from the Deputy Commissioners of the District have conducted raids on the traders/shops selling plastic carry bags with thickness less than 20 microns and have seized the stock.

It has come to the notice of the Board that the Plastic Carry bags are being transported to our State from the neighbouring States. In this connection, the Board has requested all the Deputy Commissioners of the district to take suitable action against such traders who are selling banned plastic carry bags. Also Board has requested the Commissioner, Department of Commercial Tax to initiate action to stop inflow of banned thin and coloured plastic carry bags into the State.

Board has issued following directions under Section 5 of the Environment (Protection) Act, 1986.

- \* for restricting the use of plastic articles of less than 20 microns thickness like plastic carry bags, sheets, plates, cups in choultries/kalyan mantaps;
- \* for banning of printing election and other posters on plastic sheets of less than 20 microns thickness; and
- \* for restricting the use of plastic articles in the areas of Lalbagh and Cubbon Parks in Bangalore.

Above directions have been published in the leading english and local language news papers to create awareness in the public.



### 5.15 The Noise Pollution (Regulation and Control) Rules, 2000

The Board is monitoring noise levels where the specific complaints on noise pollution are received and action is being taken accordingly.

Complaints pertaining to noise pollution emanating from D.G. Sets, Power looms and tiny fabrication units located in the residential area are attended to immediately by directing the concerned owner to provide acoustic measures to bring down the noise level to the prescribed limits within the stipulated time.

The Board has undertaken monitoring of noise level emanating from crackers during Deepavali festival. The monitoring has been done throughout the State on 24th, 25th & 26th October 2003. The maximum noise level recorded in different districts ranges from 40 dB(A) to 101.28 dB (A) in industrial zone, 48 dB(A) to 128 dB (A) in commercial zone, 40 dB (A) to 106.16 dB (A) in residential zone and 33 dB (A) to 81.44 db (A) in silence zone.

### 5.16 Municipal Solid Wastes (Management and Handling) Rules, 2000

These Rules were notified on 25th September, 2000. The Board has circulated the copies of these Rules to the District Magistrates (Deputy Commissioners) of all the districts of the State. It was also explained briefly while circulating the copy of the notification about the responsibility of the Deputy Commissioners for implementation of these Rules. The Board has also circulated the copies of the notification to all the local bodies (City Corporations, City Municipal Councils, Town Municipal Councils and Town Panchayats) of the State and also directed them to comply with the Municipal Solid Waste Management Schedules of the Notification. Board has published the said Notification highlights in major newspaper of the State both in english and local language in order to give wide publicity to the public and the local bodies. Board in coordination with District Municipal Administration conducted awareness for the City Municipal Council, Town Municipal council to create awareness on the Municipal Solid Waste Rules.

During the reporting period 223 local bodies have filed applications for obtaining authorization under the Rules KSPCB has granted 212 authorizations, 8 applications have been rejected on the grounds that the sites identified are not suitable and remaining 3 applications are under consideration. Besides, 3 local bodies have not applied for authorization in spite of requests, repeated reminders and persuasion. However, the local bodies are yet to take up the work of establishing the landfill sites as per the Rules.

The Karnataka Urban Infrastructure Development and Finance Corporation (KUIDFC) have taken up projects in Bhatkal, Ankola, Sirsi, Karwar, Udupi, Kundapura, Mangalore, Ullal, Puttur, Dandeli local bodies.

Annual Report required under the Rules has been furnished to the CPCB on 30-12-03.

Implementation of Municipal Solid Waste (Management and Handling) Rules is concerned to Department of Municipal Administration (DMA). Hence, the Board repeatedly pursuing this Department to insist all the concerned authorities of the local bodies to implement the landfill site as per the Rules. The DMA in consultation with Karnataka Compost Development Corpn. (KCDC) is finalizing the preparation of DPR's on BOO basis and adoption of the inertisation technology is being proposed.



Environmental Management Policy and Research Institute (EMPRI), Bangalore has conducted 31 training programs during 2003-04 and trained 1015 elected representatives of Municipalities.

Action is being taken to set up a State level 'Advisory Group' consisting of representatives from SPCB, KCDC, DMA, EMPRI, reputed National and International Organization, CPCB Zonal Office, by fixing the role and responsibility of the 'Advisory Group'.

Bangalore Mahanagara Palike (BMP) has taken steps for door-step collection of wastes from the houses at certain locations in the Bangalore.

The Bangalore Agenda Task Force (BATF) are organizing the solid waste management like collection, storage, segregation, transportation, processing and disposal of MSW in a large manner for the city of Bangalore and the same will be extended to other cities of Karnataka.

### 5.17 National River Action Plan

During 1995-96, the National River Conservation Directorate (NRCD) of Government of India, Ministry of Environment and Forests, under National River Action Plan (NRAP) has short listed eight towns of Karnataka with an objective to prevent pollution of major River. The Department of Ecology and Environment of Government of Karnataka is the Nodal Agency for implementation of the schemes under the NRAP. The pollution abatement schemes are of two types, viz., Core Schemes and Non-Core Schemes. The Karnataka Urban Water Supply and Drainage Board (KUWS & SB) is the implementing agency for Core-Schemes. Government of India, Ministry of Environment and Forests, has released grant for Non-Core Schemes to Karnataka State Pollution Control Board, the Board in turn has released the grants to Local Bodies who are implementing the Non-Core Schemes. The eight towns spanning the banks of two river basins namely Cauvery and Krishna are -

Sl.No.	Town	Basin
1	Nanjangud	Cauvery Basin
2	K.R.Nagar	
3	Srirangapatna	
4	Kollegal	
5	Shimoga - Tunga	Krishna Basin
6	Bhadravathi - Bhadra	
7	Davangere - Tungabhadra	
8	Harihar - Tungabhadra	

The NRCD has accorded following pollution abatement schemes for the eight towns under Core and Non-Core Schemes.



**Core Schemes :**

The core schemes include following activities :

1. Interception and diversion of domestic sewage including construction and rehabilitation of sewers and pump houses; and
2. Construction of new sewage treatment plants with an emphasis on resource recovery.

Karnataka Urban Water Supply and Drainage Board (KUWS&DB) has been identified as implementing agency and is responsible for implementation of the programme.

**Non-Core Schemes :**

Non-Core Schemes include Low Cost Sanitation (LCS) which includes construction of individual toilets, community toilets, construction of Crematoria, Construction of Bathing Ghats, Afforestation, Public Awareness, Solid Wastes Management.

Municipalities have been identified as implementing agency and are responsible for implementation of the programme in the field.

The status of implementation of Non-Core Schemes is given in the next page.

### 5.18 Water Cess

The Water Cess is payable by the scheduled industries and local authorities for the water consumed by them at the rates specified in the Act and Rules. The water cess is one of the revenue to the Board.

The Cess assessed and collected for the financial year 2003-2004 is Rs.4,02,80,489/- and Rs.2,31,06,790/- respectively.

A detailed status on cess assessment is given below :

	Monthly	Quarterly	Half Yearly	Yearly	Total
No.of industries covered Under Cess Act	217	68	207	1032	<b>1524</b>
No.of industries filling cess returns	190	57	183	467	<b>897</b>
No.of local bodies filling cess returns	28	10	7	0	<b>45</b>
No.of cess returns received	1333	194	289	1174	<b>2990</b>
No.of suo-moto notices issued	236	12	23	113	<b>384</b>
No.of suo-moto assessment orders issued	290	10	20	12	<b>332</b>

### 5.19 Status of World Bank Funded Environmental Management and Capacity Building - Technical Assistance (EMCB - TA) Project.

The Ministry of Environment & Forests, GOI has communicated that the following residual activities of erstwhile IPP Project have got the approval of World Bank under the ongoing EMCB-TA project. MOEF, GOI asked the KSPCB to go ahead with the proposed activities that need to be completed before 30th June 2004.

Refurbishing of the Head Office of the KSPCB - Rs. 120 lakh

Geo-referencing of Industries & IT implementation - Rs 40 lakh

The refurbishing work of the new head office, KSPCB was completed using the Board's funds, pending the retro-funding under the EMCB - TA project. The refurbishing included Modular Work Stations, Electrification, Local Area Networking, Fire detection system, Compacter File Storage System, UPS backup, Fixed wood work, Executive chairs, etc.

Steps are initiated for Geo-referencing of major and medium scale industries in Bangalore Urban and Rural Districts. Efforts are on to provide ISDN connectivity to all the Regional offices to make Internet connectivity faster for updating the Database through browser. It is proposed to shift the server from NIC to KSPCB's data centre in the Head office. These activities will be completed by 30th June 2004.

### 5.20. Status of Computerisation and Zoning Atlas

#### 5.20.1 Status of Online MIS Database of KSPCB

At present the MIS of the Board is on Oracle database with Oracle application server as the front end. The data is updated by the regional offices through internet. In addition to the information concerning consents and authorizations, modules are being developed for laboratory and Water Cess.

#### 5.20.2 Zoning Atlas Programme

The GIS core cell prepared Zoning Atlas for Raichur, Koppal, Belgaum and Mandya districts and sent them to MOEF, GOI for obtaining clearance from Ministry of Defence, GOI and Survey of India (SOI). The digitization of maps of industrial estates and areas is taken up and 74 Industrial Estates and areas were digitized. Field survey was completed in case of 16 estates.



### 5.21 Karnataka Urban Development and Coastal Environmental (KUDCEM) Project (ADB funded)

The Board has sent to Karnataka Urban Infrastructure Development and finance Corporation (KUIDFC), the detailed estimates and plans for the buildings proposed under KUDCEM project ( Sub component : Coastal Environmental Management System for Coastal Karnataka ) at Mangalore, Udupi and Karwar, with an estimated cost of Rs 240 lakh. After receiving the approval, tenders will be called for.

### 5.22 Abroad Training Programmes/Seminar Attended By Board Officers during 2003-2004

Financial year 2003-04 witnessed tremendous amount of practical training abroad to Board staff as part of Boards aim to build capacity among the staff. The details of the training and overseas visits by staff are mentioned below :

Sl. No.	Name	Training Program/Seminar	Date & Venue
1.	Sri. Sathish C.M.	Environmental Management Strategies for pollution Control implementation of Standards in petrochemical plants, USA	12 <sup>th</sup> May to 6 <sup>th</sup> June 2003 at USA

List of training programmes and workshops attended by the Board Officers is enclosed as **ANNEXURE XVIII**.

### 5.23 Awareness Programs and Other Functions Organized By the Board

Three vehicles namely Krishna, Cauvery & Tungabhadra targetting different population have been used for creating awareness:

#### Details of Public Awareness through Mobile Vans

Sl. No.	Vehicle Name	Total Distance covered(KM)	Target Population	Total Exhibition	Number of People Visited
1	Krishna	15953	School Children	243	159762
2	Cauvery	13273	Urban Residents	231	103516
3	Tungabhadra	13618	Small Scale Inds.	200	79880
	<b>Total</b>	<b>42844</b>		<b>674</b>	<b>343158</b>

Details of Awareness Programs and Seminars/Workshops sponsored/organized by the Board during the period 2003-04 are enclosed as **ANNEXURE XIXA** and **ANNEXURE XIXB**.

### 5.24 Establishment of Eco Clubs in Karnataka

The MoEF has commenced a new programme called 'National Green Corps' targeted at starting Eco-clubs in fifty thousand schools in the country. In Karnataka 2700 Eco-clubs are targeted to be started under the



National Green Corps programme this year. 27 revenue districts plus five education districts have been identified and 16 districts each have been assigned to Karnataka State Council for Science & Technology and Karnataka Rajya Vigyan Parishath.

The following are the main areas popularly selected for eco-clubs activities.

- \* Gardening ;
- \* Rainwater harvesting ;
- \* Health and sanitation ;
- \* Plantation ;
- \* Waste management ;
- \* Plastic disposal ;
- \* Energy conservation ; and
- \* Alternative energy.

### 5.25 Environmental Surveillance Squad

Surveillance Squad has been created in the Board as per the instructions of Central Pollution Control Board for conducting surprise inspection. The said squad works directly under the Chairman and headed by Senior Environmental Officer. Surprise inspections are conducted on receiving instructions from the Chairman of the Board.

### 5.26 Vigilance Cell

In order to audit boards functioning frequently and take corrective action Board started Vigilance Cell. The Cell in addition to impart continual quality improvement in the Board while implementing laws, it will discharge following broad duties :

1. To inspect the Regional Offices, this includes review of working of all the Officers and other staffs;
2. Random checking of the industries in implementation of the Pollution Control Measures and to cross check the reports of the officers;
3. To verify the compliance by the industries in complying to the directions issued by the Board in respect of closure, prohibitory orders etc;
4. To enquire in to the complaints received from the public on the staff ;
5. To enquire in to the delay in processing of the consents, government replies, Board Official's personal issues etc ;
6. To check the working of the Laboratories of the Board ; and
7. To attend to the instructions issued by the Chairman from time to time.



One of the tasks of Vigilance Cell is to identify the industries, which are operating without obtaining the consent of the Board. In this regard, the Vigilance Cell is conducting random checking of industries in implementation of the pollution control laws.

### 5.27 Submission of Environmental Statement :

Under Rule 14 of Environment (Protection) Rules, conducting Environmental Audit for the financial year ending 31st March every year and submission of Environmental Statement is compulsory for every industry covered under either Water (Prevention and Control of Pollution) Act, 1974, Air (Prevention and Control Pollution) Act, 1981, or Hazardous Waste (Management & Handling) Rules, 1989, from 1993, the Environment Statement has to be submitted to the State Pollution Control Board within 30th September every year as per Government of India Notification No.GSR 386(E), dated 22.4.1993. The main objective of Environment Statement is to serve as a management tool to the industry for the economic and environmental benefits. For this financial year, 1462 industries have submitted Environmental Statement. The Board in its 145th meeting has approved to levy Rs.500/- per year as administrative charge for all industries except for small green and medium green category industries for non submission of environmental statement within the stipulated time. During the financial year an amount of Rs. 99,000/- has been collected as administrative charge.

Till now 73 industries have obtained ISO 14001 certification in the State.

## 6. PROSECUTIONS LAUNCHED AND CONVICTIONS SECURED

The details of cases filed, public interest litigation cases, writ petitions filed and closure orders issued and their status are given in **ANNEXURE XX**.

## 7. FINANCE AND ACCOUNTS OF THE STATE BOARD

The financial year 2003-04 started with an opening balance of Rs.33,30,26,881.00. A total of Rs. 86,27,920.00 was received from Government of India towards reimbursement on the collection of Water Cess during the year.

An unaudited statement showing the Receipt and Expenditure for the period 2003-04 is also appended to the Report (**ANNEXURE XXI**).

## 8. VISITS TO THE STATE BOARD

Sri. Rajagopalan, Chairman Central Pollution Control Board visited the Board on 22.09.2003 and had discussion with officers of the Board on activities of the Board.

A team of experts from US EPA visited the Board on 10.11.2003

The financial year also witnessed the visit of Hon'ble Minister for Ecology and Environment Sri. Allum Veerabhadrappe on 14.11.2003.



## 9. OTHER MATTERS DEALT WITH BY THE STATE BOARD

### 9.1 Strengthening of the Infrastructure of the Board

In order to provide good business ambit to stake holders, the Board during the period under report has moved to its new premises located in Church Street on 07-02-2004.

### 9.2 Follow Up of the Annual Plan for the Year 2003-2004

#### Projects :

Sl.No.	Projects	Action taken by the Board
1.	Targeting Resources for Implementation and Management (TRIM) ;	TRIM program was organized through EMPRI to 20 Scientific & Administrative Staff .
2	Development of hazardous waste disposal site ;	The status of implementation is at item No.5.9.2.  E I A studies for the Sidlaghatta Site, is under progress. The Public hearing was conducted for Dobbespeth Site on 20.02.04 and the Government has accorded approval on 21.04.04 for the same. Now the Board has released Rs.80 lakhs to KIADB for acquisition of land at Dobbespeth. The final tender documents are being completed for calling tenders.
3	Geographic Information System (GIS) and Management Information System(MIS);	The status of implementation is at item No.5.20.1
4	Development of Organization Management System (OMS) and Standard Operation Procedures (SOP);	Draft SOPs are being prepared.
5	Global Environmental Monitoring System (GEMS)[ongoing]	Monitoring Continued
6	Monitoring Indian Natural Aquatic Resources System (MINARS)[ongoing]	Monitoring Continued
7	National Ambient Monitoring Programme (NAMP)[ongoing].	Monitoring Continued
8	Coastal Environmental Monitoring (CEM) under the aid of Asian Development Bank(ADB).	The status of implementation is at Item No.5.21

9	Encourage LPG as alternative fuel for Auto rickshaw in Bangalore.	An action plan has been prepared by the Government wherein new three wheelers in Bangalore are registered only with Bifuel mode. Also for the existing 3 wheelers time upto Mar 2005 has been given to switch over to Bifuel mode.
10	Provide Scholarship to Ph.D Scholars for Environmental Research.	Modalities for giving scholarship to research in environmental subject are being worked out.
11	National River Conservation Plan[ongoing]; and	Implementation of NRC Program continued and progress in shown in Item No.5.15.
12	Monitoring of Ambient Air Quality (ongoing).	Monitoring Continued.

### Activity :

Sl.No.	Projects	Action taken by the Board
1.	Speedy disposal of complaints, consents and authorization to stakeholders;	Streamlining of consent Management is under progress.
2.	To survey and identify stakeholders to bring under the purview of the pollution control laws ;	Identification of industries is an ongoing process. Sector wise identification is being carried out. Reconciliation of industries list in TECSOK report is under progress.
3.	To consult Director, Department of Housing, Department of Municipal Administration for implementation of provisions of pollution control laws by local bodies and bring them compulsory under consent mechanism;	The Board officials have participated in workshop organized by Department of Municipal Administration to elected representative of local bodies and officers of local bodies and appraised the provision of Municipal Solid Waste rules and Water Act and Water Cess Act.
4.	Initiate appropriate action for disposal of pending cases ; and	Legal advisory Committee has been constituted and status of all the pending cases has been computerized for speedy disposal.
5.	Make it compulsory the providing of pollution control measures for the new layouts by the developer before issue of license.	Provision of STP by apartments and layouts outside the BWSSB jurisdiction is being insisted.

### 9.3 Annual Action plan for the year 2004-2005

1. Establishment of two Real Time Ambient Air Quality monitoring stations in Bangalore.
2. Establishment of one Real Time Ambient Air Quality monitoring stations each in Mangalore and Karwar respectively.
3. Establishment of single window system for over the counter acceptance and issue of consent of Bangalore City.
4. Simplifying consent procedures and introduction of combined application forms under Air Act and Water Act.
5. Establishment of dedicated help line for receiving complaints from public and response to the public.
6. Computerization of the other activities of the Board:
  - \* New modules to be developed on web based oracle portal include Bio-Medical waste management, Hazardous waste management, Personnel Information System, Laboratory and Consent Modules.
  - \* Data server to be shifted from NIC and hosted in the KSPCB head office itself.
  - \* ISDN connection to all regional offices.
7. Establishment of TSDF site at Dabbespet of Bangalore Rural District.
8. Geo referencing of industries health care establishment and other effluent generators in the TG Halli catchment area.
9. Preparation of the State Environmental Atlas.
10. Preparation of the Zoning atlas for all the Districts.
11. Digitization of all Industrial Areas and Estates in Bangalore City.

## ANNEXURE I

## Staff Position of the Board as On 31.3.2004

Sl.	Designation	Sanctioned strength				Working strength	Vacancy
		As per 1992 c&r	Govt. letter Dated 16.8.97	Ap-proved in Board Meeting	Total		
<b>TECHNICAL STAFF</b>							
1.	Chief Environmental Officer	-	-	02	02	-	02
2.	Senior Environmental Officer	-	-	05	05	05	-
3.	Environmental Officer	05	01	10	16	16	-
4.	Environmental Officer Technical And Administration	-	-	01	01	01	-
5.	Deputy Environmental Officer	19	06	8	33	32	1
6.	Assistant Environmental Officer	76	76	-	152	71	81
	<b>Total</b>	<b>100</b>	<b>83</b>	<b>26</b>	<b>209</b>	<b>125</b>	<b>84</b>

**SCIENTIFIC STAFF**

7.	Chief Scientific Officer	-	1	1	2	-	2
8.	Scientific Officer	3	4	2	9	8	1
9.	Deputy Scientific Officer	8	-	3	11	8	3
10.	Assistant Scientific Officer	9	10	15	34	14	20
11.	Scientific Assistant	22	-	-	22	13	9
12.	Field Assistant	39	36	-	75	1	74
13.	Lab Attender	14	9	-	23	-	23
14.	Scientist - A	-	5	-	5	-	5
15.	Scientist - B	-	3	-	3	-	3
16.	Scientist - C	-	3	-	3	-	3
	<b>Total</b>	<b>95</b>	<b>71</b>	<b>21</b>	<b>187</b>	<b>44</b>	<b>143</b>



**ADMINISTRATION, ACCOUNTS AND OTHERS**

16.	Administrative Officer	1	-	-	1	1	-
17.	Accounts Officer	1	-	-	1	1	-
18.	Law Officer	1	-	-	1	-	1
19.	System Analyst	-	1	-	1	-	1
20.	PRO	1	-	-	1	1	-
21.	Law Assistant	6	-	-	6	-	6
22.	Senior Programmer	-	2	-	2	-	2
23.	Junior Programmer	-	8	-	8	-	8
24.	Assistant Administrative Officer	-	-	9	9	8	1
25.	Superintendent	7	3	4	14	14	-
26.	Librarian	1	-	-	1	-	1
27.	Assistant Statistical Officer	1	-	-	1	-	1
28.	Instrumentation Engineer	-	1	-	1	-	1
29.	FDA	14	26	-	40	15	25
30.	Stenographer	7	6	-	13	-	13
31.	Electrician	-	1	-	1	-	1
32.	Senior Data Entry Operator/Sr. Typist	12	33	-	45	9	36
33.	SDA	36	53	-	89	6	83
34.	Sr.Driver/Driver	25	10	-	35	12	23
35.	Daffedar/Xerox operator/peon/watchman	40	63	-	103	28	75
	<b>Total</b>	<b>153</b>	<b>207</b>	<b>13</b>	<b>373</b>	<b>95</b>	<b>278</b>

Note :

Approval for the following cadres from Government is awaited.

- \* Chief Environmental Officer
- \* Senior Environmental Officer
- \* Chief Scientific Officer
- \* Assistant Administrative Officer
- \* Senior Data Entry Operator



## ANNEXURE III

## Addresses of Offices of the Board

**HEAD OFFICE :**

Karnataka State Pollution Control Board  
4th and 5th Floor,  
# 49, Church Street,  
Parisara Bhavan, **Bangalore - 560 001.**  
<http://kspcb.kar.nic.in>  
[kspcb@kar.nic.in](mailto:kspcb@kar.nic.in)

**Phone and Telefax Nos.**

080 -25581383  
25581388  
25586520  
25589111 - 114  
Fax - 080 - 25586321

**CENTRAL LABORATORY :**

Central Laboratory  
Karnataka State Pollution Control Board  
Nirman Bhawan, Dr. Rajkumar Road  
Rajajinagar, **Bangalore - 560 010.**  
[Centrallab\\_kspcb@vsnl.net](mailto:Centrallab_kspcb@vsnl.net)

080 -23578458  
23378438  
23377430  
23370393(F)

**REGIONAL OFFICES :**

Regional Office

**Bangalore City-1**

Karnataka State Pollution Control Board  
6th Floor, Public Utility Building  
M.G. Road, Bangalore - 560 010.

080 - 25320553  
Fax - 080 -25320552

Regional Office

**Bangalore city - 2**

Karnataka State Pollution Control Board  
9th Floor, Public Utility Building  
M.G. Road, Bangalore - 1.  
[bngcitytwo@yahoo.com](mailto:bngcitytwo@yahoo.com)

080 - 25590862

Regional Office

**Bangalore South -1**

Karnataka State Pollution Control Board  
8th Floor, Public Utility Building  
M.G. Road, Bangalore - 01.

080 - 25592988



Regional Office

**Bangalore South -2**

080 - 25320345

Karnataka State Pollution Control Board  
8th Floor, Public Utility Building  
M.G. Road, Bangalore - 01.  
Bangaloresouth2@rediffmail.com

Regional Office

**Bangalore North,**

080 - 25320551

Karnataka State Pollution Control Board  
9th Floor, Public Utility Building  
M.G. Road, Bangalore - 01.

080 - 25320344 (F)

Regional Office

**Bangalore - East**

080 - 25321006

Karnataka State Pollution Control Board  
22nd Floor, Public Utility Building  
M.G. Road, Bangalore - 01.  
kspcb\_reg\_east@vsnl.in

Regional Office

**Bangalore - West**

080 - 25320341

Karnataka State Pollution Control Board  
22nd Floor, Public Utility Building  
M.G. Road, Bangalore - 01.

Regional Office (**Peenya**)

Karnataka State Pollution Control Board  
C-148, II Stage  
Peenya Indl. Estate  
**Bangalore - 560 058**

080 - 28360460

Regional Office

Karnataka State Pollution Control Board  
Plot No.42, B-2, KIADB Office Building  
Naubad Industrial Area  
**Bidar - 585 403**

08482 - 232322

robidar@rediffmail.com



## Regional Office

Karnataka State Pollution Control Board  
#1, Main Road, Auto Nagar, Kanbargi Industrial Area,  
**Belgaum - 590 015.**

0831 - 2459121

0831 - 2459956

## Regional Office

Karnataka State Pollution Control Board  
1<sup>st</sup> Floor, No.32/C :2, Vidya Nilaya  
S.G. Junior College Road, Near Durugamma Temple  
**Bellary - 583 103.**

08392 - 2254905

08392 - 2258365

kapcbbly@sancharnet.in

## Regional Office

Karnataka State Pollution Control Board  
H. No. 106, Ward No. 7/B, S.R.Colony,  
Opp secab College, Jalanagar,  
**Bijapur - 01.**

08472 - 276666

## Regional office

Karnataka State Pollution Control Board  
# 36, "Anugraha" IInd Main, M.G. Road,  
Vidyagiri,  
**Bagalkote - 587101.**

08354 - 433961

- 433962(F)

rokspcbbgk@yahoo.com

## Regional Office

Karnataka State Pollution Control Board  
H.No.869, 1<sup>st</sup> Floor, 3<sup>rd</sup> Cross(West)  
J.C.R Layout,  
**Chitradurga - 577501.**

08194 - 431422

- 434421(F)

## Regional Office

Karnataka State Pollution Control Board  
Plot No.4  
Lakkamanahalli Industrial Area, P.B. Road  
**Dharwad - 580 004.**

0836 - 462918

- 465676(F)

Dharwad\_kspcb@sancharnet.in



Regional Office  
 Karnataka State Pollution Control Board  
 Plot No.501, Near Central Excise & Customs Office  
 "C" Block, Devaraja Urs Layout  
**Davanagere - 577 006.**  
 deodvg@yahoo.com

08192-2465676  
 - 2252895(F)

Regional Office  
 Karnataka State Pollution Control Board  
 H.No.1-113/A/5 & 1, P.D.A Engineering College Road  
 Aiwan-Eshahi, **Gulbarga - 585 102**  
 Kspcbgul@yahoo.com

08472-425720  
 - 456246

Regional Office  
 Karnataka State Pollution Control Board  
 Site No. 1A, B.Katihalli Industrial Area,  
**B.M. Road,**  
**Hassan - 573 201.**

08172-2240265  
 - 241004(F)

Regional Office,  
 Karnataka State Pollution Control Board  
 Plot No. 14, KIADB Industrial Area,  
 Tamaka,  
**Kolar - 563 101.**

08152-228215

Regional Office  
 Karnataka State Pollution Control Board  
 C-14, B 5th Cross,  
 New KHB Colony,  
**Karwar - 581 306**  
**Karwar\_kspcb@sancharnet.in**

08382 - 227058

Regional Office  
 Karnataka State Pollution Control Board  
 No.436-D, Hebbal Industrial Area, K.R.S. Road,  
**Metagalli, Mysore-570 016.**

0821 - 2519411  
 - 2519444(F)



## Regional Office

Karnataka State Pollution Control Board

08232 - 239146

#D.2:1388:1642, 2nd Cross,

Bandigowda Layout,

**Mandya-571 401****Mandya-kspcb@eth.net**

## Regional Office

Karnataka State Pollution Control Board

0824 - 2408239

House No. 10B, Baikampady Industrial Area

- 2409939(F)

**Mangalore - 575 011.**

## Regional Office

Karnataka State Pollution Control Board

08532 - 227989

M.S. Chamber, 1st Floor, Beside S.S.I. Yuva.com

Computers, Lingasur Road,

**Raichur - 584 101.**

## Regional Office

Karnataka State Pollution Control Board

08182 - 225734

Sri Govinda Nilaya,

- 260090(F)

1st Parallel Road, Durgigudi

**Shimoga - 577 201**

deoshimoga\_kspcb@vsnl.in

## Regional Office

Karnataka State Pollution Control Board

0816 - 2212224

Plot No. 97, KIADB.

Antharasanahalli Industrial Area

**Tumkur - 572 106**

Deokspcb\_tumkur@hotmail.com



**ANNEXURE IV**  
**List of Board Members\* For the Period Up to 31.3.2004**

1.	Chairman Karnataka State Pollution Control Board <b>Bangalore</b>	Chairman
2.	Managing Director Karnataka Urban Water Supply & Sewerage Board <b>Bangalore</b>	Member
3.	Commissioner Dept. of Industries Khanija Bhavan Race Course Road <b>Bangalore</b>	Member
4.	Commissioner City Corporation <b>Gulbarga</b>	Member
5.	President Zilla Panchayat <b>Dakshina Kannada</b>	Member
6.	Dr. C.M. Gurumurthy No.317, 6th Main, HAL 2nd Stage, Indira Nagar <b>Bangalore.</b>	Member
7.	Sri Suresh Heblkar No.506/1, 3rd Block, New Diagonal Road, Jayanagar <b>Bangalore.</b>	Member
8.	Sri Sangameshwar, MIG-23, JP Layout Behind Court <b>Gulbarga.</b>	Member
9.	Secretary to Government Department of Ecology and Environment M.S. Building <b>Bangalore.</b>	Member

10.	Chairman Bangalore Water Supply & Sewerage Board Cauvery Bhavan <b>Bangalore.</b>	Member
11.	Secretary to Government Department of Urban Development (Municipal Administration) <b>Bangalore.</b>	Member
12.	Transport Commissioner Transport Department M.S. Building, <b>Bangalore.</b>	Member
13.	The President Bellary Zilla Panchayat <b>Bellary</b>	Member
14.	Commissioner Hubli-Dharwad City Corporation, <b>Hubli.</b>	Member
15.	Commissioner Health & Family Welfare Department Ananda Rao Circle <b>Bangalore.</b>	Member
16.	Chief Executive Officer Zilla Panchayat <b>Mysore.</b>	Member
17.	Member Secretary Karnataka State Pollution Control Board <b>Bangalore</b>	Member Convenor

\* As per Government Notification No.

1. FEE/133/ENV/98 dated 30.1.1999
2. DFE/13/EPC/2000 dated : 31.12.2001
3. FEE/20/EPC2002 dated 4.6.2002.



## ANNEXURE V

## List of Technical Advisory Committee Members (as on 31.3.2004)

1.	Dr.H. Paramesh Managing Director Lake Side Medical Centre & Hospital 33/4, Meanee Avenue Road Near Ulsoor Lake <b>Bangalore</b>	Chairman (from 13-3-2003)
2.	Dr.T.P. Halappa Gowda Professor & Head Department of Environmental Engineering Sri Jayachamarajendra College of Engineering <b>Mysore.</b>	Special Invitee
3.	Prof. D. Eswarappa Director of Collegiate Education (Retd.,) No.357, 24 "B" Cross, 9th Main Banashankari 2nd Stage <b>Bangalore.</b>	Member
4.	Dr. Mrs. Stella Samuel Principal, Bishop Cotton Girls's School, <b>Bangalore.</b>	Member (from 28-11-2003)
5.	Dr. R. Venkataraman Chief Engineer (Retired) No. 449, 8th Main, 13th Cross, ISRO Layout <b>Bangalore.</b>	Member
6.	Dr. D.L. Manjunath Professor, Department of Civil Engineering Malnad College of Engineering <b>Hassan.</b>	Member
7.	Dr. R.V. Patawari Subramanya Nilaya, Opp. Shankar Math Y.S. Colony, <b>Dharwad</b>	Invitee
8.	Dr. V.R.Somapur (Retd. Assistant Director of Animal Husbandry dept.) No.111, Basaveshwara Nagar	Member (Upto 28.11.2003)

	<b>Hubli</b>	
9.	Dr. S.B. Patil C/o Alurs Building Opp. To ITI, Sholapur Road	Member
	<b>Bijapur.</b>	
10.	Commissioner for Industrial Development & Director of Industries & Commerce 2nd Floor, Khanija Bhavan, Race Course Road	Member
	<b>Bangalore.</b>	
11.	Dr. S. Manjappa Professor & Head Chemistry & Environmental Science & Technology Study Centre Bapuji Institute of Engineering & Technology	Member
	<b>Davangere.</b>	
12.	Sri B. Chatterji Executive Director (Retd) Foundry, Forge & Space Division HAL, P-51, 7th Main Road, Sector X LIC Housing Colony Jeevan Bheemanagar	Member
	<b>Bangalore.</b>	
13.	Dr. G. Srinikethan, Professor, Department of chemical Engineering Karnataka Regional Engineering College Suratkal	Special Invitee
	<b>Srinivasanagar</b>	
14.	Dr. H. Shivananda Murthy Associate Professor Department of Aquaculture College of Fisheries University of Agricultural Sciences P.B. No. 527	Special Invitee
	<b>Mangalore</b>	
15.	Member Secretary Karnataka State Pollution Control Board	Co-Chairman (from 3-5-2003)

**Bangalore.****ANNEXURE VI****List of Library and Laboratory Committee Members**

1.	Prof. D. Eswarappa Director of Collegiate Education (Retd.,) No.357, 24 "B" Cross, 9th Main Banashankari 2nd Stage	Chairman
2.	<b>Bangalore - 560 070</b> Dr. S.B. Patil, M.Sc., Ph.D C/o Alurs Building Opp. to ITI, Sholapur Road	Member
3.	<b>Bijapur.</b> Dr. C.M. Gurumurthy, M.B.B.S. No.317, 6th Main, HAL 2nd Stage, Indiranagar,	Member
4.	<b>Bangalore - 38.</b> Sri. Suresh Heblkar No.1/56, 3rd Block, New Diagonal Road, Jayanagar,	Member
5.	<b>Bangalore - 560 011.</b> Member Secretary K.S.P.C.B.	Member
6.	<b>Bangalore - 560 001.</b> Chief Scientific Officer K.S.P.C.B. Central Lab	Member Convenor (from 26-8-2003)
7.	<b>Bangalore - 560 010.</b> Senior Environmental Officer-4 K.S.P.C.B <b>Bangalore - 1.</b>	Member Convenor (Upto 26-8-2003)

## ANNEXURE VII

<b>Committee for Preparation of State of Environment Report for Karnataka 2002</b>		
1.	Mr. Suresh Heblkar Chairman, Eco-watch 3rd Block, Jayanagar, <b>Bangalore.</b>	Chairman
2.	Chairman KSPCB	Co-chairman
3.	Mr. Ranjan Rao Trustee Nagarika Seva Trust 5th Cross, 17th Main, R.T. Nagar, <b>Bangalore.</b>	Member
4.	Dr. M.H. Swaminathan Forest Department <b>Bangalore</b>	Member
5.	Dr. C.D. Devaiah Forest Department <b>Bangalore.</b>	Member
6.	Mr. Ananda Rao KSRTC "Sarige Bhavan" K H Road <b>Bangalore.</b>	Member
7.	Prof. Vishnu Kamath Indian Institute of Science <b>Bangalore.</b>	Member
8.	Mr. H.C. Sharath Chandra Environmental Consultant Belaka, No.66 Amarjyothi Layout, R.T. Nagar Post B.G. 3rd main, Cholanagar <b>Bangalore.</b>	Member
9.	Dr. M. H. Balakrishnaiah Director (Technical) Department of Ecology and Environment 7th Floor, M.S. Building <b>Bangalore.</b>	Member
10.	Mr. M.D.N. Simha, SEO KSPCB 7th Floor, P.U. Building, M.G. Road, <b>Bangalore.</b>	Member Convenor



**Bangalore.****ANNEXURE VIII****Committee for Introduction of Economic Instruments**

1.	Dr. M. Govinda Rao Director Institute of Social and Economic Change	Chairman (Upto 28.9.2002)
2.	<b>Bangalore.</b> Chairman KSPCB	Co-chairman
3.	<b>Bangalore.</b> Mr. N. Biswal Commissioner of Income Tax	Member
4.	<b>Mysore.</b> Nominee of Commissioner of Income Tax	Member
5.	<b>Bangalore.</b> Nominee of Secretary to Government Department of Finance (Resources)	Member
6.	<b>Bangalore.</b> President Confederation of Indian Industries Karnataka Chapter	Member
7.	<b>Bangalore.</b> Director Technical Cell Department of Ecology and Environment	Member
8.	<b>Bangalore.</b> Prof. Nadakarni Ex Vice Chancellor Gulbarga University	Member
9.	<b>Gulbarga.</b> Chief Conservator of Forest Forest Department	Member
10.	<b>Bangalore.</b> Mr. Yathish Deputy Environmental Officer KSPCB	Member
11.	<b>Mandya.</b> Nominee of Director of Industries & Commerce	Member
12.	<b>Bangalore.</b> Director (Projects & Planning) KSPCB	Member Convenor

**Bangalore.****ANNEXURE IX****Committee on Bio-Diversity and Environmental Pollution Control**

1.	Chairman KSPCB	Chairman
2.	<b>Bangalore.</b> Secretary IT and BT or his nominee Department of Information Technology and Biotechnology, M.S. Building	Member
3.	<b>Bangalore.</b> Member Secretary KSPCB	Member
4.	<b>Bangalore.</b> Director (P&P) KSPCB	Member
5.	<b>Bangalore.</b> Director (Technical) Department of Ecology and Environment M.S. Building	Member
6.	<b>Bangalore.</b> Four experts from various regions/areas	Members
7.	Mr. Suresh Heblikar Chairman, Eco-watch 3rd Block, Jayanagar	Member
8.	<b>Bangalore.</b> Mr. Sangameshwar KSPCB Member	Member
9.	<b>Bangalore.</b> Dr. M.K. Sudha Sowmya Latha Assistant Environmental Officer KSPCB	Member Convenor

**Bangalore.****ANNEXURE X**

<b>Committee on Biotechnology and Pollution Control</b>		
1.	Chairman KSPCB	Chairman
2.	<b>Bangalore.</b> Secretary IT and BT or his nominee Department of Information Technology and Biotechnology, M.S. Building	Member
3.	<b>Bangalore.</b> Member Secretary KSPCB, <b>Bangalore.</b>	Member
4.	Sri B. Ramaiah Senior Environmental Officer KSPCB, <b>Bangalore.</b>	Member
5.	Sri P.N. Sirsi Senior Environmental Officer KSPCB, <b>Bangalore.</b>	Member
6.	Director or his nominee IISc, <b>Bangalore.</b>	Member
7.	Commissioner for Agriculture or His Nominee Director of Agriculture, Sheshadri Road, <b>Bangalore.</b>	Member
8.	Director Institute of Bio informatics and Applied Bio-technology, G-05, ITPL White Field Tech park mall, <b>Bangalore.</b>	Member
9.	Director (technical) Department of Ecology and Environment M.S. Building, <b>Bangalore.</b>	Member
10.	Vice President M/s Astrazeneca India Pvt. Ltd., 12th Mile, Bellary Road, Yelahanka,	Member

11.	<b>Bangalore.</b> Vice President M/s. Glaxosmithkline Pharmaceuticals Ltd., Devanahalli Road,	Member
12.	<b>Bangalore.</b> Vice President M/s Max India Ltd., Sy. No. 59, KIADB Indl. Area Nanjanagud, <b>Mysore District.</b>	Member
13.	Director (P&P) <b>KSPCB, Bangalore.</b>	Member Convenor

### ANNEXURE XI

#### List of Members of Consent Committee

1.	Chairman, KSPCB	Chairperson
2.	Member Secretary, KSPCB	Co-Chairperson
3.	SEO-1, KSPCB	Member
4.	SEO-2, KSPCB	Member
5.	President of CII Karnataka Chapter or his nominee	Member
6.	Joint Director of Industries and Commerce (To be nominated by Director of Industries and Commerce)	Member
7.	Sri Suresh Heblkar, No.506/1, 3rd Block, New Diagonal Road, Jayanagar	Member
10.	<b>Bangalore - 560 011</b> Dr. C.M. Gurumurthy No.317, 6th Main, HAL II Stage Indiranagar,	Member
11.	<b>Bangalore - 560 038.</b> Sri T. Mahesh	Member
12.	Training Development Officer, EMPRI E.O. (Technical Cell), KSPCB	Member Convenor.



## ANNEXURE XII

## Awareness Committee

1.	Chairman	Chairman
2.	KSPCB Member Secretary	Member
3.	KSPCB Dr. C.M.Gurumurthy, M.B.B.S No.317, 6th Main, HAL 2nd Stage, Indiranagar,	Member
4.	<b>Bangalore - 38</b> (Board Member) President Zilla, Panchayat, Dakshina Kannada	Member
5.	(Board Member) Lake side Education Trust	Member
6.	(Non Government Organization) Public Affairs Centre	Member
7.	(Non Government Organization) Senior Environmental Officer (Awareness Cell)	Member Convenor

KSPCB.

## ANNEXURE XIII

<b>Committee on Information Technology</b>		
1.	Chairman KSPCB	Chairman
2.	<b>Bangalore.</b> Member Secretary KSPCB	Member
3.	<b>Bangalore.</b> Director (Projects) Karnataka State Pollution Control Board	Member
4.	<b>Bangalore.</b> Director IT Department nominee Department of Information Technology M.S. Building	Member
5.	<b>Bangalore.</b> Senior Environmental Officer - 2 KSPCB	Member
6.	<b>Bangalore.</b> Sri. C.V. Srinivasa I.T. Consultant, KSPCB	Member
7.	Chief Accounts Officer KSPCB	Member
8.	Dr. C.M. Gurumurthy #317, 6th Main HAL 2nd Stage, Indiranagar, <b>Bangalore.</b>	Member



## ANNEXURE XIV

## Details of number of samples analyzed during the year 2003-2004

<b>(i)</b>	<b>Central Laboratory :</b>	
1.	Wastewater Samples	1318
2.	Water	658
3.	Air(Ambient) Samples	9191
4.	Air (Stack) Samples	39
5.	Bacteriological Samples	229
6.	Hazardous Waste	144
7.	Bio Assay	231
	<b>Total Samples :</b>	<b>11810</b>
<b>(ii)</b>	<b>Divisional Laboratory, Mysore :</b>	
1.	Wastewater Samples	570
2.	Water	748
3.	Air(Ambient) Samples	4582
4.	Air (Stack) Samples	48
5.	Bacteriological Samples	319
6.	Hazardous Waste	110
7.	Bio Assay	37
	<b>Total Samples :</b>	<b>6414</b>
<b>(iii)</b>	<b>Regional Laboratory, Davanagere :</b>	
1.	Wastewater Samples	663
2.	Water	524
3.	Air(Ambient) Samples	237
4.	Air (Stack) Samples	14
5.	Bacteriological Samples	72
6.	Bio Assay	6

	<b>Total Samples:</b>	<b>1516</b>
<b>(iv)</b>	<b>Divisional Laboratory, Dharwad :</b>	
1.	Wastewater Samples	172
2.	Water	524
3.	Air(Ambient) Samples	1185
4.	Air (Stack) Samples	22
5.	Hazardous Waste	103
6.	Bio Assay	19
	<b>Total Samples:</b>	<b>2025</b>
<b>(v)</b>	<b>Regional Laboratory, Raichur :</b>	
1.	Wastewater Samples	129
2.	Water	339
3.	Air(Ambient) Samples	35
4.	Hazardous Waste	21
	<b>Total Samples:</b>	<b>524</b>
<b>(vi)</b>	<b>Divisional Laboratory, Mangalore :</b>	
1.	Wastewater Samples	305
2.	Water	601
3.	Air(Ambient) Samples	208
4.	Air (Stack) Samples	33
5.	Bio Assay	25
	<b>Total Samples:</b>	<b>1172</b>
<b>(vii )</b>	<b>Divisional Laboratory, Gulbarga :</b>	
1.	Wastewater Samples	97
2.	Water	424
3.	Air(Ambient & stack) Samples	264
4.	Air (Stack) Samples	182
5.	Bacteriological Samples	76

	<b>Total Samples:</b>	<b>1043</b>
<b>(viii)</b>	<b>Regional Laboratory, Hassan :</b>	
1.	Wastewater Samples	290
2.	Water	370
3.	Air(Ambient) Samples	535
4.	Air (Stack) Samples	3
5.	Bacteriological Samples	23
6.	Hazardous Waste	35
	<b>Total Samples:</b>	<b>1256</b>
<b>(ix)</b>	<b>Regional Laboratory, Belgaum :</b>	
1.	Wastewater Samples	212
2.	Water	189
3.	Air(Ambient) Samples	405
4.	Air (Stack) Samples	21
7.	Bio Assay	16
5.	Bacteriological Samples	31
6.	Hazardous Waste	6
	<b>Total Samples:</b>	<b>880</b>

## ANNEXURE XVII A

<b>List of Industries Authorized To Reprocess Printed Circuit Board Waste</b>			
<b>Sl. No.</b>	<b>Name &amp; Address of the industry</b>	<b>Quantity</b>	<b>Authorization Validity</b>
1.	M/s Arabhagatte Chemicals Plot No.265-L, Hebbal Indl. Area	338 KL/Year	05/10/2005 Not working
2.	Mysore - 571 186. M/s Chevr Chemicals & Industries B-304, Peenya II Stage, Peenya Indl. Estate,	6 MT/YR	26/10/2004
3.	Bangalore - 560 083. M/s Patil Processors,	120	23/07/2008
4.	Amapur, Belgaum. M/s Sri Varu chemicals Plot No.134, 3rd Phase Peenya Indl. area	MT/YR 1380 KL/YR	14/12/2004
5.	Bangalore. M/s Shree Parishwa Chemicals No.137/2, Kullegowda Indl. Estate,	840 KL/YR	21/02/2004
6.	Kamakshipalya, Bangalore - 79. M/s Shree Parishwa Chemicals No.139/A, Bommasandra Indl. Area,	120 MT/YR	20/09/2006 Not working
7.	Anekal TQ, Bangalore. M/s Shree Associates	240	27/4/2006
8.	B-187/A, IInd Stage, PIE, Bangalore - 58. M/s Golden Processors, Q-5, Ramanalkoppa Indl. Area Tadas Cross, Hubli,	MT/YR 107.4 MT/YR	Not working 04/01/2007
9.	Kundagai taluk, Dharwad District M/s Indu Processors N-10, Industrial Estate, 1st Gate, Gokul	150 MT/YR	15/12/2005 Closed

Road, Hubli - 30.

## ANNEXURE XVII B

<b>List of Industries Authorized To Reprocess Lead Acid Batteries</b>			
<b>Sl. No.</b>	<b>Name &amp; Address of the industry</b>	<b>Quantity</b>	<b>Authorization Validity</b>
1.	M/s United Smelting Alloy India Plot No. 31-B, Jigani Indl. Area	35 MT/Month	14/09/2005
2.	Anekal Taluk, Bangalore District-562 106. M/s Ananda Metal No. C-81, IIIrd Stage, Peenya Indl. Estate,	45 MT/Month	29/11/2005
3.	Bangalore - 58. M/s Saraswathi Industries Shed No.40, Veerasandra Indl. Area,	40 MT/Month	10/01/2006
4.	Anekal Taluk, Bangalore District - 562 158. M/s Bhavani Industries #362, 4th, Peenya Industrial Area	1.5 MT/Month	12/02/2005
5.	Bangalore - 560 058. M/s G.N. Industries # 490/D, 4th Phase Peenya Industrial	120 MT/Month	31/10/2004
6.	Area, Bangalore - 560 058. M/s Eshwari Metal Industries Plot No. 101-A, Indl. Area, Baikampady,	40 MT/Month	12/5/2006
7.	Mangalore - 11 M/s Mekala Metal Works Pvt. Ltd. B-152, 2nd Stage, Peenya Indl. Estate,	45 MT/Month	21/12/2005
8.	Bangalore - 58. M/s Saphagiri Metal Refinery Plot No. 37, KIADB Indl. Area, Kallur,	15 MT/Month	07/01/2005
9.	Mandli, Shimoga - 577 202. M/s Lead age Alloys India Ltd. #60/2, Seethanayakahalli, Lakkur Hobli,	2000 MT/Month	31/07/2008
10.	Malur taluk, Kolar Dist. M/s Evershine Smelting Alloy Pvt. Ltd. Plot No. 15-C, Zone II, Attibele Indl. area	4000 MT/Month	13/10/2008
11.	Anekal taluk, Bangalore - 562 107. M/s Mahaveer Metal Works NH-13, Baradi cross road,	30 MT/Month	25/5/2008
12.	Kanthavara-574129, Karkalla taluk, Udupi. M/s Hemalatha Metal Mart, Shed No. 65-B, IIIrd Stage, Peenya Indl. Estate, Peenya, Bangalore - 58.	100 MT/Month	15/7/2005 Not working

## ANNEXURE XVII C

<b>List of Industries Authorized To Reuse Spent Activated Carbon</b>			
<b>Sl. No.</b>	<b>Name of the Industries</b>	<b>Quantity</b>	<b>Authorization Validity</b>
1.	M/s Pashupathi Steels SF No. 20/27 B, Bondanthila Village, Pedamale Post	3.0 MT/YR	01/01/2007
2.	Neeramarga, M'lore - 575 011. M/s Souza Lime Industries Pakkidakala, Melanthabethe Post & Village, Belthangady Taluk, D.K. District.	3.0 MT/YR	17/5/2003

## ANNEXURE XVII D

<b>List of Industries Authorized To Reprocess Zinc Waste</b>			
<b>Sl. No.</b>	<b>Name &amp; Address of the industries</b>	<b>Quantity</b>	<b>Authorization Validity</b>
1.	M/s Pranil Enterprises (P) Ltd. Sy.No. 32, Kallugoppanahalli Village, Bidadi Hobli, Ramanagaram taluk, Bangalore District.	3600 MT/YR	10/11/2006
2.	M/s Sri Chamundi Metal Works 77-78 Indl. Suburb, 2nd stage, Mysore	120 MT/YR only dry cell battery containing zinc	04/1/2005
3.	South, Mysore - 510 008. M/s Rajeshwari Copper Products No. 79, Indl. Suburb, Yeshwanthpur, Bangalore - 560 022.	Copper - 3600 MT/YR Brass - 3600 MT/YR Zinc ash - 860 MT/YR Copper and Aluminium wires-2400	20/5/2006
4.	M/s Priyesh Chemicals & Metals Nagappa reddy Garden, Behind menakshi temple, Bangalore-83.	MT/YR 120 MT/YR	5/1/2005



## ANNEXURE XVII E

<b>List of Industries Authorized To Reprocess Discarded Containers</b>			
<b>Sl. No.</b>	<b>Name &amp; Address of the industry</b>	<b>Quantity</b>	<b>Authorization Validity</b>
1.	M/s Green Earth Technologies No.1/A, Chickaverrana Road, Bannimantap, Mysore.	21,600 Nos	28/5/2007
2.	M/s Hajira Enterprises No-52, Site No.115, Azeez Sait, Indl. town, Nayandahalli, Mysore Road, Bangalore-560 039.	15000 Nos.	18/03/2008
3.	M/s MM Traders No.31130, Opp. K.R. Park Road Lashkar Mohalla, Mysore.	2400 Nos.	22/10/2004

## ANNEXURE XVII F

<b>List of Industries Authorized To Reprocess Spent Solvent</b>			
<b>Sl. No.</b>	<b>Name &amp; Address of the industry</b>	<b>Quantity</b>	<b>Authorization Validity</b>
1.	M/s Gomti Resins & Polymers (P) Ltd. B-36, KSSIDC Indl. Estate, Kumbalgotu, Bangalore - 560 074.	480 KL/YR	12/6/2005
2.	M/s Shri Durga Chemicals Corp. D-86 & D-63, Veerasandra Indl. Estate, Hosur Road, Bangalore District - 561 229.	180 KL/YR	27/6/2005
3.	M/s Unilab # 45/6, 6th Block, Rajajinagar	72 KL/YR	08/11/2007
4.	M/s Purex Laboratories (India) Pvt. Ltd. Virgonagar Indl. Area, old madras road, Bangalore - 560 010.	120 KL/YR	31/7/2004



5.	Avalahalli, Bangalore - 560 049. M/s Manjunatha Chemicals Shed No. D-17, KSSIDC Indl. Estate, Kumbalgodu, Mysore Road,	360 KL/YR	21/2/2004
6.	Bangalore - 74. M/s Canara Synthetics #368/10, Gowdanapalya, Subramanyapura post,	60 KL/YR	06/01/2004
7.	Bangalore. M/s. Shalini Enterprises, Shed No-A6, 3 <sup>rd</sup> Stage, Peenya industrial Area, Bangalore - 560058	200 KL/Yr	15/07/2008
8.	M/s. Banashankari Chemicals, C-94, Bommasandra Indl Estate,	3.0 MT/Yr	14/06/2004
9.	Bangalore - 562 158 M/s. Banashankari Industries Shed No:B-84, KSSIDC Indl Estate, Bommasandra, Hosur road, Anekal taluk,	3600 KL/Yr	09/12/2004
10.	Bangalore - 562 158 M/s. Sun Synthetics # 445, KRS Road,	3000 MT/Yr	04/06/ 2007
11.	Mysore - 570 016 M/s. Universal Chemical Industries 19/2, 7 <sup>th</sup> Mile Stone, Mysore Road,	120 KL/Yr Closed	27/07/2005

Bangalore - 560 039.

### ANNEXURE XVII G

#### List of Industries Authorized To Reprocess Aluminum Waste

Sl. No.	Name & Address of the industry	Quantity	Authorization Validity
1.	M/s Uma Metal Works # 138, 3 <sup>rd</sup> Main V.K.Ramanna Block Kanteerava Studio Road	6 MT/Year	18/6/2004
2.	Bangalore - 560 086 M/s Varadaraj melting works Plot No. 22E, Attibele Indl area Anekal taluk,	600 MT/Year	08/03/2007
3.	Bangalore - 107 M/s J.R. Duralumin Alloys # 114, Patel Puttaiah Indl. Area, D.G.Halli Deepanjali Nagar Layout, Mysore road cross,	3 MT/Year	26/12/2007
4.	Bangalore -560038. M/s Rajeshwari Copper Products No.79, Yeshwanthpur Indl. Suburb,	126 MT/Year	20/05/2006

Bangalore - 22.

## ANNEXURE XVIII

## List of Training Programmes and Workshops Attended By the Board Officers during 2003-2004

Sl. No.	Training Program/Seminar/Workshop	Date & Venue
1.	AE5; Reviewing plans for air pollution control devices	7th - 11th April 2003 at IIT, Bombay
2.	Polices and Strategies for Air Quality Management	14th - 18th April 2003 at IIT, Bombay
3.	AS2 : Continuous (automatic) and manual sampling of ambient air	14th - 18th April 2003 at NPC, Chennai
4.	AM3 : Pollution from Mobile Sources	14th - 18th April 2003 at Neeri, Nagpur
5.	International Public relations conference	19th - 21st April 2003 at Bangalore
6.	AM4 : Preparation of Air Quality Management plan	21st - 25th April 2003 at IIT, Bombay
7.	EIA of industrial project	April 28th to May 2, 2003 at Neeri, Nagpur.
8.	AM4 : Preparation of Air quality Management plan	5th - 9th May 2003 at Neeri, Nagpur
9.	AS1 + AS3A + AS5 : Sampling and analysis methods of ambient air pollutants and source emission including site selection guideline and statistical analysis and interpretation of air quality data	12th 23rd May 2003 at ETI, TNPCB, Chennai
10.	AM3 : Air Pollution from Mobile sources	19th - 23rd May 2003 at IOC, Faridabad
11.	AE10 : Review of EIA reports	26th - 30th May 2003 at Neeri, Nagpur
12.	Training program on AM1 + AM2A + AM2B Air Pollution Meteorology and Air Quality Monitoring	9th - 13th June 2003 at IIT, Khanpur
13.	Workshop on the Contract Labour (Regulation & Abolition) Act, 1970	20th - 21st June 2003 at Bangalore
14.	Long Term Environmental Issues in the power sector capacity building	5th July 2003 at Bangalore



	workshop.	
15.	Administrative Training	7th - 12th July 2003, Secretariat, Bangalore.
16.	Seminar on Advances in Iron Chromatography	8th July 2003 at Bangalore.
17.	Training Program on Characterization of Hazardous Waste	15th - 18th July 2003 at NEERI, NAGPUR.
18.	Training Program on "Bio-medical Waste - Planning, Design & Function.	12th - 14th August 2003 at ESCI Campus, Hyderabad.
19.	Training Workshop on Gender Awareness.	14th August 2003 at Bangalore.
20.	Awareness Program on Rain Water Harvesting	14th August 2003 at EMPRI, Bangalore
21.	In house training programme on BACTERIOLOGICAL AND TOXICOLOGICAL TEST for Scientific officers/Staff on KSPCB.	25th & 26th August 2003 at Central Laboratory, Bangalore.
22.	Office procedures and related to administrative subject.	15th - 18th September 2003 at Bangalore
23.	Personality Development Programme	26th & 27th September 2003 at EMPRI, Bangalore.
24.	Workshop on GIS : Industrial Environment & Development Applications.	9th - 11th October 2003 at Nisiet Campus, Hyderabad.
25.	In house training programme on AIR SAMPLING & ANALYSIS for Scientific officers/Staff of KSPCB	13th - 15th October 2003 at Central Laboratory, Bangalore.
26.	Training programme on Management of Hazardous Chemicals	16th & 17th October 2003 at Jaipur
27.	ISO 14000 Lead Assessor Course	27th - 31st October 2003 at Bangalore
28.	Training on Asian Conference on Environmental Education and Civil	7th - 9th November 2003 at Delhi

29.	Society. Seminar on Waste minimization & cleaner production methods in the Metal finishing industry (acid pickling process)	24th & 25th November 2003 at Bangalore.
30.	Good Urban Governance - Making Cities Work.	28th November 2003 Hyderabad
31.	Workshop on Sustainable Landfill Management	3rd - 5th December 2003 at Anna University, Chennai.
32.	Seminar on D.G. & GC-MS	3rd December 2003 at Bangalore.
33.	Workshop on Bio-Medical Waste (Management & Handling) Rules	5th Jan 2004 at EMPRI, Bangalore.
34.	Training on Environmental Management Strategies for Pollution Control and implementation of standards in petrochemical plants	19th - 23rd January 2004 at West Bengal PCB, Calcutta
35.	Management And Handling of Municipal Solid Waste.	24th January 2004 at Mysore
36.	Training Program on Environmental Auditing.	30th & 31st January 2004 at EMPRI
37.	Workshop on Cleaner Production in Electroplating.	27th February 2004, IIT, Delhi
38.	National Consultation Workshop on Bio-Medical Waste management - status analysis & planning for the	17th & 18th March 2004 at IHC, New Delhi.

future.

### ANNEXURE XIX A

<b>Environmental Awareness Programmes Sponsored by the Board during 2003-2004</b>			
<b>Sl. No.</b>	<b>Name of the NGO Institution</b>	<b>Nature of Activity</b>	<b>Sanctioned Amount</b>
1.	College of Engineering & Technology, Udayambag, Belgaum.	National conference on Urban transport and the environment UENTRA - 2003.	Rs. 10,000/-
2.	Rajivgandhi University of Health Science 4th 'T' Block Jayanagar, Bangalore - 41.	One day workshop for principals & NSS programmes officers of R.G.U.H.S on 28-5-2003.	Rs. 25,000/-
3.	Project Director, Eco-Watch No.506/1, New Diagonal Road, Jayanagar, 3rd Block, Bangalore-11.	Conducting Environmental Awareness Programme cum interactive workshop on the eve of the World Environmental Day on 7th June 2003.	Rs. 25,000/-
4.	Centre for Environment Education, Kamal Mansion, 143, Infantry Road, Bangalore - 01	2 days workshop on Bio-Medical Waste and plastics.	Rs. 10,000/-
5.	Federation of Karnataka Chambers of Commerce & Industry (FKCCI), K.G. Road, Bangalore.	Seminar on management of Industrial wastes and related issues on 26-7-2003.	Rs. 25,000/-
6.	People Science Forum (K.R.V.P. Unit), Sahana, 437, A & B Block, Double Road, Kuvempunagar, Mysore - 570 023.	Workshop on urban environmental quality monitoring system for urban centres at Mysore on 19th July, 2003.	Rs. 10,000/-
7.	Project Agastya, M/s Cherytech, 1st Floor, Manjunatha Nilayam, 30, Airport Ring Road, Koramangala,	Workshop on "Sustainable Ecomodels & the launch of the Bangalore ecocity programme of project Agastya.	Rs. 25,000/-

8.	Bangalore - 47. BMS College of Engineering (Department of Chemical Engineering) Bull Temple Road, Bangalore - 19.	A short term training programme on "Environmental Management Systems (EMS) ISO-14001" during August 25th to September 5th 2003 at Bangalore.	Rs. 10,000/-
9.	College of Fisheries, Mangalore	Conducted the National Workshop	Rs.10,000/-
10.	Organizing Committee, 37 <sup>th</sup> National Convention of the Indian College of Allergy, Asthama & Applied Immunology	Co-sponsorship for 37 <sup>th</sup> National Convention of the Indian College of Allergy, Asthama & Applied Immunology	Rs. 1,00,000/-
11.	National Seminar, Department of Environmental Science, Bangalore University,	National Seminar on Remote Sensing and its applications in Environmental Management.	

Bangalore - 56.

## ANNEXURE XIX B

Seminars and Workshops Sponsored By the Board during 2003-2004			
Sl. No.	Name of the NGO/ Institution	Nature of Activity	Sanctioned Amount
1.	Prashanthi Mahila Swasahaya Sangha (R), C.M. Road, K.R.Nagar	Awareness Programmes on ill effects usefulness of plastic for public.	Rs. 6,000/-
2.	Mysore District - 571 602. Rajya Parisara Samrakshna Samsthe (R), No.608, 2nd Floor, Dr. Rajkumar	Awareness programmes for school Children on World Environmental Day - 2003.	Rs. 25,000/-
3.	Road, Rajajinagar, Bangalore - 10 Bharatiya Samaja Seva Trust (R) No. 36/1, 5th Main Road, Nanjamba	Awareness programmes for School Children on World Environment	Rs. 16,800/-
4.	Agrahara Chamarajpete, Bangalore - 18. Gram Vikas Society & Grameena Rural Development & Training	Day - 2003 Awareness Programme for Publics on World Environment Day - 2003	Rs.2,000/-
5.	Society, Agalagurki, Kolar District. Parisara Pragna Kendra, No.2973, Alapata, Dodaballapura-561 203.	Awareness Programmes for publics & School Children on World	Rs. 5,000/-
6.	Indiranagar Priyadarshini Education Society (R) No.207, 6th Cross, Sanjayanagar, Marathally, Bangalore - 560 037.	Environment Day - 2003. Awareness programmes for publics on World Environment Day - 2003.	Rs. 5,000/-
7.	Deepak Kadhi Gramodhyoga Kaigarika Sanga (R), No.A-210, 1st Main Road, 2nd Cross, Dr. H.N.Colony, National College	Awareness programmes for Publics on World Environment Day - 2003.	Rs. 5,000/-
8.	Opposite Gauribidanur, Kolar. Yuva Chethana Yuvajana Kendra, No.678, HAL, 3rd Stage,	Awareness Programme for School Children "on Parisara Nityotsava	Rs. 20,000/-
9.	Bangalore - 75. Regional Officer, KSPCB,	Andholana. Awareness programmes on pollution	Rs. 30,000/-
10.	Bangalore East, Bangalore. Vasavi Development Trust, Doranapally, Naravalapllay (Post)	of Bellandur Tank. Environmental awareness programmes on ill effects of pollution.	Rs. 5,000/-



11.	Bagepally Taluk, Kolar District. Bharat Scouts & Guides, Devanahalli, Bangalore Rural	Awareness programmes on ill effects of pollution for publics & student on	Rs. 5,000/-
12.	District. Universal Academy, No. 243, 5th Main Road, 12th Cross, T.K. Layout, Mysore	World ozone day 2003. Painting Competition & Essay compe- tion School Children on World Ozone	Rs. 5,000/-
13.	Regional Officer, Regional Transport	Day - 2003. Awareness Programme for air pollution	Rs.10,000/-
14.	Office, Indiranagar, Bangalore East. Sree Sachhidananda Jana Seva Samsthe (R), No. 21, Geere Apartments, Vinayaka Layout, Vijayanagar,	Awareness Programme for School Children.	Rs.18,000/-
15.	Bangalore. Bharatiya Samaja Seva Trust(R),	Conducted painting & Essay Competi	Rs.95,000/-
16.	Chamarajpet, Bangalore - 18. Yuva Chethana Yuva Jana Kendra No.678, HAL 3rd Stage, Bangalore.	tion - 19 schools in Bangalore city. Conducted awareness programme about air pollution at Dharwad and	Rs.50,000/-
17.	Bellary District. Rangamandala Cultural Association, Mahamane, No.275, BCC Layout,	Conducted painting competition about pollution control.	Rs.10,000/-
18.	2nd Stage, Vijayanagar, B'lore - 40. CARTMAN, No.870, 17 'E' Main,	Organizing environmental awareness	Rs.15,000/-
19.	Koramangala, 6th Block, Bangalore. Vishwa Seva Mission, Karma Yogeshram, Gubbi Colony,	painitng competition for school children Awareness Programme on ill effect of Environmental pollution in Gulbarga	Rs.50,000/-
20.	Gulbarga - 585 105. The Commissioner,	District. Awareness Programme on effects of	Rs.10,00,000/-
21.	Transport Department, Bangalore. The Director, Health and Family Welfare Department, Bangalore.	Environmental pollution Awareness activities under Bio Medical Waste Management rules-reg.	Rs.10,00,000/-

## ANNEXURE XX

## Statement Showing the Abstract of Legal Cases as On 31.3.2004

(From Inception)

<b>1. Cases filed by the Board :</b>	248
<b>(A) Under Water Act</b>	171
(a) Pending Cases	75
Criminal Cases,	64
Criminal Miscellaneous	11
(b) Disposed Cases.	96
(i) Favour	56
Criminal Cases	20
Criminal Miscellaneous	36
(ii) Against	40
Criminal Cases	20
Criminal Miscellaneous	20
<b>(B) Under Air Act.</b>	77
(a) Pending Cases.	37
Criminal Cases	27
Criminal Miscellaneous	10
(b) Disposed Cases	40
(i) Favour	20
Criminal Cases	14
Criminal Miscellaneous	06
(ii) Against	20
Criminal Cases	09
Criminal Miscellaneous	11
<b>2. (A) Total number of Closure Orders issued:</b>	321
Under Water Act.	128
Under Air Act.	193
<b>(B) Writ Petitions filed against Closure orders</b>	103
Under Water Act.	52
Under Air Act.	51
<b>(C) Pending Cases against Closure Orders</b>	11
Under Water Act.	6



	Under Air Act	5
<b>(D)</b>	Cases disposed against Closure Orders	92
	Under Water Act	47
	Favour	45
	Against	2
	Under Air Act	45
	Favour	41
	Against	4
<b>3.</b>	Public Interest Litigation	320
	Cases disposed	279
	Favour	275
	Against	04
	Pending cases	41
<b>4.</b>	Writ Petitions filed under Cess Act	18
	Cases disposed	18
	Favour	09
	Against	09
	Pending cases	Nil
<b>5.</b>	Writ Petitions filed for different matters	251
	Cases disposed	153
	Favour	130
	Against	23
	Pending cases	38
	Service matters disposed	44
	Favour	43
	Against	01
	Service matters pending	06

## ABBREVIATION

115 cat	:	115 category industries as classified by KSPCB
AAQ	:	Ambient Air Quality
ADB	:	Asian Development Bank
AEO	:	Assistant Environmental Officer
APC	:	Air Pollution Control
ASO	:	Assistant Scientific Officer
BT	:	Bio Technology
CETP	:	Common Effluent Treatment Plant
CFE	:	Consent For Establishment
CPCB	:	Central Pollution Control Board
DEE	:	Department of Ecology and Environment
DEO	:	Deputy Environmental Officer
DEPA	:	District Environmental Protection Authority
DSO	:	Deputy Scientific Officer
EIA	:	Environmental Impact Assessment
EMPRI	:	Environment Management and Policy Research Institute
EO	:	Environmental Officer
ETI	:	Environmental Training Institute
FA	:	Field Assistant
FDA	:	First Division Assistant
FMS	:	File and Letter Monitoring System
GEMS	:	Global Environmental Monitoring System
GIS	:	Geographical Information System
GoI/GOI	:	Government of India
GoK/GOK	:	Government of Karnataka
HCE	:	Health Care Establishment
IAS	:	Indian Administrative Service



IPP	:	Industrial Pollution Prevention
ISO	:	International Standard Organization
IT	:	Information Technology
KIADB	:	Karnataka Industrial Area Development Board
LAN	:	Local Area Network
ETP	:	Effluent Treatment Plant
KSPCB	:	Karnataka State Pollution Control Board
KUDCEM	:	Karnataka Urban Development and Coastal Environment Management
KUWS&DB:		Karnataka Urban Water Supply and Drainage Board
MINARS	:	Monitoring Indian Natural Aquatic Resources System
MoEF	:	Ministry of Environment and Forest
NAAQM	:	National Ambient Air Quality Monitoring
NGO	:	Non Governmental Organization
NIC	:	National Informatics Centre
NOX/NO <sub>x</sub>	:	Oxides of Nitrogen
NRAP	:	National River Action Plan
NRCD	:	National River Conservation Directorate
ODS	:	Ozone Depleting Substance
PWD	:	Public Works Department
R & D	:	Research and Development
RSPM/RPM:		Respirable Particulate Matter
SA	:	Scientific Assistant
SDA	:	Second Division Assistant
SO	:	Scientific Officer
SO <sub>2</sub> /SO <sub>2</sub>	:	Sulphur Dioxide
SPM	:	Suspended Particulate Matter
SWA	:	Single Window Agency
YTC	:	Yet to Commission
WAN	:	Wide Area Network



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